



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 1
Change Effective Date : 1/5/2017

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2019

Commodity Specialist: Tom Schwartz

Telephone: 717-346-3828

Email: thschwartz@pa.gov

CHANGE SUMMARY:

The revised price list has been uploaded within the Records Management tab in SRM. Please contact the Motorola Account Manager, Daniel Raup, with any questions regarding product and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 2
Change Effective Date : 7/31/2017

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2019

Commodity Specialist: Tom Schwartz

Telephone: 717-346-3828

Email: thschwartz@pa.gov

CHANGE SUMMARY:

The manufacturer discount list, state of manufacture list, price list, and manufacturer authorization letter adding Cambium Networks to Motorola Solutions Inc's product offerings has been uploaded within the Records Management tab in SRM.

Please contact the Motorola Solutions Inc Account Manager, Daniel Raup, with any questions regarding products and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.

July 26, 2017

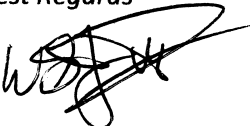
COMMONWEALTH OF PENNSYLVANIA
OFFICE OF ADMINISTRATION
OFFICE FOR INFORMATION TECHNOLOGY
555 Walnut Street, 6th Floor
Harrisburg, PA 17101

RE: Commonwealth IFB 6100039075 for Two-Way Radio Equipment & Services

To Whom It May Concern:

This letter is to certify that Cambium Networks authorizes Motorola Solutions, Inc. as being able to provide our Equipment and Services to the Commonwealth of Pennsylvania for the purposes of this IFB.

Best Regards



William Fiscus
Regional Sales Manager
Cambium Networks

Manufacturer Discount List

Category	Manufacturer Name	Link to Manufacturer's Price List	Equipment Discount	Services Discount
1 Mobile Devices and Accessories - Portable Hand Held Radios	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
2 Mobile Devices and Accessories - Vehicular Radios	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
3 Mobile Devices and Accessories - Other Mobile Two-Way Radios and Accessories (MotoTRBO & Analog Only Solutions)	Motorola Solutions Inc.	See attached price book.	10.00%	0.00%
4 Mobile Devices and Accessories - Mobile Antennas and Amplifiers	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
5 Mobile Devices and Accessories - Mobile Mounts and Power	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
5A Mobile Devices and Accessories - Mobile Mounts and Power	HAVIS INC., GAMBER JOHNSON INC.	See attached price book.	10.00%	0.00%
6 Mobile Devices and Accessories - Mobile Radio Batteries and Chargers	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
7 Mobile Devices and Accessories - Device Protection and Carry Cases	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
8 Mobile Devices and Accessories - Mobile Radio Service Equipment	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
9 Fixed Station - Two-Way Radio Control Stations	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
10 Fixed Station - Two-Way Radio Consoles	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
11 Fixed Station - Two-Way Radio Base Stations	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
12 Fixed Station - Two-Way Radio Repeaters	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
13 Fixed Station - Accessories and Service Equipment	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
14 Fixed Station - Public Safety Interoperable Communications Equipment	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
15 Fixed Station - Voice and Data Switching Equipment	Motorola Solutions Inc.	See attached price book.	20.00%	0.00%
16 Network Infrastructure and Remote Communication Sites - Antenna Structures, Towers and Poles	PYRAMID INC, SABRE INC, VALMONT INC,	See attached price book.	10.00%	0.00%
17 Network Infrastructure and Remote Communication Sites - Telecommunication Enclosures and Shelters	COMMDEX INC, PYRAMID INC, PENTAIR INC, VFP INC	See attached price book.	10.00%	0.00%
18 Network Infrastructure and Remote Communication Sites - Communication Site Hardware	AIRBUS DS, AMERICAN WIRELESS INC, ANIXTER INC, AEROFLEX-COBHAM INC, BLACKBOX INC, BIRD/TXRX INC, DBSCPECTRA INC, CAMBIUM NETWORKS INC., COMMDEX INC, COMMSCOPE LLC, CUMMINS INC, DCR EMG SERVICES INC., ELTEK INC, FORTNET INC, GENISYS SYSTEMS INC, GENERAC, HARGER INC, LINEMASTER INC, MICROWAVE NETWORKS INC, NEC INC, NICE SYSTEMS INCORPORATED, PYRAMID INC, PENTAIR INC, RAD DATA INC, RADIO IP INC, SDI INC, SEPS INC, SINCLAIR INC, TESSCO INC, TRILOGY COMMUNICATIONS INC, RAD DATA INC., RADIO FREQ SYSTEMS INC, RAYCAP INC, SEPS INC, TRAK INC, TRANSECTOR INC, TRIPP LITE INC, VALMONT INC, VERINT INC, VFP INC, WATSON FURNITURE SYSTEMS, WELDY LAMONT, ZETRON INC, ZHONE INC	See attached price book.	10.00%	0.00%
19 Network Infrastructure and Remote Communication Sites - Communication Site Power Systems - Generators	GENERAC, CUMMINS INC, SEPS INC., WELDY LAMONT	See attached price book.	10.00%	0.00%
20 Network Infrastructure and Remote Communication Sites - Communication Site Power Systems - Back up Batteries for DC Power Supplies	ELTEK INC, SEPS INC., TESSCO INC, WELDY LAMONT	See attached price book.	10.00%	0.00%
21 Network Infrastructure and Remote Communication Sites - Communication Site Power Systems - Wind and Solar Systems	COMMDEX INC, ELTEK INC, GENERAC, PYRAMID INC, SEPS INC.,	See attached price book.	10.00%	0.00%
22 Network Infrastructure and Remote Communication Sites - Remote Site Liquid Propane Storage Tanks	COMMDEX INC, PYRAMID INC,	See attached price book.	10.00%	0.00%
23 Network Infrastructure and Remote Communication Sites - Transmission Lines and Accessories	COMMSCOPE LLC, TRILOGY COMMUNICATIONS INC, RADIO FREQ SYSTEMS INC	See attached price book.	10.00%	0.00%
24 Network Infrastructure and Remote Communication Sites - Base Site Antennas and Filters - Radio Communications	BIRD/TXRX INC, COMMSCOPE INC, DBSCPECTRA INC, SINCLAIR INC,	See attached price book.	10.00%	0.00%
25 Network Infrastructure and Remote Communication Sites - Base Site Antennas and Filters - Microwave	MICROWAVE NETWORKS INC, NEC INC, CAMBIUM NETWORKS INC., COMMSCOPE LLC,	See attached price book.	10.00%	0.00%
26 Network Infrastructure and Remote Communication Sites - Base Site Antennas and Filters - Broadband	MICROWAVE NETWORKS INC, NEC INC, CAMBIUM NETWORKS INC., COMMSCOPE LLC,	See attached price book.	10.00%	0.00%
27 Network Infrastructure and Remote Communication Sites - Bi-Directional Amplifiers	FUTURECOM INC., COMMDEX INC	See attached price book.	10.00%	0.00%
28 Network Infrastructure and Remote Communication Sites - Remote Facility Chain Link Fence and Gate	COMMDEX INC, PYRAMID INC,	See attached price book.	10.00%	0.00%
29 Network Infrastructure and Remote Communication Sites - Grounding and Bonding of Electrical Systems and Equipment	COMMDEX INC, PYRAMID INC, HARGER INC, TRANSECTOR INC, TRIPP LITE INC, RAYCAP INC,	See attached price book.	10.00%	0.00%
30 Testing Equipment - Other 2-way radio test equipment	ANRITSU INC, AEROFLEX-COBHAM INC	See attached price book.	10.00%	0.00%

STATE OF MANUFACTURE CHART
THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

The Reciprocal Limitations Act 146 requires the Department to give Pennsylvania resident bidders a preference against a non-resident bidder from any state that gives or requires a preference to bidders from that state. The amount of preference shall be equal to the amount of preference applied by the state of the non-resident bidder. More information on the Act, or how to claim preference, can be obtained at our internet state at www.dgs.state.pa.us, by faxing a request to 717 787-0725, or by calling Vendor Services at 717 787-2199 or 4705.

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. **This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Department of General Services to furnish the information.** Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.

<u>ITEM NUMBER</u>	<u>NAME OF MANUFACTURER</u>	<u>STATE (OR FOREIGN COUNTRY) OF MANUFACTURE</u>
1	Motorola Solutions	IL / Malaysia / Mexico
2	Motorola Solutions	IL / Malaysia
3	Motorola Solutions	FL / IL / NJ / WA / China / India / Israel / Malaysia / Mexico
4	Motorola Solutions	IL / China / Israel / Malaysia
5	Motorola Solutions	FL / IL / NJ / WA / China / India / Israel / Malaysia / Mexico
5A	Havis Shields Equipment Co	PA
	Gamber Johnson Inc	WI
6	Motorola Solutions	China / Malaysia / Mexico / Reynosa / Taiwan
7	Motorola Solutions	FL / IL / NJ / WA / India
8	Motorola Solutions	KS / TX
9	Motorola Solutions	IL
10	Motorola Solutions	IL / Canada
11	Motorola Solutions	IL / Mexico
12	Motorola Solutions	IL / Mexico
13	Motorola Solutions	IL / KS / TX / China / Israel / Malaysia / Reynosa
14	Motorola Solutions	Israel
15	Motorola Solutions	IL / Mexico
16	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
	Sabre Inc	TX
	Valmont Inc	IN, OR
17	Commdex Inc	GA
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
	Pentair	RI
	VFP Inc	VA
18	Airbus DS	PA / AZ
	American Wireless	CA
	Anixter	PA and nationwide US, worldwide in 50 countries
	Aeroflex-Cobham Inc	KS / England
	Anritsu Inc	CA
	Blackbox Inc	PA
	Bird / TXRX Electronic Corp	OH/NY
	Cambium Networks Inc	USA (IL), Brazil, Canada, China, Czech Repub,

STATE OF MANUFACTURE CHART
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		Germany, Hungary, Israel, Italy, Japan, Mylasia, Mexico, Philippines, Slovak Repub, Taiwan, Turkey, U.K.
	Commdux Inc	GA
	Commscope Inc	NC / TX
	Cummins Inc	IN and nationwide US
	Dbspectra	TX
	DCR Eng Services	FL, MO, LA
	Eltek Inc	TX / Norway / Singapore
	Fortinet Inc.	CA / Canada / France
	Generac Inc	WI
	Genisys Systems Ltd	TX
	Harger Inc	IL
	Linemaster Inc	CT
	Microwave Networks Inc.	TX
	NEC Inc	CA / IL / TX / NY / VA
	NICE Systems Incorporated	CO / UK
	Pentair Inc	RI
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
	RAD Data Inc	NJ
	Radio Frequency Systems	CT / Germany / France / Brazil / Russia / China / Denmark / Mexico / Australia
	Radio IP Inc	FL / Canada
	Raycap Inc.	ID / Germany / Greece / Cyprus / Romania / Slovenia / China
	Sabre Inc	TX
	SDI Inc	VA
	SEPS Inc	IL
	Sinclair Technologies Inc	NY / Canada / UK
	Tessco Inc.	MD
	Trak Microwave Corporation	CA / FL / Scotland
	Transtector Systems Inc	ID
	Trilogy Communications Inc	MS
	Tripp Lite Inc	IL
	Valmont Inc	IN, OR
	VFP Inc	VA
	Verint Inc	NY
	Watson Furniture Systems	WA
	Weldy Lamont	IL
	Zetron Inc	WA / Japan
	Zhone Inc	CA
19	Cummins Inc	IN and nationwide US
	Generac Inc	WI
	SEPS Inc	IL
	Weldy Lamont	IL
20	Eltek Inc	TX / Norway / Singapore
	SEPS Inc	IL
	Tessco Inc.	MD
	Weldy Lamont	IL
21	Commdux Inc	GA
	Eltek Inc	TX / Norway / Singapore
	Generac Inc	WI
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
	SEPS Inc	IL
22	Commdux Inc	GA
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
23	Commscope Inc	NC / TX
	Trilogy Communications Inc	MS
	Radio Frequency Systems	CT / Germany / France / Brazil / Russia / China /

STATE OF MANUFACTURE CHART
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		Denmark / Mexico / Australia
24	Bird / TXRX Electronic Corp	OH/NY
	Dbspectra	TX
	Sinclair Technologies Inc	NY / Canada / UK
	Commscope Inc	NC / TX
25	Microwave Networks Inc.	TX
	NEC Inc	CA / IL / TX / NY / VA
	Cambium Networks Inc	USA (IL), Brazil, Canada, China, Czech Repub, Germany, Hungary, Israel, Italy, Japan, Mylasia, Mexico, Philipines, Slovak Repub, Taiwan, Turkey, U.K.
	Commscope Inc	NC / TX
26	Microwave Networks Inc.	TX
	NEC Inc	CA / IL / TX / NY / VA
	Cambium Networks Inc	USA (IL), Brazil, Canada, China, Czech Repub, Germany, Hungary, Israel, Italy, Japan, Mylasia, Mexico, Philipines, Slovak Repub, Taiwan, Turkey, U.K.
	Commscope Inc	NC / TX
27	Futurecom	Canada
	Commdex Inc	GA
28	Commdex Inc	GA
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
29	Commdex Inc	GA
	Pyramid Network Services Inc	NY / GA / TN / VA / OH,
	Harger Inc	IL
	Transtector Systems Inc	ID
	Tripp Lite Inc	IL
	Raycap Inc.	ID / Germany / Greece / Cyprus / Romania / Slovenia / China
30	Anritsu Inc	CA

BIDDER'S RESIDENCY

A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation for bid shall be used by the Department of General Services. If that address is incorrect, or if no address is given, the correct address should be provided in the space below.

Correct Address:

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01009420001	ODU-A 28GHz, TR1008, Lo, B1 (27520.0 - 28025.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01009420002	ODU-A 28GHz, TR1008, Hi, B1 (28528.0 - 29033.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01009420003	ODU-A 28GHz, TR1008, Lo, B2 (27968.0 - 28473.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01009420004	ODU-A 28GHz, TR1008, Hi, B2 (28976.0 - 29481.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available
01009504002	DryLine Dehydrator, Low-pressure membrane, Wall Mountable, 115 Vac	USD	\$3,700.00	PTP : Licensed : PTP800	Accessory	21.818	kg	8479.89.1000	United States	EAR99	EAR99	Released	
01010208001	ODU-A 11GHz, TR 490 & 500, Lo, B5 (10700.0 - 10890.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208001INTL	ODU-A 11GHz, TR 490 & 500, Lo, B5 (10700.0 - 10890.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208002	ODU-A 11GHz, TR 490 & 500, Hi, B5 (11200.0 - 11390.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208002INTL	ODU-A 11GHz, TR 490 & 500, Hi, B5 (11200.0 - 11390.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208003	ODU-A 11GHz, TR 490 & 500, Lo, B6 (10855.0 - 11045.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208003INTL	ODU-A 11GHz, TR 490 & 500, Lo, B6 (10855.0 - 11045.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208004	ODU-A 11GHz, TR 490 & 500, Hi, B6 (11355.0 - 11545.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208004INTL	ODU-A 11GHz, TR 490 & 500, Hi, B6 (11355.0 - 11545.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208005	ODU-A 11GHz, TR 490 & 500, Lo, B7(11010.0 - 11200.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208005INTL	ODU-A 11GHz, TR 490 & 500, Lo, B7(11010.0 - 11200.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208006	ODU-A 11GHz, TR 490 & 500, Hi, B7 (11510.0 - 11700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208006INTL	ODU-A 11GHz, TR 490 & 500, Hi, B7 (11510.0 - 11700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	
01010208007	ODU-A 11GHz, TR530, Lo, B1 (10675.0 - 10855.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208007INTL	ODU-A 11GHz, TR530, Lo, B1 (10675.0 - 10855.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010208008	ODU-A 11GHz, TR530, Hi, B1 (11205.0 - 11385.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208008INTL	ODU-A 11GHz, TR530, Hi, B1 (11205.0 - 11385.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208009	ODU-A 11GHz, TR530, Lo, B2 (10795.0 - 10975.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208009INTL	ODU-A 11GHz, TR530, Lo, B2 (10795.0 - 10975.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208010	ODU-A 11GHz, TR530, Hi, B2 (11325.0 - 11505.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208010INTL	ODU-A 11GHz, TR530, Hi, B2 (11325.0 - 11505.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208011	ODU-A 11GHz, TR530, Lo, B3 (10915.0 - 11135.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208011INTL	ODU-A 11GHz, TR530, Lo, B3 (10915.0 - 11135.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208012	ODU-A 11GHz, TR530, Hi, B3 (11445.0 - 11665.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208012INTL	ODU-A 11GHz, TR530, Hi, B3 (11445.0 - 11665.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208013	ODU-A 11GHz, TR530, Lo, B4 (11035.0 - 11215.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208013INTL	ODU-A 11GHz, TR530, Lo, B4 (11035.0 - 11215.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010208014	ODU-A 11GHz, TR530, Hi, B4 (11565.0 - 11745.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010208014INTL	ODU-A 11GHz, TR530, Hi, B4 (11565.0 - 11745.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Obsolete	
01010209001	ODU-A 18GHz, TR1010 & 1008, Lo, B1 (17685.0 - 17985.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209002	ODU-A 18GHz, TR1010 & 1008, Hi, B1 (18695.0 - 18995.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209003	ODU-A 18GHz, TR1010 & 1008, Lo, B2 (17930.0 - 18230.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209004	ODU-A 18GHz, TR1010 & 1008, Hi, B2 (18940.0 - 19240.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209005	ODU-A 18GHz, TR1010 & 1008, Lo, B3 (18180.0 - 18480.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209006	ODU-A 18GHz, TR1010 & 1008, Hi, B3 (19190.0 - 19490.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209007	ODU-A 18GHz, TR1010 & 1008, Lo, B4 (18400.0 - 18700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209008	ODU-A 18GHz, TR1010 & 1008, Hi, B4 (19410.0 - 19710.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209013	ODU-A 18GHz, TR1560, Lo, B3 (17700.0 - 18140.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010209014	ODU-A 18GHz, TR1560, Hi, B3 (19260.0 - 19700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210001	ODU-A 23GHz, TR1008, Lo, B1 (21994.0 - 22330.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210002	ODU-A 23GHz, TR1008, Hi, B1 (23002.0 - 23338.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210003	ODU-A 23GHz, TR1008, Lo, B2 (22274.0 - 22610.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210004	ODU-A 23GHz, TR1008, Hi, B2 (23282.0 - 23618.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210005	ODU-A 23GHz, TR1200, Lo, B5 (21200.0 - 21600.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210006	ODU-A 23GHz, TR1200, Hi, B5 (22400.0 - 22800.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010210007	ODU-A 23GHz, TR1200, Lo, B6 (21600.0 - 22000.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210008	ODU-A 23GHz, TR1200, Hi, B6 (22800.0 - 23200.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210009	ODU-A 23GHz, TR1200, Lo, B7 (22000.0 - 22400.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210010	ODU-A 23GHz, TR1200, Hi, B7 (23200.0 - 23600.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210011	ODU-A 23GHz, TR1232, Lo, B1 (21200.0 - 21500.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210012	ODU-A 23GHz, TR1232, Hi, B1 (22432.0 - 22732.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210013	ODU-A 23GHz, TR1232, Lo, B2 (21472.0 - 21786.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210014	ODU-A 23GHz, TR1232, Hi, B2 (22704.0 - 23018.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210015	ODU-A 23GHz, TR1232, Lo, B3 (21779.0 - 22093.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210016	ODU-A 23GHz, TR1232, Hi, B3 (23011.0 - 23325.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210017	ODU-A 23GHz, TR1232, Lo, B4 (22086.0 - 22386.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
01010210018	ODU-A 23GHz, TR1232, Hi, B4 (23318.0 - 23618.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	5A991	5A991	Released	
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010403001	ODU-A 26GHz, TR800, Lo, B1 (24250.0 - 24450.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010403002	ODU-A 26GHz, TR800, Hi, B1 (25050.0 - 25250.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010403003	ODU-A 26GHz, TR1008, Lo, B1 (24549.0 - 24885.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.8	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010403004	ODU-A 26GHz, TR1008, Hi, B1 (25557.0 - 25893.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.8	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					ODU or IRFU							Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
01010403005	ODU-A 26GHz, TR1008, Lo, B2 (24829.0 - 25165.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
					ODU or IRFU							Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
01010403006	ODU-A 26GHz, TR1008, Hi, B2 (25837.0 - 26173.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
					ODU or IRFU							Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
01010403007	ODU-A 26GHz, TR1008, Lo, B3 (25109.0 - 25445.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. □ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. □
					ODU or IRFU							Pending Obsolete	All other PTP 800 and PTP 810 elements remain available
01010403008	ODU-A 26GHz, TR1008, Hi, B3 (26117.0 - 26453.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	5A991	5A991	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available
01010411007	ODU-A 6GHz, TR252, Lo, B1 (5925.0 - 6025.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411008	ODU-A 6GHz, TR252, Hi, B1 (6175.0 - 6275.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411009	ODU-A 6GHz, TR252, Lo, B2 (6000.0 - 6100.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411010	ODU-A 6GHz, TR252, Hi, B2 (6250.0 - 6350.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411011	ODU-A 6GHz, TR252, Lo, B3 (6075.0 - 6175.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411012	ODU-A 6GHz, TR252, Hi, B3 (6325.0 - 6425.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411013	ODU-A 6GHz, TR340, Lo, B1 (6430.0 - 6540.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411014	ODU-A 6GHz, TR340, Hi, B1 (6770.0 - 6880.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411015	ODU-A 6GHz, TR340, Lo, B2 (6520.0 - 6630.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411016	ODU-A 6GHz, TR340, Hi, B2 (6860.0 - 6970.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411017	ODU-A 6GHz, TR340, Lo, B3 (6600.0 - 6710.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411018	ODU-A 6GHz, TR340, Hi, B3 (6940.0 - 7050.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411019	ODU-A 6GHz, TR340, Lo, B4 (6670.0 - 6780.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411020	ODU-A 6GHz, TR340, Hi, B4 (7010.0 - 7120.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010411022	ODU-A 6GHz, TR160, Hi, B1 (6740.0 - 6800.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411023	ODU-A 6GHz, TR160, Hi, B2 (6800.0 - 6870.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411024	ODU-A 6GHz, TR160, Lo, B1 (6580.0 - 6640.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411025	ODU-A 6GHz, TR160, Lo, B2 (6640.0 - 6710.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411026	ODU-A 6GHz, TR170, Hi, B1 (6700.0 - 6750.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010411027	ODU-A 6GHz, TR170, Lo, B1 (6530.0 - 6580.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010419001	Coaxial Cable Grounding Kits for 1/4" and 3/8" Cable	USD	\$26.00	PTP : Licensed : PTP800	Accessory	0.26	kg	8544.42.9090	China	EAR99	EAR99	Released	
01010430001	SFP SX Gig-E Optical Pluggable Module - 850 nm	USD	\$100.00	PTP : Licensed : PTP800	Accessory	0.25	kg	8517.62.0050	Malaysia	5A991	5A991	Released	
01010431001	SFP LX Gig-E Optical Pluggable Module - 1310 nm	USD	\$200.00	PTP : Licensed : PTP800	Accessory	0.25	kg	8517.62.0050	Malaysia	5A991	5A991	Released	
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433001	ODU-A 38GHz, TR1260, Hi, B2 (38864.0 - 39452.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433002	ODU-A 38GHz, TR700, Lo, B1 (38595.0 - 38805.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433003	ODU-A 38GHz, TR700, Hi, B1 (39295.0 - 39505.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433004	ODU-A 38GHz, TR700, Lo, B2 (38795.0 - 39005.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433005	ODU-A 38GHz, TR700, Hi, B2 (39495.0 - 39705.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010433006	ODU-A 38GHz, TR700, Lo, B3 (38995.0 - 39205.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433007	ODU-A 38GHz, TR700, Hi, B3 (39695.0 - 39905.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433008	ODU-A 38GHz, TR700, Lo, B4 (39195.0 - 39405.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433009	ODU-A 38GHz, TR700, Hi, B4 (39895.0 - 40105.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433010	ODU-A 38GHz, TR1260, Lo, B1 (37044.0 - 37632.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433011	ODU-A 38GHz, TR1260, Hi, B1 (38304.0 - 38892.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010433012	ODU-A 38GHz, TR1260, Lo, B2 (37604.0 - 38192.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available
01010583001	ODU-A 13GHz, TR266, Lo, B1 (12751.0 - 12814.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583002	ODU-A 13GHz, TR266, Hi, B1 (13017.0 - 13080.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010583003	ODU-A 13GHz, TR266, Lo, B2 (12807.0 - 12870.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583004	ODU-A 13GHz, TR266, Hi, B2 (13073.0 - 13136.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583005	ODU-A 13GHz, TR266, Lo, B3 (12863.0 - 12926.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583006	ODU-A 13GHz, TR266, Hi, B3 (13129.0 - 13192.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583007	ODU-A 13GHz, TR266, Lo, B4 (12919.0 - 12982.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010583008	ODU-A 13GHz, TR266, Hi, B4 (13185.0 - 13248.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584001	ODU-A 15GHz, TR420, Lo, B4 (14501.0 - 14613.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584002	ODU-A 15GHz, TR420, Hi, B4 (14921.0 - 15033.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584003	ODU-A 15GHz, TR420, Lo, B5 (14606.0 - 14725.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584004	ODU-A 15GHz, TR420, Hi, B5 (15026.0 - 15145.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584005	ODU-A 15GHz, TR420, Lo, B6 (14718.0 - 14837.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584006	ODU-A 15GHz, TR420, Hi, B6 (15138.0 - 15257.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584007	ODU-A 15GHz, TR420, Lo, B7 (14816.0 - 14928.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584008	ODU-A 15GHz, TR420, Hi, B7 (15236.0 - 15348.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584009	ODU-A 15GHz, TR490, Lo, B4 (14403.0 - 14522.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584010	ODU-A 15GHz, TR490, Hi, B4 (14893.0 - 15012.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584011	ODU-A 15GHz, TR490, Lo, B5 (14515.0 - 14634.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584012	ODU-A 15GHz, TR490, Hi, B5 (15005.0 - 15124.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584013	ODU-A 15GHz, TR490, Lo, B6 (14627.0 - 14746.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584014	ODU-A 15GHz, TR490, Hi, B6 (15117.0 - 15236.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584015	ODU-A 15GHz, TR490, Lo, B7 (14739.0 - 14858.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584016	ODU-A 15GHz, TR490, Hi, B7 (15229.0 - 15348.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584020	ODU-A 15GHz, TR728, Lo, B2 (14500.0 - 14625.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584021	ODU-A 15GHz, TR728, Hi, B2 (15228.0 - 15353.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584022	ODU-A 15GHz, TR315, Lo, B1 (14627.0 - 14746.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584023	ODU-A 15GHz, TR315, Hi, B1 (14942.0 - 15061.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584024	ODU-A 15GHz, TR315, Lo, B2 (14725.0 - 14844.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584025	ODU-A 15GHz, TR315, Hi, B2 (15040.0 - 15159.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584026	ODU-A 15GHz, TR315, Lo, B3 (14823.0 - 14942.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584027	ODU-A 15GHz, TR315, Hi, B3 (15138.0 - 15257.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010584028	ODU-A 15GHz, TR644, Lo, B1 (14400.0 - 14512.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584029	ODU-A 15GHz, TR644, Hi, B1 (15044.0 - 15156.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584030	ODU-A 15GHz, TR644, Lo, B2 (14498.0 - 14610.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584031	ODU-A 15GHz, TR644, Hi, B2 (15142.0 - 15254.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584032	ODU-A 15GHz, TR644, Lo, B3 (14596.0 - 14708.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010584033	ODU-A 15GHz, TR644, Hi, B3 (15240.0 - 15352.0 MHz), Rectangular WG,Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010589001	RF CONNECTOR,N.MALE,RIGHT ANGLE FOR CNT-400 CABLE	USD	\$24.99	PTP : Licensed : PTP800	Accessory	0.1	kg	8536.69.4010	Czech Republic	EAR99	EAR99	Released	
01010610001	ODU-A 7GHz, TR154, Lo, B1 (7428.0 - 7484.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.7	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610002	ODU-A 7GHz, TR154, Hi, B1 (7582.0 - 7638.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.7	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610003	ODU-A 7GHz, TR154, Lo, B2 (7470.0 - 7526.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610004	ODU-A 7GHz, TR154, Hi, B2 (7624.0 - 7680.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610005	ODU-A 7GHz, TR154, Lo, B3 (7512.0 - 7568.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610006	ODU-A 7GHz, TR154, Hi, B3 (7666.0 - 7722.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610013	ODU-A 7GHz, TR161, Lo, B1 (7114.0 - 7177.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610014	ODU-A 7GHz, TR161, Hi, B1 (7275.0 - 7338.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610015	ODU-A 7GHz, TR161, Lo, B2 (7149.0 - 7212.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610016	ODU-A 7GHz, TR161, Hi, B2 (7310.0 - 7373.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610017	ODU-A 7GHz, TR161, Lo, B3 (7184.0 - 7247.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610018	ODU-A 7GHz, TR161, Hi, B3 (7345.0 - 7408.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610019	ODU-A 7GHz, TR161, Lo, B4 (7219.0 - 7282.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610020	ODU-A 7GHz, TR161, Hi, B4 (7380.0 - 7443.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610021	ODU-A 7GHz, TR161, Lo, B5 (7239.0 - 7302.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610022	ODU-A 7GHz, TR161, Hi, B5 (7400.0 - 7463.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610023	ODU-A 7GHz, TR161, Lo, B6 (7274.0 - 7337.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610024	ODU-A 7GHz, TR161, Hi, B6 (7435.0 - 7498.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610025	ODU-A 7GHz, TR161, Lo, B7 (7309.0 - 7372.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610026	ODU-A 7GHz, TR161, Hi, B7 (7470.0 - 7533.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610027	ODU-A 7GHz, TR161, Lo, B8 (7344.0 - 7407.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610028	ODU-A 7GHz, TR161, Hi, B8 (7505.0 - 7568.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610029	ODU-A 7GHz, TR161, Lo, B9 (7414.0 - 7477.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610030	ODU-A 7GHz, TR161, Hi, B9 (7575.0 - 7638.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010610031	ODU-A 7GHz, TR161, Lo, B10 (7449.0 - 7512.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610032	ODU-A 7GHz, TR161, Hi, B10 (7610.0 - 7673.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610033	ODU-A 7GHz, TR161, Lo, B21 (7484.0 - 7547.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610034	ODU-A 7GHz, TR161, Hi, B21 (7645.0 - 7708.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610035	ODU-A 7GHz, TR161, Lo, B22 (7519.0 - 7582.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610036	ODU-A 7GHz, TR161, Hi, B22 (7680.0 - 7743.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610037	ODU-A 7GHz, TR161, Lo, B23 (7539.0 - 7602.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610038	ODU-A 7GHz, TR161, Hi, B23 (7700.0 - 7763.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610039	ODU-A 7GHz, TR161, Lo, B24 (7574.0 - 7637.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610040	ODU-A 7GHz, TR161, Hi, B24 (7735.0 - 7798.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610041	ODU-A 7GHz, TR161, Lo, B25 (7609.0 - 7672.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610042	ODU-A 7GHz, TR161, Hi, B25 (7770.0 - 7833.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610043	ODU-A 7GHz, TR161, Lo, B26 (7644.0 - 7707.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610044	ODU-A 7GHz, TR161, Hi, B26 (7805.0 - 7868.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610045	ODU-A 7GHz, TR196, Lo, B1 (7093.0 - 7149.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610046	ODU-A 7GHz, TR196, Hi, B1 (7289.0 - 7345.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610047	ODU-A 7GHz, TR196, Lo, B2 (7121.0 - 7177.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610048	ODU-A 7GHz, TR196, Hi, B2 (7317.0 - 7373.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610049	ODU-A 7GHz, TR196, Lo, B3 (7149.0 - 7205.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610050	ODU-A 7GHz, TR196, Hi, B3 (7345.0 - 7401.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610051	ODU-A 7GHz, TR196, Lo, B4 (7177.0 - 7233.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610052	ODU-A 7GHz, TR196, Hi, B4 (7373.0 - 7429.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610053	ODU-A 7GHz, TR196, Lo, B5 (7205.0 - 7261.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610054	ODU-A 7GHz, TR196, Hi, B5 (7401.0 - 7457.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610055	ODU-A 7GHz, TR245, Lo, B1 (7400.0 - 7484.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.4	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610056	ODU-A 7GHz, TR245, Hi, B1 (7645.0 - 7729.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.4	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610057	ODU-A 7GHz, TR245, Lo, B2 (7484.0 - 7568.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610058	ODU-A 7GHz, TR245, Hi, B2 (7729.0 - 7813.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610059	ODU-A 7GHz, TR245, Lo, B3 (7568.0 - 7652.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610060	ODU-A 7GHz, TR245, Hi, B3 (7813.0 - 7897.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010610062	ODU-A 7GHz, TR168, Lo, B1 (7443.0 - 7499.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610063	ODU-A 7GHz, TR168, Hi, B1 (7611.0 - 7667.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610064	ODU-A 7GHz, TR168, Lo, B2 (7485.0 - 7541.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610065	ODU-A 7GHz, TR168, Hi, B2 (7653.0 - 7709.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610066	ODU-A 7GHz, TR168, Lo, B3 (7527.0 - 7583.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610067	ODU-A 7GHz, TR168, Hi, B3 (7695.0 - 7751.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610068	ODU-A 7GHz, TR300, Lo, B1 (7090.0 - 7210.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610069	ODU-A 7GHz, TR300, Hi, B1 (7390.0 - 7510.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610070	ODU-A 7GHz, TR300, Lo, B2 (7210.0 - 7330.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610071	ODU-A 7GHz, TR300, Hi, B2 (7510.0 - 7630.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610072	ODU-A 7GHz, TR300, Lo, B3 (7330.0 - 7450.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010610073	ODU-A 7GHz, TR300, Hi, B3 (7630.0 - 7750.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611001	ODU-A 8GHz, TR119 / 126, Lo, B1 (8279.0 - 8307.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611002	ODU-A 8GHz, TR119 / 126, Hi, B1 (8398.0 - 8426.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611003	ODU-A 8GHz, TR119 / 126, Lo, B2 (8293.0 - 8321.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611004	ODU-A 8GHz, TR119 / 126, Hi, B2 (8412.0 - 8440.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611005	ODU-A 8GHz, TR119 / 126, Lo, B3 (8307.0 - 8335.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611006	ODU-A 8GHz, TR119 / 126, Hi, B3 (8426.0 - 8454.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611007	ODU-A 8GHz, TR119 / 126, Lo, B4 (8321.0 - 8349.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611008	ODU-A 8GHz, TR119 / 126, Hi, B4 (8440.0 - 8468.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611009	ODU-A 8GHz, TR119 / 126, Lo, B5 (8335.0 - 8363.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611010	ODU-A 8GHz, TR119 / 126, Hi, B5 (8454.0 - 8482.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611011	ODU-A 8GHz, TR119 / 126, Lo, B6 (8349.0 - 8377.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611012	ODU-A 8GHz, TR119 / 126, Hi, B6 (8468.0 - 8496.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611019	ODU-A 8GHz, TR208, Lo, B1 (8043.0 - 8113.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611020	ODU-A 8GHz, TR208, Hi, B1 (8251.0 - 8321.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611021	ODU-A 8GHz, TR208, Lo, B2 (8099.0 - 8169.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611022	ODU-A 8GHz, TR208, Hi, B2 (8307.0 - 8377.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611023	ODU-A 8GHz, TR208, Lo, B3 (8155.0 - 8225.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611024	ODU-A 8GHz, TR208, Hi, B3 (8363.0 - 8433.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
01010611025	ODU-A 8GHz, TR208, Lo, B4 (8211.0 - 8281.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611026	ODU-A 8GHz, TR208, Hi, B4 (8419.0 - 8489.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611027	ODU-A 8GHz, TR266, Lo, B1 (7905.0 - 8024.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611028	ODU-A 8GHz, TR266, Hi, B1 (8171.0 - 8290.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611029	ODU-A 8GHz, TR266, Lo, B2 (8017.0 - 8136.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611030	ODU-A 8GHz, TR266, Hi, B2 (8283.0 - 8402.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611031	ODU-A 8GHz, TR311, Lo, B2 (7835.0 - 7971.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611032	ODU-A 8GHz, TR311, Hi, B2 (8146.0 - 8282.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611033	ODU-A 8GHz, TR311, Lo, B3 (7717.0 - 7867.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611034	ODU-A 8GHz, TR311, Hi, B3 (8028.0 - 8178.0 MHz), Circular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611036	ODU-A 8GHz, TR360, Lo, B1 (7750.0 - 7870.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611037	ODU-A 8GHz, TR360, Hi, B1 (8110.0 - 8230.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611038	ODU-A 8GHz, TR360, Lo, B2 (7870.0 - 7990.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611039	ODU-A 8GHz, TR360, Hi, B2 (8230.0 - 8350.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611040	ODU-A 8GHz, TR360, Lo, B3 (7990.0 - 8110.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
01010611041	ODU-A 8GHz, TR360, Hi, B3 (8350.0 - 8470.0 MHz), Circular WG, Neg Pol	USD	\$8,308.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010612001	ODU-A 32GHz, TR812, Lo, B1 (31815.0 - 32207.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010612002	ODU-A 32GHz, TR812, Hi, B1 (32627.0 - 33019.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010612003	ODU-A 32GHz, TR812, Lo, B2 (32179.0 - 32571.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending Obsolete	All other PTP 800 and PTP 810 elements remain available

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					ODU or IRFU								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
01010612004	ODU-A 32GHz, TR812, Hi, B2 (32991.0 - 33383.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800		5.67	kg	8517620050	Philippines	EAR99	EAR99	Pending	All other PTP 800 and PTP 810 elements remain available
07009303001	ODU Mount L-Bracket, 6G, WR112	USD	\$899.00	PTP : Licensed : PTP800	Accessory	4.435	kg	8302.50.0000	Philippines	EAR99	EAR99	Released	
07009303005	ODU Mount L-Bracket, 11, 13G, WR75	USD	\$899.00	PTP : Licensed : PTP800	Accessory	4.53	kg	8302.50.0000	Philippines	EAR99	EAR99	Released	
07009304001	Hoisting Grip for CNT-400 cable	USD	\$16.52	PTP : Licensed : PTP800	Accessory	0.3	kg	7312.10.2000	Czech Republic	EAR99	EAR99	Released	
07009343001	Grounding Kit for waveguide EWP52 and EWP63	USD	\$23.69	PTP : Licensed : PTP800	Accessory	0.716676	kg	8544.42.9090	United States	EAR99	EAR99	Released	
07009343002	Grounding Kit for waveguide EWP90	USD	\$22.26	PTP : Licensed : PTP800	Accessory	0.716676	kg	8544.42.9090	United States	EAR99	EAR99	Released	
07009344001	Hoisting Grip for waveguide EWP52 and EWP63	USD	\$31.42	PTP : Licensed : PTP800	Accessory	0.399615	kg	7312.10.2000	United States	EAR99	EAR99	Released	
07009344002	Hoisting Grip for waveguide EWP90	USD	\$24.22	PTP : Licensed : PTP800	Accessory	0.299825	kg	7312.10.2000	United States	EAR99	EAR99	Released	
07010109001	ODU Remote Mount Kit 7 GHz - UBR84 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010109002	ODU Remote Mount Kit 8 GHz - UBR84 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010109003	ODU Remote Mount Kit 11 ~ 13 GHz - UBR120 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010109004	ODU Remote Mount Kit 15 GHz - UBR140 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010109005	ODU Remote Mount Kit 18 ~ 26 GHz - UBR220 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
					Accessory								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
07010109007	ODU Remote Mount Kit 38 GHz - UBR320 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8517700000	Czech Republic	EAR99	EAR99	Released	All other PTP 800 and PTP 810 elements remain available
07010109008	ODU Remote Mount Kit 6 GHz - UDR70 output	USD	\$450.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
					Accessory								21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110001	ODU Coupler Mounting Kit 7 GHz - 3dB	USD	\$899.00	PTP : Licensed : PTP800		4.1	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
					Accessory								DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110002	ODU Coupler Mounting Kit 7 GHz - 6dB	USD	\$899.00	PTP : Licensed : PTP800		4.1	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
					Accessory								DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110003	ODU Coupler Mounting Kit 8 GHz - 3dB	USD	\$899.00	PTP : Licensed : PTP800		4.1	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
					Accessory								DN-1316 - Lists replacement parts for some Obsolete items
07010110004	ODU Coupler Mounting Kit 8 GHz - 6dB	USD	\$899.00	PTP : Licensed : PTP800		4.1	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
07010110005	ODU Coupler Mounting Kit 11 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110006	ODU Coupler Mounting Kit 11 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110007	ODU Coupler Mounting Kit 13 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110008	ODU Coupler Mounting Kit 13 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110009	ODU Coupler Mounting Kit 15 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110010	ODU Coupler Mounting Kit 15 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110011	ODU Coupler Mounting Kit 18 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items
07010110012	ODU Coupler Mounting Kit 18 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
07010110013	ODU Coupler Mounting Kit 23 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐ DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110014	ODU Coupler Mounting Kit 23 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110015	ODU Coupler Mounting Kit 26 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110016	ODU Coupler Mounting Kit 26 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110017	ODU Coupler Mounting Kit 32 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110018	ODU Coupler Mounting Kit 32 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110019	ODU Coupler Mounting Kit 38 GHz - 3dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 ☐ ☐ Obsolete per Allen Yu ☐ ECO-006599 ☐ ☐
07010110020	ODU Coupler Mounting Kit 38 GHz - 6dB	USD	\$899.00 PTP : Licensed : PTP800		Accessory	4.1 kg		8517700000	Czech Republic	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items

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					Accessory								21-June-2017 <input type="checkbox"/>
													Obsolete per Allen Yu <input type="checkbox"/>
													ECO-006599 <input type="checkbox"/>
													<input type="checkbox"/>
07010110021	ODU Coupler Mounting Kit 6 GHz - 3dB	USD	\$1,350.00 PTP : Licensed : PTP800			4.1 kg		8517700000	China	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items 21-June-2017 <input type="checkbox"/>
					Accessory								Obsolete per Allen Yu <input type="checkbox"/>
													ECO-006599 <input type="checkbox"/>
													<input type="checkbox"/>
07010110022	ODU Coupler Mounting Kit 6 GHz - 6dB	USD	\$1,350.00 PTP : Licensed : PTP800			4.1 kg		8517.70.0000	China	EAR99	EAR99	Obsolete	DN-1316 - Lists replacement parts for some Obsolete items
07010118001	WR137 Flex Twist Hanger Kit	USD	\$70.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010118002	WR112 Flex Twist Hanger Kit	USD	\$70.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010118003	WR75 Flex Twist Hanger Kit	USD	\$50.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010118004	WR62 Flex Twist Hanger Kit	USD	\$55.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010118005	WR42 Flex Twist Hanger Kit	USD	\$55.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010118006	WR28 Flex Twist Hanger Kit	USD	\$55.00 PTP : Licensed : PTP800		Accessory	0.6 kg		8302.50.0000	Czech Republic	EAR99	EAR99	Released	
07010139001	PMP320 SM MOUNTING BRACKET SPARE	USD	\$40.00 PMP		Accessory	0.453 kg		8517700000	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/>
09009399001	Fixed-tuned CPR137G connector for EWP52	USD	\$504.00 PTP : Licensed : PTP800		Accessory	1.8 kg		7419.99.5050	Mexico	EAR99	EAR99	Released	Request to Obsolete per Tyler H.
09009399002	Fixed-tuned CPR90G connector for EWP90	USD	\$346.50 PTP : Licensed : PTP800		Accessory	1 kg		7419.99.5050	Mexico	EAR99	EAR99	Released	
09009399003	Fixed-tuned CPR137G connector for EWP63	USD	\$361.00 PTP : Licensed : PTP800		Accessory	1.7 kg		7419.99.5050	Mexico	EAR99	EAR99	Released	
09010091001	RF CONNECTOR,N,MALE,STRAIGHT FOR CNT-400 CABLE	USD	\$11.12 PTP : Licensed : PTP800		Accessory	0.1 kg		8536.69.4010	Czech Republic	EAR99	EAR99	Released	
1070CK-02DB	CMM MICRO - NO PWR CORD	USD	\$1,395.00 PMP		Accessory	4.63 kg		8517700000	United States	5A991	5A991	Obsolete	
1070CK-02DBINTL	CMM MICRO - NO PWR CORD	USD	\$1,395.00 PMP		Accessory	4.63 kg		8517700000	United States	5A991	5A991	Obsolete	
					Accessory								Last Sale Date will be: September 30, 2016. <input type="checkbox"/>
													<input type="checkbox"/>
1070CK-02HH	CMM MICRO W/O POWER CORD	USD	\$1,395.00 PMP			4.63 kg		8517700000	United States	5A991	5A991	Obsolete	Sent email to Eng for Arena(Eng. Status) to be changed
1070CK-03DB	CMM MICRO W/O POWER SUPPLY	USD	\$1,245.00 PMP		Accessory	4.63 kg		8517700000	United States	5A991	5A991	Obsolete	
1070CK-03DBINTL	CMM MICRO - NO PWR SPLY	USD	\$1,245.00 PMP		Accessory	4.63 kg		8517700000	United States	5A991	5A991	Obsolete	
1070CK-03HH	CMM MICRO W/O POWER SUPPLY	USD	\$1,245.00 PMP		Accessory	4.6 kg		8517700000	United States	5A991	5A991	Obsolete	
1070CKDB	CMM MICRO (OUTDOOR ENCLOSURE)	USD	\$1,395.00 PMP		Accessory			8517700000	United States	5A991	5A991	Obsolete	
					Accessory								Last Sale Date will be: September 30, 2016. <input type="checkbox"/>
													<input type="checkbox"/>
1070CKHH	CMM MICRO (OUTDOOR ENCLOSURE)	USD	\$1,395.00 PMP			5.7 kg		8517700000	United States	EAR99	EAR99	Obsolete	Sent email to Eng for Arena(Eng. Status) to be changed
1090CKBA	CMM4 W/RUGGEDIZED SWITCH AND GPS MODULE	USD	\$2,200.00 PMP		Accessory	6.4 kg		8517700000	Mexico	5A991	5A991	Obsolete	
1090CKBAINTL	CMM4 W/RUGGEDIZED SW AND GPS	USD	\$3,345.00 PMP		Accessory	6.4 kg		8517700000	Mexico	5A991	5A991	Obsolete	
1090CKHH	CMM4 W/RUGGEDIZED SWITCH AND GPS MODULE	USD	\$3,345.00 PMP		Accessory	11 kg		8517.62.0050	Mexico	5A991	5A991	Released	
1091AA	CMM4 NO SW	USD	\$1,900.00 PMP		Accessory	5.2 kg		8517700000	Mexico	5A991	5A991	Obsolete	
1091HH	CMM4 NO SWITCH	USD	\$1,800.00 PMP		Accessory	9.1 kg		8517.62.0050	Mexico	5A991	5A991	Released	
1092AA	CMM4 RACK MOUNT ASSEMBLY	USD	\$1,800.00 PMP		Accessory			8517700000	Mexico	5A991	5A991	Obsolete	
1092HH	CMM4 RACK MOUNT ASSEMBLY	USD	\$1,800.00 PMP		Accessory			8517.62.0050	Mexico	5A991	5A991	Released	
1096A	UNIVERSAL GPS MODULE	USD	\$349.00 PMP		Accessory	1.0636 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
1096AINTL	UNIVERSAL GPS MODULE	USD	\$349.00 PMP		Accessory	1.06 kg		8517700000	Mexico	5A991	5A991	Obsolete	
1096H	UNIVERSAL GPS MODULE	USD	\$349.00 PMP		Accessory	3.6 kg		8529.10.4040	Mexico	5A991	5A991	Released	
200SSB	DC SURGE SUPPRESSOR FOR CMM	USD	\$35.00 PMP		Accessory	0.25 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
200SSH	SURGE SUPPRESSOR FOR CMM POWER SUPPLY	USD	\$45.00 PMP		Accessory	0.22 kg		8535.40.0000	Mexico	EAR99	EAR99	Released	

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					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2400APDD	2.4 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400APDDINTL	2.4 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400APWLDD	2.4 GHZ ACCESS POINT, ADJUSTABLE PWR SET TO LOW	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2400BH20DD	2.4 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400BH20DDINTL	2.4 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2400BHDD	2.4 GHZ 10 MBPS BACKHAUL	USD	\$1,095.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400BHDDINTL	2.4 GHZ 10 MBPS BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400BHRF20DD	PTP 24100 Full - High power, Reflector	USD	\$1,795.00 PMP : PTP100		Backhaul	2.51 kg		8517620050	Mexico	5A992.a	.a	Obsolete	
2400BHRFDD	2.4 GHZ 10 MBPS BACKHAUL W/ REFLECTOR	USD	\$1,245.00 PMP : PTP100		Backhaul	2.51 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400BHWL20DD	2.4 GHZ 20 MBPS BACKHAUL, ADJUSTABLE POWER SET TO LOW	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400BHWLDD	2.4 GHZ 10 MBPS BACKHAUL, ADJUSTABLE PWR SET TO LOW	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400SMDD	2.4 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
2400SMDDINTL	2.4 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					CPE,SM or RM								End Of Life, Obsolete item <input type="checkbox"/> <input type="checkbox"/> DN-1206 <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2400SMHH	2.4 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100			0.56 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2400SMWLDD	2.4 GHZ SUBSCRIBER MODULE, ADJUSTABLE POWER SET TO LOW	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2401APDD	2.4 GHZ ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401APDDINTL	2.4 GHZ ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401APWLDD	2.4 GHZ ACCESS POINT W/AES, ADJUSTABLE PWR SET TO LOW	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401BH20DD	2.4 GHZ 20 MBPS BACKHAUL W/AES	USD	\$2,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Eng. Obsolete on ECO-004180 <input type="checkbox"/> DN-1121 EOL notice
2401BH20DDINTL	2.4 GHZ 20 MBPS BACKHAUL W/AES	USD	\$2,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401BHDD	2.4 GHZ 10 MBPS BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401BHDDINTL	2.4 GHZ 10 MBPS BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401BHWL20DD	2.4 GHZ 20 MBPS BACKHAUL W/AES, ADJUSTABLE POWER SET TO LOW	USD	\$2,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2401BHWLDD	2.4 GHZ 10 MBPS BACKHAUL W/AES, ADJUSTABLE PWR SET TO LOW	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2401SMDD	2.4 GHZ SUBSCRIBER MODULE W/AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2401SMDDINTL	2.4 GHZ SUBSCRIBER MODULE W/AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2401SMWLDD	2.4 GHZ SUB MDL W/ AES, ADJUSTABLE PWR SET TO LOW	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
													End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2450APDD	2.4 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2450APDDINTL	2.4 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2450APWLDD	2.4 GHZ ADVANTAGE ACCESS POINT, ADJUSTABLE PWR SET TO LOW	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
													End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
2450SMDD	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2450SMDDINTL	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2450SMWLDD	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE, ADJUSTABLE POWER SET TO LOW	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point								EOL ☐ DN-1206 PMP100 ☐ ☐ Per Matt M. Turned back to orderable. There is currently a need for this item and stock available (2400SMHH tanapa)
2451APDD	2.4 GHZ ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2451APDDINTL	2.4 GHZ ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2451APWLDD	2.4 GHZ ADVANTAGE ACCESS POINT W/AES, ADJUSTABLE PWR SET TO LOW	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
2451SMDD	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE W/ AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2451SMDDINTL	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2451SMWLDD	2.4 GHZ ADVANTAGE SUBSCRIBER MODULE W/ AES, ADJUSTABLE POWER SET TO LOW	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								Change #ECO-005206 ☐ EOL ☐ DN-1206 ☐ LAST SALE DATE PASSED
2460APDD	2.4 GHZ MICROPOP ADVANTAGE AP	USD	\$449.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
2460SMDE	2.4 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	EOL / DN-1206 ☐ LAST SALE DATE HAS PASSED ☐ ☐
2460SMHH	2.4 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.56 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Change #ECO-005206 85009323001 Sold as HK2022A Pack of 4 is the replacement Part.
27RDD	REFLECTOR DISH	USD	\$100.00 PMP		Antenna	1.56 kg		8517700000	United States	EAR99	EAR99	Obsolete	
30009399001	Cable Assembly Kit 1, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8517700000	United States	EAR99	EAR99	Obsolete	
30009399002	Cable Assembly Kit 10, SMA, M, R/A-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399003	Cable Assembly Kit 11, SMA, M, R/A-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399004	Cable Assembly Kit 2, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399005	Cable Assembly Kit 3, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399006	Cable Assembly Kit 4, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399007	Cable Assembly Kit 5, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399008	Cable Assembly Kit 6, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399009	Cable Assembly Kit 7, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399010	Cable Assembly Kit 8, SMA, M-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009399011	Cable Assembly Kit 9, SMA, M, R/A-M, R/A	USD	\$160.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Philippines	EAR99	EAR99	Obsolete	
30009403001	IF cable for PTP800 CMU and IRFU	USD	\$75.00 PTP : Licensed : PTP800		Accessory	0.16 kg		8544.20.0000	Mexico	EAR99	EAR99	Released	
30009404001	Flexible Twist,WR137,PDR70,12.0 inch,CPR137G,5.725 - 6.425 GHz,VSWR 1.03	USD	\$500.00 PTP : Licensed : PTP800		Accessory	1.350344 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
30009404002	Flexible Twist,WR137,PDR70,24.0 inch,CPR137G,5.725 - 6.425 GHz,VSWR 1.03	USD	\$500.00 PTP : Licensed : PTP800		Accessory	1.445145 kg		8307.90.3000	Mexico	EAR99	EAR99	Released	
30009404003	Flexible Twist,WR137,PDR70,35.0 inch,CPR137G,5.725 - 6.425 GHz,VSWR 1.03	USD	\$565.00 PTP : Licensed : PTP800		Accessory	2.320125 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
30009404004	Flexible Twist,WR137,PDR70,12.0 inch,CPR137G,6.425 - 7.125 GHz,VSWR 1.03	USD	\$500.00 PTP : Licensed : PTP800		Accessory	1.108126 kg		8307.90.3000	Mexico	EAR99	EAR99	Released	
30009404005	Flexible Twist,WR137,PDR70,24.0 inch,CPR137G,6.425 - 7.125 GHz,VSWR 1.03	USD	\$500.00 PTP : Licensed : PTP800		Accessory	1.446959 kg		8307.90.3000	United States	EAR99	EAR99	Released	
30009404006	Flexible Twist,WR137,PDR70,35.0 inch,CPR137G,6.425 - 7.125 GHz,VSWR 1.03	USD	\$565.00 PTP : Licensed : PTP800		Accessory	1.873336 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
30009406002	N-to-N CABLE (16")	USD	\$24.00 PMP		Accessory	0.09 kg		8544.20.0000	United States	EAR99	EAR99	Released	
30009407001	Flexible Twist,WR90,PDR100,12.0 inch,CPR90G,10.7 - 11.7 GHz,VSWR 1.03	USD	\$470.00 PTP : Licensed : PTP800		Accessory	0.532064 kg		8307.90.3000	Mexico	EAR99	EAR99	Released	
30009407002	Flexible Twist,WR90,PDR100,24.0 inch,CPR90G,10.7 - 11.7 GHz,VSWR 1.03	USD	\$470.00 PTP : Licensed : PTP800		Accessory	0.759314 kg		8307.90.3000	Mexico	EAR99	EAR99	Released	
30009407003	Flexible Twist,WR90,PDR100,35.0 inch,CPR90G,10.7 - 11.7 GHz,VSWR 1.03	USD	\$515.00 PTP : Licensed : PTP800		Accessory	0.97799 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
30009408001	AC LINECORD IEC320 110V	USD	\$6.30 PMP		Accessory	0.1835 kg		8517700000	China	EAR99	EAR99	Obsolete	ECO-006212 ☐ Request to Obsolete per Tyler H.
30010194001	50 Ohm Braided Coaxial Cable - 75 meter	USD	\$400.00 PTP : Licensed : PTP800		Accessory	7.7 kg		8544.20.0000	United States	EAR99	EAR99	Released	
30010195001	50 Ohm Braided Coaxial Cable - 500 meter	USD	\$2,000.00 PTP : Licensed : PTP800		Accessory	55 kg		8544.20.0000	United States	EAR99	EAR99	Released	
30010227001	POWER INJECTOR, 29.5V	USD	\$10.00 PMP		Accessory	0.1 kg		8504.40.8500	China	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
30010228001	POWER INJECTOR, 56V	USD	\$10.00 PMP		Accessory	0.1046	kg	8504408500	China	EAR99	EAR99	Obsolete	
					Access Point								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ 15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE ☐
3530APC	PMP35320 CONNECTORIZED ACCESS POINT	USD	\$4,195.00 PMP : PMP300		Access Point	3.069	kg	8517620050	China	5A002.a.1 .a	5A002.a.1 .a	Obsolete	6-Jun-14 On Hold due to hardware Issue - MT
3530APCINTL	PMP35320 CONNECTORIZED ACCESS POINT	USD	\$4,195.00 PMP : PMP300		Access Point	3.069	kg	8517620050	China	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
					CPE,SM or RM								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ 15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
3530SM	PMP35320 SUBSCRIBER MODULE	USD	\$795.00 PMP : PMP300			3.13	kg	8517620050	China	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ 15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
3530SMC	PMP35320 CONNECTORIZED SUBSCRIBER MODULE	USD	\$995.00 PMP : PMP300		CPE,SM or RM	3.13	kg	8517620050	China	5A992.a	5A992.a	Obsolete	
3530SMCINTL	PMP35320 CONNECTORIZED SUBSCRIBER MODULE	USD	\$995.00 PMP : PMP300		CPE,SM or RM	3.13	kg	8517620050	China	5A992.a	5A992.a	Obsolete	
3530SMINTL	PMP35320 SUBSCRIBER MODULE	USD	\$795.00 PMP : PMP300		CPE,SM or RM	3.13	kg	8517620050	China	5A992.a	5A992.a	Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
3540SM	3.5 GHZ OFDM SUBSCRIBER MODULE	USD	\$1,595.00 PMP : PMP400					8517620050	Mexico	5A991	5A991	Obsolete	
					Access Point								14-May-14 Have made Unavailable for order. No further customer orders will be accepted- NE ☐ The 3.6 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE ☐
3630APC	PMP36320 CONNECTORIZED ACCESS POINT	USD	\$4,195.00 PMP : PMP300		Access Point	3.069	kg	8517620050	China	5A002.a.1 .a	5A002.a.1 .a	Obsolete	6-Jun-14 On Hold due to hardware Issue - MT
3630APCINTL	PMP36320 CONNECTORIZED ACCESS POINT	USD	\$4,195.00 PMP : PMP300		Access Point	3.069	kg	8517620050	China	5A002.a.1 .a	5A002.a.1 .a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													14-Aug-2015 ☐ Tanapa (3630HH) associated with this kit is now completely obsolete. ☐ Ok to Obsolete region statuses per Matt M. ☐ TO include: ☐ 3630HH, 3630SM, HK1882A, HK1941A ☐ All contained the 3630HH ☐ ☐ ☐ 14-May-14 Have made Unavailable for order. No further customer orders will be accepted-NE ☐ ☐ 15-April-14 The 3.6 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
3630SM	PMP36320 SUBSCRIBER MODULE	USD	\$795.00 PMP : PMP300		CPE,SM or RM	3.13 kg		8517620050	China	5A992.a	5A992.a	Obsolete	
													14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-14 The 3.6 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
3630SMC	PMP36320 CONNECTORIZED SUBSCRIBER MODULE	USD	\$995.00 PMP : PMP300		CPE,SM or RM	3.13 kg		8517620050	China	5A992.a	5A992.a	Obsolete	
3630SMCINTL	PMP36320 CONNECTORIZED SUBSCRIBER MODULE	USD	\$995.00 PMP : PMP300		CPE,SM or RM	3.13 kg		8517620050	China	5A992.a	5A992.a	Obsolete	
3630SMINTL	PMP36320 SUBSCRIBER MODULE	USD	\$795.00 PMP : PMP300		CPE,SM or RM	3.13 kg		8517620050	China	5A992.a	5A992.a	Obsolete	
4940AP	4.9 GHZ OFDM ACCESS POINT	USD	\$3,495.00 PMP : PMP400		Access Point	1.6444 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
4940APC	4.9 GHZ OFDM CONNECTORIZED ACCESS POINT	USD	\$3,395.00 PMP : PMP400		Access Point	1.6444 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
4940BH	4.9 GHZ OFDM BACKHAUL	USD	\$1,995.00 PMP : PTP200		Backhaul	1.6444 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
4940BHC	4.9 GHZ OFDM CONNECTORIZED BACKHAUL	USD	\$1,995.00 PMP : PTP200		Backhaul	1.6444 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
4940SM	4.9 GHZ OFDM SUBSCRIBER MODULE	USD	\$1,195.00 PMP : PMP400		CPE,SM or RM	1.6444 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status ☐ ☐
4940SMC	4.9 GHZ OFDM CONNECTORIZED SUBSCRIBER MODULE	USD	\$1,195.00 PMP : PMP400		CPE,SM or RM	1.6444 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
													DN-1163 sent: April 27, 2015 ☐ Last Order Date: July 30, 2015

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
4941AP	4.9 GHZ OFDM ACCESS POINT WITH AES	USD	\$3,995.00 PMP : PMP400		Access Point	1.64	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
4941APC	4.9 GHZ OFDM CONNECTORIZED ACCESS POINT W/AES	USD	\$3,895.00 PMP : PMP400		Access Point	1.6444	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
4941BH	4.9 GHZ OFDM BACKHAUL WITH AES	USD	\$2,245.00 PMP : PTP200		Backhaul	1.6444	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
4941BHC	4.9 GHZ OFDM CONNECTORIZED BACKHAUL W/AES	USD	\$2,245.00 PMP : PTP200		Backhaul	1.6444	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
4941SM	4.9 GHZ OFDM SUBSCRIBER MODULE W/AES	USD	\$1,445.00 PMP : PMP400		CPE,SM or RM	1.81	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
4941SMC	4.9 GHZ OFDM CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$1,445.00 PMP : PMP400		CPE,SM or RM	1.6444	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/> DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
5200APG	5.2 GHZ ACCESS POINT	USD	\$995.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200APHZG	5.2 GHZ ACCESS POINT - HPOL	USD	\$995.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5200APHZUSG	5.2 GHZ ACCESS POINT - HPOL, US	USD	\$995.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5200APUSG 5200BH20G	5.2 GHZ ACCESS POINT, US 5.2 GHZ 20 MBPS BACKHAUL	USD USD	\$995.00 PMP : PMP100 \$1,645.00 PMP : PTP100		Access Point Backhaul	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200BH20USG	5.2 GHZ 20 MBPS BACKHAUL, US	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200BHG	5.2 GHZ 10 MBPS BACKHAUL	USD	\$995.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5200BHUSG	5.2 GHZ 10 MBPS BACKHAUL, US	USD	\$995.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200SMDD	5.2 GHZ SUBSCRIBER MODULE	USD	\$515.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> <input type="checkbox"/> DN-1206 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200SMG	5.2 GHZ SUBSCRIBER MODULE	USD	\$515.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5200SMHZG	5.2 GHZ SUBSCRIBER MODULE HPOL	USD	\$515.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5201APG	5.2 GHZ ACCESS POINT W/AES	USD	\$1,495.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5201APUSG	5.2 GHZ ACCESS POINT W/AES, US	USD	\$1,495.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5201BH20G	5.2 GHZ 20 MBPS BACKHAUL W/AES	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5201BH20USG	5.2 GHZ 20 MBPS BACKHAUL W/AES, US	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5201BHG	5.2 GHZ 10 MPBS BACKHAUL W/AES	USD	\$1,495.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5201BHUSG	5.2 GHZ 10 MBPS BACKHAUL W/AES, US	USD	\$1,495.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
					CPE,SM or RM								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5201SMG	5.2 GHZ SUBSCRIBER MODULE W/AES	USD	\$765.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5202APG	5.1 GHZ ACCESS POINT	USD	\$995.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5202BHG	5.1 GHZ 10 MBPS BACKHAUL	USD	\$995.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5202SMG	5.1 GHZ SUBSCRIBER MODULE	USD	\$515.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
					Backhaul								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5212BH20G	5.1 GHZ 20 MBPS BACKHAUL	USD	\$1,495.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5250APG	5.2 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5250APHZG	5.2 GHZ ADVANTAGE ACCESS POINT HPOL	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5250APHZUSG	5.2 GHZ ADVANTAGE ACCESS POINT - HPOL, US	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5250APUSG	5.2 GHZ ADVANTAGE ACCESS POINT, US	USD	\$1,895.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5250SMG	5.2 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5250SMHZG	5.2 GHZ ADVANTAGE SUBSCRIBER MODULE HPOL	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5251APG	5.2 GHZ ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5251APUSG	5.2 GHZ ADVANTAGE ACCESS POINT W/AES, US	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5251SMG	5.2 GHZ ADVANTAGE SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	<p>End Of Life, Obsolete item <input type="checkbox"/></p> <p>*DN-1206* <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Announcement of EOL: Sept 21, 2015 <input type="checkbox"/></p> <p>Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>End of Product Support: January 29, 2021 <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).</p>
5252APG	5.1 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	<p>End Of Life, Obsolete item <input type="checkbox"/></p> <p>*DN-1206* <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Announcement of EOL: Sept 21, 2015 <input type="checkbox"/></p> <p>Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>End of Product Support: January 29, 2021 <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).</p>
5252SMG	5.1 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	<p>End Of Life, Obsolete item <input type="checkbox"/></p> <p>*DN-1206* <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Announcement of EOL: Sept 21, 2015 <input type="checkbox"/></p> <p>Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>End of Product Support: January 29, 2021 <input type="checkbox"/></p> <p><input type="checkbox"/></p> <p>Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).</p>

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5260APG	5.2 GHZ MICROPOP ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5260APHZG	5.2 GHZ MICROPOP HPOL ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5260APHZUSG	5.2 GHZ MICROPOP HPOL ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5260APUSG	5.2 GHZ MICROPOP ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> <input type="checkbox"/> DN-1206 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016). EOL DN-1121 <input type="checkbox"/> <input type="checkbox"/> PMP 100 NO LONGER ACTIVE
5260SMDD	5.2 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5260SMG	5.2 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400APCG	5.4 GHZ CONNECTORIZED ACCESS POINT	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	*temp reactivate to fulfill order as over 300 in stock <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400APG	5.4 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400APGINTL	5.4 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5400APHZG	5.4 GHZ ACCESS POINT HPOL	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400APHZUSG	5.4 GHZ ACCESS POINT - HPOL, US	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400APUSG	5.4 GHZ ACCESS POINT, US	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400BH02G	5.4 GHZ BACKHAUL, 2 MBPS	USD	\$450.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400BH04G	5.4 GHZ BACKHAUL, 4 MBPS	USD	\$550.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400BH20G	5.4 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BH20GINTL	5.4 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BH20USG	5.4 GHZ 20 MBPS BACKHAUL, US	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHC02G	5.4 GHZ CONNECTORIZED BACKHAUL, 2 MBPS	USD	\$450.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHC04G	5.4 GHZ CONNECTORIZED BACKHAUL, 4 MBPS	USD	\$550.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHC20G	5.4 GHZ 20 MBPS CONNECTORIZED BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHCG	5.4 GHZ 10 MBPS CONNECTORIZED BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400BHG	5.4 GHZ BACKHAUL	USD	\$1,095.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHGINTL	5.4 GHZ BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400BHUSG	5.4 GHZ 10 MBPS BACKHAUL, US	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400SMCG	5.4 GHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5400SMCGINTL	5.4 GHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400SMG	5.4 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5400SMGINTL	5.4 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													End Of Life, Obsolete item <input type="checkbox"/>
													<input type="checkbox"/>
													DN-1206 <input type="checkbox"/>
													<input type="checkbox"/>
													Announcement of EOL: Sept 21, 2015 <input type="checkbox"/>
													<input type="checkbox"/>
													Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/>
													<input type="checkbox"/>
													End of Product Support: January 29, 2021 <input type="checkbox"/>
													<input type="checkbox"/>
													Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5400SMHZDD	5.4 GHZ SUBSCRIBER MODULE HPOL	USD	\$595.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5400SMHZG	5.4 GHZ SUBSCRIBER MODULE HPOL	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5401APCG	5.4 GHZ CONNECTORIZED ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
					Access Point								
5401APG	5.4 GHZ ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Changed back to Pend. Obs. to place on an order per Matt M. <input type="checkbox"/>
5401APUSG	5.4 GHZ ACCESS POINT W/AES, US	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	We still have usable stock of 5400XLHH in NA
5401BH02G	5.4 GHZ BACKHAUL W/ AES, 2 MBPS	USD	\$700.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BH04G	5.4 GHZ BACKHAUL W/ AES, 4 MBPS	USD	\$800.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	EOL <input type="checkbox"/>
5401BH20G	5.4 GHZ 20 MBPS BACKHAUL W/AES	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	PMP/PTP 100 ALL OBSOLETE
5401BH20USG	5.4 GHZ 20 MBPS BACKHAUL W/AES, US	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHC02G	5.4 GHZ CONNECTORIZED BACKHAUL W/AES, 2 MBPS	USD	\$700.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHC04G	5.4 GHZ CONNECTORIZED BACKHAUL W/AES, 4 MBPS	USD	\$800.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHC20G	5.4 GHZ 20 MBPS CONNECTORIZED BACKHAUL W/AES	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHCG	5.4 GHZ 10 MBPS CONNECTORIZED BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHG	5.4 GHZ BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401BHUSG	5.4 GHZ 10 MBPS BACKHAUL W/AES, US	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5401SMCG	5.4 GHZ CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								
5401SMG	5.4 GHZ SUBSCRIBER MODULE W/AES	USD	\$845.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Changed back to Pend. Obs. to place on an order per Matt M. <input type="checkbox"/>
					Backhaul								We still have usable stock of 5400HH
5440BH	5.4 GHZ OFDM BACKHAUL	USD	\$1,995.00 PMP : PTP200			1.56 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas.
					Backhaul								
5440BHC	5.4 GHZ OFDM CONNECTORIZED BACKHAUL	USD	\$1,995.00 PMP : PTP200			1.56 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas.

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5441BH	5.4 GHZ OFDM BACKHAUL WITH AES	USD	\$2,245.00 PMP : PTP200		Backhaul	1.56	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5441BHC	5.4 GHZ OFDM CONNECTORIZED BACKHAUL W/AES	USD	\$2,245.00 PMP : PTP200		Backhaul	1.56	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas.
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5450APCG	5.4 GHZ CONNECTORIZED ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100			0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5450APG	5.4 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100			0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5450APGINTL	5.4 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5450APHZG	5.4 GHZ ADVANTAGE ACCESS POINT HPOL	USD	\$1,895.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5450APHZUSG	5.4 GHZ ADVANTAGE ACCESS POINT - HPOL, US	USD	\$1,895.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	*Temp Reactivate as we have stock of tanapa 5400XLHH* <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5450APUSG	5.4 GHZ ADVANTAGE ACCESS POINT, US	USD	\$1,895.00 PMP : PMP100			0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5450SMCG	5.4 GHZ ADVANTAGE CONNECTORIZED SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
					CPE,SM or RM								
5450SMG	5.4 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5450SMGINTL	5.4 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5451APCG	5.4 GHZ CONNECTORIZED ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
					Access Point								
5451APG	5.4 GHZ ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5451APUSG	5.4 GHZ ADVANTAGE ACCESS POINT W/AES, US	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5451SMCG	5.4 GHZ ADVANTAGE CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
					CPE,SM or RM								
5451SMG	5.4 GHZ ADVANTAGE SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5460APCG	5.4 GHZ MICROPOP CONNECTORIZED ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5460APG	5.4 GHZ MICROPOP ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5460APHZG	5.4 GHZ MICROPOP HPOL ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5460APHZUSG	5.4 GHZ MICROPOP HPOL ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5460APUSG	5.4 GHZ MICROPOP ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5460SMDD	5.4 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5460SMG	5.4 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1121 EOL notice
5460SMGINTL	5.4 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point							Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/>
5480AP	5.4 GHZ OFDM INTEGRATED ACCESS POINT	USD	\$3,495.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/>
5480APC	5.4 GHZ OFDM CONNECTORIZED ACCESS POINT	USD	\$3,395.00 PMP : PMP430		Access Point	3.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/> End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/>
5480APCUS	5.4 GHZ OFDM CONNECTORIZED ACCESS POINT, US	USD	\$3,395.00 PMP : PMP430		Access Point	3.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/>
5480APINTL	5.4 GHZ OFDM INTEGRATED ACCESS POINT	USD	\$3,495.00 PMP : PMP430		Access Point	7.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/> End of Product Support: May 13, 2020 <input type="checkbox"/>

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5480APUS	5.4 GHZ OFDM INTEGRATED ACCESS POINT, US	USD	\$3,495.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐ Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020 6/4/13 inventory depleted, can no longer be sold in EMEA ☐ ☐
5480BH10	5.4 GHZ 10 MBPS OFDM BACKHAUL	USD	\$670.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	27-Jan-15 Changed to Unavailable for Order per Matt M. 6/4/13 inventory depleted, can no longer be sold in EMEA
5480BH20	5.4 GHZ 20 MBPS OFDM BACKHAUL	USD	\$840.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA ☐ ☐
5480BH50	5.4 GHZ 50 MBPS OFDM BACKHAUL	USD	\$1,010.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	27-Jan-15 Changed to Unavailable for Order per Matt M.
5480BH50INTL	5.4 GHZ 50 MBPS OFDM BACKHAUL	USD	\$1,498.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	27-Jan-15 Changed to Unavailable for Order per Matt M.
5480BH50US	5.4 GHZ 50 MBPS OFDM BACKHAUL, US	USD	\$1,010.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	This part was changed to Released status due to HK1977A having in its BOM. ☐ We do not want this item 5480BH50US orderable by customers as it was included on DN-1121 EOL notice per Matt M. End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐
5481AP	5.4 GHZ OFDM INTEGRATED ACCESS POINT W/AES	USD	\$3,995.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020 End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐
5481APC	5.4 GHZ OFDM CONNECTORIZED ACCESS POINT W/AES	USD	\$3,895.00 PMP : PMP430		Access Point	3.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020
5481APCUS	5.4 GHZ OFDM CONNECTORIZED ACCESS POINT W/AES, US	USD	\$3,895.00 PMP : PMP430		Access Point	3.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5481APUS	5.4 GHZ OFDM INTEGRATED ACCESS POINT W/AES, US	USD	\$3,995.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5481BH10	5.4 GHZ 10 MBPS OFDM BACKHAUL AES	USD	\$840.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5481BH10US	5.4 GHZ 10 MBPS OFDM BACKHAUL AES, US	USD	\$840.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5481BH20	5.4 GHZ 20 MBPS OFDM BACKHAUL AES	USD	\$1,010.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5481BH20US	5.4 GHZ 20 MBPS OFDM BACKHAUL AES, US	USD	\$1,010.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5481BH50	5.4 GHZ 50 MBPS OFDM BACKHAUL AES	USD	\$1,180.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
5481BH50US	5.4 GHZ 50 MBPS OFDM BACKHAUL AES, US	USD	\$1,180.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5490SM10	5.4 GHZ 10MBPS OFDM SM	USD	\$598.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ ☐ ECO-004858 has been submitted

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5490SM20	5.4 GHZ 20MBPS OFDM SM	USD	\$698.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ ECO-004858 has been submitted
5490SM4	5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE	USD	\$498.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐
5490SM40 5490SM4INTL	5.4 GHZ 40MBPS OFDM SM 5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE	USD USD	\$898.00 PMP : PMP430 \$498.00 PMP : PMP430		CPE,SM or RM	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	ECO-004858 has been submitted
5491SM10	5.4 GHZ 10MBPS OFDM SM W/AES	USD	\$848.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ ECO-004858 has been submitted
5491SM20	5.4 GHZ 20MBPS OFDM SM W/AES	USD	\$948.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ ECO-004858 has been submitted
5491SM4	5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE W/AES	USD	\$748.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). ☐ ECO-004858 has been submitted
5491SM40 5700APCG	5.4 GHZ 40MBPS OFDM SM W/AES 5.7 GHZ CONNECTORIZED ACCESS POINT	USD USD	\$1,148.00 PMP : PMP430 \$1,095.00 PMP : PMP100		Access Point	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	ECO-004858 has been submitted

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700APG	5.7 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700APGINTL	5.7 GHZ ACCESS POINT	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700APHZG	5.7 GHZ ACCESS POINT HPOL	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700APHZUSG	5.7 GHZ ACCESS POINT HPOL, US	USD	\$1,095.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700APUSG	5.7 GHZ ACCESS POINT, US	USD	\$1,095.00 PMP : PMP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BH02G	5.7 GHZ BACKHAUL, 2 MBPS	USD	\$450.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BH04G	5.7 GHZ BACKHAUL, 4 MBPS	USD	\$550.00 PMP : PTP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BH20G	5.7 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BH20GINTL	5.7 GHZ 20 MBPS BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BH20USG	5.7 GHZ 20 MBPS BACKHAUL, US	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	EOL <input type="checkbox"/> PMP/PTP 100 ALL OBSOLETE
5700BHC20G	5.7 GHZ 20 MBPS CONNECTORIZED BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BHC20GINTL	5.7 GHZ 20 MBPS CONNECTORIZED BACKHAUL	USD	\$1,645.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BHC	5.7 GHZ 10 MBPS CONNECTORIZED BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BHCWA02G	5.7 GHZ CONNECTORIZED BACKHAUL ADJ POWER SET TO LOW, 2 MBPS	USD	\$450.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BHCWA04G	5.7 GHZ CONNECTORIZED BACKHAUL ADJ POWER SET TO LOW, 4 MBPS	USD	\$550.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BHG	5.7 GHZ 10 MBPS BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700BHGINTL	5.7 GHZ 10 MBPS BACKHAUL	USD	\$1,095.00 PMP : PTP100		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700BHUSG	5.7 GHZ 10 MBPS BACKHAUL, US	USD	\$1,095.00 PMP : PTP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700SMCG	5.7 GHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700SMCGINTL	5.7 GHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM							Obsolete	Stock depleted <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5700SMG	5.7 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700SMGINTL	5.7 GHZ SUBSCRIBER MODULE	USD	\$595.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5700SMHZG	5.7 GHZ SUBSCRIBER MODULE HPOL	USD	\$595.00 PMP : PMP100		CPE,SM or RM	14 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5701APCG	5.7 GHZ CONNECTORIZED ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5701APG	5.7 GHZ ACCESS POINT W/AES	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5701APUSG	5.7 GHZ ACCESS POINT W/AES, US	USD	\$1,595.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5701BH02G	5.7 GHZ BACKHAUL W/ AES, 2 MBPS	USD	\$700.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BH04G	5.7 GHZ BACKHAUL W/ AES, 4 MBPS	USD	\$800.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BH20G	5.7 GHZ 20MBPS BACKHAUL W/AES	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BH20USG	5.7 GHZ 20 MBPS BACKHAUL W/AES, US	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5701BHC20G	5.7 GHZ 20MBPS CONNECTORIZED BACKHAUL W/AES	USD	\$2,145.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BHCG	5.7 GHZ 10 MBPS CONNECTORIZED BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BHCWA02G	5.7 GHZ CONNECTORIZED BACKHAUL W/AES, 2 MBPS	USD	\$700.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BHCWA04G	5.7 GHZ CONNECTORIZED BACKHAUL W/AES, 4 MBPS	USD	\$800.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5701BHG	5.7 GHZ 10 MBPS BACKHAUL W/AES	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701BHUSG	5.7 GHZ 10 MBPS BACKHAUL W/AES, US	USD	\$1,595.00 PMP : PTP100		Backhaul	0.45	kg	8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5701SMCG	5.7 GHZ CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	Mexico	5A992.c	5A992.c	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5701SMG	5.7 GHZ SUBSCRIBER MODULE WITH AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5701SMHZG	5.7GHZ SUBSCRIBER MODULE, HPOL W/AES	USD	\$845.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Pending Obsolete	*Temp reactivate <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5750APCG	5.7 GHZ ADVANTAGE CONNECTORIZED ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5750APG	5.7 GHZ ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
5750APHZDD	5.7 GHZ ADVANTAGE ACCESS POINT HPOL	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5750APHZG	5.7 GHZ ADVANTAGE ACCESS POINT HPOL	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5750APHZUSG	5.7 GHZ ADVANTAGE ACCESS POINT - HPOL, US	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Remaining stock transferred from Venlo to US DC <input type="checkbox"/> <input type="checkbox"/>
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5750APUSG	5.7 GHZ ADVANTAGE ACCESS POINT, US	USD	\$1,895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5750SMCG	5.7 GHZ ADVANTAGE CONNECTORIZED SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5750SMG	5.7 GHZ ADVANTAGE SUBSCRIBER MODULE	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.c	5A992.c	Obsolete	
5750SMHZG	5.7 GHZ ADVANTAGE SUBSCRIBER MODULE HPOL	USD	\$895.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5751APCG	5.7 GHZ ADVANTAGE CONNECTORIZED ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5751APG	5.7 GHZ ADVANTAGE ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5751APUSG	5.7 GHZ ADVANTAGE ACCESS POINT W/AES, US	USD	\$2,395.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
5751SMCG	5.7 GHZ ADVANTAGE CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5751SMG	5.7 GHZ ADVANTAGE SUBSCRIBER MODULE W/AES	USD	\$1,145.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5753APDD	5.7 GHZ ENHANCED ADVANTAGE AP	USD	\$1,895.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5753APG	5.7 GHZ ENHANCED ADVANTAGE ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5760APCG	5.7 GHZ MICROPOP CONN ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5760APG	5.7 GHZ MICROPOP ADVANTAGE AP	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5760APHZG	5.7 GHZ MICROPOP HPOL ADVANTAGE AP	USD	\$449.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5760APHZUSG	5.7 GHZ MICROPOP HPOL ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5760APUSG	5.7 GHZ MICROPOP ADVANTAGE AP, US	USD	\$449.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					CPE,SM or RM								End Of Life, Obsolete item ☐ *DN-1206* ☐ ☐ Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐ ☐ End of Product Support: January 29, 2021 ☐ ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5760SMG	5.7 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5760SMGINTL	5.7 GHZ LITE SUBSCRIBER MODULE	USD	\$300.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5761APCG	5.7 GHZ MICROPOP CONN ADVANTAGE AP, AES	USD	\$569.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5761APG	5.7 GHZ MICROPOP ADVANTAGE AP W/ AES	USD	\$569.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
					Access Point								End Of Life, Obsolete item ☐ *DN-1206* ☐ ☐ Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐ ☐ End of Product Support: January 29, 2021 ☐ ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
5761APHZG	5.7 GHZ MICROPOP HPOL ADVANTAGE AP, AES	USD	\$569.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
5775SMG	5.7 GHZ SMART SUBSCRIBER MODULE	USD	\$498.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. -This is a "Smart only" pn. Should not be visible to any customer.
					Access Point								End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐ Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020 End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐
5780AP	5.7 GHZ OFDM INTEGRATED ACCESS POINT	USD	\$3,495.00 PMP : PMP430			6.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020 End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐
5780APC	5.7 GHZ OFDM CONNECTORIZED ACCESS POINT	USD	\$3,395.00 PMP : PMP430			3.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								Announcement of EOL: May 13, 2015 ☐ Last Order Date: July 30, 2015 ☐ End of Product Support: May 13, 2020 End of Sale Notification for PMP 430 ☐ DN-1172 ☐ ☐
5780APCUS	5.7 GHZ OFDM CONNECTORIZED ACCESS POINT, US	USD	\$3,395.00 PMP : PMP430			3.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5780APINTL	5.7 GHZ OFDM INTEGRATED ACCESS POINT	USD	\$3,495.00 PMP : PMP430		Access Point	7.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Product Support: May 13, 2020

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5780APUS	5.7 GHZ OFDM INTEGRATED ACCESS POINT , US	USD	\$3,495.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 DN-1172 Announcement of EOL: May 13, 2015 Last Order Date: July 30, 2015 End of Product Support: May 13, 2020
5780BH10 5780BH10US	5.7 GHZ 10 MBPS OFDM BACKHAUL 5.7 GHZ 10 MBPS OFDM BACKHAUL, US	USD USD	\$670.00 PMP : PTP230 \$670.00 PMP : PTP230		Backhaul Backhaul	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce NO PARTNER ORDERING Changed to Pend Obs for FOC repair replacement order
5780BH20 5780BH20US	5.7 GHZ 20 MBPS OFDM BACKHAUL 5.7 GHZ 20 MBPS OFDM BACKHAUL, US	USD USD	\$840.00 PMP : PTP230 \$840.00 PMP : PTP230		Backhaul Backhaul	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
5780BH50 5780BH50INTL	5.7 GHZ 50 MBPS OFDM BACKHAUL 5.7 GHZ 50 MBPS OFDM BACKHAUL	USD USD	\$1,010.00 PMP : PTP230 \$1,010.00 PMP : PTP230		Backhaul Backhaul	0.45 kg 0.45 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
5780BH50US	5.7 GHZ 50 MBPS OFDM BACKHAUL, US	USD	\$1,010.00 PMP : PTP230		Backhaul	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Engineering status was changed back to In Production for HK1979A as this item is in the kits BOM. We do not want to sell this individual item to customers only the kit. CHANGED DC STATUSES TO MATCH ENG. STATUS Currently have Open orders for this part so should be released. Just no longer available for new orders
5781AP	5.7 GHZ OFDM INTEGRATED ACCESS POINT W/AES	USD	\$3,995.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	End of Sale Notification for PMP 430 DN-1172 Announcement of EOL: May 13, 2015 Last Order Date: July 30, 2015 End of Product Support: May 13, 2020
5781APC 5781APCUS	5.7 GHZ OFDM CONNECTORIZED ACCESS POINT W/AES 5.7 GHZ OFDM CONNECTORIZED ACCESS POINT W/AES, US	USD USD	\$3,895.00 PMP : PMP430 \$3,895.00 PMP : PMP430		Access Point Access Point	3.62 kg 3.62 kg		8517620050 8517620050	Mexico Mexico	5A002.a.1 5A002.a.1 .a	5A002.a.1 5A002.a.1 .a	Obsolete Obsolete	End of Sale Notification for PMP 430 DN-1172 Announcement of EOL: May 13, 2015 Last Order Date: July 30, 2015 End of Product Support: May 13, 2020
5781APUS	5.7 GHZ OFDM INTEGRATED ACCESS POINT W/AES, US	USD	\$3,995.00 PMP : PMP430		Access Point	6.62 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	End of Sale Notification for PMP 430 DN-1172 Announcement of EOL: May 13, 2015 Last Order Date: July 30, 2015 End of Product Support: May 13, 2020

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
5791SM20	5.7 GHZ 20MBPS OFDM SM W/AES	USD	\$948.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
5791SM4	5.7 GHZ 4MBPS OFDM SUBSCRIBER MODULE W/AES	USD	\$748.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
5791SM40	5.7 GHZ 40MBPS OFDM SM W/AES	USD	\$1,148.00 PMP : PMP430		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
58009273001	EWP52 - Premium Elliptical Waveguide, 5.725 - 6.425 GHz (per ft)	USD	\$33.07 PTP : Licensed : PTP800		Accessory	0.27 kg		8307.90.6000	United States	3A991	3A991	Released	
58009273002	EWP90 - Premium Elliptical Waveguide, 10.7 - 11.7 GHz (per ft)	USD	\$24.17 PTP : Licensed : PTP800		Accessory	0.15 kg		8307.90.6000	United States	3A991	3A991	Released	
58009273003	EWP63 - Premium Elliptical Waveguide, 6.425 - 7.125 GHz (per ft)	USD	\$30.00 PTP : Licensed : PTP800		Accessory	0.24 kg		8307.90.6000	United States	EAR99	EAR99	Released	
58009279001	Flexible Twist,WR90,CPR90G,12.0 inch,CPR90G,8.2 - 12.4 GHz,VSWR 1.10	USD	\$450.00 PTP : Licensed : PTP800		Antenna	5.3 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009279002	Flexible Twist,WR90,CPR90G,24.0 inch,CPR90G,8.2 - 12.4 GHz,VSWR 1.10	USD	\$450.00 PTP : Licensed : PTP800		Accessory	0.758406 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009279003	Flexible Twist,WR90,CPR90G,35.0 inch,CPR90G,8.2 - 12.4 GHz,VSWR 1.10	USD	\$515.00 PTP : Licensed : PTP800		Accessory	0.99 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009280001	Flexible Twist,WR137,CPR137G,12.0 inch,CPR137G,5.85 - 8.2 GHz,VSWR 1.10	USD	\$500.00 PTP : Licensed : PTP800		Accessory	0.998357 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009280002	Flexible Twist,WR137,CPR137G,24.0 inch,CPR137G,5.85 - 8.2 GHz,VSWR 1.10	USD	\$500.00 PTP : Licensed : PTP800		Accessory	1.475082 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009280003	Flexible Twist,WR137,CPR137G,35.0 inch,CPR137G,5.85 - 8.2 GHz,VSWR 1.10	USD	\$565.00 PTP : Licensed : PTP800		Accessory	1.95 kg		8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58009281001	XCVR,ANSI,11G,HP	USD	\$13,000.00 PTP : Licensed : PTP800		Consumable/Reference	3.63 kg		8517700000	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281002	IRFU,ANSI,11G,1+0,10/30MHz,HP	USD	\$15,000.00 PTP : Licensed : PTP800		ODU or IRFU	8.62 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281003	IRFU,ANSI,11G,1+0,40MHz,HP	USD	\$15,000.00 PTP : Licensed : PTP800		ODU or IRFU	8.62 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281004	IRFU,ANSI,11G,1+1,EQ,10/30MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281005	IRFU,ANSI,11G,1+1,EQ,40MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281006	IRFU,ANSI,11G,1+1,UNEQ,10/30MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281007	IRFU,ANSI,11G,1+1,UNEQ,40MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281008	IRFU,ANSI,11G,1+1 with SD,10/30MHz,HP	USD	\$30,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281009	IRFU,ANSI,11G,1+1 with SD,40MHz,HP	USD	\$30,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281010	IRFU,ANSI,11G,Coupled Tcvrs,10/30MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281011	IRFU,ANSI,11G,Coupled Tcvrs,40MHz,HP	USD	\$28,000.00 PTP : Licensed : PTP800		ODU or IRFU	12.25 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281014	IRFU,ANSI,11G,EQ,HP, 1+0 to 1+1 MHSB Upgrade Kit	USD	\$16,000.00 PTP : Licensed : PTP800		ODU or IRFU	5.63 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281015	IRFU,ANSI,11G,UNEQ,HP,1+0 to 1+1 MHSB Upgrade Kit	USD	\$16,000.00 PTP : Licensed : PTP800		ODU or IRFU	5.63 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281016	IRFU,ANSI,11G,HP,1+0 to 1+1 MHSB with SD Upgrade Kit,10/30 MHz	USD	\$20,000.00 PTP : Licensed : PTP800		ODU or IRFU	5.63 kg		8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
58009281017	IRFU,ANSI,11G,HP,1+0 MHSB Ready to 1+1 MHSB Upgrade Kit	USD	\$14,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281018	IRFU,ANSI,11G,HP,1+0 MHSB Ready to 1+1 MHSB with SD Upgrade Kit,10/30 MHz	USD	\$18,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281019	IRFU,ANSI,11G,1+0 MHSB Ready to upgrade to 1+1,EQ,10/30MHz,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281020	IRFU,ANSI,11G,1+0 MHSB Ready to upgrade to 1+1,EQ,40MHz,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281021	IRFU,ANSI,11G,1+0 MHSB Ready to upgrade to 1+1,UNEQ,10/30MHz,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281022	IRFU,ANSI,11G,1+0 MHSB Ready to upgrade to 1+1,UNEQ,40MHz,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281025	IRFU,ANSI,11G,HP,1+0 MHSB Ready to 1+1 MHSB with SD Upgrade Kit,40 MHz	USD	\$18,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281026	IRFU,ANSI,11G,HP,1+0 to 1+1 MHSB with SD Upgrade Kit,40 MHz	USD	\$20,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281027	IRFU,ANSI,Uncoupled Tcvrs,Side A "11G,10/30 MHz,HP" and Side B "11G,10/30 MHz,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281028	IRFU,ANSI,Uncoupled Tcvrs,Side A "11G,10/30 MHz,HP" and Side B "11G,40 MHz,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281029	IRFU,ANSI,Uncoupled Tcvrs,Side A "11G,40 MHz,HP" and Side B "11G,40 MHz,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281030	IRFU,ANSI,Uncoupled Tcvrs,Side A "6G,HP" and Side B "11G,10/30 MHz,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281031	IRFU,ANSI,Uncoupled Tcvrs,Side A "6G,HP" and Side B "11G,40 MHz,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009281032	IRFU,ANSI,Uncoupled Tcvrs,Side A "6G,HP" and Side B "6G,HP"	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282001	XCVR,ANSI,6G,HP	USD	\$13,000.00	PTP : Licensed : PTP800	ODU or IRFU	3.63	kg	8517620050	Philippines	5A991.b.7	5A991.b.7	Obsolete	Part has been upgraded, but Remec can not ship against this part any more, waiting on PM to raise a new part number. PM is Allen Yu.
58009282002	IRFU,ANSI,6G,1+0,HP	USD	\$15,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282004	IRFU,ANSI,6G,1+1 with SD,HP	USD	\$30,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282005	IRFU,ANSI,6G,1+1,EQ,HP	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282006	IRFU,ANSI,6G,1+1,UNEQ,HP	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282007	IRFU,ANSI,6G,Coupled Tcvrs,HP	USD	\$28,000.00	PTP : Licensed : PTP800	ODU or IRFU	12.25	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282008	IRFU,ANSI,6G,EQ,HP, 1+0 to 1+1 MHSB Upgrade Kit	USD	\$16,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282009	IRFU,ANSI,6G,UNEQ,HP,1+0 to 1+1 MHSB Upgrade Kit	USD	\$16,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282010	IRFU,ANSI,6G,HP,1+0 to 1+1 MHSB with SD Upgrade Kit	USD	\$20,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282011	IRFU,ANSI,6G,HP,1+0 MHSB Ready to 1+1 MHSB Upgrade Kit	USD	\$14,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282012	IRFU,ANSI,6G,HP,1+0 MHSB Ready to 1+1 MHSB with SD Upgrade Kit	USD	\$18,000.00	PTP : Licensed : PTP800	ODU or IRFU	5.63	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282013	IRFU,ANSI,6G,1+0 MHSB Ready to upgrade to 1+1,EQ,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009282014	IRFU,ANSI,6G,1+0 MHSB Ready to upgrade to 1+1,UNEQ,HP	USD	\$17,000.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991.b.7	5A991.b.7	Obsolete	
58009283001	Pressure Window for WR137, 5.85-8.2 GHz, mates to CPR137G	USD	\$69.00	PTP : Licensed : PTP800	Accessory	0.044906	kg	7419.99.5050	Mexico	EAR99	EAR99	Released	
58009283002	Pressure Window for WR90, 8.2-12.4 GHz, mates to CPR90G	USD	\$69.00	PTP : Licensed : PTP800	Accessory	0.053977	kg	7419.99.5050	Mexico	EAR99	EAR99	Released	
58009284001	2-port Gas Distribution Manifold	USD	\$185.00	PTP : Licensed : PTP800	Accessory	2.73	kg	8479.90.9496	United States	EAR99	EAR99	Released	
58009284002	4-port Gas Distribution Manifold	USD	\$260.00	PTP : Licensed : PTP800	Accessory	3.63	kg	8479.90.9496	United States	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
58010076005	Flexible Twist,WR75,PBR120,35.0 inch,UBR120,10.0-15.0 GHz,VSWR 1.10	USD	\$430.00	PTP : Licensed : PTP800	Accessory	0.82	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010076008	Flexible Twist,WR62,PBR140,35.0 inch,UBR140,12.4-18.0 GHz,VSWR 1.10	USD	\$430.00	PTP : Licensed : PTP800	Accessory	1.95	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010076011	Flexible Twist,WR42,PBR220,35.0 inch,UBR220,17.7-26.5 GHz,VSWR 1.25	USD	\$430.00	PTP : Licensed : PTP800	Accessory	0.45	kg	8307.90.3000	Czech Republic	3A991	3A991	Released	
58010076014	Flexible Twist,WR28,PBR320,35.0 inch,UBR320,26.5-40.1 GHz,VSWR 1.30	USD	\$370.00	PTP : Licensed : PTP800	Accessory	1.95	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010076016	Flexible Twist,WR137,PDR70,35.0 inch,CPR137G,5.85-8.2 GHz,VSWR 1.10	USD	\$470.00	PTP : Licensed : PTP800	Accessory	1.95	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010076017	Flexible Twist,WR137,PDR70,35.0 inch,UDR70,5.85-8.2 GHz,VSWR 1.10	USD	\$470.00	PTP : Licensed : PTP800	Accessory	1.95	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010076018	Flexible Twist,WR90,PDR100,35.0 inch,CPR90G,8.2-12.4 GHz,VSWR 1.10	USD	\$440.00	PTP : Licensed : PTP800	Accessory	1.04	kg	8307.90.3000	Czech Republic	3A991	3A991	Released	
58010076019	Flexible Twist,WR112,PBR84,35.0 inch,UDR84,7.05-10.0 GHz,VSWR 1.10	USD	\$455.00	PTP : Licensed : PTP800	Accessory	1.95	kg	8307.90.3000	Czech Republic	EAR99	EAR99	Released	
58010077001	Tapered Transition, WR75 - WR90, PBR120, UDR100	USD	\$340.00	PTP : Licensed : PTP800	Accessory	0.42	kg	7419.99.5050	Czech Republic	EAR99	EAR99	Released	
5900APAA	5.9 GHz ACCESS POINT	USD	\$449.00	PMP : PMP100	Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	This is a MicroPOP sales model.
5900APBB	6.050GHz Access Point	USD	\$1,095.00	PMP : PMP100	Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1206 PMP 100 EOL <input type="checkbox"/>
5900SMBB	5.9 GHz SUBUBSCRIBER MODULE	USD	\$595.00	PMP : PMP100	CPE,SM or RM	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1206 PMP 100 EOL <input type="checkbox"/>
5950APBB	6.050GHz Advantage Access Point	USD	\$1,895.00	PMP : PMP100	Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1206 PMP 100 EOL <input type="checkbox"/>
5950SMBB	6.050GHz Advantage Subscriber Module	USD	\$895.00	PMP : PMP100	CPE,SM or RM	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1206
600SSD	SURGE SUPPRESSOR	USD	\$40.00	PMP	Accessory	0.25	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	Zero Stock
600SSH	SURGE SUPPRESSOR	USD	\$35.00	PMP	Accessory	0.2	kg	8535.40.0000	Mexico	EAR99	EAR99	Released	
64009324001	IRFU Shelf Frontal Cover	USD	\$160.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8517700000	United States	EAR99	EAR99	Obsolete	
64009324002	IRFU Shelf Frontal Extended Cover	USD	\$200.00	PTP : Licensed : PTP800	Accessory	0.327	kg	8517700000	Philippines	EAR99	EAR99	Obsolete	
64009324003	FAN Assembly of IRFU	USD	\$360.00	PTP : Licensed : PTP800	Accessory	0.304	kg	8414.59.1500	Philippines	EAR99	EAR99	Obsolete	
66010063001	Crimp tool for N-type connector	USD	\$145.00	PTP : Licensed : PTP800	Accessory	0.66	kg	8203.20.6060	United States	EAR99	EAR99	Released	
67009255001	FLANGE HARDWARE KIT, PDR70 VALULINE	USD	\$20.00	PTP : Licensed : PTP800	Accessory	0.027216	kg	7419.99.5050	Mexico	EAR99	EAR99	Released	
67009255002	FLANGE HARDWARE KIT (PDR 100)	USD	\$19.50	PTP : Licensed : PTP800	Accessory	0.045359	kg	7419.99.5050	Mexico	EAR99	EAR99	Released	
85009294001	PAR6 - 6' SP Antenna, 5.925 ~ 7.125 GHz with radome, Single Pol, CPR137G	USD	\$3,810.00	PTP : Licensed : PTP800	Antenna	142	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009294002	PAR8 - 8' SP Antenna, 5.925 ~ 7.125 GHz with radome, Single Pol, CPR137G	USD	\$5,690.00	PTP : Licensed : PTP800	Antenna	417	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009294003	PAR10 - 10' SP Antenna, 5.925 ~ 7.125 GHz w/o radome, Single Pol, CPR137G	USD	\$5,820.00	PTP : Licensed : PTP800	Antenna	398	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009294004	PAR12 - 12' SP Antenna, 5.925 ~ 7.125 GHz w/o radome, Single Pol, CPR137G	USD	\$10,340.00	PTP : Licensed : PTP800	Antenna	541	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009294005	PAR6 - 6' SP Antenna, 10.7 ~ 11.7 GHz with radome, Single Pol, CPR90G	USD	\$3,810.00	PTP : Licensed : PTP800	Antenna	142	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009294006	PAR8 - 8' SP Antenna, 10.7 ~ 11.7 GHz with radome, Single Pol, CPR90G	USD	\$5,690.00	PTP : Licensed : PTP800	Antenna	417	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009295001	10 Foot Radome For Par10 Antenna	USD	\$2,380.00	PTP : Licensed : PTP800	Antenna	305	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009295002	11 Foot Radome For Par12 Antenna	USD	\$4,310.00	PTP : Licensed : PTP800	Antenna	325	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298001	3' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, Mot Interface	USD	\$1,850.00	PTP : Licensed : PTP800	Antenna	40	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298002	3' HP Antenna, 7.10 ~ 8.5 GHz, Single Pol, Mot Interface	USD	\$1,850.00	PTP : Licensed : PTP800	Antenna	28	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298003	3' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	28	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298004	3' HP Antenna, 12.70 ~ 13.25 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	27	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298005	3' HP Antenna, 14.40 ~ 15.35 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	40	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298006	3' HP Antenna, 17.70 ~ 19.70 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	27	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298007	3' HP Antenna, 21.20 ~ 23.60 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	29.98	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009298008	3' HP Antenna, 24.25 ~ 26.50 GHz, Single Pol, Mot Interface	USD	\$1,650.00	PTP : Licensed : PTP800	Antenna	29.55	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009301001	HP4 - 4' HP antenna, 10.7 ~ 11.7 GHz with radome, Single Pol, CPR90G	USD	\$4,670.00	PTP : Licensed : PTP800	Antenna	116	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009302002	4' HP Antenna, 5.925 ~ 7.125 GHz, Dual Pol with OMK	USD	\$4,230.00	PTP : Licensed : PTP800	Antenna	75	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009302003	6' HP Antenna, 5.925 ~ 7.125 GHz, Dual Pol with OMK	USD	\$6,610.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009303001	2' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol with OMK	USD	\$2,290.00	PTP : Licensed : PTP800	Antenna	26.27	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
85009303002	3' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol with OMK	USD	\$3,020.00	PTP : Licensed : PTP800	Antenna	36.87	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009303003	4' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol with OMK	USD	\$3,900.00	PTP : Licensed : PTP800	Antenna	73.7	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009303004	6' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol with OMK	USD	\$6,510.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009304001	2' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol with OMK	USD	\$2,000.00	PTP : Licensed : PTP800	Antenna	23.51	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009304002	3' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol with OMK	USD	\$2,650.00	PTP : Licensed : PTP800	Antenna	39.71	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009304003	4' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol with OMK	USD	\$3,670.00	PTP : Licensed : PTP800	Antenna	79.57	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009304004	6' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol with OMK	USD	\$5,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009305002	2' HP Antenna, 12.75 ~ 13.25 GHz, Dual Pol with OMK	USD	\$2,000.00	PTP : Licensed : PTP800	Antenna	22.91	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009307001	1' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol with OMK	USD	\$1,640.00	PTP : Licensed : PTP800	Antenna	14.89	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009307002	2' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol with OMK	USD	\$2,000.00	PTP : Licensed : PTP800	Antenna	22.13	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009307003	3' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol with OMK	USD	\$2,650.00	PTP : Licensed : PTP800	Antenna	36.37	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009307004	4' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol with OMK	USD	\$3,670.00	PTP : Licensed : PTP800	Antenna	86.6	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009307005	6' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol with OMK	USD	\$5,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009308001	1' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol with OMK	USD	\$1,640.00	PTP : Licensed : PTP800	Antenna	14.98	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009308002	2' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol with OMK	USD	\$2,000.00	PTP : Licensed : PTP800	Antenna	21.65	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009308003	3' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol with OMK	USD	\$2,650.00	PTP : Licensed : PTP800	Antenna	35.64	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009308004	4' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol with OMK	USD	\$3,670.00	PTP : Licensed : PTP800	Antenna	73.44	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009308005	6' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol with OMK	USD	\$5,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316001	ODU Orthogonal Mounting Kit 6 GHz	USD	\$1,250.00	PTP : Licensed : PTP800	Accessory	6.685	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316002	ODU Orthogonal Mounting Kit 7/8 GHz	USD	\$1,150.00	PTP : Licensed : PTP800	Accessory	6.047	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316004	ODU Orthogonal Mounting Kit 11 GHz	USD	\$1,000.00	PTP : Licensed : PTP800	Accessory	4.583	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316005	ODU Orthogonal Mounting Kit 13 GHz	USD	\$1,000.00	PTP : Licensed : PTP800	Accessory	4.529	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316006	ODU Orthogonal Mounting Kit 15 GHz	USD	\$1,000.00	PTP : Licensed : PTP800	Accessory	4.559	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316007	ODU Orthogonal Mounting Kit 18 GHz	USD	\$1,000.00	PTP : Licensed : PTP800	Accessory	4.326	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009316008	ODU Orthogonal Mounting Kit 23 GHz	USD	\$1,000.00	PTP : Licensed : PTP800	Accessory	4.346	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85009317001	ODU-B 11GHz, TR 490 & 500, Lo, B5 (10700.0 - 10890.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009317002	ODU-B 11GHz, TR 490 & 500, Hi, B5 (11200.0 - 11390.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009317003	ODU-B 11GHz, TR 490 & 500, Lo, B6 (10855.0 - 11045.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009317004	ODU-B 11GHz, TR 490 & 500, Hi, B6 (11355.0 - 11545.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009317005	ODU-B 11GHz, TR 490 & 500, Lo, B7(11010.0 - 11200.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009317006	ODU-B 11GHz, TR 490 & 500, Hi, B7 (11510.0 - 11700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009318001	ODU-B 18GHz, TR1560, Lo, B3 (17700.0 - 18140.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009318002	ODU-B 18GHz, TR1560, Hi, B3 (19260.0 - 19700.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319001	ODU-B 23GHz, TR1200, Lo, B5 (21200.0 - 21600.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319002	ODU-B 23GHz, TR1200, Hi, B5 (22400.0 - 22800.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319003	ODU-B 23GHz, TR1200, Lo, B6 (21600.0 - 22000.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319004	ODU-B 23GHz, TR1200, Hi, B6 (22800.0 - 23200.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319005	ODU-B 23GHz, TR1200, Lo, B7 (22000.0 - 22400.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009319006	ODU-B 23GHz, TR1200, Hi, B7 (23200.0 - 23600.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU	5.67	kg	8517.62.0050	Philippines	EAR99	EAR99	Released	
85009324001	5.4-6.0 GHZ, ANTENNA FOR 90 DEGREE SECTOR	USD	\$595.00	PMP	Antenna	3.91	kg	8517.70.0000	China	EAR99	EAR99	Released	Changed back to Release status per Matt M. ECO submitted, Change #ECO-005414 Changed back to Release status per Matt M.
85009325001	5.4-6.0 GHZ, ANTENNA FOR 60 DEGREE SECTOR	USD	\$495.00	PMP	Antenna	7.5	kg	8517.70.0000	China	EAR99	EAR99	Released	ECO submitted, Change #ECO-005414

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
85009328001	HP4 - 4' HP Antenna, 5.725 ~ 6.425 GHz with radome, Single Pol, CPR137G	USD	\$4,810.00	PTP : Licensed : PTP800	Antenna	168	kg	8517.70.0000	Brazil	EAR99	EAR99	Released	
85009328002	HP4 - 4' HP Antenna, 6.425 ~ 7.125 GHz with radome, Single Pol, CPR137G	USD	\$4,810.00	PTP : Licensed : PTP800	Antenna	168	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010066001	ANTENNA AP SECTOR	USD	\$495.00	PMP	Antenna	0.12345	kg	8517700000	China	EAR99	EAR99	Obsolete	Item Obsolete <input type="checkbox"/> Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable 4- Mar-14 Awaiting Samples per Matt M. Scheduled for PM hold release for around 31st April. <input type="checkbox"/>
85010066002	ANTENNA AP SECTOR	USD	\$495.00	PMP	Antenna	5.25	kg	8517700000	United States	EAR99	EAR99	Obsolete	Approved to ship to all countries apart from Brazil. CommScope announces that the microwave antennas listed will be discontinued during Q4 2015. <input type="checkbox"/> Discontinued parts will be updated with discontinuation notice in the internal and external Product Catalogue. <input type="checkbox"/> End-of-Life Date: <input type="checkbox"/> No further orders will be accepted after the earlier of component inventory depletion or <input type="checkbox"/> 1 December 2015. Shipments should be completed by year end.
85010089003	2.6' HP Antenna, 10.70 ~ 11.70 GHz, Single Pol, Mot Interface	USD	\$1,710.00	PTP : Licensed : PTP800	Antenna	32	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089004	4' HP ANTENNA, 10.70-11.70 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna			8517700000	Mexico	EAR99	EAR99	Released	
85010089005	6' HP Antenna, 10.70 ~ 11.70 GHz, Single Pol, Mot Interface	USD	\$4,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517700000	Mexico	EAR99	EAR99	Released	
85010089006	1' HP ANTENNA, 17.70-19.70 GHZ, SINGLE POL, MOT INTERFACE	USD	\$640.00	PTP : Licensed : PTP800	Antenna	20	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089009	4' HP Antenna, 17.70-19.70 GHz, Single Pol, Mot Interface	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna	72	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089010	6' HP Antenna, 17.70 ~ 19.70 GHz, Single Pol, Mot Interface	USD	\$4,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089011	1' HP Antenna, 21.20-23.60 GHz, Single Pol, Mot Interface	USD	\$640.00	PTP : Licensed : PTP800	Antenna	7	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089014	4' HP ANTENNA, 21.20-23.60 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089015	6' HP Antenna, 21.20 ~ 23.60 GHz, Single Pol, Mot Interface	USD	\$4,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089016	1' HP ANTENNA, 24.25-26.50 GHZ, SINGLE POL, MOT INTERFACE	USD	\$640.00	PTP : Licensed : PTP800	Antenna	4.1	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089019	4' HP ANTENNA, 24.25-26.50 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna	40	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089020	4' HP ANTENNA, 5.925-7.125 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,980.00	PTP : Licensed : PTP800	Antenna	168	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089021	6' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, Mot Interface	USD	\$5,700.00	PTP : Licensed : PTP800	Antenna	170	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089024	4' HP ANTENNA, 7.125-8.5 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,750.00	PTP : Licensed : PTP800	Antenna	85	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089025	6' HP Antenna, 7.125 ~ 8.5 GHz, Single Pol, Mot Interface	USD	\$5,360.00	PTP : Licensed : PTP800	Antenna	170	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089026	1' HP ANTENNA, 12.75-13.25 GHZ, SINGLE POL, MOT INTERFACE	USD	\$640.00	PTP : Licensed : PTP800	Antenna	20	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089029	4' HP ANTENNA, 12.75-13.25 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089030	6' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, Mot Interface	USD	\$4,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089034	4' HP ANTENNA, 14.25-15.35 GHZ, SINGLE POL, MOT INTERFACE	USD	\$2,670.00	PTP : Licensed : PTP800	Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089035	6' HP Antenna, 14.25 ~ 15.35 GHz, Single Pol, Mot Interface	USD	\$4,620.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089036	1' HP Antenna, 31.80 ~ 33.40 GHz, Single Pol, Mot Interface	USD	\$640.00	PTP : Licensed : PTP800	Antenna	10	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. <input type="checkbox"/> The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. <input type="checkbox"/> <input type="checkbox"/> All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. <input type="checkbox"/> The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. <input type="checkbox"/> <input type="checkbox"/> All other PTP 800 and PTP 810 elements remain available
85010089037	2' HP Antenna, 31.80 ~ 33.40 GHz, Single Pol, Mot Interface	USD	\$1,000.00	PTP : Licensed : PTP800	Antenna	20	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089038	1' HP ANTENNA, 37.00 - 40.00 GHZ, SINGLE POL, MOT INTERFACE	USD	\$640.00	PTP : Licensed : PTP800	Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available
85010089041	2' HP Antenna, 27.50 ~ 29.50 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800			11 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089042	2' HP Antenna, 17.70 ~ 19.70 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	12 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089043	2' HP Antenna, 21.20 ~ 23.60 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089044	2' HP Antenna, 24.25 ~ 26.50 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089045	2' HP Antenna, 7.10 ~ 8.5 GHz, Single Pol, Mot Interface	USD	\$1,140.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089046	2' HP Antenna, 12.70 ~ 13.25 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	14 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089047	2' HP Antenna, 14.40 ~ 15.35 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available
85010089048	2' HP Antenna, 37.00 ~ 40.00 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800			20 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010089049	2' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, Mot Interface	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	14 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089050	4' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, Mot Interface	USD	\$2,980.00 PTP : Licensed : PTP800		Antenna	84.35 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089051	4' HP Antenna, 7.125 ~ 8.5 GHz, Single Pol, Mot Interface	USD	\$2,750.00 PTP : Licensed : PTP800		Antenna	67 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089052	4' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	70 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089053	1' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800		Antenna	8.52 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089054	4' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	64 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089055	1' HP Antenna, 14.25 ~ 15.35 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800		Antenna	9.46 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089056	4' HP Antenna, 14.25 ~ 15.35 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	84.4 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089057	1' HP Antenna, 17.70 ~ 19.70 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800		Antenna	7 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089058	4' HP Antenna, 17.70 ~ 19.70 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	70.44 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089059	1' HP Antenna, 21.20 ~ 23.60 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800		Antenna	8.12 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089060	4' HP Antenna, 21.20 ~ 23.60 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	68.3 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089061	1' HP Antenna, 24.25 ~ 26.50 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800		Antenna	8.04 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010089062	4' HP Antenna, 24.25 ~ 26.50 GHz, Single Pol, Mot Interface	USD	\$2,670.00 PTP : Licensed : PTP800		Antenna	68.38 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available
85010089063	1' HP Antenna, 37.00 ~ 40.00 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800			7.89 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐ ☐ All other PTP 800 and PTP 810 elements remain available
85010089064	1' HP Antenna, 27.50 ~ 29.50 GHz, Single Pol, Mot Interface	USD	\$640.00 PTP : Licensed : PTP800			7 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
					Antenna								CommScope announces that the microwave antennas listed will be discontinued during Q4 2015. <input type="checkbox"/> Discontinued parts will be updated with discontinuation notice in the internal and external Product Catalogue. <input type="checkbox"/> End-of-Life Date: <input type="checkbox"/> No further orders will be accepted after the earlier of component inventory depletion or <input type="checkbox"/> 1 December 2015. Shipments should be completed by year end.
85010091003	2.6' HP Antenna, 10.70 ~ 11.70 GHz, Single Pol, PDR100	USD	\$1,710.00 PTP : Licensed : PTP800			32 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010091004	4' HP ANTENNA, 10.70-11.70 GHZ, SINGLE POL, PDR100	USD	\$2,550.00					8517700000		EAR99	EAR99	Obsolete	
85010091005	6' HP Antenna, 10.70 ~ 11.70 GHz, Single Pol, PDR100	USD	\$4,500.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091006	4' HP ANTENNA, 5.925-7.125 GHZ, SINGLE POL, PDR70	USD	\$2,980.00 PTP : Licensed : PTP800		Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010091007	6' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, PDR70	USD	\$5,700.00 PTP : Licensed : PTP800		Antenna	170 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091010	4' HP ANTENNA, 7.125-8.5 GHZ, SINGLE POL, PDR84	USD	\$2,750.00 PTP : Licensed : PTP800		Antenna	85 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010091011	6' HP Antenna, 7.125 ~ 8.5 GHz, Single Pol, PDR84	USD	\$5,360.00 PTP : Licensed : PTP800		Antenna	170 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091012	1' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, PBR120	USD	\$640.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091015	4' HP ANTENNA, 12.75-13.25 GHZ, SINGLE POL, PBR120	USD	\$2,550.00 PTP : Licensed : PTP800		Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010091016	6' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, PBR120	USD	\$4,500.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091017	3' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, PDR100	USD	\$1,650.00 PTP : Licensed : PTP800		Antenna	39 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091018	3' HP Antenna, 12.70 ~ 13.25 GHz, Single Pol, PBR120	USD	\$1,650.00 PTP : Licensed : PTP800		Antenna	31.91 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091019	2' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, PDR100	USD	\$1,000.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091020	2' HP Antenna, 7.10 ~ 8.5 GHz, Single Pol, PDR84	USD	\$1,140.00 PTP : Licensed : PTP800		Antenna	20 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091022	3' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, PDR70	USD	\$1,850.00 PTP : Licensed : PTP800		Antenna	30.77 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091023	3' HP Antenna, 7.10 ~ 8.5 GHz, Single Pol, PDR84	USD	\$1,850.00 PTP : Licensed : PTP800		Antenna	29.46 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091024	4' HP Antenna, 5.925 ~ 7.125 GHz, Single Pol, PDR70	USD	\$2,980.00 PTP : Licensed : PTP800		Antenna	89 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091025	4' HP Antenna, 7.125 ~ 8.5 GHz, Single Pol, PDR84	USD	\$2,750.00 PTP : Licensed : PTP800		Antenna	72 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091026	4' HP Antenna, 10.125 ~ 11.70 GHz, Single Pol, PDR100	USD	\$2,550.00 PTP : Licensed : PTP800		Antenna	73.6 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010091027	4' HP Antenna, 12.75 ~ 13.25 GHz, Single Pol, PBR120	USD	\$2,550.00 PTP : Licensed : PTP800		Antenna	71.98 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
					Antenna								CommScope announces that the microwave antennas listed will be discontinued during Q4 2015. <input type="checkbox"/> Discontinued parts will be updated with discontinuation notice in the internal and external Product Catalogue. <input type="checkbox"/> End-of-Life Date: <input type="checkbox"/> No further orders will be accepted after the earlier of component inventory depletion or <input type="checkbox"/> 1 December 2015. Shipments should be completed by year end.
85010092003	2.6' HP Antenna, 10.70 ~ 11.70 GHz, Dual Pol, PDR100	USD	\$2,160.00 PTP : Licensed : PTP800			32 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092004	4' HP ANTENNA, 10.70-11.70 GHZ, DUAL POL, PDR100	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092005	6' HP Antenna, 10.70 ~ 11.70 GHz, Dual Pol, PDR100	USD	\$5,540.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092006	1' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol, PBR220	USD	\$890.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092009	4' HP ANTENNA, 17.70-19.70 GHZ, DUAL POL, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna			8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092010	6' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol, PBR220	USD	\$5,540.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092011	1' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol, PBR220	USD	\$890.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092014	4' HP ANTENNA, 21.20-23.60 GHZ, DUAL POL, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	0.12345 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092015	6' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol, PBR220	USD	\$5,540.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092016	1' HP Antenna, 24.25 ~ 26.50 GHz, Dual Pol, PBR220	USD	\$890.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092019	4' HP Antenna, 24.25-26.50 GHz, Dual Pol, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	0.12345 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092020	4' HP ANTENNA, 5.925-7.125 GHZ, DUAL POL, PDR70	USD	\$3,340.00 PTP : Licensed : PTP800		Antenna	0.12345 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092021	6' HP Antenna, 5.925 ~ 7.125 GHz, Dual Pol, PDR70	USD	\$6,100.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092024	4' HP ANTENNA,7.125 -8.5 GHZ,DUAL POL, PDR84	USD	\$3,340.00 PTP : Licensed : PTP800		Antenna	85 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092025	6' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol, PDR84	USD	\$6,100.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092026	1' HP Antenna, 12.75 ~ 13.25 GHz, Dual Pol, PBR120	USD	\$890.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092029	4' HP ANTENNA, 12.75-13.25 GHZ, DUAL POL, PBR120	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	0.12345 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092030	6' HP Antenna, 12.75 ~ 13.25 GHz, Dual Pol, PBR120	USD	\$5,540.00 PTP : Licensed : PTP800		Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092031	1' HP Antenna, 14.25 ~ 15.35 GHz, Dual Pol, PBR140	USD	\$890.00 PTP : Licensed : PTP800		Antenna	10 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
85010092034	4' HP ANTENNA, 14.25-15.35 GHZ, DUAL POL, PBR140	USD	\$3,180.00	PTP : Licensed : PTP800	Antenna	72	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092035	6' HP Antenna, 14.25 ~ 15.35 GHz, Dual Pol, PBR140	USD	\$5,540.00	PTP : Licensed : PTP800	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
85010092036	1' HP Antenna, 31.80 ~ 33.40 GHz, Dual Pol, PBR320	USD	\$890.00	PTP : Licensed : PTP800	Antenna	10	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
85010092037	2' HP Antenna, 31.80 ~ 33.40 GHz, Dual Pol, PBR320	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
85010092038	1' HP Antenna, 37.00 ~ 40.00 GHz, Dual Pol, PBR320	USD	\$890.00	PTP : Licensed : PTP800	Antenna	10	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
85010092040	1' HP Antenna, 27.50 ~ 29.50 GHz, Dual Pol, PBR320	USD	\$890.00	PTP : Licensed : PTP800	Antenna	10	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	All other PTP 800 and PTP 810 elements remain available End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. ☐ The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. ☐
85010092041	2' HP Antenna, 27.50 ~ 29.50 GHz, Dual Pol, PBR320	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	All other PTP 800 and PTP 810 elements remain available
85010092042	3' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol, PDR100	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	33.85	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092043	3' HP Antenna, 12.70 ~ 13.25 GHz, Dual Pol, PBR120	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	44	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092044	3' HP Antenna, 14.40 ~ 15.35 GHz, Dual Pol, PBR140	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	44	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092045	3' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol, PBR220	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	36	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092046	3' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol, PBR220	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	29.61	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092047	3' HP Antenna, 24.25 ~ 26.50 GHz, Dual Pol, PBR220	USD	\$2,070.00	PTP : Licensed : PTP800	Antenna	29.19	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092048	3' HP Antenna, 5.925 ~ 7.125 GHz, Dual Pol, PDR70	USD	\$2,230.00	PTP : Licensed : PTP800	Antenna	31.48	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092051	2' HP Antenna, 7.10 ~ 8.5 GHz, Dual Pol, PDR84	USD	\$1,440.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092052	2' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol, PDR100	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092053	2' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol, PBR220	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092054	2' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol, PBR220	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092055	2' HP Antenna, 24.25 ~ 26.50 GHz, Dual Pol, PBR220	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092056	2' HP Antenna, 12.70 ~ 13.25 GHz, Dual Pol, PBR120	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092057	2' HP Antenna, 14.40 ~ 15.35 GHz, Dual Pol, PBR140	USD	\$1,280.00	PTP : Licensed : PTP800	Antenna	20	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Antenna								End of Life (EoL) of PTP 800 and PTP 810 ODU-A on 26, 28, 32 and 38 GHz. <input type="checkbox"/> The last order date is March 31st 2016; the last Customer Requested Ship Date (CRSD) is May 31st 2016. <input type="checkbox"/> <input type="checkbox"/> All other PTP 800 and PTP 810 elements remain available
85010092058	2' HP Antenna, 37.00 ~ 40.00 GHz, Dual Pol, PBR320	USD	\$1,280.00 PTP : Licensed : PTP800			20 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
85010092059	3' HP Antenna, 7.10 ~ 8.5 GHz, Dual Pol, PDR84	USD	\$2,230.00 PTP : Licensed : PTP800		Antenna	49 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092060	4' HP Antenna, 5.925 ~ 7.125 GHz, Dual Pol, PDR70	USD	\$3,340.00 PTP : Licensed : PTP800		Antenna	68.3 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092061	4' HP Antenna, 7.125 ~ 8.5 GHz, Dual Pol, PDR84	USD	\$3,340.00 PTP : Licensed : PTP800		Antenna	72 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092062	4' HP Antenna, 10.125 ~ 11.70 GHz, Dual Pol, PDR100	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	68.38 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092063	4' HP Antenna, 12.75 ~ 13.25 GHz, Dual Pol, PBR120	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	72.33 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092064	4' HP Antenna, 14.25 ~ 15.35 GHz, Dual Pol, PBR140	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	70.86 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092065	4' HP Antenna, 17.70 ~ 19.70 GHz, Dual Pol, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	68.97 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092066	4' HP Antenna, 21.20 ~ 23.60 GHz, Dual Pol, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	67.78 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010092067	4' HP Antenna, 24.25 ~ 26.50 GHz, Dual Pol, PBR220	USD	\$3,180.00 PTP : Licensed : PTP800		Antenna	66.91 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
85010104001	5.47GHZ MIN, 5.9GHZ MAX, 18DBI, ANTENNA, AP SECTOR, V-P	USD	\$495.00 PMP		Antenna	5 kg		8517700000	United States	EAR99	EAR99	Obsolete	
					Antenna								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE <input type="checkbox"/> <input type="checkbox"/> 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. <input type="checkbox"/> <input type="checkbox"/> 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
85010107001	Sector Antenna 16.5 dBi Dual-Polarity for 90 deg coverage 3.3-3.8 GHz (actual 3dB beamwidth 65 deg)	USD	\$395.00 PMP			5.3 kg		8517700000	United States	EAR99	EAR99	Obsolete	Stock Depleted, changed back to Obsolete and Unavailable for order <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
9000APCDD	900 MHZ CONNECTORIZED ACCESS POINT	USD	\$1,855.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
9000APDD	900 MHZ ACCESS POINT	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	PMP 100 EOL
9000APF2DD	900 MHZ ADVANTAGE ACCESS POINT W/2-CH FILTER	USD	\$2,275.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
9000APFDD	900 MHZ ACCESS POINT W/FILTER	USD	\$2,275.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
9000SMCDD	900 MHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$685.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													End Of Life, Obsolete item <input type="checkbox"/> <input type="checkbox"/> DN-1206 <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016). Out of inventory <input type="checkbox"/> <input type="checkbox"/> There will be no programming capability at UPS for these kits that use these 3 tanapa numbers; 9000SMHH, 9000SMFHH & 9000SMF2HH
9000SMCHH	900 MHZ CONNECTORIZED SUBSCRIBER MODULE	USD	\$685.00 PMP : PMP100		CPE,SM or RM	0.64 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								
9000SMDD	900 MHZ SUBSCRIBER MODULE	USD	\$725.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
9000SMF2DD	900 MHZ ADVANTAGE SUBSCRIBER MODULE W/2-CH FLTR	USD	\$1,105.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								
9000SMF2HH	900 MHZ ADVANTAGE SUBSCRIBER MODULE W/2-CH FLTR	USD	\$1,105.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	Supplier can no longer build. No replacement.
9000SMFDD	900 MHZ SUBSCRIBER MODULE W/FILTER	USD	\$1,105.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								ECO-004391 <input type="checkbox"/> <input type="checkbox"/> Also kits with part numbers 9000SMFHH & 9000SMF2HH need to be obsolete. <input type="checkbox"/> <input type="checkbox"/> There will be no programming capability at UPS for these kits that use these 3 tanapa numbers; 9000SMHH, 9000SMFHH & 9000SMF2HH Have made unavailable as this item is EOL and currently out of stock. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> There will be no programming capability at UPS for these kits that use these 3 tanapa numbers; 9000SMHH, 9000SMFHH & 9000SMF2HH
9000SMFHH	900 MHZ SUBSCRIBER MODULE, FILTER	USD	\$1,105.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
					CPE,SM or RM								
9000SMHH	900 MHZ SUBSCRIBER MODULE	USD	\$725.00 PMP : PMP100			0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
													End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
					Access Point								
9001APCDD	900 MHZ CONNECTORIZED ACCESS POINT W/AES	USD	\$2,355.00 PMP : PMP100			0.45 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
9001APDD	900 MHZ ACCESS POINT W/AES	USD	\$2,395.00 PMP : PMP100		Access Point	0.45	kg	8517620050	United States	5A002.a.1	5A002.a.1	Obsolete	
9001APFDD	900 MHZ ACCESS POINT W/AES & FILTER	USD	\$2,775.00 PMP : PMP100		Access Point	0.45	kg	8517620050	United States	5A002.a.1	5A002.a.1	Obsolete	
					CPE,SM or RM								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
9001SMCDD	900 MHZ CONNECTORIZED SUBSCRIBER MODULE W/AES	USD	\$935.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
9001SMDD	900 MHZ SUBSCRIBER MODULE W/AES	USD	\$975.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	
9001SMFDD	900 MHZ SUBSCRIBER MODULE W/AES & FILTER	USD	\$1,355.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	
					Access Point								End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
9060APCDD	900 MHZ MICROPOP CONNECTORIZED AP	USD	\$449.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
9061APCDD	900 MHZ CONNECTORIZED LIMITED ACCESS POINT W/AES	USD	\$1,855.00 PMP : PMP100		Access Point	0.45	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
91009315001	Tx Filter Assembly,6G, 10/30MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.12345	kg	8517.70.0000	United States	EAR99	EAR99	Obsolete	
91009315002	Tx Filter Assembly,11G, 40 MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.5	kg	8517.70.0000	Philippines	EAR99	EAR99	Obsolete	
91009315003	Tx Filter Assembly,11G, 10/30MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.412	kg	8517.70.0000	Philippines	EAR99	EAR99	Obsolete	
91009315004	Rx Filter Assembly,6G, 10/30MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.38	kg	8517.70.0000	Philippines	EAR99	EAR99	Obsolete	
91009315005	Rx Filter Assembly,11G, 40 MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.412	kg	8517.70.0000	Philippines	EAR99	EAR99	Obsolete	
91009315006	Rx Filter Assembly,11G, 10/30MHz	USD	\$1,000.00 PTP : Licensed : PTP800		Accessory	0.53	kg	8517.70.0000	Philippines	EAR99	EAR99	Obsolete	
ACATHS-01A	ALIGN TOOL HSET	USD	\$40.00 PMP		Accessory	0.2	kg	8517700000	United States	EAR99	EAR99	Released	Replacement part N00000L055A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Replaces ACPS112W-02A <input type="checkbox"/> <input type="checkbox"/> *Made Unavailable for orders as we will no longer be ordering this part. <input type="checkbox"/> Per Matt M. <input type="checkbox"/> Will discuss with Ann to determine alternative part to order. <input type="checkbox"/> <input type="checkbox"/>
ACPS120W-02A	120W 30VDC AT 60C 100-240VAC EL5, NO AC CORD	USD	\$180.00 PMP		Accessory	1.32	kg	8504408500	China	EAR99	EAR99	Obsolete	ECO-004989 submitted to Obsolete

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
ACPS120WA	120W 30VDC AT 60C 100-240VAC EL5	USD	\$200.00 PMP		Accessory	1.32 kg		8504408500	China	EAR99	EAR99	Obsolete	Replacement part number: N00000L055A 3-Dec-2015 Per Matt M. No longer accepting orders for this item. In Process of replacement part. Arena status will be changed once 1070CKHH BOM is updated with the replacement part number Out of stock All Regions Obsolete DN-1158 Item being replaced with N000900L001A power supply plus Line cord either N000900L007A or N000900L008A or N000900L009A or N000900L010A
ACPSSW-09B ACPSSW-09BINTL	13.6W, 29.5V, 100-240VAC/50-60HZ 13.6W, 29.5V, 100-240VAC/50-60HZ	USD USD	\$15.00 PMP \$15.00 PMP		Accessory	0.15 kg 0.25 kg		8517700000 8517700000	China China	EAR99 EAR99	EAR99 EAR99	Obsolete Obsolete	Obsolete stock depleted DN-1158 Item being replaced with N000900L001A power supply plus Line cord either N000900L007A or N000900L008A or N000900L009A or N000900L010A
ACPSSW-10B	13.6W,29.5V,100-240VAC/50-60HZ + ARGENTINA ADAPTOR	USD	\$15.00 PMP		Accessory	0.15 kg		8517700000	China	EAR99	EAR99	Obsolete	Obsolete once stock depleted DN-1158 Currently have over 2400 units in Nashville Item being replaced with N000900L001A power supply plus Line cord either N000900L007A or N000900L008A or N000900L009A or N000900L010A
ACPSSW-11B ACPSSW-12A	13.6W, 29.5V, 100-240VAC/50-60HZ + AUSTRALIA CLIP 90-240 VAC/50-60HZ PS + CHINA ADAPTOR	USD USD	\$15.00 PMP \$15.00 PMP		Accessory	0.2 kg		8504408500 8504408500	China China	EAR99 EAR99	EAR99 EAR99	Pending Obsolete Obsolete	Changed back to Orderable per Matt M. - 9-Sept-2015 Obsolete stock depleted DN-1158 Item being replaced with N000900L001A power supply plus Line cord either N000900L007A or N000900L008A or N000900L009A or N000900L010A
ACPSSW-12C	29.5V90-240VAC/50-60HZ PS	USD	\$15.00 PMP		Accessory	0.2 kg		8504408500	China	EAR99	EAR99	Pending Obsolete	N000900L010A

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													25-Sept-2015 qty 813 came back in stock rotation. opened back up for orders until stock depleted ☐
					Accessory								DN-1158 ☐
ACPSSW-13B	13.6W, 29.5V, 100-240/50-60 + FIXED US	USD	\$12.00 PMP			0.18 kg		8504408500	China	EAR99	EAR99	Pending Obsolete	Item being replaced with N000900L001A power supply plus Line cord either ☐ N000900L007A or ☐ N000900L008A or ☐ N000900L009A or ☐ N000900L010A Obsolete - stock depleted ☐
					Accessory								DN-1158 ☐
ACPSSW-14A	13.6W,29.5V,100-240VAC/50-60HZ+BRAZ	USD	\$15.00 PMP			0.25 kg		8517700000	China	EAR99	EAR99	Obsolete	Item being replaced with N000900L001A power supply plus Line cord either ☐ N000900L007A or ☐ N000900L008A or ☐ N000900L009A or ☐ N000900L010A 17-May-2016 ☐ Stock Depleted, Obsoleted item ☐
					Accessory								Obsolete - out of inventory ☐ #ECO-004770 ☐
ACPSSW-15A	25W, 56V, 100-240VAC/50-60HZ	USD	\$35.00 PMP			0.238 kg		8517700000	China	EAR99	EAR99	Obsolete	Per Matt. M. ☐ Replacement part as follows: ☐ ACPSSW-16A, in addition, one of the following part is required per device: N00065L003A (For US), N00065L004A (For UK), N00065L005A (For EU)
ACPSSW-16A	25W, 56V, 100-240VAC/50-60HZ + C8 AC	USD	\$35.00 PMP		Accessory	0.28 kg		8504.40.8500	China	EAR99	EAR99	Obsolete	Deprecated (pending obsolete) use stock until depletion:
ACPSSW-17A	25W, 56V, 100-240VAC/50-60HZ + POE C8	USD	\$35.00 PMP		Accessory	0.25 kg		8504408500	China	EAR99	EAR99	Obsolete	Deprecated (pending obsolete) use stock until depletion:
ACPSSW-20A	20W, 29.5V, 100-240VAC/50-60HZ	USD	\$35.00 PMP		Accessory	0.32 kg		8504.40.8500	China	EAR99	EAR99	Obsolete	Deprecated (pending obsolete) use stock until depletion:
ACPSSW-21B	20W, 29.5V, 100-240VAC/50-60HZ + C8 AC	USD	\$35.00 PMP		Accessory	0.238 kg		8504.40.8500	China	EAR99	EAR99	Obsolete	Deprecated (pending obsolete) use stock until depletion:
AN500A	5 GHZ LENS	USD	\$60.00 PMP		Accessory	1.16 kg		8517700000	United States	EAR99	EAR99	Obsolete	No longer sale-able ☐ Item Deprecated in Arena Item Obsolete ☐
					Antenna								Obsolete or Deprecated in Arena. ☐
AN900A	900 MHZ 60 DEGREE 9 DBI ANT	USD	\$100.00 PMP			0.12345 kg		8517700000	United States	EAR99	EAR99	Obsolete	No longer saleable Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
APSW10100A	CANOPY ADVANTAGE AP SOFTWARE UPGRADE	USD	\$800.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending Obsolete	
AU9000APDD	900 MHZ ACCESS POINT (ANZ)	USD	\$1,895.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A992.c	5A992.c	Obsolete	
AU9000APFDD	900 MHZ ACCESS POINT W/FILTER (ANZ)	USD	\$2,275.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
AU9000SMCDD	900 MHZ CONNECTORIZED SUBSCRIBER MODULE W/AU PROG	USD	\$685.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AU9000SMDD	900 MHZ SUBSCRIBER MODULE W/AU PROG	USD	\$725.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
AU9000SMFDD	900 MHZ SUBSCRIBER MODULE W/FILTER (ANZ)	USD	\$1,105.00 PMP : PMP100		CPE,SM or RM	0.45 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
AU9001APCDD	900 MHZ CONNECTORIZED ACCESS POINT W/AES (ANZ)	USD	\$2,355.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A002.a.1 .a	5A002.a.1 .a	Obsolete	Changed back to orderable. As of Dec 9th 2014 we still have 183 units of 9000SMCHH in stock
AU9001APDD	900 MHZ ACCESS POINT W/AES (ANZ)	USD	\$2,395.00 PMP : PMP100		Access Point	0.45 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Obsolete	
AU9001APFDD	900 MHZ ACCESS POINT W/AES & FILTER (ANZ)	USD	\$2,775.00 PMP : PMP100		Access Point	0.45 kg		8517620050	United States	5A002.a.1 .a	5A002.a.1 .a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
AU9001SMCDD	900 MHZ CONNECTORIZED SUBSCRIBER MODULE W/AES (ANZ)	USD	\$935.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	Changed back to orderable. As of Dec 9th 2014 we still have 183 units of 9000SMCHH in stock
AU9001SMDD	900 MHZ SUBSCRIBER MODULE W/AES (ANZ)	USD	\$975.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AU9001SMFDD	900 MHZ SUBSCRIBER MODULE W/AES & FILTER (ANZ)	USD	\$1,355.00 PMP : PMP100		CPE,SM or RM	0.45	kg	8517620050	United States	5A002.a.1	5A002.a.1	Obsolete	Changed back to orderable. As of Dec 9th 2014 we still have 183 units of 9000SMCHH in stock
AU9060APCDD	900 MHZ MICROPOP CONNECTORIZED AP	USD	\$449.00 PMP : PMP100		Access Point	0.45	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	
AUBP5530BH-1FF	PTP 54600 Full Integrated (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	Changed NA status back to Pend Obs. for internal order SUS15071 to ship out of ML. Need to change back once order ships END OF LIFE: <input type="checkbox"/>
AUBP5530BH-2FF	PTP 54600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BH15-1FF	PTP 54600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BH15-2FF	PTP 54600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BHC-1FF	PTP 54600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BHC-2FF	PTP 54600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BHC15-1FF	PTP 54600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5530BHC15-2FF	PTP 54600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BH-1EE	PTP 58600 Full Integrated (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BH-2EE	PTP 58600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BH15-1EE	PTP 58600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BH15-2EE	PTP 58600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BHC-1EE	PTP 58600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BHC-2EE	PTP 58600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BHC15-1EE	PTP 58600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BHC15-2EE	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUBP5830BHC15-2EE	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2857BB	PTP 58500 Full Integrated (ETSI/RoW) - Link Complete	USD	\$10,399.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2858BB	PTP 58500 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$12,995.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2859BB	PTP 58500 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$7,199.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2860BB	PTP 58500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$7,199.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2861BB	PTP 58500 Full Integrated (ETSI/RoW) - End Complete	USD	\$7,145.00 PTP : Un-Licensed : PTP500		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2862BB	PTP 58500 Full Connectorised (ETSI/RoW) - End Complete	USD	\$7,145.00 PTP : Un-Licensed : PTP500		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2864BB	PTP 58500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00 PTP : Un-Licensed : PTP500		ODU or IRFU	8	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2874CC	PTP 54500 Full Integrated (ETSI/RoW) - Link Complete	USD	\$12,995.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2875CC	PTP 54500 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$10,399.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2876CC	PTP 54500 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$8,995.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	
AUWB2877CC	PTP 54500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$8,995.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16	kg	8517620050	Hungary	5A991	5A991	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
AUWB2878CC	PTP 54500 Full Integrated (ETSI/RoW) - End Complete	USD	\$7,145.00 PTP : Un-Licensed : PTP500		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
AUWB2879CC	PTP 54500 Full Connectorised (ETSI/RoW) - End Complete	USD	\$7,145.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
AUWB2880CC	PTP 54500 Lite Integrated (ETSI/RoW) - End Complete	USD	\$3,899.00 PTP : Un-Licensed : PTP500		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
AUWB2881CC	PTP 54500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00 PTP : Un-Licensed : PTP500		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
AUWB3146BB	PTP 58300 Integrated (ETSI/RoW) - Link Complete	USD	\$5,995.00 PTP : Un-Licensed : PTP300		ODU or IRFU	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
AUWB3147BB	PTP 58300 Integrated (ETSI/RoW) - End Complete	USD	\$3,295.00 PTP : Un-Licensed : PTP300		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3148BB	PTP 58300 Connectorised (ETSI/RoW) - Link Complete	USD	\$5,995.00 PTP : Un-Licensed : PTP300		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3149BB	PTP 58300 Connectorised (ETSI/RoW) - End Complete	USD	\$3,295.00 PTP : Un-Licensed : PTP300		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3150CC	PTP 54300 Integrated (ETSI/RoW) - Link Complete	USD	\$5,995.00 PTP : Un-Licensed : PTP300		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3151CC	PTP 54300 Integrated (ETSI/RoW) - End Complete	USD	\$3,295.00 PTP : Un-Licensed : PTP300		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3152CC	PTP 54300 Connectorised (ETSI/RoW) - Link Complete	USD	\$5,995.00 PTP : Un-Licensed : PTP300		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3153CC	PTP 54300 Connectorised (ETSI/RoW) - End Complete	USD	\$3,295.00 PTP : Un-Licensed : PTP300		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3816AA	PTP 58600 Full ATEX/HazLoc Integrated (ETSI/RoW) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3817AA	PTP 58600 Full ATEX/HazLoc Integrated (ETSI/RoW) - End Complete	USD	\$10,299.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3818AA	PTP 58600 Full ATEX/HazLoc Connectorised (ETSI/RoW) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3819AA	PTP 58600 Full ATEX/HazLoc Connectorised (ETSI/RoW) - End Complete	USD	\$10,299.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3821AA	PTP 54600 Full ATEX/HazLoc Integrated (ETSI/RoW) - End Complete	USD	\$10,299.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3822AA	PTP 54600 Full ATEX/HazLoc Connectorised (ETSI/RoW) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AUWB3823AA	PTP 54600 Full ATEX/HazLoc Connectorised (ETSI/RoW) - End Complete	USD	\$10,299.00 PTP : Un-Licensed : PTP600		ODU or IRFU	8 kg		8517620050	Hungary	5A991	5A991	Obsolete	
AX-12VDCXA-WW	12V/3A, 40W Adaptor without cord	USD	\$15.00 cnPilot : cnPilot Indoor		Accessory	0.3 kg		8504408500	China	EAR99	EAR99	In Design	
AZHBP2400BH-24	BP 24, 2.4GHZ 10MBPS BACKHAUL	USD	\$10,450.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	EOL <input type="checkbox"/>
AZHBP2400BH-24INTL	BP 24, 2.4 GHZ 10MBPS BACKHAUL	USD	\$20,905.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	PMP/PTP 100 ALL OBSOLETE
AZHBP2400BH20-24	BP 24, 2.4GHZ 20MBPS BACKHAUL	USD	\$15,225.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP3630APC-10	PMP36320 CONNECTORIZED ACCESS POINT, 10 PK	USD	\$29,750.00 PMP : PMP300		Kit or Mixed Components	30.69 kg		8517620050	China	5A991	5A991	Obsolete	
AZHBP4940BH-24	BP24, 4.9GHZ OFDM 10MBPS BACKHAUL	USD	\$33,250.00 PMP : PTP200		Kit or Mixed Components	39.4656 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP4940BHC-24	BP24, 4.9GHZ OFDM 10MBPS CONNECTORIZED BACKHAUL	USD	\$33,250.00 PMP : PMP400		Kit or Mixed Components	39.4656 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP4940SM-25	BP25, 4.9GHZ OFDM SUBSCRIBER MODULE	USD	\$15,000.00 PMP : PMP400		Kit or Mixed Components	41.11 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP4940SMC-25	BP25, 4.9GHZ OFDM CONNECTORIZED SUBSCRIBER MODULE	USD	\$15,000.00 PMP : PMP400		Kit or Mixed Components	41.11 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5200AP-25	BP25, 5.2GHZ ACCESS POINT (CLASSIC) MODULES	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5200APHZ-25	BP25, 5.2GHZ ACCESS POINT HPOL	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5200BH-24	BP 24, 5.2GHZ 10MBPS BACKHAUL	USD	\$10,450.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	Still have stock of 5200XLHZAA
AZHBP5200BH20-24	BP 24, 5.2GHZ 20MBPS BACKHAUL	USD	\$15,225.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991.g	5A991.g	Obsolete	
AZHBP5202AP-25	BP25, 5.1GHZ ACCESS POINT (CLASSIC) MODULES	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5202BH-24	BP 24, 5.1GHZ 10MBPS BACKHAUL	USD	\$10,450.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5250AP-25	BP25, 5.2GHZ ADVANTAGE ACCESS POINT MODULES	USD	\$32,625.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5250APHZ-25	BP25, 5.2GHZ ADVANTAGE ACCESS POINT HPOL	USD	\$32,625.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5252AP-25	BP25, 5.1GHZ ADVANTAGE ACCESS POINT MODULES	USD	\$32,625.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400AP-25	BP25, 5.4GHZ ACCESS POINT (CLASSIC) MODULES	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400APC-25	BP25, 5.4GHZ CONNECTORIZED ACCESS POINT (CLASSIC) MODULES	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400APHZ-25	BP25, 5.4GHZ ACCESS POINT HPOL	USD	\$20,905.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400BH-24	BP 24, 5.4GHZ 10MBPS BACKHAUL	USD	\$10,450.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	EOL <input type="checkbox"/>
AZHBP5400BH-4	BP4, 5.4 GHZ BACKHAULS	USD	\$1,095.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	PMP/PTP 100 ALL OBSOLETE
AZHBP5400BH-4INTL	BP4, 5.4 GHZ BACKHAULS	USD	\$1,095.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AZHBP5400BH20-24	BP 24, 5.4GHZ 20MBPS BACKHAUL	USD	\$15,225.00 PMP : PTP100		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A991	5A991	Obsolete	EOL <input type="checkbox"/> PMP/PTP 100 ALL OBSOLETE

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
AZHBP5400BH20-4	BP4, 5.4 GHZ 20 MBPS BACKHAULS	USD	\$1,095.00 PMP : PTP100		Kit or Mixed Components	1.8	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400BHC20-24	BP24, 5.4GHZ 20MBPS CONNECTORIZED BACKHAUL	USD	\$15,225.00 PMP : PTP100		Kit or Mixed Components	10.8	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400SM-25	BP25, 5.4 GHZ SUBSCRIBER MODULES	USD	\$7,500.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5400SM-25INTL	BP25, 5.4 GHZ SUBSCRIBER MODULES	USD	\$7,500.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AZHBP5450SM-25	BP25, 5.4 GHZ ADVANTAGE SUBSCRIBER MODULES	USD	\$11,250.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5450SM-25INTL	BP25, 5.4 GHZ ADVANTAGE SUBSCRIBER MODULES	USD	\$11,250.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AZHBP5460SM-25	BP25, 5.4 GHZ LITE SUBSCRIBER MODULES	USD	\$5,000.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5480AP-10	BP10, 5.4GHZ OFDM INTEGRATED ACCESS POINT	USD	\$26,800.00 PMP : PMP430		Kit or Mixed Components	66.2	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5700BH-24	BP 24, 5.7GHZ 10MBPS BACKHAUL	USD	\$10,450.00 PMP : PTP100		Kit or Mixed Components	10.8	kg	8517620050	Mexico	5A991	5A991	Obsolete	EOL <input type="checkbox"/> PMP/PTP 100 ALL OBSOLETE
					Kit or Mixed Components								ECO-004544 to Obsolete in Arena. <input type="checkbox"/>
													<input type="checkbox"/>
													Per Matt M. - All AZ and INTL parts should be obsolete as they are not supported in UPS
AZHBP5700BH20-24	BP 24, 5.7GHZ 20MBPS BACKHAUL	USD	\$15,225.00 PMP : PTP100		Kit or Mixed Components	10.8	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5700SM-25INTL	BP25, 5.7 GHZ SUBSCRIBER MODULES	USD	\$7,500.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
AZHBP5700SMC-25	BP25, 5.7 GHZ CONNECTORIZED SUBSCRIBER MODULES	USD	\$7,500.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5760SM-25	BP25, 5.7 GHZ LITE SUBSCRIBER MODULES	USD	\$5,000.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A991	5A991	Obsolete	
AZHBP5780AP-10	BP10, 5.7GHZ OFDM INTEGRATED ACCESS POINT	USD	\$26,800.00 PMP : PMP430		Kit or Mixed Components	66.2	kg	8517620050	Mexico	5A991	5A991	Obsolete	
BH-1209A	CANOPY BACKHAUL POLE MOUNT KIT	USD	\$20.00 PMP		Accessory	0.5	kg	8517700000	United States	EAR99	EAR99	Obsolete	Item Obsolete <input type="checkbox"/>
					Kit or Mixed Components								<input type="checkbox"/>
													Obsolete or Deprecated in Arena. <input type="checkbox"/>
													No longer saleable
BP1104TE-2AA	BNDL PK 2 T1/E1 MULTIPLEXER 4 PK	USD	\$4,000.00 PMP			0.12345	kg	8517620050	Canada	5A991	5A991	Obsolete	
BP2400BH-4DD	2.4 GHZ BACKHAULS, 4PK	USD	\$180.00 PMP : PTP100		Kit or Mixed Components	1.8	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2400BH-4DDINTL	BP4, 2.4 GHZ 10 MBPS BACKHAUL	USD	\$3,285.00 PMP : PTP100		Kit or Mixed Components	1.8	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2400BH20-4DD	2.4 GHZ 20 MBPS BACKHAUL, 4PK	USD	\$4,935.00 PMP : PTP100		Kit or Mixed Components	1.8	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2400BH20-4DDINTL	BP4, 2.4 GHZ 20 MBPS BACKHAUL	USD	\$4,935.00 PMP : PTP100		Kit or Mixed Components	1.8	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2400SM-100DDINTL	BP100, 2.4 GHZ SUBSCRIBER MODULE	USD	\$35.00 PMP : PMP100		Kit or Mixed Components	45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2450SM-100DDINTL	BP100, 2.4 GHZ ADVANTAGE SUBSCRIBER MODULES	USD	\$39,500.00 PMP : PMP100		Kit or Mixed Components	45	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2450SM-25DD	2.4 GHZ ADVANTAGE SUBSCRIBER MODULES, 25PK	USD	\$9,875.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP2450SM-25DDINTL	BP25, 2.4 GHZ ADVANTAGE SUBSCRIBER MODULES	USD	\$9,875.00 PMP : PMP100		Kit or Mixed Components	11.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
BP5430BH20-2DD	PTP 54600 LITE INTEGRATED - LINK	USD	\$7,200.00 PTP : Un-Licensed : PTP400		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-1EE	PTP 54600 Full Integrated (ETSI/RoW) - End Complete	USD	\$10,995.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-1FF	PTP 54600 Full Integrated (ETSI/RoW) - End Complete	USD	\$10,995.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-1HH	PTP 54600 Full Integrated (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-2DD	PTP 54600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$19,995.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-2FF	PTP 54600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$19,995.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-2FFINTL	PTP 54600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$12,699.00 PTP : Un-Licensed : PTP600		ODU or IRFU	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH-2HH	PTP 54600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-1DD	PTP 54600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$8,800.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-1EE	PTP 54600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$8,800.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-1FF	PTP 54600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$8,800.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-1HH	PTP 54600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
					Backhaul								Item Abandoned <input type="checkbox"/>
													Change #ECO-005397 0 <input type="checkbox"/>
													CRB-731
BP5530BH15-2EE	PTP 54600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$15,995.00 PTP : Un-Licensed : PTP600					8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-2FF	PTP 54600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$15,995.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BH15-2HH	PTP 54600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC-1CC	PTP 54600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$10,995.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992	5A992	Obsolete	
BP5530BHC-1EE	PTP 54600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$10,995.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC-1FF	PTP 54600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$10,995.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
					Backhaul								14-Oct Made Unavailable for Order - cannot change DC status to Obsolete until pending Sales order fulfilled - NE
BP5530BHC-1HH	PTP 54600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$8,199.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC-2FF	PTP 54600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$19,995.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC-2HH	PTP 54600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$14,999.00 PTP : Un-Licensed : PTP600		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-1DD	PTP 54600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$8,800.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-1EE	PTP 54600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$8,800.00 PTP : Un-Licensed : PTP600		Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-1FF	PTP 54600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-1HH	PTP 54600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
BP5530BHC15-2DD	PTP 54600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-2EE	PTP 54600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5530BHC15-2FF	PTP 54600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
					Backhaul								14-Oct Made Unavailable for Order - cannot change DC status to Obsolete until Sales order fulfilled - NE
BP5530BHC15-2HH	PTP 54600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5730BHC-2CC	PTP 58400 FULL CONNECTORISED - LINK COMPLETE	USD	\$19,995.00	PTP : Un-Licensed : PTP400	Backhaul	0.12345	kg	8517620050	Germany	5A992	5A992	Obsolete	
BP5830BH-1EE	PTP 58600 Full Integrated (ETSI/RoW) - End Complete	USD	\$10,995.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replacd by BP5830BH-1HH
BP5830BH-1HH	PTP 58600 Full Integrated (ETSI/RoW) - End Complete	USD	\$8,199.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH-2EE	PTP 58600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$19,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH-2HH	PTP 58600 Full Integrated (ETSI/RoW) - Link Complete	USD	\$14,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH15-1CC	PTP 58600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992	5A992	Obsolete	
BP5830BH15-1EE	PTP 58600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
					Backhaul								29-June Turned to Pend and avail. in NA for Estimate placement
BP5830BH15-1HH	PTP 58600 Lite Integrated (ETSI/RoW) - End Complete	USD	\$6,599.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH15-2DD	PTP 58600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH15-2EE	PTP 58600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH15-2EEINTL	PTP 58600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BH15-2HH	PTP 58600 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC-1EE	PTP 58600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$10,995.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC-1HH	PTP 58600 Full Connectorised (ETSI/RoW) - End Complete	USD	\$8,199.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC-2EE	PTP 58600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$19,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC-2HH	PTP 58600 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$14,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC15-1CC	PTP 58600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992	Obsolete	
BP5830BHC15-1HH	PTP 58600 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$6,599.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC15-2DD	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC15-2EE	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC15-2EEINTL	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC15-2HH	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BP5830BHC152EEINTL	PTP 58600 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
BPSGVNML1000-25	SOFTWARE MGMT PRIZM 1.0 EMS ELEMENT PACK SW, 25 PACK	USD	\$4,945.00	PMP	SW Key			8517700000		5D991	5D991	Obsolete	Made Unavailable for Order per Bruce Collins
					SW Key								PTP400 SW keys EOLed
													ECO-004645 submitted to update Arena and Engineering status
BPSGVNPL5730-2	PTP 400 Series Lite to Full Upgrade Key - Link	USD	\$4,800.00	PTP : Un-Licensed : PTP500				8517700000		5D991	5D991	Obsolete	Made Unavailable for Order per Bruce Collins
					SW Key								ECO-004644 submitted to update Arena and Engineering status
BPSGVNPL5730-2AA	PTP 400 Series Lite to Full Upgrade Key - Link	USD	\$4,800.00	PTP : Un-Licensed : PTP500				8517700000		5D991	5D991	Obsolete	
BPSGVNPL5830-2	PTP 600 Series Lite to Full Upgrade Key - Link	USD	\$4,000.00	PTP	SW Key			8517700000		5D991	5D991	Obsolete	
BPSGVNPL5830-2AA	SW,UPGRD KEY 5830BH 150 TO 300MB,F/G	USD	\$4,000.00	PTP	SW Key			8517700000		5D991	5D991	Obsolete	
BPSGVNPL5830-2DD	PTP 54/58 600 Series Lite to Full Upgrade Key - Link (5 GHz only)	USD	\$3,000.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		EAR99	EAR99	Released	
C000000L024A	cnPilot R200 US , 802.11n single band 300Mbps WLAN Router with ATA	USD	\$70.00	cnPilot : cnPilot Home	Access Point	0.7	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L025A	cnPilot R200 EU , 802.11n single band 300Mbps WLAN Router with ATA	USD	\$70.00	cnPilot : cnPilot Home	Access Point	0.7	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L026A	cnPilot R200P US , 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L027A	cnPilot R200P EU , 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L028A	cnPilot R201 US, 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$100.00	cnPilot : cnPilot Home	Access Point	0.74	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L029A	cnPilot R201 EU, 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$100.00	cnPilot : cnPilot Home	Access Point	0.74	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L030A	cnPilot R201P, US, 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.94	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C000000L031A	cnPilot R201P, EU , 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.95	kg	8517.62.0050	China	5A992.c	5A992.c	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C00000L032A	cnPilot R201W, India , 802.11ac dual band Gigabit WLAN Router with PoE	USD	\$100.00	cnPilot : cnPilot Home	Access Point	0.93	kg	8517.62.0050	China	5A992.c	5A992.c	Released	This item is no longer available to order. <input type="checkbox"/>
C00000L033A	Gigabit Surge Suppressor (56V)	USD	\$50.00	PMP	Accessory	0.2	kg	8535.40.0000	Mexico	EAR99	EAR99	Released	Changed the NS Item Type to Kit/Package Gate 2 - August 17th <input type="checkbox"/>
C00000L034A	cnPilot R200P AUS , 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0050	China	5A992.c	5A992.c	Released	ECCN needs correcting to EAR99NR
C00000L035A	cnPilot R200P India , 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0050	China	5A992.c	5A992.c	Released	This item is no longer available to order. <input type="checkbox"/>
C00000L036A	cnPilot R200P Brazil, 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Changed the NS Item Type to Kit/Package <input type="checkbox"/>
C00000L037A	cnPilot R200 AUS , 802.11n single band 300Mbps WLAN Router with ATA	USD	\$75.00	cnPilot : cnPilot Home	Access Point	0.7	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully released
C00000L038A	cnPilot R200 India , 802.11n single band 300Mbps WLAN Router with ATA	USD	\$75.00	cnPilot : cnPilot Home	Access Point	0.7	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully released
C00000L039A	cnPilot R200 Brazil , 802.11n single band 300Mbps WLAN Router with ATA	USD	\$75.00	cnPilot : cnPilot Home	Access Point	0.7	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully released
C00000L040A	cnPilot R201 AUS, 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$105.00	cnPilot : cnPilot Home	Access Point	0.74	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully released
C00000L041A	cnPilot R201 India, 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$105.00	cnPilot : cnPilot Home	Access Point	0.74	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Made Unavailable to Order <input type="checkbox"/>
C00000L042A	cnPilot R201 Brazil, 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$105.00	cnPilot : cnPilot Home	Access Point	0.74	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Changed the NS Item Type to Kit/Package <input type="checkbox"/>
C00000L043A	cnPilot R201P, AUS , 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.93	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L044A	cnPilot R201P, India , 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.88	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L045A	cnPilot R201P, Brazil , 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.93	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L046A	cnPilot R200 ROW (no cord), 802.11n single band 300Mbps WLAN Router with ATA	USD	\$70.00	cnPilot : cnPilot Home	Access Point	0.75	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L047A	cnPilot R200P ROW (no cord), 802.11n single band 300Mbps WLAN Router with ATA and PoE	USD	\$90.00	cnPilot : cnPilot Home	Access Point	0.8	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L048A	cnPilot R201 ROW (no cord), 802.11ac dual band Gigabit WLAN Router with ATA	USD	\$100.00	cnPilot : cnPilot Home	Access Point	0.8	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L049A	cnPilot R201P, ROW (no cord), 802.11ac dual band Gigabit WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.82	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L050A	cnPilot R201W, ROW no cord, 802.11ac dual band Gigabit WLAN Router with PoE	USD	\$100.00	cnPilot : cnPilot Home	Access Point	0.8	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
C00000L055A	WM 4.0, UPGRADE NODE LICENSE	USD	\$25.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L056A	WM 4.0, INCLUDES 10 NODE LICENSES	USD	\$200.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L057A	WM 4.0 NODE LICENSE, QTY = 1	USD	\$50.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L058A	WM 4.0 W/BAM, INCL 10 NODE LICENSES	USD	\$400.00	PMP	SW Key			8517700000		5D991	5D991	Obsolete	
C00000L059A	WM 4.0 W/BAM NODE LICENSE, QTY = 1	USD	\$100.00	PMP	SW Key			8517700000		5D991	5D991	Obsolete	
C00000L060A	WM 4.0 NODE LIC, UPGR TO HA, QTY=1	USD	\$50.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L061A	WM 4.0, HA, INCL 10 NODE LICENSES	USD	\$300.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L062A	WM 4.0 NODE LICENSE, HA, QTY = 1	USD	\$70.00	PMP	SW Key			8517700000		5D991	5D991	Released	
C00000L063A	WM 4.0 W/BAM, HA, INCL 10 NODE LIC	USD	\$500.00	PMP	SW Key			8517700000		5D991	5D991	Obsolete	
C00000L064A	WM 4.0 W/BAM NODE LICENSE, HA,QTY=1	USD	\$130.00	PMP	SW Key			8517700000		5D991	5D991	Obsolete	
C00000L500A	CMM5 Controller	USD	\$995.00	PMP	Accessory	0.91	kg	8517.62.0050	United States	5A991	5A991	Released	Fully Released
C00000L529A	CMM5 Power and Sync Injector 29V	USD	\$1,295.00	PMP	Accessory	3.6	kg	8504.40.8500	United States	5A991	5A991	Released	Fully Released
C00000L556A	CMM5 Power and Sync Injector 56V	USD	\$1,295.00	PMP	Accessory	3.9	kg	8504.40.8500	United States	5A991	5A991	Released	Fully Released
C00000S0001	cnPilot R200, 200P Extended Warranty, 1 Additional Year	USD	\$6.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0001	cnPilot R200, 200P Extended Warranty, 1 Additional Year	USD	\$6.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0002	cnPilot R200, 200P Extended Warranty, 2 Additional Year	USD	\$11.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0002	cnPilot R200, 200P Extended Warranty, 2 Additional Year	USD	\$11.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0003	cnPilot R200, 200P Extended Warranty, 3 Additional Year	USD	\$14.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0003	cnPilot R200, 200P Extended Warranty, 3 Additional Year	USD	\$14.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0004	cnPilot R200, 200P Extended Warranty, 4 Additional Year	USD	\$16.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0004	cnPilot R200, 200P Extended Warranty, 4 Additional Year	USD	\$16.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C00000S0011	cnPilot R201, 201P Extended Warranty, 1 Additional Year <input type="checkbox"/>	USD	\$8.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0011	cnPilot R201, 201P Extended Warranty, 1 Additional Year <input type="checkbox"/>	USD	\$8.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0012	cnPilot R201, 201P Extended Warranty, 2 Additional Year <input type="checkbox"/>	USD	\$15.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0012	cnPilot R201, 201P Extended Warranty, 2 Additional Year <input type="checkbox"/>	USD	\$15.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0013	cnPilot R201, 201P Extended Warranty, 3 Additional Year <input type="checkbox"/>	USD	\$20.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0013	cnPilot R201, 201P Extended Warranty, 3 Additional Year <input type="checkbox"/>	USD	\$20.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0014	cnPilot R201, 201P Extended Warranty, 4 Additional Year <input type="checkbox"/>	USD	\$23.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C00000S0014	cnPilot R201, 201P Extended Warranty, 4 Additional Year <input type="checkbox"/>	USD	\$23.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025L001A	PTP 250 PoE Mains Power Supply	USD	\$100.00	PTP	Accessory	0.12345	kg	8504.40.8500	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/> Request to Obsolete per Tyler H.
C000025L002A	3-pin IEC Mains Power Lead (USA)	USD	\$9.00	PTP	Accessory	0.2	kg	8544.42.9090	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/> Request to Obsolete per Tyler H.
C000025L003A	3-pin IEC Mains Power Lead (UK)	USD	\$9.00	PTP	Accessory	0.2	kg	8544.42.9090	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/> Request to Obsolete per Tyler H.
C000025L004A	3-pin IEC Mains Power Lead (EU)	USD	\$9.00	PTP	Accessory	0.2	kg	8544.42.9090	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/> Request to Obsolete per Tyler H.
C000025L005A	3-pin IEC Mains Power Lead (AUS)	USD	\$9.00	PTP	Accessory	0.2	kg	8544.42.9090	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/> Request to Obsolete per Tyler H. CRB/ECO in progress <input type="checkbox"/>
C000025L006A	PTP 250 Reset Plug (Ethernet), Spare	USD	\$15.00	PTP	Accessory	0.12345	kg	8517700000	China	EAR99	EAR99	Obsolete	<input type="checkbox"/> Items being scrapped
C000025S002A	PTP 250 Extended Warranty, 1 Additional Yr (END ONLY)	USD	\$281.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000025S003A	PTP 250 Extended Warranty, 2 Additional Yr (END ONLY)	USD	\$560.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025S004A	PTP 250 Extended Warranty, 4 Additional Yr (END ONLY)	USD	\$1,102.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025S005A	PTP 250 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty (END ONLY)	USD	\$422.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025S006A	PTP 250 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr (END ONLY)	USD	\$857.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025S007A	PTP 250 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr (END ONLY)	USD	\$1,404.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000025S008A	PTP 250 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr (END ONLY)	USD	\$2,109.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C000045K002A	PMP 450 4 TO 10 MBPS UPGRADE KEY	USD	\$50.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K003A	PMP 450 4 TO 20 MBPS UPGRADE KEY	USD	\$100.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K004A	PMP 450 4 TO Uncapped UPGRADE KEY	USD	\$200.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K005A	PMP 450 10 TO 20 MBPS UPGRADE KEY	USD	\$50.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K006A	PMP 450 10 TO Uncapped MBPS UPGRADE KEY	USD	\$150.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K007A	PMP 450 20 TO Uncapped MBPS UPGRADE KEY	USD	\$100.00	PMP	SW Key			8517700000	United States	5D991	5D991	Released	
C000045K008A	PMP 450 Lite AP to Full AP UPGRADE KEY	USD	\$1,449.00	PMP	SW Key			8517700000	United States	EAR99	EAR99	Released	25-March Released for NA only. <input type="checkbox"/> Venray still pending
C000045K100A	MU-MIMO Enable Key	USD	\$2,500.00	PMP	SW Key				United States			Released	
C000045L001A	KIT_ANTENNA WING ASSEMBLY	USD	\$29.00	PMP : PMP450	Accessory	0.11	kg	8517700000	United States	EAR99	EAR99	Obsolete	
C000065K018A	PTP 650/670 128-bit AES Encryption - per ODU	USD	\$295.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000065K019A	PTP 650/670 256-bit AES Encryption - per ODU	USD	\$1,495.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000065K021A	PTP 650 Lite (Up to 125Mbps) to Mid (Up to 250Mbps) Link Capacity upgrade license per ODU	USD	\$1,495.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Obsolete	Per DN PMB-1127 item being eliminated <input type="checkbox"/> Per Bruce Collins, item should no longer be orderable <input type="checkbox"/> <input type="checkbox"/> ECO-004937 submitted to Obsolete in Arena/Eng Status
C000065K022A	PTP 650 Lite (Up to 125Mbps) to Full (Up to 450Mbps) Link Capacity upgrade license per ODU	USD	\$995.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					SW Key								Per DN PMB-1127 item being eliminated <input type="checkbox"/> Per Bruce Collins, item should no longer be orderable <input type="checkbox"/> <input type="checkbox"/> ECO-004937 submitted to Obsolete in Arena/Eng Status
C000065K023A	PTP 650 Mid (Up to 250Mbps) to Full (Up to 450Mbps) Link Capacity upgrade license per ODU	USD	\$1,000.00	PTP : Un-Licensed : PTP650				8517700000	United States	5D991	5D991	Obsolete	
C000065K040A	PTP 650/670 Precise Network Timing Software License (per END)	USD	\$250.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K041A	PTP 650/670 Group Access License per END	USD	\$995.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K049A	8-Port T1/E1 Software License (per END)	USD	\$300.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K050A	PTP 650 5/10 MHz channel (up to 100Mbps) License per END	USD	\$295.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K051A	PTP 650 5/10/15/20 MHz channel (up to 200Mbps) License per END	USD	\$495.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K052A	MAB License per END	USD	\$250.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K053A	PTP 650/670 Group Access License per END	USD	\$500.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K054A	PTP 650 10 MHz to 20MHz Channel Upgrade License per END	USD	\$200.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K055A	PTP 650 10 MHz to 45MHz Channel Upgrade License per END	USD	\$700.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K056A	PTP 650 20 MHz to 45MHz Channel Upgrade License per END	USD	\$500.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065K058A	PTP 650L 10MHz to 30MHz Upgrade License per END	USD	\$795.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	Per DN PMB-1127 item being eliminated <input type="checkbox"/> Per Bruce Collins, item should no longer be orderable
C000065K059A	PTP 650L 30MHz to Full Capacity Upgrade License per END	USD	\$495.00	PTP : Un-Licensed : PTP650	SW Key			8517700000	United States	5D991	5D991	Released	
C000065L002A	PTP 650 AC+DC Enhanced Power Injector	USD	\$380.00	PTP	Accessory	10.2 kg		8517700000	China	EAR99	EAR99	Obsolete	New Part Number <input type="checkbox"/> C000065L002C
C000065L002B	AC+DC Enhanced Power Injector	USD	\$380.00	PTP	Accessory	1.17 kg		8504.40.8500	China	EAR99	EAR99	Obsolete	C000065L002C
C000065L002C	AC+DC Enhanced Power Injector 56V	USD	\$380.00	PTP	Accessory	0.88 kg		8504.40.8500	China	EAR99	EAR99	Released	Fully Released
C000065L007A	PTP 650/670 LPU and Grounding Kit (1 kit per ODU)	USD	\$400.00	PTP	Accessory	0.68 kg		8535.40.0000	Mexico	EAR99	EAR99	Obsolete	
C000065L007B	LPU and Grounding Kit (1 kit per ODU)	USD	\$400.00	PTP : Un-Licensed : PTP650	Accessory	0.68 kg		8535.40.0000	Mexico	EAR99	EAR99	Released	Fully Released
C000065L008A	Single Mode Optical 1000BaseLX SFP Interface per ODU	USD	\$295.00	PTP	Accessory	0.27 kg		8517.62.0050	Mexico	5A991	5A991	Released	
C000065L009A	Multi-mode Optical 1000BaseSX SFP Interface per ODU	USD	\$295.00	PTP	Accessory	0.253 kg		8517.62.0050	Mexico	5A991	5A991	Released	
C000065L010A	Gigabit Ethernet 1000BaseT SFP Interface per ODU	USD	\$395.00	PTP	Accessory	0.26 kg		8517.62.0050	Mexico	5A991	5A991	Released	
C000065L034A	PTP 650 ODU Mechanical Sample (integrated)	USD	\$695.00	PTP : Un-Licensed : PTP650	Accessory	3.8 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
C000065L035A	PTP 650 ODU Mechanical Sample (connectorized)	USD	\$495.00	PTP : Un-Licensed : PTP650	Accessory	3.3 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
C000065L043A	Network Indoor Unit (One per END)	USD	\$995.00	PTP	Accessory	1.45 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C000065L044A	NIDU - DC Power Connector Spare (10 pack)	USD	\$50.00	PTP	Accessory	0.073 kg		8536.69.8000	Mexico	EAR99	EAR99	Released	
C000065S011A	PTP 650/670 Extended Warranty, 1 additional year	USD	\$250.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S012A	PTP 650/670 Extended Warranty, 2 additional years	USD	\$400.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S013A	PTP 650/670 Extended Warranty, 4 additional years	USD	\$600.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S014A	PTP 650/670 Upgrade to all risks advanced replacement during 1st year warranty	USD	\$350.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S015A	PTP 650/670 Extended Warranty and all risks advanced replacement 1 year	USD	\$700.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S016A	PTP 650/670 Extended Warranty and all risks advanced replacement 2 year	USD	\$850.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S017A	PTP 650/670 Extended Warranty and all risks advanced replacement 4 year	USD	\$1,050.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S037A	PTP 650/670 Extended Warranty, 3 additional years	USD	\$500.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S038A	PTP 650/670 Extended Warranty and all risks advanced replacement 3 year	USD	\$950.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000065S045A	NIDU Extended Warranty per END, 1 additional year	USD	\$125.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
C000065S046A	NIDU Extended Warranty per END, 2 additional years	USD	\$200.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
C000065S047A	NIDU Extended Warranty per END, 3 additional years	USD	\$250.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
C000065S048A	NIDU Extended Warranty per END, 4 additional years	USD	\$300.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
C000067K001A	PTP 670 High-Capacity Multipoint Upgrade - per Access Point	USD	\$995.00	PTP : Un-Licensed : PTP650	SW Key			8517.62.0050	United States	5D991	5D991	Released	Fully Released
C000067K002A	PTP 670 OTAR support - per End	USD	\$250.00	PTP : Un-Licensed : PTP670	SW Key			8517.62.0050	United States	5D002.a	5D002.a	Released	Fully Released
C000070K001A	PTP 700 128-bit AES Encryption - per END	USD	\$995.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000070K002A	PTP 700 256-bit AES Encryption - per END	USD	\$1,495.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000070K003A	PTP 700 Precise Network Timing Software License - per END	USD	\$495.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D991	5D991	Released	
C000070K004A	PTP 700 Group Access Software License - per END	USD	\$750.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D991	5D991	Released	
C000070K005A	PTP 700 FIPS 140-2 Upgrade including 128-bit AES - per END	USD	\$1,950.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000070K006A	PTP 700 FIPS 140-2 Upgrade including 256-bit AES - per END	USD	\$2,500.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D002.a	5D002.a	Released	
C000070K008A	PTP 700 Lite to Full Upgrade - per END	USD	\$4,000.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D991	5D991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C000070K009A	PTP 700 High Capacity Multipoint Upgrade - Per END	USD	\$995.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D991	5D991	Released	
					SW Key								Part setup in EMS. <input type="checkbox"/> If a customer tries to activate, they'll get a message asking them to contact support. <input type="checkbox"/>
C000070K010A	QD POSITIONER SNMPv3 REMOTE MANAGEMENT	USD	\$2,695.00	PTP : Un-Licensed : PTP700				8517700000	United States	5D002.a	5D002.a	Released	Support will need to be told to forward those requests to Bruce (CC Tom)
					SW Key								Released ECO-005274 <input type="checkbox"/> Part setup in EMS. <input type="checkbox"/> If a customer tries to activate, they'll get a message asking them to contact support. <input type="checkbox"/>
C000070K011A	QD POSITIONER GPS TARGETING SW LICENSE	USD	\$1,395.00	PTP : Un-Licensed : PTP700				8517700000	United States	5D002.a	5D002.a	Released	Support will need to be told to forward those requests to Bruce (CC Tom)
					SW Key								Released ECO-005274 <input type="checkbox"/> Part setup in EMS. <input type="checkbox"/> If a customer tries to activate, they'll get a message asking them to contact support. <input type="checkbox"/>
C000070K012A	QD POSITIONER TO POSITIONER SYNC SOFTWARE	USD	\$1,195.00	PTP : Un-Licensed : PTP700				8517700000	United States	5D002.a	5D002.a	Released	Support will need to be told to forward those requests to Bruce (CC Tom)
C000070K013A	PTP 700 Over-the-Air Rekey License - Per END	USD	\$495.00	PTP : Un-Licensed : PTP700	SW Key			8517700000	United States	5D002.a	5D002.a	Released	Fully Released and set up in EMS
C000070L010A	AUTO-ALIGNING POSITIONER, QUICK DEPLOY	USD	\$18,495.00	PTP : Un-Licensed : PTP700	Accessory	27.21	kg	8529.10.9100	United States	EAR99	EAR99	Released	Fully Released
C000070L011A	AUTO-ALIGNING POSITIONER, QUICK DEPLOY OD GREEN	USD	\$18,495.00	PTP : Un-Licensed : PTP700	Accessory	27.21	kg	8529.10.9100	United States	EAR99	EAR99	Released	Fully Released
C000070S001A	PTP 700 Extended Warranty, 1 additional year	USD	\$495.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S002A	PTP 700 Extended Warranty, 2 additional years	USD	\$995.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S003A	PTP 700 Extended Warranty, 3 additional years	USD	\$1,295.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S004A	PTP 700 Extended Warranty, 4 additional years	USD	\$1,495.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S005A	PTP 700 Upgrade to all risks advanced replacement during 1st year warranty	USD	\$750.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S006A	PTP 700 Extended Warranty and all risks advanced replacement 1 year	USD	\$1,495.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S007A	PTP 700 Extended Warranty and all risks advanced replacement 2 year	USD	\$2,495.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S008A	PTP 700 Extended Warranty and all risks advanced replacement 3 year	USD	\$2,795.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S009A	PTP 700 Extended Warranty and all risks advanced replacement 4 year	USD	\$3,095.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
C000070S010A	QD POSITIONER 1 YEAR HARDWARE SUPPORT EXTENSION	USD	\$3,495.00	Global Services : Warranty	SW Key			8517709000	United States	5D991	5D991	Released	
C000070S011A	QD POSITIONER 2 YEAR HARDWARE SUPPORT EXTENSION	USD	\$4,395.00	Global Services : Warranty	SW Key			8517709000	United States	5D991	5D991	Released	
C000070S012A	QD POSITIONER 3 YEAR HARDWARE SUPPORT EXTENSION	USD	\$6,095.00	Global Services : Warranty	SW Key			8517709000	United States	5D991	5D991	Released	
C000070S013A	QD POSITIONER 4 YEAR HARDWARE SUPPORT EXTENSION	USD	\$7,895.00	Global Services : Warranty	SW Key			8517709000	United States	5D991	5D991	Released	
C000081H001A	PTP810 MMU Dual Modem upgrade kit, Power Supply Module + Modem Module	USD	\$2,500.00	PTP : Licensed : PTP810	Kit or Mixed Components	1.5	kg	8517.70.0000	China	5A991	5A991	Released	
C000081H002A	PTP810 MMU Modem Module	USD	\$2,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.6	kg	8517.70.0000	China	5A991	5A991	Released	
C000081M001A	PTP810 MMU Standard, 2xFE + 16xE1/T1	USD	\$2,750.00	PTP : Licensed : PTP810	Modem	3.4	kg	8517620050	China	5A002.a.1	5A002.a.1	Obsolete	Part is now Obsolete
C000081M001B	PTP810 MMU Standard, 2xFE + 16xE1/T1	USD	\$2,750.00	PTP : Licensed : PTP810	Modem	3.4	kg	8517.62.0050	China	5A992.a	5A992.a	Released	24 June - Made Unavailable to Partners, until stocks of A are Zero - MT
C000081M002A	PTP810 MMU Super PDH, 2xFE + 42xE1/T1	USD	\$4,750.00	PTP : Licensed : PTP810	Modem	3.34	kg	8517620050	China	5A002.a.1	5A002.a.1	Obsolete	
C000081M003A	PTP810 MMU Standard Dual Modem, 2xFE + 16xE1/T1	USD	\$4,250.00	PTP : Licensed : PTP810	Modem	3.8	kg	8517620050	China	5A002.a.1	5A002.a.1	Obsolete	
					Modem								24 June - Made Unavailable to Partners, until stocks of A are Zero - MT <input type="checkbox"/>
C000081M003B	PTP810 MMU Standard Dual Modem, 2xFE + 16xE1/T1	USD	\$4,250.00	PTP : Licensed : PTP810		3.8	kg	8517.62.0050	China	5A992.a	5A992.a	Released	8 Aug - Made Available as A are now Obsolete.

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Modem								Item Obsolete <input type="checkbox"/>
C000081M004A	PTP810 MMU Enhanced Standard Dual Modem, 2xFE + 16xE1/T1	USD	\$4,750.00 PTP : Licensed : PTP810		Modem	3.68 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	Obsolete or Deprecated in Arena. <input type="checkbox"/>
C000081M005A	PTP810 MMU GigE Dual Modem, 4xGigE + 1xGigE SFP + 2xE1/T1	USD	\$5,250.00 PTP : Licensed : PTP810		Modem	3.8 kg		8517.62.0050	China	5A002.a.1	5A002.a.1	Pending	No longer saleable
C000081M008A	PTP810 MMU GigE, 4xGigE + 1xGigE SFP + 2xE1/T1	USD	\$3,750.00 PTP : Licensed : PTP810		Modem	3.4 kg		8517.62.0050	China	5A002.a.1	5A002.a.1	Pending	
C000081M009A	PTP810 MMU Enhanced Standard, 2xFE + 16xE1/T1	USD	\$3,250.00 PTP : Licensed : PTP810		Modem	3.34 kg		8517.62.0050	China	5A002.a.1	5A002.a.1	Obsolete	
C000081M010A	PTP810 MMU Super PDH Dual Modem, 2xFE + 42xE1/T1	USD	\$6,500.00 PTP : Licensed : PTP810		Modem	3.68 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	
C000081M010B	PTP810 MMU Super PDH Dual Modem, 2xFE + 42xE1/T1	USD	\$6,500.00 PTP : Licensed : PTP810		Modem	3.68 kg		8517.62.0050	China	5A992.a	5A992.a	Released	
C000082M001A	PTP 820G, Single Modem, Eth Only	USD	\$3,500.00 PTP : Licensed : PTP820		Modem	3.7 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C000082M002A	PTP 820G, Single Modem, Eth + 16 E1/T1	USD	\$3,800.00 PTP : Licensed : PTP820		Modem	3.6 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C000082M004A	PTP 820G, Dual Modem, Eth Only	USD	\$4,250.00 PTP : Licensed : PTP820		Modem	3.7 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C000082M005A	PTP 820G, Dual Modem, Eth + 16 E1/T1	USD	\$4,550.00 PTP : Licensed : PTP820		Modem	8.14 kg		8517.62.0050	Israel	5A002.a.1	5A002.a.1	Released	PTP 820-01-00 Phase 1
C000082M021B	PTP 820G NTIA FIPS-140 Ready, Dual Modem, Eth + 16 E1/T1	USD	\$8,000.00 PTP : Licensed : PTP820		Modem	8.14 kg		8517.62.0050	Israel	5A002.a.1	5A002.a.1	Released	
C000082T007A	PTP 820 NMS Basic to Advanced Upgrade	USD	\$75.00 PTP : Licensed : PTP820		SW Key			8517700000	Israel	EAR99	EAR99	Released	
C000082T009A	PTP 820 NMS Basic Package	USD	\$250.00 PTP : Licensed : PTP820		SW Key			8517700000	Israel	EAR99	EAR99	Released	Fully Released
					Tools					5A991.b.7			DO NOT USE. NS ITEM TYPE Incorrect. <input type="checkbox"/>
C000082T009A (Incorrect)	PTP 820 NMS Basic Package	USD	\$250.00 PTP : Licensed : PTP820					8520000000	Israel	5A991	5A991	Obsolete	New item created as Non-Inv for Sale <input type="checkbox"/>
C000082T010A	PTP 820 NMS Advanced Package	USD	\$330.00 PTP : Licensed : PTP820		SW Key			8517700000	Israel	EAR99	EAR99	Released	See "C000082T009A" record
					Tools					5A991.b.7			DO NOT USE. NS ITEM TYPE Incorrect. <input type="checkbox"/>
C000082T010A (Incorrect)	PTP 820 NMS Advanced Package	USD	\$330.00 PTP : Licensed : PTP820					8520000000	Israel	5A991	5A991	Obsolete	New item created as Non-Inv for Sale <input type="checkbox"/>
C000082T011A	PTP 820 NMS Open SNMP Manager	USD	\$50.00 PTP : Licensed : PTP820		SW Key			8517700000	Israel	EAR99	EAR99	Released	See "C000082T010A" record
C000100S0001	cnPilot E400 Extended Warranty, 1 Additional Year	USD	\$16.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0001	cnPilot E400 Extended Warranty, 1 Additional Year	USD	\$16.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0002	cnPilot E400 Extended Warranty, 2 Additional Year	USD	\$30.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0002	cnPilot E400 Extended Warranty, 2 Additional Year	USD	\$30.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0003	cnPilot E400 Extended Warranty, 3 Additional Year	USD	\$40.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0003	cnPilot E400 Extended Warranty, 3 Additional Year	USD	\$40.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0004	cnPilot E400 Extended Warranty, 4 Additional Year	USD	\$46.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
C000100S0004	cnPilot E400 Extended Warranty, 4 Additional Year	USD	\$46.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
					Access Point								8-Feb-2016 <input type="checkbox"/>
C000100W400A	cnPilot E400 (FCC) 802.11ac dual band AP; PoE injector, Cat 5 Ethernet Cable	USD	\$199.00 cnPilot : cnPilot Indoor		Access Point	1.007 kg		8517.62.0050	China	5A992.c	5A992.c	Released	Per Ann D.: We do not have the correct power supplies in them for shipment to the US from the Shanghai hub
C000100W401A	cnPilot E400 (EU) 802.11ac dual band AP; PoE injector, Cat 5 Ethernet Cable	USD	\$199.00 cnPilot : cnPilot Indoor		Access Point	1.06 kg		8517.62.0050	China	5A992.c	5A992.c	Released	Full Release Date: <input type="checkbox"/>
C000100W402A	cnPilot E400 (AUS, NZ) 802.11ac dual band AP; PoE injector, Cat 5 Ethernet Cable	USD	\$199.00 cnPilot : cnPilot Indoor		Access Point	1.0345 kg		8517.62.0050	China	5A992.c	5A992.c	Released	September 25th 2015
C000100W403A	cnPilot E400 (BR) 802.11ac dual band AP; PoE injector, Cat 5 Ethernet Cable	USD	\$199.00 cnPilot : cnPilot Indoor		Access Point	1.015 kg		8517.62.0050	China	5A992.c	5A992.c	Released	20-Sept-2016 <input type="checkbox"/>
C000100W404A	cnPilot E400 (ROW) 802.11ac dual band AP; PoE injector, Cat 5 Ethernet Cable. No Country Cord	USD	\$199.00 cnPilot : cnPilot Indoor		Access Point	0.935 kg		8517.62.0050	China	5A992.c	5A992.c	Released	Per Chetan, Item is Fully Released
C005095D360A	A (single) 5 GHz 5 dBi dipole Antenna for the 5GHz GHz ePMP 1000 Hotspot AP	USD	\$10.00 cnPilot : ePMP Hotspot		Antenna	0.027 kg		8517.70.0000	China	EAR99	EAR99	Released	Fully Released
C005095D360A	A (single) 5 GHz 5 dBi dipole Antenna for the 5GHz GHz ePMP 1000 Hotspot AP	USD	\$10.00 cnPilot : ePMP Hotspot		Antenna	0.027 kg		8517.70.0000	China	EAR99	EAR99	Released	Full Release Date: <input type="checkbox"/>
C005095D360A	ePMP 1000 hotspot (ROW, no cord) 802.11n 5GHz WLAN AP with dipole	USD	\$10.00 cnPilot : ePMP Hotspot		Antenna	0.027 kg		8517.70.0000	China	EAR99	EAR99	Released	September 25th 2015
C005095H021A	Antennas, & Mounting bracket	USD	\$149.00 cnPilot : ePMP Hotspot		Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C005095H021A	ePMP 1000 hotspot (ROW, no cord) 802.11n 5GHz WLAN AP with dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H023A	ePMP 1000 Hotspot (EU) 802.11n 5 GHz WLAN AP with Dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H023A	ePMP 1000 Hotspot (EU) 802.11n 5 GHz WLAN AP with Dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H122A	ePMP 1000 hotspot (FCC) 802.11n 5 GHz WLAN AP with dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H122A	ePMP 1000 hotspot (FCC) 802.11n 5 GHz WLAN AP with dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H221A	ePMP 1000 hotspot (ROW, EU Cord) 802.11n 5GHz WLAN AP with dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C005095H221A	ePMP 1000 hotspot (ROW, EU Cord) 802.11n 5GHz WLAN AP with dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C009010A000A	CFPO PMP 100 900 MHz Integrated AP 6 Pack	USD	\$2,400.00	PMP : PMP100	Access Point	0.12345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Item Obsolete <input type="checkbox"/> Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable
C009045A001A	900 MHz PMP 450i Connectorized Access Point	USD	\$2,895.00	PMP : PMP450i	Access Point	1.65 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released - December 1st 2015 Fully Released <input type="checkbox"/>
C009045B001A	PTP 450 900 MHz END - Connectorized	USD	\$595.00	PTP : Un-Licensed : PTP450	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Item only shipping out of Louisville DC
C009045C001A	900 MHz PMP 450 Connectorized Subscriber Module	USD	\$299.00	PMP : PMP450i	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released - December 1st 2015 Item Obsolete <input type="checkbox"/>
C024010A000A	CFPO PMP 100 2.4 GHz AP 6 Pack	USD	\$2,400.00	PMP : PMP100	Access Point	0.12345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable
C024045A001A	2.4 GHz PMP 450 Connectorized Access Point	USD	\$2,895.00	PMP : PMP450	Access Point	1.95 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C024045A003A	2.4 GHz PMP 450 Connectorized Access Point, DES	USD	\$2,895.00	PMP : PMP450	Access Point	1.95 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045A011A	2.4 GHz PMP 450 Connectorized Access Point - Lite	USD	\$1,449.00	PMP : PMP450	Access Point	1.95 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	25-March Released for NA only. <input type="checkbox"/> Venray still pending
C024045C001A	2.4 GHz PMP 450 Subscriber Module, 4 Mbps	USD	\$249.00	PMP : PMP450	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C002A	2.4 GHz PMP 450 Subscriber Module, 10 Mbps	USD	\$299.00	PMP : PMP450	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C003A	2.4 GHz PMP 450 Subscriber Module, 20 Mbps	USD	\$349.00	PMP : PMP450	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C004A	2.4 GHz PMP 450 Subscriber Module, Uncapped	USD	\$449.00	PMP : PMP450	CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C005A	2.4 GHz PMP 450 Connectorized Subscriber Module, 4 Mbps	USD	\$289.00	PMP : PMP450	CPE,SM or RM	0.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C006A	2.4 GHz PMP 450 Connectorized Subscriber Module, 10 Mbps	USD	\$339.00	PMP : PMP450	CPE,SM or RM	0.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C007A	2.4 GHz PMP 450 Connectorized Subscriber Module, 20 Mbps	USD	\$389.00	PMP : PMP450	CPE,SM or RM	0.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045C008A	2.4 GHz PMP 450 Connectorized Subscriber Module, Uncapped	USD	\$489.00	PMP : PMP450	CPE,SM or RM	0.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C024045D601A	ANTENNA,2.4GHZ,DUAL SLANT 60 DEGREE SECTOR	USD	\$595.00	PMP	Antenna	14.5 kg		8517.70.0000	United States	EAR99	EAR99	Released	
C024095D360A	A (single) 2.4 GHz 5 dBi dipole Antenna for the 2.4 GHz ePMP 1000 Hotspot AP	USD	\$10.00	cnPilot : ePMP Hotspot	Antenna	0.031 kg		8517.70.0000	China	EAR99	EAR99	Released	
C024095D360A	A (single) 2.4 GHz 5 dBi dipole Antenna for the 2.4 GHz ePMP 1000 Hotspot AP	USD	\$10.00	cnPilot : ePMP Hotspot	Antenna	0.031 kg		8517.70.0000	China	EAR99	EAR99	Released	
C024095H021A	ePMP 1000 hotspot (FCC, ROW, US Cord) 802.11n 2.4GHz WLAN AP; Dipole Antennas, & Mounting brac	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C024095H021A	ePMP 1000 hotspot (FCC, ROW, US Cord) 802.11n 2.4GHz WLAN AP; Dipole Antennas, & Mounting brac	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C024095H221A	ePMP 1000 Hotspot (EU, ROW, EU/US cord) 802.11n 2.4GHz WLAN AP; dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C024095H221A	ePMP 1000 Hotspot (EU, ROW, EU/US cord) 802.11n 2.4GHz WLAN AP; dipole Antennas, & Mounting bracket	USD	\$149.00	cnPilot : ePMP Hotspot	Kit or Mixed Components	3 kg		8517.62.0050	China	5A992.c	5A992.c	Released	
C030045A001A	3 GHz PMP 450i Connectorized Access Point	USD	\$2,895.00	PMP : PMP450i	Access Point	1.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C030045A002A	3 GHz PMP 450i Integrated Access Point, 90 Degree	USD	\$3,195.00	PMP : PMP450i	Access Point	9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C030045A003A	3 GHz PMP 450i Connectorized Access Point, DES Only	USD	\$2,895.00	PMP : PMP450i	Access Point	1.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C030045A003A	3 GHz PMP 450i Connectorized Access Point, DES Only	USD	\$2,895.00	PMP : PMP450i	Access Point	1.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C030045A004A	3 GHz PMP 450i Integrated Access Point, 90 Degree, DES Only	USD	\$3,195.00	PMP : PMP450i	Access Point	9 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA / D/C)	Notes (remove)
C030045B001A	3 GHz PTP 450i END, Connectorized	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C030045B001A	3 GHz PTP 450i END, Connectorized	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C030045B002A	3 GHz PTP 450i END, Integrated High Gain Antenna	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.9 kg		8517.70.0000	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released <input type="checkbox"/>
C030045B002A	3 GHz PTP 450i END, Integrated High Gain Antenna	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.9 kg		8517.70.0000	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released <input type="checkbox"/>
C030045C001A	3 GHz PMP 450i Connectorized Subscriber Module	USD	\$649.00 PMP : PMP450i		Access Point	1.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C030045C002A	3 GHz PMP 450i SM, Integrated High Gain Antenna	USD	\$699.00 PMP : PMP450i		CPE,SM or RM	2.9 kg		8517.70.0000	Mexico	5A992.a	5A992.a	Released	Fully Released <input type="checkbox"/>
C030045D901A	3.3-3.8 GHz Dual Slant Antenna for 90 Degree Sector	USD	\$495.00 PMP		Antenna	7.5 kg		8517.70.0000	China	EAR99	EAR99	Released	ECO-006124
C035045A001A	3.3-3.6 GHz PMP 450 Connectorized Access Point	USD	\$2,895.00 PMP : PMP450		Access Point	1.93 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Pending	Per Matt M. <input type="checkbox"/>
C035045A003A	3.3 - 3.6 GHz PMP 450 Connectorized Access Point, DES	USD	\$2,895.00 PMP : PMP450		Access Point	1.93 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	EOS/EOL notice in April, likely with Sept. 30 EOS date
C035045A011A	3.3-3.6 GHz PMP 450 Connectorized Access Point - Lite	USD	\$1,449.00 PMP : PMP450		Access Point	1.93 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Pending	EOS/EOL notice in April, likely with Sept. 30 EOS date
C035045B001A	PTP 450 3.5 GHz END - Integrated	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.76 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C035045B002A	PTP 450 3.5 GHz END - Connectorized	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045B003A	PTP 450 3.5 GHz END - Integrated - DES Only	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.76 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045B004A	PTP 450 3.5 GHz END - Connectorized -DES Only	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C001A	3.3-3.6 GHz PMP 450 Subscriber Module, 4 Mbps	USD	\$299.00 PMP : PMP450		CPE,SM or RM	0.76 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C002A	3.3 - 3.6 GHz PMP 450 Subscriber Module, 10 Mbps	USD	\$349.00 PMP : PMP450		CPE,SM or RM	0.76 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C003A	3.3-3.6 GHz PMP 450 Subscriber Module, 20 Mbps	USD	\$399.00 PMP : PMP450		CPE,SM or RM	0.76 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C004A	3.3-3.6 GHz PMP 450 Subscriber Module, Uncapped	USD	\$499.00 PMP : PMP450		CPE,SM or RM	0.76 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C005A	3.3-3.6 GHz PMP 450 Connectorized Subscriber Module, 4 Mbps	USD	\$329.00 PMP : PMP450		CPE,SM or RM	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C006A	3.3 - 3.6 GHz PMP 450 Connectorized Subscriber Module, 10 Mbps	USD	\$379.00 PMP : PMP450		CPE,SM or RM	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C007A	3.3-3.6 GHz PMP 450 Connectorized Subscriber Module, 20 Mbps	USD	\$429.00 PMP : PMP450		CPE,SM or RM	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C008A	3.3-3.6 GHz PMP 450 Connectorized Subscriber Module, Uncapped	USD	\$529.00 PMP : PMP450		CPE,SM or RM	0.86 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C035045C014A	3.3 - 3.6 GHz PMP 450 High Gain Directional Integrated Subscriber	USD	\$599.00 PMP : PMP450		CPE,SM or RM	2.68 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C036045A001A	3.55-3.8 GHz PMP 450 Connectorized Access Point	USD	\$2,895.00 PMP : PMP450		Access Point	1.91 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Pending	Per Matt M. <input type="checkbox"/>
C036045A003A	3.55 - 3.8 GHz PMP 450 Connectorized Access Point, DES	USD	\$2,895.00 PMP : PMP450		Access Point	1.91 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	EOS/EOL notice in April, likely with Sept. 30 EOS date
C036045A011A	3.55-3.8 GHz PMP 450 Connectorized Access Point - Lite	USD	\$1,449.00 PMP : PMP450		Access Point	1.91 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Pending	EOS/EOL notice in April, likely with Sept. 30 EOS date
C036045B001A	PTP 450 3.65 GHz END - Integrated	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.77 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C036045B002A	PTP 450 3.65 GHz END - Connectorized	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.88 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C036045B003A	PTP 450 3.65 GHz END - Integrated - DES Only	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.77 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045B004A	PTP 450 3.65 GHz END - Connectorized - DES Only	USD	\$695.00 PTP : Un-Licensed : PTP450		Backhaul	0.88 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C001A	3.55 - 3.8 GHz PMP 450 Subscriber Module, 4 Mbps	USD	\$299.00 PMP : PMP450		CPE,SM or RM	0.77 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C002A	3.55 - 3.8 GHz PMP 450 Subscriber Module, 10 Mbps	USD	\$349.00 PMP : PMP450		CPE,SM or RM	0.77 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C003A	3.55-3.8 GHz PMP 450 Subscriber Module, 20 Mbps	USD	\$399.00 PMP : PMP450		CPE,SM or RM	0.77 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C004A	3.55-3.8 GHz PMP 450 Subscriber Module, Uncapped	USD	\$499.00 PMP : PMP450		CPE,SM or RM	0.77 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C005A	3.55 - 3.8 GHz PMP 450 Connectorized Subscriber Module, 4 Mbps	USD	\$329.00 PMP : PMP450		CPE,SM or RM	0.88 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C006A	3.55-3.8 GHz PMP 450 Connectorized Subscriber Module, 10 Mbps	USD	\$379.00 PMP : PMP450		CPE,SM or RM	0.88 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C007A	3.55-3.8 GHz PMP 450 Connectorized Subscriber Module, 20 Mbps	USD	\$429.00 PMP : PMP450		CPE,SM or RM	0.88 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C036045C008A	3.55-3.8 GHz PMP 450 Connectorized Subscriber Module, Uncapped	USD	\$529.00 PMP : PMP450		CPE,SM or RM	0.88 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					CPE,SM or RM								Turned back to Pend Obsolete and available as the replacement with "B" suffix is having antenna issues. □ □ "A" suffix Obsolete, replacement part: □
C036045C009A	3.55-3.8 GHz PMP 450 Subscriber Module, Uncapped, NGI	USD	\$499.00 PMP : PMP450			0.77 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	C036045C009B
C036045C014A	3.55 - 3.8 GHz PMP 450 High Gain Directional Integrated Subscriber	USD	\$599.00 PMP : PMP450		CPE,SM or RM	2.65 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B001A	PTP 700 Connectorized ODU (FCC)	USD	\$12,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B002A	PTP 700 Connectorized+Integrated ODU (FCC)	USD	\$12,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B003A	PTP 700 Connectorized ODU (Global)	USD	\$12,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B004A	PTP 700 Connectorized+Integrated ODU (Global)	USD	\$12,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B007A	PTP 700 Lite Connectorized ODU (FCC)	USD	\$8,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B008A	PTP 700 Lite Connectorized+Integrated ODU (FCC)	USD	\$8,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B009A	PTP 700 Lite Connectorized ODU (Global)	USD	\$8,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B010A	PTP 700 Lite Connectorized+Integrated ODU (Global)	USD	\$8,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C045070B025A	PTP 700 Connectorized ODU (IC)	USD	\$12,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070B026A	PTP 700 Connectorized+Integrated ODU (IC)	USD	\$12,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070B027A	PTP 700 Lite Connectorized ODU (IC)	USD	\$8,095.00 PTP : Un-Licensed : PTP700		Backhaul	3.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070B028A	PTP 700 Lite Connectorized+Integrated ODU (IC)	USD	\$8,015.00 PTP : Un-Licensed : PTP700		Backhaul	5.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H001A	PTP 700 Connectorized END (FCC)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	5.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H002A	PTP 700 Connectorized+Integrated END (FCC)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	8.8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H004A	PTP 700 Connectorized END - US Line Cord (Global)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	5.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H005A	PTP 700 Connectorized+Integrated END - US Line Cord (Global)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	8.8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H007A	PTP 700 Connectorized END - EU Line Cord (Global)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	5.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H008A	PTP 700 Connectorized+Integrated END - EU Line Cord (Global)	USD	\$12,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	8.8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H013A	PTP 700 Lite Connectorized END - US Line Cord (Global)	USD	\$8,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	5.6 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C045070H014A	PTP 700 Lite Connectorized+Integrated END - US Line Cord (Global)	USD	\$8,495.00 PTP : Un-Licensed : PTP700		Kit or Mixed Components	8.8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C05000D001A	CLIP (CASSEGRAIN LENS FOR IMPROVED PERFORMANCE)	USD	\$60.00 PMP		Accessory	0.75 kg		3926.90.9995	United States	EAR99	EAR99	Released	
C050045A001A	5 GHz PMP 450i Connectorized Access Point (ROW)	USD	\$2,895.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C050045A002A	5 GHz PMP 450i Connectorized Access Point (FCC)	USD	\$2,895.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C050045A003A	5 GHz PMP 450i Connectorized Access Point (EU)	USD	\$2,895.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released - November 30th 2015
C050045A004A	5 GHz PMP 450i Connectorized Access Point (DES Only)	USD	\$2,895.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050045A005A	5 GHz PMP 450i Integrated Access Point, 90 degree (ROW)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
C050045A005B	5 GHz PMP 450i Integrated Access Point, 90 degree (ROW)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A006A	5 GHz PMP 450i Integrated Access Point, 90 degree (FCC)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
C050045A006B	5 GHz PMP 450i Integrated Access Point, 90 degree (FCC)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A007A	5 GHz PMP 450i Integrated Access Point, 90 degree (EU)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Fully Released - November 30th 2015
C050045A007B	5 GHz PMP 450i Integrated Access Point, 90 degree (EU)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A008A	5 GHz PMP 450i Integrated Access Point, 90 degree (DES Only)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	18-Nov-2015 Stop Ship Removed
C050045A008B	5 GHz PMP 450i Integrated Access Point, 90 degree (DES Only)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050045A009A	5 GHz PMP 450i Conn Access Point (ROW), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Item Abandoned in Arena. □
C050045A009A (Incorrect)	5 GHz PMP 450i Conn Access Point (ROW), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A010A	5 GHz PMP 450i Conn Access Point (FCC), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Item Abandoned in Arena. □
C050045A010A (Incorrect)	5 GHz PMP 450i Conn Access Point (FCC), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A011A	5 GHz PMP 450i Conn Access Point (EU), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C050045A011A (Incorrect)	5 GHz PMP 450i Conn Access Point (EU), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A012A	5 GHz PMP 450i Integrated Access Point, 90 degree (ROW), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A012A (Incorrect)	5 GHz PMP 450i Integrated Access Point, 90 degree (ROW), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A013A	5 GHz PMP 450i Integrated Access Point, 90 degree (FCC), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A013A (Incorrect)	5 GHz PMP 450i Integrated Access Point, 90 degree (FCC), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A014A	5 GHz PMP 450i Integrated Access Point, 90 degree (EU), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A014A (Incorrect)	5 GHz PMP 450i Integrated Access Point, 90 degree (EU), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Item Abandoned in Arena. <input type="checkbox"/> NetSuite status updated to Obsolete as Abandoned not currently mapped
C050045A015A	5 GHz PMP 450i Connectorized Access Point (IC)	USD	\$2,895.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released - November 30th 2015
C050045A016A	5 GHz PMP 450i Integrated Access Point, 90 degree (IC)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Fully Released - November 30th 2015
C050045A016B	5 GHz PMP 450i Integrated Access Point, 90 degree (IC)	USD	\$3,195.00 PMP : PMP450i		Access Point	7.7 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A017A	5 GHz PMP 450i Conn Access Point (IC), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A018A	5 GHz PMP 450i Integrated Access Point, 90 degree (IC), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A019A	5 GHz PMP 450i Conn Access Point (DES Only), ATEX/HAZLOC	USD	\$5,695.00 PMP : PMP450i		Access Point	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A020A	5 GHz PMP 450i Integrated Access Point, 90 degree (DES Only), ATEX/HAZLOC	USD	\$5,995.00 PMP : PMP450i		Access Point	0.9 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A049A	5 GHz PMP 450i Integrated Narrow Beam Access Point, 10 degree (ROW)	USD	\$3,049.00 PMP : PMP450i		Access Point	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Released	1-March-2017 <input type="checkbox"/> Not ready to ship
C050045A101A	5 GHz PMP 450m Integrated Access Point, 90 Degree (ROW)	USD	\$6,995.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released 29-Sept-2016 <input type="checkbox"/> Item Fully Released <input type="checkbox"/>
C050045A102A	5 GHz PMP 450m Integrated Access Point, 90 Degree (FCC)	USD	\$6,995.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	ECO-005834
C050045A103A	5 GHz PMP 450m Integrated Access Point, 90 Degree (EU)	USD	\$6,995.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released Gate 3 - ETA August 29th <input type="checkbox"/> 11-7 changed status to released and have taken off the PM hold, per Matt M. email
C050045A104A	5 GHz PMP 450m Integrated Access Point, 90 Degree (DES Only)	USD	\$6,995.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050045A105A	5 GHz PMP 450m Integrated Access Point, 90 Degree (IC)	USD	\$6,995.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A111A	5 GHz PMP 450m Integrated Access Point, 90 Degree (ROW), Limited	USD	\$4,495.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A112A	5 GHz PMP 450m Integrated Access Point, 90 Degree (FCC), Limited	USD	\$4,495.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A113A	5 GHz PMP 450m Integrated Access Point, 90 Degree (EU), Limited	USD	\$4,495.00 PMP : PMP450m		Access Point	18.4 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045A114A	5 GHz PMP 450m Integrated Access Point, 90 Degree (DES Only), Limited	USD	\$4,495.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050045A115A	5 GHz PMP 450m Integrated Access Point, 90 Degree (IC), Limited	USD	\$4,495.00 PMP : PMP450m		Access Point	18.5 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B001A	5 GHz PTP 450i END, Connectorized (ROW)	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.75 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C050045B002A	5 GHz PTP 450i END, Integrated High Gain Antenna (ROW)	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.35 kg		8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
C050045B003A	5 GHz PTP 450i END, Connectorized (FCC)	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.75	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C050045B004A	5 GHz PTP 450i END, Integrated High Gain Antenna (FCC)	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.35	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	
C050045B005A	5 GHz PTP 450i END, Connectorized (EU)	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.75	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released - November 30th 2015
C050045B006A	5 GHz PTP 450i END, Integrated High Gain Antenna (EU)	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.35	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released - November 30th 2015
C050045B007A	5 GHz PTP 450i END, Connectorized (DES Only)	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050045B008A	5 GHz PTP 450i END, Integrated High Gain Antenna (DES only)	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.35	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050045B009A	5 GHz PTP 450i END, Connectorized (ROW), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
					CPE,SM or RM								Do NOT place this item on orders. <input type="checkbox"/> Incorrectly set up as Kit/Package and will be inactivated to be changed to an INVENTORY item. <input type="checkbox"/>
C050045B009A (Incorrect)	5 GHz PTP 450i END, Connectorized (ROW), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Have made unavailable for order in Sales Group and EMEA/NA status to Not Available
C050045B010A	5 GHz PTP 450i END, Integrated High Gain Antenna (ROW), ATEX/HAZLOC	USD	\$2,695.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	2.35	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B011A	5 GHz PTP 450i END, Connectorized (FCC), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B012A	5 GHz PTP 450i END, Integrated High Gain Antenna (FCC), ATEX/HAZLOC	USD	\$2,695.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B013A	5 GHz PTP 450i END, Connectorized (EU), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B014A	5 GHz PTP 450i END, Integrated High Gain Antenna (EU), ATEX/HAZLOC	USD	\$2,695.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B015A	5 GHz PTP 450i END, Connectorized (IC)	USD	\$895.00 PTP : Un-Licensed : PTP450i		Backhaul	1.75	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released 27-Jan-2016
C050045B016A	5 GHz PTP 450i END, Integrated High Gain Antenna (IC)	USD	\$995.00 PTP : Un-Licensed : PTP450i		Backhaul	2.35	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released 27-Jan-2016
C050045B017A	5 GHz PTP 450i END, Connectorized (IC), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	1.75	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B018A	5 GHz PTP 450i END, Integrated High Gain Antenna (IC), ATEX/HAZLOC	USD	\$2,695.00 PTP : Un-Licensed : PTP450i		CPE,SM or RM	2.35	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B019A	5 GHz PTP 450i END, Connectorized (DES Only), ATEX/HAZLOC	USD	\$2,495.00 PTP : Un-Licensed : PTP450i		Access Point	1.75	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045B020A	5 GHz PTP 450i END, Integrated High Gain Antenna (DES Only), ATEX/HAZLOC	USD	\$2,695.00 PTP : Un-Licensed : PTP450i		Access Point	0.9	kg	8517.62.0050	Mexico	5A002.a.1	5A002.a.1	Released	Fully Released
C050045C001A	5 GHz PMP 450i Connectorized Subscriber Module	USD	\$649.00 PMP : PMP450i		CPE,SM or RM	1.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050045C002A	5 GHz PMP 450i SM, Integrated High Gain Antenna	USD	\$699.00 PMP : PMP450i		CPE,SM or RM	2.35	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050045C003A	5 GHz PMP 450i Conn Subscriber Module, ATEX/HAZLOC	USD	\$1,149.00 PMP : PMP450i		CPE,SM or RM	0.9	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050045C004A	5 GHz PMP 450i Integrated High Gain Antenna, ATEX/HAZLOC	USD	\$1,119.00 PMP : PMP450i		CPE,SM or RM	2.35	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050045C011A	5 GHz 450b - Mid-Gain WB SM	USD	\$299.00 PMP : PMP450b		CPE,SM or RM	0.8	kg	8517620050	Mexico	5A992.a	5A992.a	In Design	
C050065B001A	PTP 650 (4.9 to 6.05 GHz) Integrated ODU (FCC)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		Backhaul	4.4	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B002A	PTP 650 (4.9 to 6.05 GHz) Connectorized ODU (FCC)	USD	\$2,395.00 PTP : Un-Licensed : PTP650		Backhaul	3.6	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B003A	PTP 650 (4.9 to 6.05 GHz) Integrated ODU (RoW)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		Backhaul	4.4	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B004A	PTP 650 (4.9 to 6.05 GHz) Connectorized ODU (RoW)	USD	\$2,395.00 PTP : Un-Licensed : PTP650		Backhaul	3.6	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B005A	PTP 650 (4.9 to 6.05 GHz) Integrated ODU (EU)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		Backhaul	4.4	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 <input type="checkbox"/> Per Allen Yu: <input type="checkbox"/> Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065B006A	PTP 650 (4.9 to 6.05 GHz) Connectorized ODU (EU)	USD	\$2,395.00 PTP : Un-Licensed : PTP650		Backhaul	3.6	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 <input type="checkbox"/> Per Allen Yu: <input type="checkbox"/> Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065B015A	PTP 650S (4.9 to 6.05 GHz) ODU (FCC)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B016A	PTP 650S (4.9 to 6.05 GHz) ODU (RoW)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B021A	PTP 650S (4.9 to 6.05 GHz) ODU (EU)	USD	\$2,615.00 PTP : Un-Licensed : PTP650		ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C050065B029A	PTP 650L (4.9 to 6.05 GHz) ODU (FCC)	USD	\$1,715.00	PTP : Un-Licensed : PTP650	ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B030A	PTP 650L (4.9 to 6.05 GHz) ODU (RoW)	USD	\$1,715.00	PTP : Un-Licensed : PTP650	ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065B031A	PTP 650L (4.9 to 6.0 GHz) ODU (EU)	USD	\$1,715.00	PTP : Un-Licensed : PTP650	ODU or IRFU	2.75	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H007A	PTP 650 Connectorized END with AC Supply (FCC/IC)	USD	\$2,495.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.553	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H008A	PTP 650 Connectorized END with AC+DC Enhanced Supply (FCC/IC)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.483	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H009A	PTP 650 Integrated END with AC Supply (FCC/IC)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	6.273	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H010A	PTP 650 Integrated END with AC+DC Enhanced Supply (FCC/IC)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	7.203	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H011A	PTP 650 Connectorized END with AC Supply (RoW - EU Line Cord)	USD	\$2,495.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.543	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H012A	PTP 650 Connectorized END with AC+DC Enhanced Supply (RoW - EU Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.473	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H013A	PTP 650 Integrated END with AC Supply (RoW - EU Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	6.263	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H014A	PTP 650 Integrated END with AC+DC Enhanced Supply (RoW - EU Line Cord)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	7.193	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H017A	PTP 650 Connectorized END with AC Supply (EU)	USD	\$2,495.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.543	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 ☐ Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065H018A	PTP 650 Connectorized END with AC+DC Enhanced Supply (EU)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.473	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 ☐ Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065H019A	PTP 650 Integrated END with AC Supply (EU)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	6.263	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 ☐ Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065H020A	PTP 650 Integrated END with AC+DC Enhanced Supply (EU)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	7.193	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	21-June-2017 ☐ Because of RED regulatory change, we cannot ship any PTP650 into EU
C050065H022A	PTP 650S END with AC Supply (FCC)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.473	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H023A	PTP 650S END with AC+DC Enhanced Supply (FCC)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.403	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H024A	PTP 650S END with AC Supply (RoW)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H025A	PTP 650S END with AC+DC Enhanced Supply (RoW)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.393	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H026A	PTP 650S END with AC Supply (EU)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H027A	PTP 650S END with AC+DC Enhanced Supply (EU)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.393	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H028A	PTP 650S END with AC Supply (RoW - US Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.473	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Not Release
C050065H029A	PTP 650S END with AC+DC Enhanced Supply (RoW - US Line Cord)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.403	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H030A	PTP 650 Connectorized END with AC Supply (RoW - U.S. Line Cord)	USD	\$2,495.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.553	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H031A	PTP 650 Connectorized END with AC+DC Enhanced Supply (RoW - U.S. Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	5.483	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H032A	PTP 650 Integrated END with AC Supply (RoW - U.S. Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	6.273	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H033A	PTP 650 Integrated END with AC+DC Enhanced Supply (RoW - U.S. Line Cord)	USD	\$3,095.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	7.203	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H035A	PTP 650L END with AC Supply (FCC)	USD	\$1,895.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H036A	PTP 650L END with AC Supply (ROW-EU Line Cord)	USD	\$1,895.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H037A	PTP 650L END with AC Supply (ROW-US Line Cord)	USD	\$1,895.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050065H038A	PTP 650L END with AC Supply (EU)	USD	\$1,895.00	PTP : Un-Licensed : PTP650	Kit or Mixed Components	4.463	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C050067B001A	PTP 670 (4.9 to 6.05 GHz) Integrated 23 dBi ODU (FCC)	USD	\$2,615.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B003A	PTP 670 (4.9 to 6.05 GHz) Connectorized ODU (FCC)	USD	\$2,395.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B004A	PTP 670 (4.9 to 6.05 GHz) Integrated 23 dBi ODU (ROW)	USD	\$2,615.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B006A	PTP 670 (4.9 to 6.05 GHz) Connectorized ODU (ROW)	USD	\$2,395.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B007A	PTP 670 (4.9 to 6.05 GHz) Integrated 23 dBi ODU (EU)	USD	\$2,615.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B009A	PTP 670 (4.9 to 6.05 GHz) Connectorized ODU (EU)	USD	\$2,395.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B010A	PTP 670 (4.9 to 6.05 GHz) Integrated 23 dBi ODU (IC)	USD	\$2,615.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B012A	PTP 670 (4.9 to 6.05 GHz) Connectorized ODU (IC)	USD	\$2,395.00	PTP : Un-Licensed : PTP670	ODU or IRFU	3	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067B021A	PTP 670 (4.8 to 5.9 GHz) Integrated 23 dBi ODU (Mexico)	USD	\$8,795.00	PTP : Un-Licensed : PTP670	Backhaul	4.6	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully released
C050067B022A	PTP 670 (4.8 to 5.9 GHz) Connectorized ODU (Mexico)	USD	\$8,495.00	PTP : Un-Licensed : PTP670	Backhaul	3.7	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully released
C050067H001A	PTP 670 Connectorized END with AC Supply (FCC)	USD	\$2,495.00	PTP : Un-Licensed : PTP670	ODU or IRFU	5.253	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H002A	PTP 670 Connectorized END with AC+DC Enhanced Supply (FCC)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.033	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H003A	PTP 670 Integrated 23dBi END with AC Supply (FCC)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.513	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H004A	PTP 670 Integrated 23dBi END with AC+DC Enhanced Supply (FCC)	USD	\$3,095.00	PTP : Un-Licensed : PTP670	ODU or IRFU	7.293	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H007A	PTP 670 Connectorized END with AC Supply (ROW - U.S. Line Cord)	USD	\$2,495.00	PTP : Un-Licensed : PTP670	ODU or IRFU	5.253	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H008A	PTP 670 Connectorized END with AC+DC Enhanced Supply (ROW - U.S. Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.033	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H009A	PTP 670 Integrated 23dBi END with AC Supply (ROW - U.S. Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.513	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA / D/C)	Notes (remove)
C050067H010A	PTP 670 Integrated 23dBi END with AC+DC Enhanced Supply (ROW - U.S. Line Cord)	USD	\$3,095.00	PTP : Un-Licensed : PTP670	ODU or IRFU	7.293	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H013A	PTP 670 Connectorized END with AC Supply (ROW - EU Line Cord)	USD	\$2,495.00	PTP : Un-Licensed : PTP670	ODU or IRFU	5.24	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H014A	PTP 670 Connectorized END with AC+DC Enhanced Supply (ROW - EU Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.02	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H015A	PTP 670 Integrated 23dBi END with AC Supply (ROW - EU Line Cord)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H016A	PTP 670 Integrated 23dBi END with AC+DC Enhanced Supply (ROW - EU Line Cord)	USD	\$3,095.00	PTP : Un-Licensed : PTP670	ODU or IRFU	7.28	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H019A	PTP 670 Connectorized END with AC Supply (EU)	USD	\$2,495.00	PTP : Un-Licensed : PTP670	ODU or IRFU	5.24	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H020A	PTP 670 Connectorized END with AC+DC Enhanced Supply (EU)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.02	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H021A	PTP 670 Integrated 23dBi END with AC Supply (EU)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.5	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H022A	PTP 670 Integrated 23dBi END with AC+DC Enhanced Supply (EU)	USD	\$3,095.00	PTP : Un-Licensed : PTP670	ODU or IRFU	7.28	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H025A	PTP 670 Connectorized END with AC Supply (IC)	USD	\$2,495.00	PTP : Un-Licensed : PTP670	ODU or IRFU	5.253	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H026A	PTP 670 Connectorized END with AC+DC Enhanced Supply (IC)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.033	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H027A	PTP 670 Integrated 23dBi END with AC Supply (IC)	USD	\$2,795.00	PTP : Un-Licensed : PTP670	ODU or IRFU	6.513	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050067H028A	PTP 670 Integrated 23dBi END with AC+DC Enhanced Supply (IC)	USD	\$3,095.00	PTP : Un-Licensed : PTP670	ODU or IRFU	7.293	kg	8517.62.0050	Mexico	5A992.a	5A992.a	Released	Fully Released
C050900S001A	ePMP Unsync Radio Extended Warranty, 1 Additional Year	USD	\$39.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S001A	ePMP Unsync Radio Extended Warranty, 1 Additional Year	USD	\$39.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S002A	ePMP Unsync Radio Extended Warranty, 2 Additional Years	USD	\$75.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S002A	ePMP Unsync Radio Extended Warranty, 2 Additional Years	USD	\$75.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S004A	ePMP Unsync Radio Extended Warranty, 4 Additional Years	USD	\$139.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S004A	ePMP Unsync Radio Extended Warranty, 4 Additional Years	USD	\$139.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S101A	ePMP Sync Radio Extended Warranty, 1 Additional Year	USD	\$99.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S101A	ePMP Sync Radio Extended Warranty, 1 Additional Year	USD	\$99.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S102A	ePMP Sync Radio Extended Warranty, 2 Additional Years	USD	\$189.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S102A	ePMP Sync Radio Extended Warranty, 2 Additional Years	USD	\$189.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S104A	ePMP Sync Radio Extended Warranty, 4 Additional Years	USD	\$359.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C050900S104A	ePMP Sync Radio Extended Warranty, 4 Additional Years	USD	\$359.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
C052010A000A	CFPO PMP 100 5.2 GHz AP 6 Pack	USD	\$2,400.00	PMP : PMP100	Access Point	0.12345	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Item Obsolete <input type="checkbox"/> Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable Item Obsolete <input type="checkbox"/>
C054010A000A	CFPO PMP 100 5.4 GHz AP 6 Pack	USD	\$2,400.00	PMP : PMP100	Access Point	0.12345	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable Item Obsolete <input type="checkbox"/>
C054010C000A	CFPO PMP 100 5.4 GHz SM 25 PK (MIX OF P9-P11)	USD	\$3,310.00	PMP : PMP100	CPE,SM or RM	24.25	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/>
C054025B001A	PTP 250 5GHz Connectorised (ETSI/RoW) - Link Complete	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16	kg	8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/>
C054025B002A	PTP 250 5GHz Connectorised (ETSI/RoW) - End Complete	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7	kg	8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/>
C054025B003A	PTP 250 5GHz Connectorised (FCC/IC) - Link Complete - 5.4 and 5.8GHz	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16	kg	8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/>
C054025B004A	PTP 250 5GHz Connectorised (FCC/IC) - End Complete - 5.4 and 5.8GHz	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7	kg	8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C054025B005A	PTP 250 5GHz Integrated (ETSI/RoW) - Link Complete	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16 kg		8517620050	China	5A992.a	5A992.a	Obsolete	ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/> DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B006A	PTP 250 5GHz Integrated (ETSI/RoW) - End Complete	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7.5 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B007A	PTP 250 5GHz Integrated (FCC/IC) - Link Complete - 5.4 and 5.8GHz	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B008A	PTP 250 5GHz Integrated (FCC/IC) - End Complete - 5.4 and 5.8GHz	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7.5 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B009A	PTP 250 5GHz Connectorised (ETSI/RoW) AES128 - Link Complete	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B010A	PTP 250 5GHz Connectorised (ETSI/RoW) AES128 - End Complete	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B011A	PTP 250 5GHz Integrated (ETSI/RoW) AES128 - Link Complete	USD	\$4,995.00	PTP : Un-Licensed : PTP250	Backhaul	16 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	DN-1170 ECO-004779 to Obsolete Eng. Status <input type="checkbox"/> <input type="checkbox"/> End Of Life as of August 1st, 2015 <input type="checkbox"/> <input type="checkbox"/>
C054025B012A	PTP 250 5GHz Integrated (ETSI/RoW) AES128 - End Complete	USD	\$2,497.00	PTP : Un-Licensed : PTP250	Backhaul	7.5 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	DN-1170 25-Oct Temp reactivate as there are 122 5782CJH tanapa available in stock <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
C054045A001A	PMP450 CONNECTORIZED WIDEBAND ACCESS POINT	USD	\$2,895.00	PMP : PMP450	Access Point	1.95 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Pending Obsolete	The PMP 450i Access Points are a direct replacement <input type="checkbox"/> <input type="checkbox"/> Pending Obsolete until stock is depleted in DC. <input type="checkbox"/> <input type="checkbox"/> Do not want to order more from Flex 27-Dec-2016 Temp reactivate <input type="checkbox"/> <input type="checkbox"/> The PMP 450i Access Points are a direct replacement <input type="checkbox"/> <input type="checkbox"/> Pending Obsolete until stock is depleted in DC. <input type="checkbox"/> <input type="checkbox"/>
C054045A002A	PMP450 CONNECTORIZED WIDEBAND ACCESS POINT (FCC)	USD	\$2,895.00	PMP : PMP450	Access Point	1.95 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Pending Obsolete	Do not want to order more from Flex <input type="checkbox"/>

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Access Point								17-Aug-2016 ☐ Temp reactivate per Matt M. ☐ ☐ Item Obsolete ☐ ☐ The PMP 450i Access Points are a direct replacement 25-Oct-2016 ☐ Temp reactivate ☐ ☐ The PMP 450i Access Points are a direct replacement ☐
C054045A003A	PMP 450 Connectorized Wideband Access Point, DES	USD	\$2,895.00 PMP : PMP450			1.95 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Access Point								☐ Do not want to order more from Flex 27-Dec-2016 Temp reactivate ☐ ☐ The PMP 450i Access Points are a direct replacement ☐ ☐ Pending Obsolete until stock is depleted in DC. ☐ ☐ Do not want to order more from Flex
C054045A011A	5 GHz PMP 450 Connectorized Access Point - Lite	USD	\$1,449.00 PMP : PMP450			1.95 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Pending Obsolete	
					Access Point								
C054045A012A	5 GHz PMP 450 Connectorized Access Point (FCC) - Lite	USD	\$1,449.00 PMP : PMP450			1.95 kg		8517620050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Pending Obsolete	
C054045B001A	PTP 450 5 GHz END - Integrated (ROW)	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.5 kg		8517.62.0050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Released	
C054045B002A	PTP 450 5 GHz END - Connectorized (ROW)	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.66 kg		8517.62.0050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Released	
C054045B003A	PTP 450 5 GHz END - Integrated (ROW) - DES Only	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.5 kg		8517.62.0050	Mexico	5A992.a .a	5A992.a .a	Released	
C054045B004A	PTP 450 5 GHz END - Connectorized (ROW) - DES Only	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.66 kg		8517.62.0050	Mexico	5A992.a .a	5A992.a .a	Released	
C054045B005A	PTP 450 5 GHz END - Integrated (FCC)	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.5 kg		8517.62.0050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Released	
C054045B006A	PTP 450 5 GHz END - Connectorized (FCC)	USD	\$595.00 PTP : Un-Licensed : PTP450		Backhaul	0.66 kg		8517.62.0050	Mexico	5A002.a.1 .a	5A002.a.1 .a	Released	
					CPE,SM or RM								Tanapa 5792HH obsolete ☐ Can now order C054045C001B instead ☐ (5792JH tanapa) ☐ ☐
C054045C001A	PMP450 SUBSCRIBER MODULE - 4 MBPS THROUGHPUT	USD	\$249.00 PMP : PMP450			0.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	ECO-004274 to update Eng. status
C054045C001B	5 GHz PMP 450 Integrated Subscriber Module, 4 Mbps	USD	\$249.00 PMP : PMP450		CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
					CPE,SM or RM								Tanapa 5792HH obsolete ☐ Can now order C054045C002B instead ☐ (5792JH tanapa) ☐ ☐
C054045C002A	PMP450 SUBSCRIBER MODULE - 10 MBPS THROUGHPUT	USD	\$299.00 PMP : PMP450			0.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	ECO-004274 to update Eng. status
C054045C002B	5 GHz PMP 450 Integrated Subscriber Module, 10 Mbps	USD	\$299.00 PMP : PMP450		CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
					CPE,SM or RM								Tanapa 5792HH obsolete ☐ Can now order C054045C003B instead ☐ (5792JH tanapa) ☐ ☐
C054045C003A	PMP450 SUBSCRIBER MODULE - 20 MBPS THROUGHPUT	USD	\$349.00 PMP : PMP450			0.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	ECO-004274 to update Eng. status
C054045C003B	5 GHz PMP 450 Integrated Subscriber Module, 20 Mbps	USD	\$349.00 PMP : PMP450		CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
					CPE,SM or RM								Tanapa 5792HH obsolete ☐ Can now order C054045C004B instead ☐ (5792JH tanapa) ☐ ☐ ECO-004274 to update Eng. status ☐ ☐
C054045C004A	PMP450 SUBSCRIBER MODULE - UNCAPPED THROUGHPUT	USD	\$449.00 PMP : PMP450			0.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	11-April-2017 Stock depleted - Obsoleting
C054045C004B	5 GHz PMP 450 Integrated Subscriber Module, Uncapped	USD	\$449.00 PMP : PMP450		CPE,SM or RM	0.5 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C054045C005A	5 GHz PMP 450 Connectorized Subscriber Module, 4 Mbps	USD	\$289.00 PMP : PMP450		CPE,SM or RM	1 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
C054045C005B	5 GHz PMP 450 Connectorized Subscriber Module, 4 Mbps	USD	\$289.00 PMP : PMP450		CPE,SM or RM	0.66 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C054045C006A	5 GHz PMP 450 Connectorized Subscriber Module, 10 Mbps	USD	\$339.00 PMP : PMP450		CPE,SM or RM	1 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
C054045C006B	5 GHz PMP 450 Connectorized Subscriber Module, 10 Mbps	USD	\$339.00 PMP : PMP450		CPE,SM or RM	0.66 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C054045C007A	5 GHz PMP 450 Connectorized Subscriber Module, 20 Mbps	USD	\$389.00 PMP : PMP450		CPE,SM or RM	2.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
C054045C007B	5 GHz PMP 450 Connectorized Subscriber Module, 20 Mbps	USD	\$389.00 PMP : PMP450		CPE,SM or RM	0.66 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C054045C008A	5 GHz PMP 450 Connectorized Subscriber Module, Uncapped	USD	\$489.00 PMP : PMP450		CPE,SM or RM	2.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
C054045C008B	5 GHz PMP 450 Connectorized Subscriber Module, Uncapped	USD	\$489.00 PMP : PMP450		CPE,SM or RM	0.66 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
					CPE,SM or RM								ECO-004071 created to Obsolete part. Once approved with change EMEA status. <input type="checkbox"/>
													<input type="checkbox"/>
													Customer can now order the "B" version : C054045C009B
C054045C009A	PMP 450 Subscriber Module, NGI	USD	\$449.00 PMP : PMP450			0.5 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
C054045H013B	5 GHz PMP 450d 40 Mbps - 4 Pack Overpack	USD	\$1,596.00 PMP : PMP450		Kit or Mixed Components	21.4 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
C054045H014B	5 GHz PMP 450d Uncapped - 4 Pack Overpack	USD	\$1,876.00 PMP : PMP450		Kit or Mixed Components	21.4 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
					Backhaul								According to DN-1135 PTP500 EOL Notice: <input type="checkbox"/>
													PTP 500 Sales Models Still Available <input type="checkbox"/>
													Will remain available until further notice and are not included in this end-of-sale notice. However, stock levels are limited <input type="checkbox"/>
C054050B001A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500			16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	and may change on a daily basis.
C054050B002A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/>
C054050B003A	PTP 54500 (25Mbps) Connectorised (FCC/IC) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
					Backhaul								Distributor Notice DN-1135 Item Obsolete <input type="checkbox"/>
													<input type="checkbox"/>
C054050B004A	PTP 54500 (25Mbps) Connectorised (FCC/IC) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP300			8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. <input type="checkbox"/>
													No longer saleable
													END OF LIFE: <input type="checkbox"/>
C054050B005A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B006A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B007A	PTP 54500 (25Mbps) Integrated (FCC/IC) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B008A	PTP 54500 (25Mbps) Integrated (FCC/IC) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B009A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - Link Complete - INTL	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B010A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete - INTL	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B011A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - End Complete - INTL	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B012A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - End Complete - INTL	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B013A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - Link Complete - AUS	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16.2 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B014A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete - AUS	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16.2 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B015A	PTP 54500 (25Mbps) Integrated (ETSI/RoW) - End Complete - AUS	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8.1 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													END OF LIFE: <input type="checkbox"/>
C054050B016A	PTP 54500 (25Mbps) Connectorised (ETSI/RoW) - End Complete - AUS	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8.1 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135
													<input type="checkbox"/>

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C058010A000A	CFPO PMP 100 5.8 GHz AP 6 Pack	USD	\$2,400.00 PMP : PMP100		Access Point	0.12345	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Item Obsolete <input type="checkbox"/> Obsolete or Deprecated in Arena. <input type="checkbox"/> No longer saleable According to DN-1135 <input type="checkbox"/> PTP500 EOL Notice: <input type="checkbox"/>
					Backhaul								This PTP 500 Sales Model Still Available <input type="checkbox"/> Will remain available until further notice and are not included in this end-of-sale notice. However, stock levels are limited <input type="checkbox"/> and may change on a daily basis.
C058050B001A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/>
C058050B002A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP300		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B003A	PTP 58500 (25Mbps) Connectorised (FCC/IC) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B004A	PTP 58500 (25Mbps) Connectorised (FCC/IC) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B005A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B006A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B007A	PTP 58500 (25Mbps) Integrated (FCC/IC) - Link Complete	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B008A	PTP 58500 (25Mbps) Integrated (FCC/IC) - End Complete	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B009A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - Link Complete - INTL	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B010A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete - INTL	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B011A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - End Complete - INTL	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B012A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - End Complete - INTL	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B013A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - Link Complete - AUS	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16.2	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B014A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - Link Complete - AUS	USD	\$4,799.00 PTP : Un-Licensed : PTP500		Backhaul	16.2	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B015A	PTP 58500 (25Mbps) Integrated (ETSI/RoW) - End Complete - AUS	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8.1	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058050B016A	PTP 58500 (25Mbps) Connectorised (ETSI/RoW) - End Complete - AUS	USD	\$2,599.00 PTP : Un-Licensed : PTP500		Backhaul	8.1	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Distributor Notice DN-1135 END OF LIFE: <input type="checkbox"/>
C058082M001A	PTP 820 RFU-A Extended modulation, 5.8_6LGHZ	USD	\$11,750.00 PTP : Licensed : PTP820		Modem	2.4	kg	8517.62.0050	Taiwan	5A991.b.7	5A991	Released	Fully Released
C060082B001A	PTP 820S Radio 6LGHZ,TR65A,Ch1W3,Hi,5790-5820MHz	USD	\$3,500.00 PTP : Licensed : PTP820		Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B002A	PTP 820S Radio 6LGHZ,TR65A,Ch1W3,Lo,5725-5755MHz	USD	\$3,500.00 PTP : Licensed : PTP820		Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B003A	PTP 820S Radio 6LGHZ,TR65A,Ch4W6,Hi,5820-5850MHz	USD	\$3,500.00 PTP : Licensed : PTP820		Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B004A	PTP 820S Radio 6LGHZ,TR65A,Ch4W6,Lo,5755-5785MHz	USD	\$3,500.00 PTP : Licensed : PTP820		Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C060082B005A	PTP 820S Radio 6LGHZ,TR240A,Ch1W3,Hi,6176-6294MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B006A	PTP 820S Radio 6LGHZ,TR240A,Ch1W3,Lo,5936-6054MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B007A	PTP 820S Radio 6LGHZ,TR240A,Ch4W6,Hi,6296-6414MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B008A	PTP 820S Radio 6LGHZ,TR240A,Ch4W6,Lo,6056-6174MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B009A	PTP 820S Radio 6LGHZ,TR252A,Ch1W4,Hi,6179.415-6304.015MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B010A	PTP 820S Radio 6LGHZ,TR252A,Ch1W4,Lo,5927.375-6051.975MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B011A	PTP 820S Radio 6LGHZ,TR252A,Ch3W6,Hi,6238.715-6363.315MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B012A	PTP 820S Radio 6LGHZ,TR252A,Ch3W6,Lo,5986.675-6111.275MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B013A	PTP 820S Radio 6LGHZ,TR252A,Ch5W8,Hi,6298.015-6422.615MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B014A	PTP 820S Radio 6LGHZ,TR252A,Ch5W8,Lo,6045.975-6170.575MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	PTP 820-01-00 Phase 1
C060082B019A	PTP 820S Radio 6LGHZ,TR260B,Ch1W3,Hi,6185-6305MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B020A	PTP 820S Radio 6LGHZ,TR260B,Ch1W3,Lo,5925-6045MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B021A	PTP 820S Radio 6LGHZ,TR260B,Ch4W6,Hi,6305-6425MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B022A	PTP 820S Radio 6LGHZ,TR260B,Ch4W6,Lo,6045-6165MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B023A	PTP 820S Radio 6LGHZ,TR266A,Ch1W4,Hi,6191.5-6306.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B024A	PTP 820S Radio 6LGHZ,TR266A,Ch1W4,Lo,5925.5-6040.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B025A	PTP 820S Radio 6LGHZ,TR266A,Ch5W8,Hi,6303.5-6418.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B026A	PTP 820S Radio 6LGHZ,TR266A,Ch5W8,Lo,6037.5-6152.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Phase II
C060082B027A	PTP 820S Radio 6HGHZ,TR150A,Ch1W3,Hi,7025-7100MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	
C060082B028A	PTP 820S Radio 6HGHZ,TR150A,Ch1W3,Lo,6875-6950MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	
C060082B029A	PTP 820S Radio 6HGHZ,TR150A,Ch2W4,Hi,7050-7125MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	
C060082B030A	PTP 820S Radio 6HGHZ,TR150A,Ch2W4,Lo,6900-6975MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	
C060082B031A	PTP 820S Radio 6HGHZ,TR160A,Ch1W6,Hi,6707.5-6772.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B032A	PTP 820S Radio 6HGHZ,TR160A,Ch1W6,Lo,6537.5-6612.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B033A	PTP 820S Radio 6HGHZ,TR160A,Ch7W12,Hi,6767.5-6832.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B034A	PTP 820S Radio 6HGHZ,TR160A,Ch7W12,Lo,6607.5-6672.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B035A	PTP 820S Radio 6HGHZ,TR160A,Ch13W16,Hi,6827.5-6872.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B036A	PTP 820S Radio 6HGHZ,TR160A,Ch13W16,Lo,6667.5-6712.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	Fully Released
C060082B037A	PTP 820S Radio 6HGHZ,TR340A,Ch1W4,Hi,6781-6939MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	
C060082B038A	PTP 820S Radio 6HGHZ,TR340A,Ch1W4,Lo,6441-6599MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	.a	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C060082B039A	PTP 820S Radio 6HGhz,TR340A,Ch5W8,Hi,6941-7099MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7		Released	
C060082B040A	PTP 820S Radio 6HGhz,TR340A,Ch5W8,Lo,6601-6759MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C060082B041A	PTP 820C Radio 6LGHZ,TR65A,Ch1W3,Hi,5790-5820MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B042A	PTP 820C Radio 6LGHZ,TR65A,Ch1W3,Lo,5725-5755MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B043A	PTP 820C Radio 6LGHZ,TR65A,Ch4W6,Hi,5820-5850MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B044A	PTP 820C Radio 6LGHZ,TR65A,Ch4W6,Lo,5755-5785MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B045A	PTP 820C Radio 6LGHZ,TR240A,Ch1W3,Hi,6176-6294MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B046A	PTP 820C Radio 6LGHZ,TR240A,Ch1W3,Lo,5936-6054MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B047A	PTP 820C Radio 6LGHZ,TR240A,Ch4W6,Hi,6296-6414MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B048A	PTP 820C Radio 6LGHZ,TR240A,Ch4W6,Lo,6056-6174MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B049A	PTP 820C Radio 6LGHZ,TR252A,Ch1W4,Hi,6179.415-6304.015MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C060082B050A	PTP 820C Radio 6LGHZ,TR252A,Ch1W4,Lo,5927.375-6051.975MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C060082B051A	PTP 820C Radio 6LGHZ,TR252A,Ch3W6,Hi,6238.715-6363.315MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C060082B052A	PTP 820C Radio 6LGHZ,TR252A,Ch3W6,Lo,5986.675-6111.275MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C060082B053A	PTP 820C Radio 6LGHZ,TR252A,Ch5W8,Hi,6298.015-6422.615MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C060082B054A	PTP 820C Radio 6LGHZ,TR252A,Ch5W8,Lo,6045.975-6170.575MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C060082B059A	PTP 820C Radio 6LGHZ,TR260B,Ch1W3,Hi,6185-6305MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B060A	PTP 820C Radio 6LGHZ,TR260B,Ch1W3,Lo,5925-6045MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B061A	PTP 820C Radio 6LGHZ,TR260B,Ch4W6,Hi,6305-6425MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B062A	PTP 820C Radio 6LGHZ,TR260B,Ch4W6,Lo,6045-6165MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B063A	PTP 820C Radio 6LGHZ,TR266A,Ch1W4,Hi,6191.5-6306.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B064A	PTP 820C Radio 6LGHZ,TR266A,Ch1W4,Lo,5925.5-6040.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B065A	PTP 820C Radio 6LGHZ,TR266A,Ch5W8,Hi,6303.5-6418.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B066A	PTP 820C Radio 6LGHZ,TR266A,Ch5W8,Lo,6037.5-6152.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B067A	PTP 820C Radio 6HGhz,TR150A,Ch1W3,Hi,7025-7100MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B068A	PTP 820C Radio 6HGhz,TR150A,Ch1W3,Lo,6875-6950MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B069A	PTP 820C Radio 6HGhz,TR150A,Ch2W4,Hi,7050-7125MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B070A	PTP 820C Radio 6HGhz,TR150A,Ch2W4,Lo,6900-6975MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B071A	PTP 820C Radio 6HGhz,TR160A,Ch1W6,Hi,6707.5-6772.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B072A	PTP 820C Radio 6HGhz,TR160A,Ch1W6,Lo,6537.5-6612.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C060082B073A	PTP 820C Radio 6HGHZ,TR160A,Ch7W12,Hi,6767.5-6832.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B074A	PTP 820C Radio 6HGHZ,TR160A,Ch7W12,Lo,6607.5-6672.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B075A	PTP 820C Radio 6HGHZ,TR160A,Ch13W16,Hi,6827.5-6872.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.9	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B076A	PTP 820C Radio 6HGHZ,TR160A,Ch13W16,Lo,6667.5-6712.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.9	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B077A	PTP 820C Radio 6HGHZ,TR340A,Ch1W4,Hi,6781-6939MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B078A	PTP 820C Radio 6HGHZ,TR340A,Ch1W4,Lo,6441-6599MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B079A	PTP 820C Radio 6HGHZ,TR340A,Ch5W8,Hi,6941-7099MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082B080A	PTP 820C Radio 6HGHZ,TR340A,Ch5W8,Lo,6601-6759MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C060082L001A	PTP 820C Radio 6LGHZ,TR252A,Ch1W4,Non-MIMO,Hi,6179.415-6304.015MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082L002A	PTP 820C Radio 6LGHZ,TR252A,Ch1W4,Non-MIMO,Lo,5927.375-6051.975MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082L003A	PTP 820C Radio 6LGHZ,TR252A,Ch3W6,Non-MIMO,Hi,6238.715-6363.315MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082L004A	PTP 820C Radio 6LGHZ,TR252A,Ch3W6,Non-MIMO,Lo,5986.675-6111.275MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082L005A	PTP 820C Radio 6LGHZ,TR252A,Ch5W8,Non-MIMO,Hi,6298.015-6422.615MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082L006A	PTP 820C Radio 6LGHZ,TR252A,Ch5W8,Non-MIMO,Lo,6045.975-6170.575MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 <input type="checkbox"/> Per Allen Yu, item should be unavailable to order/Obsolete
C060082M127A	PTP 820 RFU-A Extended modulation, 6HGHZ	USD	\$11,750.00	PTP : Licensed : PTP820	Modem	7.2	kg	8517.62.0050	Taiwan	5A991.b.7	5A991	Released	Fully Released
C060082M128A	PTP 820 RFU-A Extended Premium modulation, 6HGHZ	USD	\$13,500.00	PTP : Licensed : PTP820	Backhaul	7.2	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C060082R081A	PTP 820 RFU-C,6LGHZ,TR240A,Ch1W3,Hi,6176-6294MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C060082R082A	PTP 820 RFU-C,6LGHZ,TR240A,Ch1W3,Lo,5936-6054MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C060082R083A	PTP 820 RFU-C,6LGHZ,TR240A,Ch4W6,Hi,6296-6414MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C060082R084A	PTP 820 RFU-C,6LGHZ,TR240A,Ch4W6,Lo,6056-6174MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C060082R085A	PTP 820 RFU-C,6LGHZ,TR252A,Ch1W4,Hi,6181.74-6301.69MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R086A	PTP 820 RFU-C,6LGHZ,TR252A,Ch1W4,Lo,5929.7-6049.65MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R087A	PTP 820 RFU-C,6LGHZ,TR252A,Ch3W6,Hi,6241.04-6360.99MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R088A	PTP 820 RFU-C,6LGHZ,TR252A,Ch3W6,Lo,5989-6108.95MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R089A	PTP 820 RFU-C,6LGHZ,TR252A,Ch5W8,Hi,6300.34-6420.29MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R090A	PTP 820 RFU-C,6LGHZ,TR252A,Ch5W8,Lo,6048.3-6168.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase I
C060082R095A	PTP 820 RFU-C,6LGHZ,TR260A,Ch1W2,Hi,6187-6303MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C060082R096A	PTP 820 RFU-C,6LGHZ,TR260A,Ch1W2,Lo,5927-6043MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7		Released Phase II	
C060082R097A	PTP 820 RFU-C,6LGHZ,TR260A,Ch3W4,Hi,6307-6423MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R098A	PTP 820 RFU-C,6LGHZ,TR260A,Ch3W4,Lo,6047-6163MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R099A	PTP 820 RFU-C,6LGHZ,TR266A,Ch1W4,Hi,6191.5-6306.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R100A	PTP 820 RFU-C,6LGHZ,TR266A,Ch1W4,Lo,5925.5-6040.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R101A	PTP 820 RFU-C,6LGHZ,TR266A,Ch5W8,Hi,6303.5-6418.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	5.9 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R102A	PTP 820 RFU-C,6LGHZ,TR266A,Ch5W8,Lo,6037.5-6152.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	5.9 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R103A	PTP 820 RFU-C,6LGHZ,TR300A,Ch2W3,Hi,6272-6393MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R104A	PTP 820 RFU-C,6LGHZ,TR300A,Ch2W3,Lo,5972-6093MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R105A	PTP 820 RFU-C,6HGHZ,TR160A,Ch1W6,Hi,6707.5-6772.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R106A	PTP 820 RFU-C,6HGHZ,TR160A,Ch1W6,Lo,6537.5-6612.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R107A	PTP 820 RFU-C,6HGHZ,TR160A,Ch7W12,Hi,6767.5-6832.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R108A	PTP 820 RFU-C,6HGHZ,TR160A,Ch7W12,Lo,6607.5-6672.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R109A	PTP 820 RFU-C,6HGHZ,TR160A,Ch13W16,Hi,6827.5-6872.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R110A	PTP 820 RFU-C,6HGHZ,TR160A,Ch13W16,Lo,6667.5-6712.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R111A	PTP 820 RFU-C,6HGHZ,TR340A,Ch1W4,Hi,6781-6939MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R112A	PTP 820 RFU-C,6HGHZ,TR340A,Ch1W4,Lo,6441-6599MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R113A	PTP 820 RFU-C,6HGHZ,TR340A,Ch5W8,Hi,6941-7099MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R114A	PTP 820 RFU-C,6HGHZ,TR340A,Ch5W8,Lo,6601-6759MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R115A	PTP 820 RFU-C,6HGHZ,TR340B,Ch1W4,Hi,6761-6919MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R116A	PTP 820 RFU-C,6HGHZ,TR340B,Ch1W4,Lo,6421-6579MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R117A	PTP 820 RFU-C,6HGHZ,TR340B,Ch5W8,Hi,6921-7079MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R118A	PTP 820 RFU-C,6HGHZ,TR340B,Ch5W8,Lo,6581-6739MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R119A	PTP 820 RFU-C,6HGHZ,TR340C,Ch1W2,Hi,7032.5-7091.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R120A	PTP 820 RFU-C,6HGHZ,TR340C,Ch1W2,Lo,6692.5-6751.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R121A	PTP 820 RFU-C,6HGHZ,TR340D,Ch6W10,Hi,6935-7085MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R122A	PTP 820 RFU-C,6HGHZ,TR340D,Ch6W10,Lo,6595-6745MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R123A	PTP 820 RFU-C,6HGHZ,TR340D,Ch7W11,Hi,6965-7115MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R124A	PTP 820 RFU-C,6HGHZ,TR340D,Ch7W11,Lo,6625-6775MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C060082R125A	PTP 820 RFU-C,6HGHZ,TR500A,Ch1W4,Hi,6920-7080MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C060082R126A	PTP 820 RFU-C,6GHZ,TR500A,Ch1W4,Lo,6420-6580MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082B001A	PTP 820S Radio 7GHz,TR154A,Ch1W2,Hi,7580.5-7639.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B002A	PTP 820S Radio 7GHz,TR154A,Ch1W2,Lo,7426.5-7485.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B003A	PTP 820S Radio 7GHz,TR154A,Ch2W3,Hi,7608.5-7667.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B004A	PTP 820S Radio 7GHz,TR154A,Ch2W3,Lo,7454.5-7513.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B005A	PTP 820S Radio 7GHz,TR154A,Ch3W4,Hi,7636.5-7695.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B006A	PTP 820S Radio 7GHz,TR154A,Ch3W4,Lo,7482.5-7541.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B007A	PTP 820S Radio 7GHz,TR154A,Ch4W5,Hi,7664.5-7723.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B008A	PTP 820S Radio 7GHz,TR154A,Ch4W5,Lo,7510.5-7569.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B009A	PTP 820S Radio 7GHz,TR154C,Ch1W2,Hi,7280.5-7339.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B010A	PTP 820S Radio 7GHz,TR154C,Ch1W2,Lo,7126.5-7185.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B011A	PTP 820S Radio 7GHz,TR154C,Ch2W3,Hi,7308.5-7367.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B012A	PTP 820S Radio 7GHz,TR154C,Ch2W3,Lo,7154.5-7213.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B013A	PTP 820S Radio 7GHz,TR154C,Ch3W4,Hi,7336.5-7395.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B014A	PTP 820S Radio 7GHz,TR154C,Ch3W4,Lo,7182.5-7241.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B015A	PTP 820S Radio 7GHz,TR154C,Ch4W5,Hi,7364.5-7423.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B016A	PTP 820S Radio 7GHz,TR154C,Ch4W5,Lo,7210.5-7269.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B017A	PTP 820S Radio 7GHz,TR161A,Ch1W2,Hi,7284-7343MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B018A	PTP 820S Radio 7GHz,TR161A,Ch1W2,Lo,7123-7182MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B021A	PTP 820S Radio 7GHz,TR161A,Ch3W4,Hi,7340-7399MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	.a	5A991	Released	Fully Released
C070082B022A	PTP 820S Radio 7GHz,TR161A,Ch3W4,Lo,7179-7238MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C070082B023A	PTP 820S Radio 7GHz,TR161A,Ch4W5,Hi,7368-7427MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	
C070082B024A	PTP 820S Radio 7GHz,TR161A,Ch4W5,Lo,7207-7266MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C070082B025A	PTP 820S Radio 7GHz,TR161J,Ch1W2,Hi,7573.5-7632.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	
C070082B026A	PTP 820S Radio 7GHz,TR161J,Ch1W2,Lo,7412.5-7471.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C070082B033A	PTP 820S Radio 7GHz,TR168B,Ch2W3,Hi,7637.5-7696.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	.a	5A991	Released	
C070082B034A	PTP 820S Radio 7GHz,TR168B,Ch2W3,Lo,7469.5-7528.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C070082B045A	PTP 820C Radio 7GHz,TR154A,Ch1W2,Hi,7580.5-7639.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	.a	5A991	Released	PTP 820-01-00 Phase 2
C070082B046A	PTP 820C Radio 7GHz,TR154A,Ch1W2,Lo,7426.5-7485.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C070082B047A	PTP 820C Radio 7GHz,TR154A,Ch2W3,Hi,7608.5-7667.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	.a	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082B048A	PTP 820C Radio 7GHz,TR154A,Ch2W3,Lo,7454.5-7513.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B049A	PTP 820C Radio 7GHz,TR154A,Ch3W4,Hi,7636.5-7695.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B050A	PTP 820C Radio 7GHz,TR154A,Ch3W4,Lo,7482.5-7541.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B051A	PTP 820C Radio 7GHz,TR154A,Ch4W5,Hi,7664.5-7723.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B052A	PTP 820C Radio 7GHz,TR154A,Ch4W5,Lo,7510.5-7569.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B053A	PTP 820C Radio 7GHz,TR154C,Ch1W2,Hi,7280.5-7339.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B054A	PTP 820C Radio 7GHz,TR154C,Ch1W2,Lo,7126.5-7185.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B055A	PTP 820C Radio 7GHz,TR154C,Ch2W3,Hi,7308.5-7367.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B056A	PTP 820C Radio 7GHz,TR154C,Ch2W3,Lo,7154.5-7213.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B057A	PTP 820C Radio 7GHz,TR154C,Ch3W4,Hi,7336.5-7395.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B058A	PTP 820C Radio 7GHz,TR154C,Ch3W4,Lo,7182.5-7241.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B059A	PTP 820C Radio 7GHz,TR154C,Ch4W5,Hi,7364.5-7423.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B060A	PTP 820C Radio 7GHz,TR154C,Ch4W5,Lo,7210.5-7269.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B061A	PTP 820C Radio 7GHz,TR161A,Ch1W2,Hi,7284-7343MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C070082B062A	PTP 820C Radio 7GHz,TR161A,Ch1W2,Lo,7123-7182MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C070082B063A	PTP 820C Radio 7GHz,TR161A,Ch2W3,Hi,7312-7371MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B064A	PTP 820C Radio 7GHz,TR161A,Ch2W3,Lo,7151-7210MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B065A	PTP 820C Radio 7GHz,TR161A,Ch3W4,Hi,7340-7399MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B066A	PTP 820C Radio 7GHz,TR161A,Ch3W4,Lo,7179-7238MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B067A	PTP 820C Radio 7GHz,TR161A,Ch4W5,Hi,7368-7427MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B068A	PTP 820C Radio 7GHz,TR161A,Ch4W5,Lo,7207-7266MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B069A	PTP 820C Radio 7GHz,TR161J,Ch1W2,Hi,7573.5-7632.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B070A	PTP 820C Radio 7GHz,TR161J,Ch1W2,Lo,7412.5-7471.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B071A	PTP 820C Radio 7GHz,TR161J,Ch2W3,Hi,7601.5-7660.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B072A	PTP 820C Radio 7GHz,TR161J,Ch2W3,Lo,7440.5-7499.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B073A	PTP 820C Radio 7GHz,TR161J,Ch4W5,Hi,7657.5-7716.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B074A	PTP 820C Radio 7GHz,TR161J,Ch4W5,Lo,7496.5-7555.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B075A	PTP 820C Radio 7GHz,TR168B,Ch1W2,Hi,7609.5-7668.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B076A	PTP 820C Radio 7GHz,TR168B,Ch1W2,Lo,7441.5-7500.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B077A	PTP 820C Radio 7GHz,TR168B,Ch2W3,Hi,7637.5-7696.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082B078A	PTP 820C Radio 7GHz,TR168B,Ch2W3,Lo,7469.5-7528.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B079A	PTP 820C Radio 7GHz,TR168B,Ch4W5,Hi,7693.5-7752.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B080A	PTP 820C Radio 7GHz,TR168B,Ch4W5,Lo,7525.5-7584.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B081A	PTP 820C Radio 7GHz,TR196A,Ch1W3,Hi,7301.5-7388.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B082A	PTP 820C Radio 7GHz,TR196A,Ch1W3,Lo,7105.5-7192.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B083A	PTP 820C Radio 7GHz,TR196A,Ch3W5,Hi,7357.5-7444.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B084A	PTP 820C Radio 7GHz,TR196A,Ch3W5,Lo,7161.5-7248.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B085A	PTP 820C Radio 7GHz,TR245A,Ch1W4,Hi,7671.5-7786.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B086A	PTP 820C Radio 7GHz,TR245A,Ch1W4,Lo,7426.5-7541.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B087A	PTP 820C Radio 7GHz,TR245A,Ch5W8,Hi,7783.5-7898.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B088A	PTP 820C Radio 7GHz,TR245A,Ch5W8,Lo,7538.5-7653.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C070082B316A	PTP 820C Radio 7GHz,TR161B,Ch1W2,Hi,7409-7468MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C070082B317A	PTP 820C Radio 7GHz,TR161B,Ch1W2,Lo,7248-7307MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C070082D318A	6 ft High Performance Antenna, single-polarized, 7.125-8.500 GHz, UBR84	USD	\$8,820.00	PTP : Licensed : PTP820	Antenna	193 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
C070082R089A	PTP 820 RFU-C,7GHz,TR151A,Ch1W2,Hi,7274-7323MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R090A	PTP 820 RFU-C,7GHz,TR151A,Ch1W2,Lo,7122-7171MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R091A	PTP 820 RFU-C,7GHz,TR151A,Ch3W4,Hi,7320-7370MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R092A	PTP 820 RFU-C,7GHz,TR151A,Ch3W4,Lo,7169-7218MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R093A	PTP 820 RFU-C,7GHz,TR151A,Ch5W6,Hi,7367-7416MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R094A	PTP 820 RFU-C,7GHz,TR151A,Ch5W6,Lo,7215-7265MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R095A	PTP 820 RFU-C,7GHz,TR154A,Ch1W2,Hi,7580.5-7639.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517620050	Philippines	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C070082R096A	PTP 820 RFU-C,7GHz,TR154A,Ch1W2,Lo,7426.5-7485.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517620050	Philippines	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C070082R103A	PTP 820 RFU-C,7GHz,TR154B,Ch1W2,Hi,7594.5-7653.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R104A	PTP 820 RFU-C,7GHz,TR154B,Ch1W2,Lo,7440.5-7499.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R105A	PTP 820 RFU-C,7GHz,TR154B,Ch2W3,Hi,7622.5-7681.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R106A	PTP 820 RFU-C,7GHz,TR154B,Ch2W3,Lo,7468.5-7527.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R107A	PTP 820 RFU-C,7GHz,TR154B,Ch4W5,Hi,7678.5-7737.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R108A	PTP 820 RFU-C,7GHz,TR154B,Ch4W5,Lo,7524.5-7583.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R109A	PTP 820 RFU-C,7GHz,TR154C,Ch1W2,Hi,7280.5-7339.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R110A	PTP 820 RFU-C,7GHz,TR154C,Ch1W2,Lo,7126.5-7185.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R111A	PTP 820 RFU-C,7GHz,TR154C,Ch2W3,Hi,7308.5-7367.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7		Released Phase II	
C070082R112A	PTP 820 RFU-C,7GHz,TR154C,Ch2W3,Lo,7154.5-7213.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R113A	PTP 820 RFU-C,7GHz,TR154C,Ch3W4,Hi,7336.5-7395.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R114A	PTP 820 RFU-C,7GHz,TR154C,Ch3W4,Lo,7182.5-7241.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R115A	PTP 820 RFU-C,7GHz,TR154C,Ch4W5,Hi,7364.5-7423.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R116A	PTP 820 RFU-C,7GHz,TR154C,Ch4W5,Lo,7210.5-7269.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R117A	PTP 820 RFU-C,7GHz,TR154F,Ch1W3,Hi,7580.5-7667.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R118A	PTP 820 RFU-C,7GHz,TR154F,Ch1W3,Lo,7426.5-7513.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R119A	PTP 820 RFU-C,7GHz,TR154F,Ch3W5,Hi,7636.5-7723.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R120A	PTP 820 RFU-C,7GHz,TR154F,Ch3W5,Lo,7482.5-7569.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R121A	PTP 820 RFU-C,7GHz,TR154G,Ch1W2,Hi,7273.5-7339.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R122A	PTP 820 RFU-C,7GHz,TR154G,Ch1W2,Lo,7119.5-7185.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R123A	PTP 820 RFU-C,7GHz,TR154G,Ch3W4,Hi,7343.5-7409.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R124A	PTP 820 RFU-C,7GHz,TR154G,Ch3W4,Lo,7189.5-7255.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R125A	PTP 820 RFU-C,7GHz,TR154H,Ch1WD,Hi,7405-7435MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R126A	PTP 820 RFU-C,7GHz,TR154H,Ch1WD,Lo,7251-7281MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R127A	PTP 820 RFU-C,7GHz,TR161A,Ch1W2,Hi,7284-7343MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R128A	PTP 820 RFU-C,7GHz,TR161A,Ch1W2,Lo,7123-7182MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R129A	PTP 820 RFU-C,7GHz,TR161A,Ch2W3,Hi,7312-7371MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R130A	PTP 820 RFU-C,7GHz,TR161A,Ch2W3,Lo,7151-7210MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R131A	PTP 820 RFU-C,7GHz,TR161A,Ch3W4,Hi,7340-7399MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R132A	PTP 820 RFU-C,7GHz,TR161A,Ch3W4,Lo,7179-7238MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R133A	PTP 820 RFU-C,7GHz,TR161A,Ch4W5,Hi,7368-7427MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R134A	PTP 820 RFU-C,7GHz,TR161A,Ch4W5,Lo,7207-7266MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R135A	PTP 820 RFU-C,7GHz,TR161B,Ch1W2,Hi,7409-7468MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R136A	PTP 820 RFU-C,7GHz,TR161B,Ch1W2,Lo,7248-7307MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R137A	PTP 820 RFU-C,7GHz,TR161B,Ch2W3,Hi,7437-7496MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R138A	PTP 820 RFU-C,7GHz,TR161B,Ch2W3,Lo,7276-7335MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R139A	PTP 820 RFU-C,7GHz,TR161B,Ch3W4,Hi,7465-7524MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R140A	PTP 820 RFU-C,7GHz,TR161B,Ch3W4,Lo,7304-7363MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R141A	PTP 820 RFU-C,7GHz,TR161B,Ch4W5,Hi,7493-7552MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R142A	PTP 820 RFU-C,7GHz,TR161B,Ch4W5,Lo,7332-7391MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R143A	PTP 820 RFU-C,7GHz,TR161C,Ch1W2,Hi,7584-7643MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R144A	PTP 820 RFU-C,7GHz,TR161C,Ch1W2,Lo,7423-7482MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R145A	PTP 820 RFU-C,7GHz,TR161C,Ch2W3,Hi,7612-7671MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R146A	PTP 820 RFU-C,7GHz,TR161C,Ch2W3,Lo,7451-7510MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R147A	PTP 820 RFU-C,7GHz,TR161C,Ch3W4,Hi,7640-7699MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R148A	PTP 820 RFU-C,7GHz,TR161C,Ch3W4,Lo,7479-7538MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R149A	PTP 820 RFU-C,7GHz,TR161C,Ch4W5,Hi,7668-7727MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R150A	PTP 820 RFU-C,7GHz,TR161C,Ch4W5,Lo,7507-7566MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R151A	PTP 820 RFU-C,7GHz,TR161D,Ch1W2,Hi,7709-7768MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R152A	PTP 820 RFU-C,7GHz,TR161D,Ch1W2,Lo,7548-7607MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R153A	PTP 820 RFU-C,7GHz,TR161D,Ch2W3,Hi,7737-7796MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R154A	PTP 820 RFU-C,7GHz,TR161D,Ch2W3,Lo,7576-7635MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R155A	PTP 820 RFU-C,7GHz,TR161D,Ch3W4,Hi,7765-7824MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R156A	PTP 820 RFU-C,7GHz,TR161D,Ch3W4,Lo,7604-7663MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R157A	PTP 820 RFU-C,7GHz,TR161D,Ch4W5,Hi,7793-7852MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R158A	PTP 820 RFU-C,7GHz,TR161D,Ch4W5,Lo,7632-7691MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R159A	PTP 820 RFU-C,7GHz,TR161F,Ch1W2,Hi,7273.5-7353.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R160A	PTP 820 RFU-C,7GHz,TR161F,Ch1W2,Lo,7112.5-7192.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R161A	PTP 820 RFU-C,7GHz,TR161F,Ch2W3,Hi,7322.5-7402.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R162A	PTP 820 RFU-C,7GHz,TR161F,Ch2W3,Lo,7161.5-7241.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R163A	PTP 820 RFU-C,7GHz,TR161F,Ch4W5,Hi,7573.5-7653.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R164A	PTP 820 RFU-C,7GHz,TR161F,Ch4W5,Lo,7412.5-7492.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R165A	PTP 820 RFU-C,7GHz,TR161F,Ch5W6,Hi,7622.5-7702.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R166A	PTP 820 RFU-C,7GHz,TR161F,Ch5W6,Lo,7461.5-7541.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R167A	PTP 820 RFU-C,7GHz,TR161I,Ch1W2,Hi,7580.5-7639.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R168A	PTP 820 RFU-C,7GHz,TR161I,Ch1W2,Lo,7419.5-7478.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R169A	PTP 820 RFU-C,7GHz,TR161I,Ch2W3,Hi,7608.5-7667.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R170A	PTP 820 RFU-C,7GHz,TR161I,Ch2W3,Lo,7447.5-7506.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R171A	PTP 820 RFU-C,7GHz,TR161I,Ch4W5,Hi,7664.5-7723.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R172A	PTP 820 RFU-C,7GHz,TR161I,Ch4W5,Lo,7503.5-7562.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R173A	PTP 820 RFU-C,7GHz,TR161J,Ch1W2,Hi,7573.5-7632.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R174A	PTP 820 RFU-C,7GHz,TR161J,Ch1W2,Lo,7412.5-7471.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R175A	PTP 820 RFU-C,7GHz,TR161J,Ch2W3,Hi,7601.5-7660.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R176A	PTP 820 RFU-C,7GHz,TR161J,Ch2W3,Lo,7440.5-7499.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R177A	PTP 820 RFU-C,7GHz,TR161J,Ch4W5,Hi,7657.5-7716.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R178A	PTP 820 RFU-C,7GHz,TR161J,Ch4W5,Lo,7496.5-7555.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R179A	PTP 820 RFU-C,7GHz,TR161K,Ch1W2,Hi,7643.5-7702.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R180A	PTP 820 RFU-C,7GHz,TR161K,Ch1W2,Lo,7482.5-7541.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R181A	PTP 820 RFU-C,7GHz,TR161K,Ch2W3,Hi,7671.5-7730.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R182A	PTP 820 RFU-C,7GHz,TR161K,Ch2W3,Lo,7510.5-7569.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R183A	PTP 820 RFU-C,7GHz,TR161M,Ch1W2,Hi,7587.5-7646.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R184A	PTP 820 RFU-C,7GHz,TR161M,Ch1W2,Lo,7426.5-7485.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R185A	PTP 820 RFU-C,7GHz,TR161M,Ch2W3,Hi,7615.5-7674.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R186A	PTP 820 RFU-C,7GHz,TR161M,Ch2W3,Lo,7454.5-7513.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R187A	PTP 820 RFU-C,7GHz,TR161O,Ch1W2,Hi,7582-7638MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R188A	PTP 820 RFU-C,7GHz,TR161O,Ch1W2,Lo,7421-7477MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R189A	PTP 820 RFU-C,7GHz,TR161O,Ch2W3,Hi,7666-7722MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R190A	PTP 820 RFU-C,7GHz,TR161O,Ch2W3,Lo,7505-7561MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R191A	PTP 820 RFU-C,7GHz,TR161P,Ch1W2,Hi,7280.5-7339.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R192A	PTP 820 RFU-C,7GHz,TR161P,Ch1W2,Lo,7119.5-7178.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R193A	PTP 820 RFU-C,7GHz,TR161P,Ch2W3,Hi,7308.5-7367.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R194A	PTP 820 RFU-C,7GHz,TR161P,Ch2W3,Lo,7147.5-7206.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R195A	PTP 820 RFU-C,7GHz,TR161P,Ch3W4,Hi,7336.5-7395.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R196A	PTP 820 RFU-C,7GHz,TR161P,Ch3W4,Lo,7175.5-7234.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R197A	PTP 820 RFU-C,7GHz,TR161P,Ch4W5,Hi,7364.5-7423.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R198A	PTP 820 RFU-C,7GHz,TR161P,Ch4W5,Lo,7203.5-7262.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R199A	PTP 820 RFU-C,7GHz,TR161Q,Ch1W2,Hi,7596-7652MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R200A	PTP 820 RFU-C,7GHz,TR161Q,Ch1W2,Lo,7435-7491MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R201A	PTP 820 RFU-C,7GHz,TR161Q,Ch2W3,Hi,7624-7680MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released	Phase II
C070082R202A	PTP 820 RFU-C,7GHz,TR161Q,Ch2W3,Lo,7463-7519MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R203A	PTP 820 RFU-C,7GHz,TR161Q,Ch3W4,Hi,7652-7708MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R204A	PTP 820 RFU-C,7GHz,TR161Q,Ch3W4,Lo,7491-7547MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R205A	PTP 820 RFU-C,7GHz,TR161Q,Ch4W5,Hi,7680-7736MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R206A	PTP 820 RFU-C,7GHz,TR161Q,Ch4W5,Lo,7519-7575MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R207A	PTP 820 RFU-C,7GHz,TR161R,Ch1W2,Hi,7391-7453MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R208A	PTP 820 RFU-C,7GHz,TR161R,Ch1W2,Lo,7230-7292MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R209A	PTP 820 RFU-C,7GHz,TR161S,Ch1W2,Hi,7359-7415MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R210A	PTP 820 RFU-C,7GHz,TR161S,Ch1W2,Lo,7198-7254MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R211A	PTP 820 RFU-C,7GHz,TR161T,Ch1,Hi,7387-7449MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R212A	PTP 820 RFU-C,7GHz,TR161T,Ch1,Lo,7226-7288MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R213A	PTP 820 RFU-C,7GHz,TR168A,Ch1W2,Hi,7273.5-7332.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R214A	PTP 820 RFU-C,7GHz,TR168A,Ch1W2,Lo,7105.5-7164.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R215A	PTP 820 RFU-C,7GHz,TR168A,Ch2W3,Hi,7301.5-7360.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R216A	PTP 820 RFU-C,7GHz,TR168A,Ch2W3,Lo,7133.5-7192.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R217A	PTP 820 RFU-C,7GHz,TR168A,Ch4W5,Hi,7357.5-7416.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R218A	PTP 820 RFU-C,7GHz,TR168A,Ch4W5,Lo,7189.5-7248.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R219A	PTP 820 RFU-C,7GHz,TR168B,Ch1W2,Hi,7609.5-7668.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R220A	PTP 820 RFU-C,7GHz,TR168B,Ch1W2,Lo,7441.5-7500.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R221A	PTP 820 RFU-C,7GHz,TR168B,Ch2W3,Hi,7637.5-7696.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R222A	PTP 820 RFU-C,7GHz,TR168B,Ch2W3,Lo,7469.5-7528.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R223A	PTP 820 RFU-C,7GHz,TR168B,Ch4W5,Hi,7693.5-7752.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R224A	PTP 820 RFU-C,7GHz,TR168B,Ch4W5,Lo,7525.5-7584.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R225A	PTP 820 RFU-C,7GHz,TR168C,Ch1W2,Hi,7580.5-7639.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R226A	PTP 820 RFU-C,7GHz,TR168C,Ch1W2,Lo,7412.5-7471.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R227A	PTP 820 RFU-C,7GHz,TR168C,Ch2W3,Hi,7608.5-7667.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R228A	PTP 820 RFU-C,7GHz,TR168C,Ch2W3,Lo,7440.5-7499.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R229A	PTP 820 RFU-C,7GHz,TR168C,Ch4W5,Hi,7664.5-7723.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C070082R230A	PTP 820 RFU-C,7GHz,TR168C,Ch4W5,Lo,7496.5-7555.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R231A	PTP 820 RFU-C,7GHz,TR168D,Ch1W2,Hi,7280.5-7339.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7		Released Phase II	
C070082R232A	PTP 820 RFU-C,7GHz,TR168D,Ch1W2,Lo,7112.5-7171.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R233A	PTP 820 RFU-C,7GHz,TR168D,Ch2W3,Hi,7308.5-7367.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R234A	PTP 820 RFU-C,7GHz,TR168D,Ch2W3,Lo,7140.5-7199.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R235A	PTP 820 RFU-C,7GHz,TR168D,Ch4W5,Hi,7364.5-7423.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R236A	PTP 820 RFU-C,7GHz,TR168D,Ch4W5,Lo,7196.5-7255.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R237A	PTP 820 RFU-C,7GHz,TR168E,Ch1W2,Hi,7294.5-7353.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R238A	PTP 820 RFU-C,7GHz,TR168E,Ch1W2,Lo,7126.5-7185.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R239A	PTP 820 RFU-C,7GHz,TR168E,Ch3W4,Hi,7350.5-7409.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R240A	PTP 820 RFU-C,7GHz,TR168E,Ch3W4,Lo,7182.5-7241.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R241A	PTP 820 RFU-C,7GHz,TR175B,Ch1W8,Hi,7299.50-7355.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R242A	PTP 820 RFU-C,7GHz,TR175B,Ch1W8,Lo,7124.50-7180.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R243A	PTP 820 RFU-C,7GHz,TR175B,Ch9W16,Hi,7355.50-7411.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R244A	PTP 820 RFU-C,7GHz,TR175B,Ch9W16,Lo,7180.50-7236.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R245A	PTP 820 RFU-C,7GHz,TR175B,Ch13W20,Hi,7383.50-7439.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R246A	PTP 820 RFU-C,7GHz,TR175B,Ch13W20,Lo,7208.50-7264.50MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R247A	PTP 820 RFU-C,7GHz,TR182A,Ch1W2,Hi,7594.5-7653.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R248A	PTP 820 RFU-C,7GHz,TR182A,Ch1W2,Lo,7412.5-7471.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R249A	PTP 820 RFU-C,7GHz,TR182A,Ch2W3,Hi,7622.5-7681.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R250A	PTP 820 RFU-C,7GHz,TR182A,Ch2W3,Lo,7440.5-7499.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R251A	PTP 820 RFU-C,7GHz,TR182A,Ch4W5,Hi,7678.5-7737.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R252A	PTP 820 RFU-C,7GHz,TR182A,Ch4W5,Lo,7496.5-7555.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R253A	PTP 820 RFU-C,7GHz,TR196A,Ch1W3,Hi,7301.5-7388.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R254A	PTP 820 RFU-C,7GHz,TR196A,Ch1W3,Lo,7105.5-7192.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R255A	PTP 820 RFU-C,7GHz,TR196A,Ch3W5,Hi,7357.5-7444.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R256A	PTP 820 RFU-C,7GHz,TR196A,Ch3W5,Lo,7161.5-7248.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R257A	PTP 820 RFU-C,7GHz,TR245A,Ch1W4,Hi,7671.5-7786.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R258A	PTP 820 RFU-C,7GHz,TR245A,Ch1W4,Lo,7426.5-7541.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R259A	PTP 820 RFU-C,7GHz,TR245A,Ch5W8,Hi,7783.5-7898.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R260A	PTP 820 RFU-C,7GHz,TR245A,Ch5W8,Lo,7538.5-7653.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C070082R261A	PTP 820 RFU-C,NTIA 7GHz,TR300,Ch1W5,Hi,7434.5-7585.5MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C070082R262A	PTP 820 RFU-C,NTIA 7GHz,TR300,Ch1W5,Lo,7134.5-7285.5MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C070082R263A	PTP 820 RFU-C,NTIA 7GHz,TR300,Ch6W10,Hi,7584.5-7765.5MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C070082R264A	PTP 820 RFU-C,NTIA 7GHz,TR300,Ch6W10,Lo,7284.5-7465.5MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C070082R265A	PTP 820 RFU-C,7GHz,TR300B,Ch1W3,Hi,7450-7540MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R266A	PTP 820 RFU-C,7GHz,TR300B,Ch1W3,Lo,7150-7240MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R267A	PTP 820 RFU-C,7GHz,TR300B,Ch3W5,Hi,7510-7600MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R268A	PTP 820 RFU-C,7GHz,TR300B,Ch3W5,Lo,7210-7300MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R269A	PTP 820 RFU-C,7GHz,TR300B,Ch5W7,Hi,7570-7660MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R270A	PTP 820 RFU-C,7GHz,TR300B,Ch5W7,Lo,7270-7360MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R271A	PTP 820 RFU-C,7GHz,TR300B,Ch7W9,Hi,7630-7720MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R272A	PTP 820 RFU-C,7GHz,TR300B,Ch7W9,Lo,7330-7420MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R273A	PTP 820 RFU-C,7GHz,TR300B,Ch9W11,Hi,7690-7780MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R274A	PTP 820 RFU-C,7GHz,TR300B,Ch9W11,Lo,7390-7480MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R275A	PTP 820 RFU-C,7GHz,TR300B,Ch11W13,Hi,7750-7840MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R276A	PTP 820 RFU-C,7GHz,TR300B,Ch11W13,Lo,7450-7540MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R277A	PTP 820 RFU-C,7GHz,TR300B,Ch13W15,Hi,7810-7870MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R278A	PTP 820 RFU-C,7GHz,TR300B,Ch13W15,Lo,7510-7570MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R279A	PTP 820 RFU-C,7GHz,TR300B,Ch15W17,Hi,7870-7960MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R280A	PTP 820 RFU-C,7GHz,TR300B,Ch15W17,Lo,7570-7660MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R281A	PTP 820 RFU-C,7GHz,TR300B,Ch16W18,Hi,7900-7990MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C070082R282A	PTP 820 RFU-C,7GHz,TR300B,Ch16W18,Lo,7600-7690MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082B001A	PTP 820S Radio 8GHz,TR119A,Ch1W3,Hi,8396.5-8455.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B002A	PTP 820S Radio 8GHz,TR119A,Ch1W3,Lo,8277.5-8336.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B003A	PTP 820S Radio 8GHz,TR119A,Ch4W6,Hi,8438.5-8497.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B004A	PTP 820S Radio 8GHz,TR119A,Ch4W6,Lo,8319.5-8378.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B005A	PTP 820S Radio 8GHz,TR266A,Ch1W4,Hi,8176.5-8291.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B006A	PTP 820S Radio 8GHz,TR266A,Ch1W4,Lo,7910.5-8025.5MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B007A	PTP 820S Radio 8GHz,TR310C,Ch1W3,Hi,8212-8302MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C080082B008A	PTP 820S Radio 8GHz,TR310C,Ch1W3,Lo,7902-7992MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C080082B009A	PTP 820S Radio 8GHz,TR310C,Ch2W4,Hi,8240-8330MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B010A	PTP 820S Radio 8GHz,TR310C,Ch2W4,Lo,7930-8020MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B011A	PTP 820S Radio 8GHz,TR310C,Ch4W6,Hi,8296-8386MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B012A	PTP 820S Radio 8GHz,TR310C,Ch4W6,Lo,7986-8076MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B013A	PTP 820S Radio 8GHz,TR310C,Ch7W9,Hi,8380-8470MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B014A	PTP 820S Radio 8GHz,TR310C,Ch7W9,Lo,8070-8160MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B015A	PTP 820S Radio 8GHz,TR310C,Ch8W10,Hi,8408-8498MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B016A	PTP 820S Radio 8GHz,TR310C,Ch8W10,Lo,8098-8188MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B017A	PTP 820S Radio 8GHz,TR311A,Ch1W4,Hi,8043.52-8163.47MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B018A	PTP 820S Radio 8GHz,TR311A,Ch1W4,Lo,7732.2-7852.15MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6.3 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B019A	PTP 820S Radio 8GHz,TR311A,Ch5W8,Hi,8162.12-8282.07MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C080082B020A	PTP 820S Radio 8GHz,TR311A,Ch5W8,Lo,7850.8-7970.75MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	.a	5A991	Released Fully Released	
C080082B041A	PTP 820C Radio 8GHz,TR119A,Ch1W3,Hi,8396.5-8455.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B042A	PTP 820C Radio 8GHz,TR119A,Ch1W3,Lo,8277.5-8336.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B043A	PTP 820C Radio 8GHz,TR119A,Ch4W6,Hi,8438.5-8497.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B044A	PTP 820C Radio 8GHz,TR119A,Ch4W6,Lo,8319.5-8378.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B045A	PTP 820C Radio 8GHz,TR266A,Ch1W4,Hi,8176.5-8291.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B046A	PTP 820C Radio 8GHz,TR266A,Ch1W4,Lo,7910.5-8025.5MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B047A	PTP 820C Radio 8GHz,TR310C,Ch1W3,Hi,8212-8302MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B048A	PTP 820C Radio 8GHz,TR310C,Ch1W3,Lo,7902-7992MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B049A	PTP 820C Radio 8GHz,TR310C,Ch2W4,Hi,8240-8330MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B050A	PTP 820C Radio 8GHz,TR310C,Ch2W4,Lo,7930-8020MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B051A	PTP 820C Radio 8GHz,TR310C,Ch4W6,Hi,8296-8386MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B052A	PTP 820C Radio 8GHz,TR310C,Ch4W6,Lo,7986-8076MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B053A	PTP 820C Radio 8GHz,TR310C,Ch7W9,Hi,8380-8470MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B054A	PTP 820C Radio 8GHz,TR310C,Ch7W9,Lo,8070-8160MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B055A	PTP 820C Radio 8GHz,TR310C,Ch8W10,Hi,8408-8498MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B056A	PTP 820C Radio 8GHz,TR310C,Ch8W10,Lo,8098-8188MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	
C080082B057A	PTP 820C Radio 8GHz,TR311A,Ch1W4,Hi,8043.52-8163.47MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7		Released Phase II	
C080082B058A	PTP 820C Radio 8GHz,TR311A,Ch1W4,Lo,7732.2-7852.15MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	.a	5A991	Released Phase II	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C080082B059A	PTP 820C Radio 8GHz,TR311A,Ch5W8,Hi,8162.12-8282.07MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082B060A	PTP 820C Radio 8GHz,TR311A,Ch5W8,Lo,7850.8-7970.75MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R081A	PTP 820 RFU-C,8GHz,TR119A,Ch1W3,Hi,8396.5-8455.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R082A	PTP 820 RFU-C,8GHz,TR119A,Ch1W3,Lo,8277.5-8336.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R083A	PTP 820 RFU-C,8GHz,TR119A,Ch4W6,Hi,8438.5-8497.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R084A	PTP 820 RFU-C,8GHz,TR119A,Ch4W6,Lo,8319.5-8378.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R085A	PTP 820 RFU-C,8GHz,TR148A,Ch01,Hi,7896.75-7973.75MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R086A	PTP 820 RFU-C,8GHz,TR148A,Ch01,Lo,7748.25-7825.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R087A	PTP 820 RFU-C,8GHz,TR151A,Ch1W3,Hi,8346.162-8423.81MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R088A	PTP 820 RFU-C,8GHz,TR151A,Ch1W3,Lo,8194.548-8272.196MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R089A	PTP 820 RFU-C,8GHz,TR151A,Ch4W6,Hi,8416.134-8493.782MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R090A	PTP 820 RFU-C,8GHz,TR151A,Ch4W6,Lo,8264.52-8342.168MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R091A	PTP 820 RFU-C,8GHz,TR151B,Ch01,Hi,8425.803-8495.775MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R092A	PTP 820 RFU-C,8GHz,TR151B,Ch01,Lo,8274.189-8344.161MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R093A	PTP 820 RFU-C,8GHz,TR154A,Ch1W2,Hi,8355.5-8414.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R094A	PTP 820 RFU-C,8GHz,TR154A,Ch1W2,Lo,8201.5-8260.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R095A	PTP 820 RFU-C,8GHz,TR154A,Ch2W3,Hi,8383.5-8442.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R096A	PTP 820 RFU-C,8GHz,TR154A,Ch2W3,Lo,8229.5-8288.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R097A	PTP 820 RFU-C,8GHz,TR154A,Ch4W5,Hi,8439.5-8498.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R098A	PTP 820 RFU-C,8GHz,TR154A,Ch4W5,Lo,8285.5-8344.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R099A	PTP 820 RFU-C,8GHz,TR161A,Ch1w,Hi,8072-8100MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R100A	PTP 820 RFU-C,8GHz,TR161A,Ch1w,Lo,7911-7939MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R101A	PTP 820 RFU-C,8GHz,TR208A,Ch1W4,Hi,8256.5-8371.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R102A	PTP 820 RFU-C,8GHz,TR208A,Ch1W4,Lo,8048.5-8163.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R103A	PTP 820 RFU-C,8GHz,TR208A,Ch5W7,Hi,8368.5-8455.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R104A	PTP 820 RFU-C,8GHz,TR208A,Ch5W7,Lo,8160.5-8247.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R105A	PTP 820 RFU-C,8GHz,TR252A,Ch1W2,Hi,8226.52-8287.52MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R106A	PTP 820 RFU-C,8GHz,TR252A,Ch1W2,Lo,7974.5-8035.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R107A	PTP 820 RFU-C,8GHz,TR250A,Ch1W4,Hi,8270.5-8349.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R108A	PTP 820 RFU-C,8GHz,TR250A,Ch1W4,Lo,8020.5-8099.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C080082R109A	PTP 820 RFU-C,8GHz,TR250A,Ch5W8,Hi,8326.5-8405.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R110A	PTP 820 RFU-C,8GHz,TR250A,Ch5W8,Lo,8076.5-8155.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R111A	PTP 820 RFU-C,8GHz,TR266A,Ch1W4,Hi,8176.5-8291.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R112A	PTP 820 RFU-C,8GHz,TR266A,Ch1W4,Lo,7910.5-8025.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R113A	PTP 820 RFU-C,8GHz,TR266A,Ch5W8,Hi,8288.5-8403.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R114A	PTP 820 RFU-C,8GHz,TR266A,Ch5W8,Lo,8022.5-8137.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R119A	PTP 820 RFU-C,8GHz,TR266D,Ch1W3,Hi,8276-8339MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R120A	PTP 820 RFU-C,8GHz,TR266D,Ch1W3,Lo,8010-8073MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R121A	PTP 820 RFU-C,8GHz,TR274A,Ch1W4,Hi,8027.25-8139.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R122A	PTP 820 RFU-C,8GHz,TR274A,Ch1W4,Lo,7753.25-7865.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R123A	PTP 820 RFU-C,8GHz,TR274A,Ch5W8,Hi,8139.25-8251.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R124A	PTP 820 RFU-C,8GHz,TR274A,Ch5W8,Lo,7865.25-7977.25MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R125A	PTP 820 RFU-C,8GHz,TR300A,Ch1W4,Hi,8024.5-8145.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R126A	PTP 820 RFU-C,8GHz,TR300A,Ch1W4,Lo,7724.5-7845.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R127A	PTP 820 RFU-C,8GHz,TR300A,Ch5W8,Hi,8144.5-8265.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R128A	PTP 820 RFU-C,8GHz,TR300A,Ch5W8,Lo,7844.5-7965.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R129A	PTP 820 RFU-C,8GHz,TR300B,Ch19W21,Hi,7990-8080MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R130A	PTP 820 RFU-C,8GHz,TR300B,Ch19W21,Lo,7690-7780MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R131A	PTP 820 RFU-C,8GHz,TR300B,Ch20W22,Hi,8020-8110MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R132A	PTP 820 RFU-C,8GHz,TR300B,Ch20W22,Lo,7720-7810MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R133A	PTP 820 RFU-C,8GHz,TR310A,Ch1W3,Hi,8035-8155MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R134A	PTP 820 RFU-C,8GHz,TR310A,Ch1W3,Lo,7725-7845MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R135A	PTP 820 RFU-C,8GHz,TR310A,Ch4W6,Hi,8155-8275MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R136A	PTP 820 RFU-C,8GHz,TR310A,Ch4W6,Lo,7845-7965MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R137A	PTP 820 RFU-C,8GHz,TR310C,Ch1W3,Hi,8212-8302MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R138A	PTP 820 RFU-C,8GHz,TR310C,Ch1W3,Lo,7902-7992MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R139A	PTP 820 RFU-C,8GHz,TR310C,Ch2W4,Hi,8240-8330MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R140A	PTP 820 RFU-C,8GHz,TR310C,Ch2W4,Lo,7930-8020MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R141A	PTP 820 RFU-C,8GHz,TR310C,Ch4W6,Hi,8296-8386MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	
C080082R142A	PTP 820 RFU-C,8GHz,TR310C,Ch4W6,Lo,7986-8076MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released Phase II	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C080082R143A	PTP 820 RFU-C,8GHz,TR310C,Ch7W9,Hi,8380-8470MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7		Released	Phase II
C080082R144A	PTP 820 RFU-C,8GHz,TR310C,Ch7W9,Lo,8070-8160MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R145A	PTP 820 RFU-C,8GHz,TR310C,Ch8W10,Hi,8408-8498MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R146A	PTP 820 RFU-C,8GHz,TR310C,Ch8W10,Lo,8098-8188MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R149A	PTP 820 RFU-C,8GHz,TR311A,Ch5W8,Hi,8162.12-8282.07MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R150A	PTP 820 RFU-C,8GHz,TR311A,Ch5W8,Lo,7850.8-7970.75MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R153A	PTP 820 RFU-C,8GHz,TR311B,Ch5W8,Hi,8147.295-8267.245MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R154A	PTP 820 RFU-C,8GHz,TR311B,Ch5W8,Lo,7835.975-7955.925MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R161A	PTP 820 RFU-C,8GHz,TR311C to J,ChAll,Hi,8023-8186.32MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R162A	PTP 820 RFU-C,8GHz,TR311C to J,ChAll,Lo,7711.68-7875MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R163A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch1W5,Hi,8095-8245MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R164A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch1W5,Lo,7735-7885MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R165A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch5W9,Hi,8215-8365MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R166A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch5W9,Lo,7855-8005MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R167A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch9W13,Hi,8335-8485MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R168A	PTP 820 RFU-C,NTIA 8GHz,TR360,Ch9W13,Lo,7975-8125MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C080082R169A	PTP 820 RFU-C,8GHz,TR500A,Ch1W2,Hi,8304.5-8395.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R170A	PTP 820 RFU-C,8GHz,TR500A,Ch1W2,Lo,7804.5-7895.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R171A	PTP 820 RFU-C,8GHz,TR530A,Ch1W2,Hi,8274.5-8305.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C080082R172A	PTP 820 RFU-C,8GHz,TR530A,Ch1W2,Lo,7744.5-7775.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C100082B001A	PTP 820S Radio 10GHz,TR182A,Ch1W2,Hi,10483-10539MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B002A	PTP 820S Radio 10GHz,TR182A,Ch1W2,Lo,10301-10357MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B003A	PTP 820S Radio 10GHz,TR182A,Ch2W4,Hi,10539-10595MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B004A	PTP 820S Radio 10GHz,TR182A,Ch2W4,Lo,10357-10413MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B005A	PTP 820S Radio 10GHz,TR350A,Ch1W5,Hi,10501-10647MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B006A	PTP 820S Radio 10GHz,TR350A,Ch1W5,Lo,10151-10297MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B007A	PTP 820C Radio 10GHz,TR182A,Ch1W2,Hi,10483-10539MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B008A	PTP 820C Radio 10GHz,TR182A,Ch1W2,Lo,10301-10357MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B009A	PTP 820C Radio 10GHz,TR182A,Ch2W4,Hi,10539-10595MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C100082B010A	PTP 820C Radio 10GHz,TR182A,Ch2W4,Lo,10357-10413MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C100082B011A	PTP 820C Radio 10GHz,TR350A,Ch1W5,Hi,10501-10647MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082B012A	PTP 820C Radio 10GHz,TR350A,Ch1W5,Lo,10151-10297MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082D049A	4 ft Ultra High Performance Antenna, dual-polarized, 10.700-11.700 GHz, CPR90G	USD	\$7,750.00	PTP : Licensed : PTP820	Antenna	118	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
C100082D050A	6 ft High Performance Antenna, single-polarized, 10.700-11.700 GHz, CPR90G	USD	\$8,820.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
C100082R013A	PTP 820 RFU-C,10GHz,TR65A,Ch01,Hi,10619.5 - 10633.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R014A	PTP 820 RFU-C,10GHz,TR65A,Ch01,Lo,10554.5 - 10568.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R015A	PTP 820 RFU-C,10GHz,TR65A,Ch02,Hi,10633.5 - 10647.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R016A	PTP 820 RFU-C,10GHz,TR65A,Ch02,Lo,10568.5 - 10582.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R017A	PTP 820 RFU-C,10GHz,TR65A,Ch03,Hi,10647.5 - 10661.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R018A	PTP 820 RFU-C,10GHz,TR65A,Ch03,Lo,10582.5 - 10596.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R019A	PTP 820 RFU-C,10GHz,TR65A,Ch04,Hi,10661.5 - 10675.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R020A	PTP 820 RFU-C,10GHz,TR65A,Ch04,Lo,10596.5 - 10610.5MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R021A	PTP 820 RFU-C,10GHz,TR91A,Ch1W4,Hi,10590-10622MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R022A	PTP 820 RFU-C,10GHz,TR91A,Ch1W4,Lo,10499-10531MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R023A	PTP 820 RFU-C,10GHz,TR91A,Ch5W8,Hi,10618-10649MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R024A	PTP 820 RFU-C,10GHz,TR91A,Ch5W8,Lo,10527-10558MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R025A	PTP 820 RFU-C,10GHz,TR91A,Ch9W12,Hi,10646-10677MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R026A	PTP 820 RFU-C,10GHz,TR91A,Ch9W12,Lo,10555-10586MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R027A	PTP 820 RFU-C,10GHz,TR120A,Ch1,Hi,10624-10680MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R028A	PTP 820 RFU-C,10GHz,TR120A,Ch1,Lo,10504-10560MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R029A	PTP 820 RFU-C,10GHz,TR168A,Ch1W2,Hi,10501-10563MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R030A	PTP 820 RFU-C,10GHz,TR168A,Ch1W2,Lo,10333-10395MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R031A	PTP 820 RFU-C,10GHz,TR168A,Ch2W4,Hi,10529-10591MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R032A	PTP 820 RFU-C,10GHz,TR168A,Ch2W4,Lo,10361-10423MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R033A	PTP 820 RFU-C,10GHz,TR168A,Ch5W6,Hi,10585-10647MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R034A	PTP 820 RFU-C,10GHz,TR168A,Ch5W6,Lo,10417-10479MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R035A	PTP 820 RFU-C,10GHz,TR350A,Ch1W5,Hi,10501-10647MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R036A	PTP 820 RFU-C,10GHz,TR350A,Ch1W5,Lo,10151-10297MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R037A	PTP 820 RFU-C,10GHz,TR350B,Ch1W5w,Hi,10498-10670MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R038A	PTP 820 RFU-C,10GHz,TR350B,Ch1W5w,Lo,10148-10320MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C100082R039A	PTP 820 RFU-C,10GHz,TR350C,Ch1W5,Hi,10475-10575MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R040A	PTP 820 RFU-C,10GHz,TR350C,Ch1W5,Lo,10125-10225MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R041A	PTP 820 RFU-C,10GHz,TR350D,Ch1W5,Hi,10360-10460MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R042A	PTP 820 RFU-C,10GHz,TR350D,Ch1W5,Lo,10010-10110MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R043A	PTP 820 RFU-C,10GHz,TR350E,Ch1W5,Hi,10361-10507MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R044A	PTP 820 RFU-C,10GHz,TR350E,Ch1W5,Lo,10011-10157MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R045A	PTP 820 RFU-C,10GHz,TR550A,Ch1W5,Hi,10561-10707MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R046A	PTP 820 RFU-C,10GHz,TR550A,Ch1W5,Lo,10011-10157MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R047A	PTP 820 RFU-C,10GHz,TR550A,Ch6WT10,Hi,10701-10847MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C100082R048A	PTP 820 RFU-C,10GHz,TR550A,Ch6WT10,Lo,10151-10297MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C110082B001A	PTP 820S Radio 11GHz,TR500,Ch1W6,Hi,11185-11485MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B002A	PTP 820S Radio 11GHz,TR500,Ch1W6,Lo,10695-10955MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B007A	PTP 820S Radio 11GHz,TR500,Ch4W9,Hi,11305-11585MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B008A	PTP 820S Radio 11GHz,TR500,Ch4W9,Lo,10815-11095MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B013A	PTP 820S Radio 11GHz,TR500,Ch7W13,Hi,11425-11725MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B014A	PTP 820S Radio 11GHz,TR500,Ch7W13,Lo,10915-11207MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B015A	PTP 820S Radio 11WGHz,TR500,Ch1W6,Hi,11185-11485MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.3	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B016A	PTP 820S Radio 11WGHz,TR500,Ch1W6,Lo,10695-10955MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B021A	PTP 820S Radio 11WGHz,TR500,Ch4W9,Hi,11305-11585MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B022A	PTP 820S Radio 11WGHz,TR500,Ch4W9,Lo,10815-11095MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B027A	PTP 820S Radio 11WGHz,TR500,Ch7W13,Hi,11425-11725MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B028A	PTP 820S Radio 11WGHz,TR500,Ch7W13,Lo,10915-11207MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B029A	PTP 820C Radio 11GHz,TR500,Ch1W6,Hi,11185-11485MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released PTP 820-01-00 Phase 1	
C110082B030A	PTP 820C Radio 11GHz,TR500,Ch1W6,Lo,10695-10955MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B031A	PTP 820C Radio 11GHz,TR500,Ch2W7,Hi,11225-11485MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C110082B032A	PTP 820C Radio 11GHz,TR500,Ch2W7,Lo,10735-10995MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C110082B033A	PTP 820C Radio 11GHz,TR500,Ch3W8,Hi,11265-11525MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C110082B034A	PTP 820C Radio 11GHz,TR500,Ch3W8,Lo,10775-11035MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released Phase II	
C110082B035A	PTP 820C Radio 11GHz,TR500,Ch4W9,Hi,11305-11585MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	
C110082B036A	PTP 820C Radio 11GHz,TR500,Ch4W9,Lo,10815-11095MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released phase I	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C110082B037A	PTP 820C Radio 11GHz,TR500,Ch5W10,Hi,11345-11605MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B038A	PTP 820C Radio 11GHz,TR500,Ch5W10,Lo,10855-11115MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B039A	PTP 820C Radio 11GHz,TR500,Ch6W12,Hi,11385-11705MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B040A	PTP 820C Radio 11GHz,TR500,Ch6W12,Lo,10895-11205MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B041A	PTP 820C Radio 11GHz,TR500,Ch7W13,Hi,11425-11725MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C110082B042A	PTP 820C Radio 11GHz,TR500,Ch7W13,Lo,10915-11207MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	phase I
C110082B043A	PTP 820C Radio 11WGHz,TR500,Ch1W6,Hi,11185-11485MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B044A	PTP 820C Radio 11WGHz,TR500,Ch1W6,Lo,10695-10955MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B045A	PTP 820C Radio 11WGHz,TR500,Ch2W7,Hi,11225-11485MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B046A	PTP 820C Radio 11WGHz,TR500,Ch2W7,Lo,10735-10995MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B047A	PTP 820C Radio 11WGHz,TR500,Ch3W8,Hi,11265-11525MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B048A	PTP 820C Radio 11WGHz,TR500,Ch3W8,Lo,10775-11035MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B049A	PTP 820C Radio 11WGHz,TR500,Ch4W9,Hi,11305-11585MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B050A	PTP 820C Radio 11WGHz,TR500,Ch4W9,Lo,10815-11095MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B051A	PTP 820C Radio 11WGHz,TR500,Ch5W10,Hi,11345-11605MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B052A	PTP 820C Radio 11WGHz,TR500,Ch5W10,Lo,10855-11115MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C110082B053A	PTP 820C Radio 11WGHz,TR500,Ch6W12,Hi,11385-11705MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B054A	PTP 820C Radio 11WGHz,TR500,Ch6W12,Lo,10895-11205MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B055A	PTP 820C Radio 11WGHz,TR500,Ch7W13,Hi,11425-11725MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082B056A	PTP 820C Radio 11WGHz,TR500,Ch7W13,Lo,10915-11207MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C110082L001A	PTP 820C Radio 11GHz,TR500,Ch1W6,Non-MIMO,Hi,11185-11485MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L002A	PTP 820C Radio 11GHz,TR500,Ch1W6,Non-MIMO,Lo,10695-10955MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L003A	PTP 820C Radio 11GHz,TR500,Ch2W7,Non-MIMO,Hi,11225-11485MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L004A	PTP 820C Radio 11GHz,TR500,Ch2W7,Non-MIMO,Lo,10735-10995MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L005A	PTP 820C Radio 11GHz,TR500,Ch3W8,Non-MIMO,Hi,11265-11525MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L006A	PTP 820C Radio 11GHz,TR500,Ch3W8,Non-MIMO,Lo,10775-11035MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L009A	PTP 820C Radio 11GHz,TR500,Ch5W10,Non-MIMO,Hi,11345-11605MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C110082L010A	PTP 820C Radio 11GHz,TR500,Ch5W10,Non-MIMO,Lo,10855-11115MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L011A	PTP 820C Radio 11GHz,TR500,Ch6W12,Non-MIMO,Hi,11385-11705MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L012A	PTP 820C Radio 11GHz,TR500,Ch6W12,Non-MIMO,Lo,10895-11205MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L013A	PTP 820C Radio 11GHz,TR500,Ch7W13,Non-MIMO,Hi,11425-11725MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L014A	PTP 820C Radio 11GHz,TR500,Ch7W13,Non-MIMO,Lo,10915-11207MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete *Temp reactivate per Allen Yu ☐
C110082L015A	PTP 820C Radio 11WGHz,TR500,Ch1W6,Non-MIMO,Hi,11185-11485MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete *Temp reactivate per Allen Yu ☐
C110082L016A	PTP 820C Radio 11WGHz,TR500,Ch1W6,Non-MIMO,Lo,10695-10955MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L017A	PTP 820C Radio 11WGHz,TR500,Ch2W7,Non-MIMO,Hi,11225-11485MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L018A	PTP 820C Radio 11WGHz,TR500,Ch2W7,Non-MIMO,Lo,10735-10995MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L019A	PTP 820C Radio 11WGHz,TR500,Ch3W8,Non-MIMO,Hi,11265-11525MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L020A	PTP 820C Radio 11WGHz,TR500,Ch3W8,Non-MIMO,Lo,10775-11035MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L021A	PTP 820C Radio 11WGHz,TR500,Ch4W9,Non-MIMO,Hi,11305-11585MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L022A	PTP 820C Radio 11WGHz,TR500,Ch4W9,Non-MIMO,Lo,10815-11095MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L023A	PTP 820C Radio 11WGHz,TR500,Ch5W10,Non-MIMO,Hi,11345-11605MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L024A	PTP 820C Radio 11WGHz,TR500,Ch5W10,Non-MIMO,Lo,10855-11115MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete 29-March-2017 ☐ Changed back to available to order per Allen Yu ; also noted We will turn it off once PO has been received. I will keep you posted on progress. ☐
C110082L025A	PTP 820C Radio 11WGHz,TR500,Ch6W12,Non-MIMO,Hi,11385-11705MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7.a	5A991	Released	23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C110082L026A	PTP 820C Radio 11WGHz,TR500,Ch6W12,Non-MIMO,Lo,10895-11205MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	29-March-2017 ☐ Changed back to available to order per Allen Yu ; also noted We will turn it off once PO has been received. I will keep you posted on progress. ☐ ☐ 23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete 29-March-2017 ☐ Changed back to available to order per Allen Yu ; also noted We will turn it off once PO has been received. I will keep you posted on progress. ☐ ☐ 23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete 29-March-2017 ☐ Changed back to available to order per Allen Yu ; also noted We will turn it off once PO has been received. I will keep you posted on progress. ☐ ☐ 23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L027A	PTP 820C Radio 11WGHz,TR500,Ch7W13,Non-MIMO,Hi,11425-11725MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.2 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	29-March-2017 ☐ Changed back to available to order per Allen Yu ; also noted We will turn it off once PO has been received. I will keep you posted on progress. ☐ ☐ 23-Jan-2017 ☐ Per Allen Yu, item should be unavailable to order/Obsolete
C110082L028A	PTP 820C Radio 11WGHz,TR500,Ch7W13,Non-MIMO,Lo,10915-11207MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	6.1 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Per Allen Yu, item should be unavailable to order/Obsolete
C110082M069A	PTP 820 RFU-A Extended modulation, 11GHz	USD	\$11,750.00	PTP : Licensed : PTP820	Modem	7.2 kg		8517.62.0050	Taiwan	5A991.b.7	5A991	Released	Fully Released
C110082R057A	PTP 820 RFU-C,11GHz,TR490,ChLz,Hi,11185-11485MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C110082R058A	PTP 820 RFU-C,11GHz,TR490,ChLz,Lo,10695-10955MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C110082R059A	PTP 820 RFU-C,11GHz,TR490,ChHz,Hi,11425-11725MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C110082R060A	PTP 820 RFU-C,11GHz,TR490,ChHz,Lo,10915-11207MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C110082R061A	PTP 820 RFU-C,11GHz,TR530,ChDX-11,Hi,11231-11339MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R062A	PTP 820 RFU-C,11GHz,TR530,ChDX-11,Lo,10701-10809MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R063A	PTP 820 RFU-C,11GHz,TR530,ChDX-12,Hi,11351-11459MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.9 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R064A	PTP 820 RFU-C,11GHz,TR530,ChDX-12,Lo,10821-10929MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.9 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R065A	PTP 820 RFU-C,11GHz,TR530,ChDX-13,Hi,11471-11579MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R066A	PTP 820 RFU-C,11GHz,TR530,ChDX-13,Lo,10941-11049MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R067A	PTP 820 RFU-C,11GHz,TR530,ChDX-14,Hi,11591-11699MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C110082R068A	PTP 820 RFU-C,11GHz,TR530,ChDX-14,Lo,11061-11169MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B001A	PTP 820S Radio 13GHz,TR225,Ch1W3,Hi,12900-13000MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B002A	PTP 820S Radio 13GHz,TR225,Ch1W3,Lo,12700-12775MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B003A	PTP 820S Radio 13GHz,TR225,Ch3W5,Hi,12950-13050MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B004A	PTP 820S Radio 13GHz,TR225,Ch3W5,Lo,12750-12825MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C130082B005A	PTP 820S Radio 13GHz,TR225,Ch5W7,Hi,13000-13100MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B006A	PTP 820S Radio 13GHz,TR225,Ch5W7,Lo,12800-12870MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B007A	PTP 820S Radio 13GHz,TR225,Ch7W9,Hi,13050-13150MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B008A	PTP 820S Radio 13GHz,TR225,Ch7W9,Lo,12850-12925MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B009A	PTP 820S Radio 13GHz,TR266,Ch1W4,Hi,13002-13141MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B010A	PTP 820S Radio 13GHz,TR266,Ch1W4,Lo,12747-12866MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B011A	PTP 820S Radio 13GHz,TR266,Ch5W8,Hi,13127-13246MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B012A	PTP 820S Radio 13GHz,TR266,Ch5W8,Lo,12858-12990MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B013A	PTP 820S Radio 13GHz,TR266A,Ch3W5,Hi,13073-13185MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B014A	PTP 820S Radio 13GHz,TR266A,Ch3W5,Lo,12807-12919MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C130082B015A	PTP 820C Radio 13GHz,TR225,Ch1W3,Hi,12900-13000MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B016A	PTP 820C Radio 13GHz,TR225,Ch1W3,Lo,12700-12775MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B017A	PTP 820C Radio 13GHz,TR225,Ch3W5,Hi,12950-13050MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B018A	PTP 820C Radio 13GHz,TR225,Ch3W5,Lo,12750-12825MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B019A	PTP 820C Radio 13GHz,TR225,Ch5W7,Hi,13000-13100MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B020A	PTP 820C Radio 13GHz,TR225,Ch5W7,Lo,12800-12870MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B021A	PTP 820C Radio 13GHz,TR225,Ch7W9,Hi,13050-13150MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B022A	PTP 820C Radio 13GHz,TR225,Ch7W9,Lo,12850-12925MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B023A	PTP 820C Radio 13GHz,TR266,Ch1W4,Hi,13002-13141MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B024A	PTP 820C Radio 13GHz,TR266,Ch1W4,Lo,12747-12866MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B025A	PTP 820C Radio 13GHz,TR266,Ch5W8,Hi,13127-13246MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B026A	PTP 820C Radio 13GHz,TR266,Ch5W8,Lo,12858-12990MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B027A	PTP 820C Radio 13GHz,TR266A,Ch3W5,Hi,13073-13185MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082B028A	PTP 820C Radio 13GHz,TR266A,Ch3W5,Lo,12807-12919MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C130082R029A	PTP 820 RFU-C,13GHz,TR266,Ch1W4wza,Hi,13002-13141MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R030A	PTP 820 RFU-C,13GHz,TR266,Ch1W4wza,Lo,12745.75-12866MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R031A	PTP 820 RFU-C,13GHz,TR266,Ch5W8w,Hi,13127-13246MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R032A	PTP 820 RFU-C,13GHz,TR266,Ch5W8w,Lo,12858-12990MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R033A	PTP 820 RFU-C,13GHz,TR266A,Ch3w5,Hi,13073-13185MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R034A	PTP 820 RFU-C,13GHz,TR266A,Ch3w5,Lo,12807-12919MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C130082R035A	PTP 820 RFU-C,13GHz,TR200,Ch1W3,Hi,12900-13000MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R036A	PTP 820 RFU-C,13GHz,TR200,Ch1W3,Lo,12700-12775MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R037A	PTP 820 RFU-C,13GHz,TR200,Ch3W5,Hi,12950-13050MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R038A	PTP 820 RFU-C,13GHz,TR200,Ch3W5,Lo,12750-12825MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R039A	PTP 820 RFU-C,13GHz,TR200,Ch5W7,Hi,13000-13100MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R040A	PTP 820 RFU-C,13GHz,TR200,Ch5W7,Lo,12800-12870MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R041A	PTP 820 RFU-C,13GHz,TR200,Ch7W9,Hi,13050-13150MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C130082R042A	PTP 820 RFU-C,13GHz,TR200,Ch7W9,Lo,12850-12925MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082B001A	PTP 820S Radio 15GHz,TR315,Ch1W4,Hi,14963-15075MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B002A	PTP 820S Radio 15GHz,TR315,Ch1W4,Lo,14648-14760MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B003A	PTP 820S Radio 15GHz,TR315,Ch4W7,Hi,15047-15159MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B004A	PTP 820S Radio 15GHz,TR315,Ch4W7,Lo,14732-14844MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B005A	PTP 820S Radio 15GHz,TR420,Ch1W8,Hi,14921-15145MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B006A	PTP 820S Radio 15GHz,TR420,Ch1W8,Lo,14501-14725MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B007A	PTP 820S Radio 15GHz,TR420,Ch5W12,Hi,15033-15257MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B008A	PTP 820S Radio 15GHz,TR420,Ch5W12,Lo,14613-14837MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B009A	PTP 820S Radio 15GHz,TR420,Ch8W15,Hi,15117-15341MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B010A	PTP 820S Radio 15GHz,TR420,Ch8W15,Lo,14697-14921MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B011A	PTP 820S Radio 15GHz,TR475,Ch1W4,Hi,14975-15135MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B012A	PTP 820S Radio 15GHz,TR475,Ch1W4,Lo,14500-14660MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B013A	PTP 820S Radio 15GHz,TR475,Ch5W8,Hi,15135-15295MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B014A	PTP 820S Radio 15GHz,TR475,Ch5W8,Lo,14660-14820MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B015A	PTP 820S Radio 15GHz,TR490A,Ch1W8,Hi,14887-15117MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B016A	PTP 820S Radio 15GHz,TR490A,Ch1W8,Lo,14397-14627MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B017A	PTP 820S Radio 15GHz,TR490B,Ch9W16,Hi,15110-15348MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B018A	PTP 820S Radio 15GHz,TR490B,Ch9W16,Lo,14620-14858MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.4	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B019A	PTP 820S Radio 15GHz,TR644,ChAll,Hi,15144-15341MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B020A	PTP 820S Radio 15GHz,TR644,ChAll,Lo,14500-14697MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B021A	PTP 820S Radio 15GHz,TR728,Ch1W4,Hi,15229-15375MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?
C150082B022A	PTP 820S Radio 15GHz,TR728,Ch1W4,Lo,14500-14647MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820 Future / Phase 3?

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C150082B023A	PTP 820C Radio 15GHz,TR315,Ch1W4,Hi,14963-15075MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C150082B024A	PTP 820C Radio 15GHz,TR315,Ch1W4,Lo,14648-14760MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
C150082B025A	PTP 820C Radio 15GHz,TR315,Ch4W7,Hi,15047-15159MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B026A	PTP 820C Radio 15GHz,TR315,Ch4W7,Lo,14732-14844MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B027A	PTP 820C Radio 15GHz,TR420,Ch1W8,Hi,14921-15145MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B028A	PTP 820C Radio 15GHz,TR420,Ch1W8,Lo,14501-14725MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B029A	PTP 820C Radio 15GHz,TR420,Ch5W12,Hi,15033-15257MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B030A	PTP 820C Radio 15GHz,TR420,Ch5W12,Lo,14613-14837MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B031A	PTP 820C Radio 15GHz,TR420,Ch8W15,Hi,15117-15341MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B032A	PTP 820C Radio 15GHz,TR420,Ch8W15,Lo,14697-14921MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B033A	PTP 820C Radio 15GHz,TR475,Ch1W4,Hi,14975-15135MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B034A	PTP 820C Radio 15GHz,TR475,Ch1W4,Lo,14500-14660MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B035A	PTP 820C Radio 15GHz,TR475,Ch5W8,Hi,15135-15295MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B036A	PTP 820C Radio 15GHz,TR475,Ch5W8,Lo,14660-14820MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B037A	PTP 820C Radio 15GHz,TR490A,Ch1W8,Hi,14887-15117MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B038A	PTP 820C Radio 15GHz,TR490A,Ch1W8,Lo,14397-14627MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B039A	PTP 820C Radio 15GHz,TR490B,Ch9W16,Hi,15110-15348MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B040A	PTP 820C Radio 15GHz,TR490B,Ch9W16,Lo,14620-14858MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B041A	PTP 820C Radio 15GHz,TR644,ChAll,Hi,15144-15341MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B042A	PTP 820C Radio 15GHz,TR644,ChAll,Lo,14500-14697MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B043A	PTP 820C Radio 15GHz,TR728,Ch1W4,Hi,15229-15375MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082B044A	PTP 820C Radio 15GHz,TR728,Ch1W4,Lo,14500-14647MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.1	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C150082R045A	PTP 820 RFU-C,15GHz,TR315,Ch1W4,Hi,14963-15075MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R046A	PTP 820 RFU-C,15GHz,TR315,Ch1W4,Lo,14648-14760MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R047A	PTP 820 RFU-C,15GHz,TR315,Ch4W7,Hi,15047-15159MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R048A	PTP 820 RFU-C,15GHz,TR315,Ch4W7,Lo,14732-14844MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R049A	PTP 820 RFU-C,15GHz,TR420,Ch1W8,Hi,14921-15145MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R050A	PTP 820 RFU-C,15GHz,TR420,Ch1W8,Lo,14501-14725MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R051A	PTP 820 RFU-C,15GHz,TR420,Ch8W15,Hi,15117-15341MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.25	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R052A	PTP 820 RFU-C,15GHz,TR420,Ch8W15,Lo,14697-14921MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.25	kg	8517.62.0050		5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C150082R053A	PTP 820 RFU-C,15GHz,TR475,Ch1W4w,Hi,14970-15135MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2 kg		8517.62.0050		5A991.b.7		Released	Phase II
C150082R054A	PTP 820 RFU-C,15GHz,TR475,Ch1W4w,Lo,14500-14660MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.2 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R055A	PTP 820 RFU-C,15GHz,TR475,Ch5W8w,Hi,15135-15295MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R056A	PTP 820 RFU-C,15GHz,TR475,Ch5W8w,Lo,14660-14820MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R057A	PTP 820 RFU-C,15GHz,TR490A,Ch1W8z,Hi,14887-15117MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R058A	PTP 820 RFU-C,15GHz,TR490A,Ch1W8z,Lo,14397-14627MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R059A	PTP 820 RFU-C,15GHz,TR490B,Ch9W16z,Hi,15110-15348MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R060A	PTP 820 RFU-C,15GHz,TR490B,Ch9W16z,Lo,14620-14858MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R061A	PTP 820 RFU-C,15GHz,TR644,ChAll,Hi,15144-15341MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R062A	PTP 820 RFU-C,15GHz,TR644,ChAll,Lo,14500-14697MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R063A	PTP 820 RFU-C,15GHz,TR728,Ch1W4w,Hi,15229-15375MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C150082R064A	PTP 820 RFU-C,15GHz,TR728,Ch1W4w,Lo,14500-14647MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C180082B001A	PTP 820S Radio 18GHz,TR1010,ChLow,Hi,18710-19220MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B002A	PTP 820S Radio 18GHz,TR1010,ChLow,Lo,17700-18200MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B003A	PTP 820S Radio 18GHz,TR1010,ChHigh,Hi,19160-19700MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B004A	PTP 820S Radio 18GHz,TR1010,ChHigh,Lo,18126-18690MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B005A	PTP 820S Radio 18GHz,TR1560,ChAll,Hi,19259-19710MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C180082B006A	PTP 820S Radio 18GHz,TR1560,ChAll,Lo,17699-18150MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C180082B007A	PTP 820S Radio 18WGHz,TR1010,ChLow,Hi,18710-19220MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B008A	PTP 820S Radio 18WGHz,TR1010,ChLow,Lo,17700-18200MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B009A	PTP 820S Radio 18WGHz,TR1010,ChHigh,Hi,19160-19700MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B010A	PTP 820S Radio 18WGHz,TR1010,ChHigh,Lo,18126-18690MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B011A	PTP 820S Radio 18WGHz,TR1560,ChAll,Hi,19259-19710MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B012A	PTP 820S Radio 18WGHz,TR1560,ChAll,Lo,17699-18150MHz	USD	\$4,250.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C180082B013A	PTP 820C Radio 18GHz,TR1010,ChLow,Hi,18710-19220MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C180082B014A	PTP 820C Radio 18GHz,TR1010,ChLow,Lo,17700-18200MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C180082B015A	PTP 820C Radio 18GHz,TR1010,ChHigh,Hi,19160-19700MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C180082B016A	PTP 820C Radio 18GHz,TR1010,ChHigh,Lo,18126-18690MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C180082B017A	PTP 820C Radio 18GHz,TR1560,ChAll,Hi,19259-19710MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C180082B018A	PTP 820C Radio 18GHz,TR1560,ChAll,Lo,17699-18150MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C180082B019A	PTP 820C Radio 18WGHz,TR1010,ChLow,Hi,18710-19220MHz	USD	\$7,350.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B020A	PTP 820C Radio 18WGHz,TR1010,ChLow,Lo,17700-18200MHz	USD	\$7,350.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B021A	PTP 820C Radio 18WGHz,TR1010,ChHigh,Hi,19160-19700MHz	USD	\$7,350.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B022A	PTP 820C Radio 18WGHz,TR1010,ChHigh,Lo,18126-18690MHz	USD	\$7,350.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517620050	Israel	5A991.b.7	5A991	Obsolete	Per Allen Yu, item not orderable by customer/obsolete
C180082B023A	PTP 820C Radio 18WGHz,TR1560,ChAll,Hi,19259-19710MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C180082B024A	PTP 820C Radio 18WGHz,TR1560,ChAll,Lo,17699-18150MHz	USD	\$6,300.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C180082R025A	PTP 820 RFU-C,18GHz,TR1010,ChL,Hi,18710-19220MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C180082R026A	PTP 820 RFU-C,18GHz,TR1010,ChL,Lo,17700-18200MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C180082R027A	PTP 820 RFU-C,18GHz,TR1010,ChH,Hi,19160-19700MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C180082R028A	PTP 820 RFU-C,18GHz,TR1010,ChH,Lo,18126-18690MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C180082R029A	PTP 820 RFU-C,18GHz,TR1560,ChF,Hi,19259-19710MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C180082R030A	PTP 820 RFU-C,18GHz,TR1560,ChF,Lo,17699-18150MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C230082B001A	PTP 820S Radio 23GHz,TR1008,ChAll,Hi,23001-23600MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C230082B002A	PTP 820S Radio 23GHz,TR1008,ChAll,Lo,22000-22600MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Future Release
C230082B003A	PTP 820S Radio 23GHz,TR1200/1232,ChLow,Hi,22400-23020MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.3 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Future Release
C230082B004A	PTP 820S Radio 23GHz,TR1200/1232,ChLow,Lo,21200-21800MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C230082B005A	PTP 820S Radio 23GHz,TR1200/1232,ChHigh,Hi,23000-23601MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Future Release
C230082B006A	PTP 820S Radio 23GHz,TR1200/1232,ChHigh,Lo,21780-22400MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C230082B007A	PTP 820C Radio 23GHz,TR1008,ChAll,Hi,23001-23600MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	6.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C230082B008A	PTP 820C Radio 23GHz,TR1008,ChAll,Lo,22000-22600MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase II
C230082B009A	PTP 820C Radio 23GHz,TR1200/1232,ChLow,Hi,22400-23020MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C230082B010A	PTP 820C Radio 23GHz,TR1200/1232,ChLow,Lo,21200-21800MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	Phase I
C230082B011A	PTP 820C Radio 23GHz,TR1200/1232,ChHigh,Hi,23000-23601MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C230082B012A	PTP 820C Radio 23GHz,TR1200/1232,ChHigh,Lo,21780-22400MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
C230082R013A	PTP 820 RFU-C,23GHz,TR1008,ChE,Hi,23000-23600MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C230082R014A	PTP 820 RFU-C,23GHz,TR1008,ChE,Lo,22000-22600MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase II
C230082R017A	PTP 820 RFU-C,23GHz,TR1200/1232,ChL,Hi,22400-23020MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C230082R018A	PTP 820 RFU-C,23GHz,TR1200/1232,ChL,Lo,21200-21800MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C230082R019A	PTP 820 RFU-C,23GHz,TR1200/1232,ChH,Hi,23000-23600MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I
C230082R020A	PTP 820 RFU-C,23GHz,TR1200/1232,ChH,Lo,21780-22400MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050		5A991.b.7	5A991	Released	Phase I

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C240082B001A	PTP 820S Radio 24GHz,UL,All,Hi,24170-24250MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7		Released Fully Released	
C240082B002A	PTP 820S Radio 24GHz,UL,All,Lo,24000-24080MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B003A	PTP 820S Radio 24GHz,UL,All,24000-24250MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B004A	PTP 820C Radio 24GHz,UL,All,Hi,24170-24250MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B005A	PTP 820C Radio 24GHz,UL,All,Lo,24000-24080MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B006A	PTP 820C Radio 24GHz,UL,All,24000-24250MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B023A	PTP 820S Radio 24GHz HP,UL,All,Hi,24194-24250MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B024A	PTP 820S Radio 24GHz HP,UL,All,Lo,24000-24056MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B025A	PTP 820C Radio 24GHz HP,UL,All,Hi,24194-24250MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517620050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082B026A	PTP 820C Radio 24GHz HP,UL,All,Lo,24000-24056MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517620050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082R007A	PTP 820 RFU-C,24GHz,UL,24000-24250MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082R008A	PTP 820 RFU-C,24GHz,TR140,ChDX2,Hi,24190-24220MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082R009A	PTP 820 RFU-C,24GHz,TR140,ChDX2,Lo,24050-24080MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082R010A	PTP 820 RFU-C,24GHz,TR140,ChDX3,Hi,24220-24250MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C240082R011A	PTP 820 RFU-C,24GHz,TR140,ChDX3,Lo,24080-24110MHz	USD	\$3,450.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C260082B001A	PTP 820S Radio 26GHz,TR1008,ChLow,Hi,25530-26030MHz	USD	\$4,000.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C260082B002A	PTP 820S Radio 26GHz,TR1008,ChLow,Lo,24520-25030MHz	USD	\$4,000.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C260082B003A	PTP 820S Radio 26GHz,TR1008,ChHigh,Hi,25980-26480MHz	USD	\$4,000.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C260082B004A	PTP 820S Radio 26GHz,TR1008,ChHigh,Lo,24970-25480MHz	USD	\$4,000.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released Fully Released	
C260082B005A	PTP 820C Radio 26GHz,TR1008,ChLow,Hi,25530-26030MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082B006A	PTP 820C Radio 26GHz,TR1008,ChLow,Lo,24520-25030MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082B007A	PTP 820C Radio 26GHz,TR1008,ChHigh,Hi,25980-26480MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082B008A	PTP 820C Radio 26GHz,TR1008,ChHigh,Lo,24970-25480MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R009A	PTP 820 RFU-C,26GHz,TR1008,ChL,Hi,25530-26030MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R010A	PTP 820 RFU-C,26GHz,TR1008,ChL,Lo,24520-25030MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R011A	PTP 820 RFU-C,26GHz,TR1008,ChH,Hi,25980-26480MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R012A	PTP 820 RFU-C,26GHz,TR1008,ChH,Lo,24970-25480MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R013A	PTP 820 RFU-C,26GHz,TR800,ChL,Hi,25266-25350MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R014A	PTP 820 RFU-C,26GHz,TR800,ChL,Lo,24466-24550MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C260082R015A	PTP 820 RFU-C,26GHz,TR800,ChH,Hi,25050-25250MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C260082R016A	PTP 820 RFU-C,26GHz,TR800,ChH,Lo,24250-24450MHz	USD	\$4,000.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7		Released	
C280082B001A	PTP 820S Radio 28GHz,TR1008,ChLow,Hi,28556-29005MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B002A	PTP 820S Radio 28GHz,TR1008,ChLow,Lo,27548-27997MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B003A	PTP 820S Radio 28GHz,TR1008,ChHigh,Hi,29004-29456MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B004A	PTP 820S Radio 28GHz,TR1008,ChHigh,Lo,27996-28448MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B005A	PTP 820S Radio 28GHz,TR1008,ChDX8,Hi,28948-29453MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B006A	PTP 820S Radio 28GHz,TR1008,ChDX8,Lo,27940-28445MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B007A	PTP 820C Radio 28GHz,TR1008,ChLow,Hi,28556-29005MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B008A	PTP 820C Radio 28GHz,TR1008,ChLow,Lo,27548-27997MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B009A	PTP 820C Radio 28GHz,TR1008,ChHigh,Hi,29004-29456MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B010A	PTP 820C Radio 28GHz,TR1008,ChHigh,Lo,27996-28448MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B011A	PTP 820C Radio 28GHz,TR1008,ChDX8,Hi,28948-29453MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082B012A	PTP 820C Radio 28GHz,TR1008,ChDX8,Lo,27940-28445MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R013A	PTP 820 RFU-C,28GHz,TR1008,ChL,Hi,28556-29005MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R014A	PTP 820 RFU-C,28GHz,TR1008,ChL,Lo,27548-27997MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R015A	PTP 820 RFU-C,28GHz,TR1008,ChHz,Hi,29004-29456MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R016A	PTP 820 RFU-C,28GHz,TR1008,ChHz,Lo,27996-28448MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R017A	PTP 820 RFU-C,28GHz,TR125,ChF,Hi,29223.5-29251.5MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R018A	PTP 820 RFU-C,28GHz,TR125,ChF,Lo,29098.5-29126.5MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R019A	PTP 820 RFU-C,28GHz,TR350,ChL,Hi,27960-28110MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R020A	PTP 820 RFU-C,28GHz,TR350,ChL,Lo,27610-27760MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R021A	PTP 820 RFU-C,28GHz,TR350,ChH,Hi,28050-28200MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R022A	PTP 820 RFU-C,28GHz,TR350,ChH,Lo,27700-27850MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R023A	PTP 820 RFU-C,28GHz,TR450,ChL,Hi,27950-28150MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R024A	PTP 820 RFU-C,28GHz,TR450,ChL,Lo,27500-27700MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R025A	PTP 820 RFU-C,28GHz,TR450,ChH,Hi,28150-28350MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R026A	PTP 820 RFU-C,28GHz,TR450,ChH,Lo,27700-27900MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R027A	PTP 820 RFU-C,28GHz,TR490,ChL,Hi,28090-28315MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C280082R028A	PTP 820 RFU-C,28GHz,TR490,ChL,Lo,27600-27825MHz	USD	\$4,600.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	
C310082R001A	PTP 820 RFU-C,31GHz,TR175,Chw,Hi,31215-31300MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5 kg		8517.62.0050	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C310082R002A	PTP 820 RFU-C,31GHz,TR175,Chw,Lo,31000-31085MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C320082B001A	PTP 820S Radio 32GHz,TR812,ChLow,Hi,32627-33019MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B002A	PTP 820S Radio 32GHz,TR812,ChLow,Lo,31815-32207MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B003A	PTP 820S Radio 32GHz,TR812,ChHigh,Hi,32991-33383MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B004A	PTP 820S Radio 32GHz,TR812,ChHigh,Lo,32179-32571MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B005A	PTP 820C Radio 32GHz,TR812,ChLow,Hi,32627-33019MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B006A	PTP 820C Radio 32GHz,TR812,ChLow,Lo,31815-32207MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B007A	PTP 820C Radio 32GHz,TR812,ChHigh,Hi,32991-33383MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082B008A	PTP 820C Radio 32GHz,TR812,ChHigh,Lo,32179-32571MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C320082R009A	PTP 820 RFU-C,32GHz,TR812,ChL,Hi,32627-33019MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C320082R010A	PTP 820 RFU-C,32GHz,TR812,ChL,Lo,31815-32207MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C320082R011A	PTP 820 RFU-C,32GHz,TR812,ChH,Hi,32991-33383MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C320082R012A	PTP 820 RFU-C,32GHz,TR812,ChH,Lo,32179-32571MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B001A	PTP 820S Radio 38GHz,TR1260,ChLow,Hi,38316-38936MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B002A	PTP 820S Radio 38GHz,TR1260,ChLow,Lo,37045-37676MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B003A	PTP 820S Radio 38GHz,TR1260,ChHigh,Hi,38820-39440MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B004A	PTP 820S Radio 38GHz,TR1260,ChHigh,Lo,37560-38180MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	5.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B005A	PTP 820S Radio 38GHz,TR700,ChAL ,Hi,37700-38050MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B006A	PTP 820S Radio 38GHz,TR700,ChAL,Lo,37000-37350MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B007A	PTP 820S Radio 38GHz,TR700,ChAH,Hi,38050-38400MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B008A	PTP 820S Radio 38GHz,TR700,ChAH,Lo,37350-37700MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B009A	PTP 820S Radio 38GHz,TR700,ChBL,Hi,39300-39650MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B010A	PTP 820S Radio 38GHz,TR700,ChBL,Lo,38600-38950MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B011A	PTP 820S Radio 38GHz,TR700,ChBH,Hi,39650-40000MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B012A	PTP 820S Radio 38GHz,TR700,ChBH,Lo,38950-39300MHz	USD	\$3,500.00	PTP : Licensed : PTP820	Backhaul	6	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C380082B013A	PTP 820C Radio 38GHz,TR1260,ChLow,Hi,38316-38936MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B014A	PTP 820C Radio 38GHz,TR1260,ChLow,Lo,37045-37676MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B015A	PTP 820C Radio 38GHz,TR1260,ChHigh,Hi,38820-39440MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B016A	PTP 820C Radio 38GHz,TR1260,ChHigh,Lo,37560-38180MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B017A	PTP 820C Radio 38GHz,TR700,ChAL ,Hi,37700-38050MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
C380082B018A	PTP 820C Radio 38GHz,TR700,ChAL,Lo,37000-37350MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B019A	PTP 820C Radio 38GHz,TR700,ChAH,Hi,38050-38400MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B020A	PTP 820C Radio 38GHz,TR700,ChAH,Lo,37350-37700MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B021A	PTP 820C Radio 38GHz,TR700,ChBL,Hi,39300-39650MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B022A	PTP 820C Radio 38GHz,TR700,ChBL,Lo,38600-38950MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B023A	PTP 820C Radio 38GHz,TR700,ChBH,Hi,39650-40000MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082B024A	PTP 820C Radio 38GHz,TR700,ChBH,Lo,38950-39300MHz	USD	\$5,975.00	PTP : Licensed : PTP820	Backhaul	5.7	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R025A	PTP 820 RFU-C,38GHz,TR1260,ChLw,Hi,38316-38936MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R026A	PTP 820 RFU-C,38GHz,TR1260,ChLw,Lo,37045-37676MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R027A	PTP 820 RFU-C,38GHz,TR1260,ChH,Hi,38820-39440MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R028A	PTP 820 RFU-C,38GHz,TR1260,ChH,Lo,37560-38180MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R029A	PTP 820 RFU-C,38GHz,TR700,ChAL,Hi,37700-38050MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R030A	PTP 820 RFU-C,38GHz,TR700,ChAL,Lo,37000-37350MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R031A	PTP 820 RFU-C,38GHz,TR700,ChAH,Hi,38050-38400MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R032A	PTP 820 RFU-C,38GHz,TR700,ChAH,Lo,37350-37700MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R033A	PTP 820 RFU-C,38GHz,TR700,ChBL,Hi,39300-39650MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R034A	PTP 820 RFU-C,38GHz,TR700,ChBL,Lo,38600-38950MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R035A	PTP 820 RFU-C,38GHz,TR700,ChBH,Hi,39650-40000MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C380082R036A	PTP 820 RFU-C,38GHz,TR700,ChBH,Lo,38950-39300MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	
C420082R001A	PTP 820 RFU-C,42GHz,TR1500,ChL,Hi,42050-42778MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C420082R002A	PTP 820 RFU-C,42GHz,TR1500,ChL,Lo,40550-41278MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C420082R003A	PTP 820 RFU-C,42GHz,TR1500,ChH,Hi,42722-43450MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
C420082R004A	PTP 820 RFU-C,42GHz,TR1500,ChH,Lo,41222-41950MHz	USD	\$4,800.00	PTP : Licensed : PTP820	ODU or IRFU	4.5	kg	8517.62.0050	Israel	5A991.b.7	5A991	Released	Fully Released
CBL-0562D	CAT-5 cable, straight-thru	USD	\$10.00	PMP	Accessory	0.2	kg	8517700000	United States	EAR99	EAR99	Obsolete	
CBL-0565A	CROSSOVER CAT-5 CBL	USD	\$15.00	PMP	Accessory			8517700000	United States	EAR99	EAR99	Obsolete	
CC-PLC10T1-WW	Cambium Care Plus Service Category 10 Price Tier 1	USD	\$5.00	Plus	Service					EAR99	EAR99	Released	
CC-PLC10T1-WW	Cambium Care Plus Service Category 10 Price Tier 1	USD	\$5.00	Plus	Service					EAR99	EAR99	Released	
CC-PLC10T2-WW	Cambium Care Plus Service Category 10 Price Tier 2	USD	\$4.50	Plus	Service					EAR99	EAR99	Released	
CC-PLC10T2-WW	Cambium Care Plus Service Category 10 Price Tier 2	USD	\$4.50	Plus	Service					EAR99	EAR99	Released	
CC-PLC10T3-WW	Cambium Care Plus Service Category 10 Price Tier 3	USD	\$4.25	Plus	Service					EAR99	EAR99	Released	
CC-PLC10T3-WW	Cambium Care Plus Service Category 10 Price Tier 3	USD	\$4.25	Plus	Service					EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
CC-PLC10T4-WW	Cambium Care Plus Service Category 10 Price Tier 4	USD	\$3.75	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC10T4-WW	Cambium Care Plus Service Category 10 Price Tier 4	USD	\$3.75	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC10T5-WW	Cambium Care Plus Service Category 10 Price Tier 5	USD	\$2.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC10T5-WW	Cambium Care Plus Service Category 10 Price Tier 5	USD	\$2.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T1-WW	Cambium Care Plus Service Category 20 Price Tier 1	USD	\$20.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T1-WW	Cambium Care Plus Service Category 20 Price Tier 1	USD	\$20.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T2-WW	Cambium Care Plus Service Category 20 Price Tier 2	USD	\$18.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T2-WW	Cambium Care Plus Service Category 20 Price Tier 2	USD	\$18.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T3-WW	Cambium Care Plus Service Category 20 Price Tier 3	USD	\$17.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T3-WW	Cambium Care Plus Service Category 20 Price Tier 3	USD	\$17.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T4-WW	Cambium Care Plus Service Category 20 Price Tier 4	USD	\$15.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC20T5-WW	Cambium Care Plus Service Category 20 Price Tier 5	USD	\$10.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC30T1-WW	Cambium Care Plus Service Category 30 Price Tier 1	USD	\$50.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC30T2-WW	Cambium Care Plus Service Category 30 Price Tier 2	USD	\$45.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC30T3-WW	Cambium Care Plus Service Category 30 Price Tier 3	USD	\$42.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC30T4-WW	Cambium Care Plus Service Category 30 Price Tier 4	USD	\$37.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC30T5-WW	Cambium Care Plus Service Category 30 Price Tier 5	USD	\$25.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC40T1-WW	Cambium Care Plus Service Category 40 Price Tier 1	USD	\$70.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC40T2-WW	Cambium Care Plus Service Category 40 Price Tier 2	USD	\$63.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC40T3-WW	Cambium Care Plus Service Category 40 Price Tier 3	USD	\$59.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC40T4-WW	Cambium Care Plus Service Category 40 Price Tier 4	USD	\$52.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC40T5-WW	Cambium Care Plus Service Category 40 Price Tier 5	USD	\$35.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC50T1-WW	Cambium Care Plus Service Category 50 Price Tier 1	USD	\$120.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC50T2-WW	Cambium Care Plus Service Category 50 Price Tier 2	USD	\$108.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC50T3-WW	Cambium Care Plus Service Category 50 Price Tier 3	USD	\$102.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC50T4-WW	Cambium Care Plus Service Category 50 Price Tier 4	USD	\$90.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC50T5-WW	Cambium Care Plus Service Category 50 Price Tier 5	USD	\$60.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC60T1-WW	Cambium Care Plus Service Category 60 Price Tier 1	USD	\$225.00	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC60T2-WW	Cambium Care Plus Service Category 60 Price Tier 2	USD	\$202.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC60T3-WW	Cambium Care Plus Service Category 60 Price Tier 3	USD	\$191.25	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
CC-PLC60T4-WW	Cambium Care Plus Service Category 60 Price Tier 4	USD	\$168.75	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PLC60T5-WW	Cambium Care Plus Service Category 60 Price Tier 5	USD	\$112.50	Global Services : Cambium Care Plus	Service					EAR99	EAR99	Released	
CC-PRC10T1-WW	Cambium Care Prime Service Category 10 Price Tier 1	USD	\$20.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC10T2-WW	Cambium Care Prime Service Category 10 Price Tier 2	USD	\$19.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC10T3-WW	Cambium Care Prime Service Category 10 Price Tier 3	USD	\$18.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC10T4-WW	Cambium Care Prime Service Category 10 Price Tier 4	USD	\$17.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC10T5-WW	Cambium Care Prime Service Category 10 Price Tier 5	USD	\$16.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC20T1-WW	Cambium Care Prime Service Category 20 Price Tier 1	USD	\$40.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC20T2-WW	Cambium Care Prime Service Category 20 Price Tier 2	USD	\$38.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC20T3-WW	Cambium Care Prime Service Category 20 Price Tier 3	USD	\$36.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC20T4-WW	Cambium Care Prime Service Category 20 Price Tier 4	USD	\$34.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC20T5-WW	Cambium Care Prime Service Category 20 Price Tier 5	USD	\$32.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC30T1-WW	Cambium Care Prime Service Category 30 Price Tier 1	USD	\$134.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC30T2-WW	Cambium Care Prime Service Category 30 Price Tier 2	USD	\$120.60	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC30T3-WW	Cambium Care Prime Service Category 30 Price Tier 3	USD	\$113.90	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC30T4-WW	Cambium Care Prime Service Category 30 Price Tier 4	USD	\$100.50	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC30T5-WW	Cambium Care Prime Service Category 30 Price Tier 5	USD	\$67.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC40T1-WW	Cambium Care Prime Service Category 40 Price Tier 1	USD	\$210.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC40T2-WW	Cambium Care Prime Service Category 40 Price Tier 2	USD	\$189.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC40T3-WW	Cambium Care Prime Service Category 40 Price Tier 3	USD	\$178.50	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC40T4-WW	Cambium Care Prime Service Category 40 Price Tier 4	USD	\$157.50	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC40T5-WW	Cambium Care Prime Service Category 40 Price Tier 5	USD	\$105.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC50T1-WW	Cambium Care Prime Service Category 50 Price Tier 1	USD	\$375.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC50T2-WW	Cambium Care Prime Service Category 50 Price Tier 2	USD	\$337.50	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC50T3-WW	Cambium Care Prime Service Category 50 Price Tier 3	USD	\$318.75	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC50T4-WW	Cambium Care Prime Service Category 50 Price Tier 4	USD	\$281.25	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC50T5-WW	Cambium Care Prime Service Category 50 Price Tier 5	USD	\$187.50	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC60T1-WW	Cambium Care Prime Service Category 60 Price Tier 1	USD	\$700.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC60T2-WW	Cambium Care Prime Service Category 60 Price Tier 2	USD	\$630.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC60T3-WW	Cambium Care Prime Service Category 60 Price Tier 3	USD	\$595.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
CC-PRC60T4-WW	Cambium Care Prime Service Category 60 Price Tier 4	USD	\$525.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
CC-PRC60T5-WW	Cambium Care Prime Service Category 60 Price Tier 5	USD	\$350.00	Global Services : Cambium Care Prime	Service					EAR99	EAR99	Released	
					Accessory								Per Matt M. <input type="checkbox"/> CMM3DD is not sold to customers... this should not be available to anyone for purchase. <input type="checkbox"/> <input type="checkbox"/>
CMM3DD	CONTROL UNIT, CMM3 CLUSTER MANAGEMENT MODULE	USD	\$1,395.00	PMP		0.3 kg		8517700000	Mexico	5A991	5A991	Obsolete	*Cannot Obsolete Engineering Status in Arena as CMM3DD is used in 1070CKHH
CTCAT5-01A	CATEGORY 5 CABLE TESTER	USD	\$150.00	PMP	Accessory	0.12345 kg		8517700000	United States	5A992.a	5A992.a	Obsolete	
FC_PTP800-A-11GHz	PTP 800 11GHz ODU-A Forecast only <input type="checkbox"/>	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP800-A-6GHz	PTP 800 6GHz ODU-A Forecast only <input type="checkbox"/>	USD	\$2,808.00	PTP : Licensed : PTP800	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-10GHz	PTP 820 RFU-C Radio 10 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-11GHz	PTP 820 RFU-C Radio 11 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-13GHz	PTP 820 RFU-C Radio 13 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-15GHz	PTP 820 RFU-C Radio 15 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-18GHz	PTP 820 RFU-C Radio 18 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820-RFU-C-23GHz	PTP 820 RFU-C Radio 23 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-24GHz	PTP 820 RFU-C Radio 24 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-26GHz	PTP 820 RFU-C Radio 26 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-28GHz	PTP 820 RFU-C Radio 28 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-32GHz	PTP 820 RFU-C Radio 32 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820-RFU-C-38GHz	PTP 820 RFU-C Radio 38 GHz □ □ □ □ □ □ □ □ □ □ □	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-42GHz	PTP 820 RFU-C Radio 42 GHz □ □ □ □ □ □ □ □ □ □ □	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-6GHz	PTP 820 RFU-C Radio 6 GHz □	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-7GHz	PTP 820 RFU-C Radio 7 GHz □ □	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820-RFU-C-8GHz	PTP 820 RFU-C Radio 8 GHz □ □ □	USD	\$2,985.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820C-10GHz	PTP 820C Radio 10 GHz □ □ □ □ □ □ □ □ □ □ □	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena □ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820C-11GHz	PTP 820C Radio 11 GHz ☐	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-13GHz	PTP 820C Radio 13 GHz ☐	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-15GHz	PTP 820C Radio 15 GHz ☐	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820C-18GHz	PTP 820C Radio 18 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-23GHz	PTP 820C Radio 23 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-24GHz	PTP 820C Radio 24 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820C-26GHz	PTP 820C Radio 26 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-28GHz	PTP 820C Radio 28 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820C-32GHz	PTP 820C Radio 32 GHz <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820C-38GHz	PTP 820C Radio 38 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820C-6GHz	PTP 820C Radio 6 GHz PTP 820C Radio 7 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820C-7GHz	PTP 820C Radio 8 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820C-8GHz	PTP 820S Radio 10 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$6,500.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-10GHz	PTP 820S Radio 11 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-11GHz		USD	\$2,965.00 PTP : Licensed : PTP820									Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820S-13GHz	PTP 820S Radio 13 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-15GHz	PTP 820S Radio 15 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-18GHz	PTP 820S Radio 18 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-23GHz	PTP 820S Radio 23 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-24GHz	PTP 820S Radio 24 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-26GHz	PTP 820S Radio 26 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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FC_PTP820S-28GHz	PTP 820S Radio 28 GHz ☐	USD	\$2,965.00 PTP : Licensed : PTP820		ODU or IRFU							Obsolete	Item Abandoned in Arena ☐ Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
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Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
FC_PTP820S-32GHz	PTP 820S Radio 32 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,965.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-38GHz	PTP 820S Radio 38 GHz <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,965.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-6GHz	PTP 820S Radio 6 GHz <input type="checkbox"/>	USD	\$2,965.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-7GHz	PTP 820S Radio 7 GHz <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,965.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
FC_PTP820S-8GHz	PTP 820S Radio 8 GHz <input type="checkbox"/> <input type="checkbox"/>	USD	\$2,965.00	PTP : Licensed : PTP820	ODU or IRFU							Obsolete	Item Abandoned in Arena <input type="checkbox"/> Updated NS statuses to Obsolete as Abandoned does not currently map from Arena to NS
GPSANTPNM03D	GPS ANTENNA, (NO MOUNT)	USD	\$200.00	PMP	Antenna	0.12345	kg	8529.10.4040	Japan	5A992.a	5A992.a	Released	
HDW-2358A	PTP 300/500/600 Series Blanking Plug Pack (QTY 10)	USD	\$50.00	PTP	Accessory	0.12345	kg	8517700000	Germany	EAR99	EAR99	Obsolete	
HDW-2358H	PTP 300/500/600 Series Blanking Plug Pack (QTY 10)	USD	\$50.00	PTP	Accessory	0.12345	kg	7318.19.0000	Mexico	EAR99	EAR99	Released	
HK1132B	5.7 GHZ ADVANTAGE Mini-Starter kit	USD	\$2,750.00	PMP : PMP100	Kit or Mixed Components	2.85	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	EMEA only
HK1132C	5.7 GHZ ADVANTAGE MINI STARTER KIT	USD	\$2,750.00	PMP : PMP100	Kit or Mixed Components	3.3438	kg	8517620050	Mexico	5A991	5A991	Obsolete	
HK1133C	5.2 GHZ ADVANTAGE STARTER KIT W/PS	USD	\$2,750.00	PMP : PMP100	Kit or Mixed Components	2.97345	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1135B	2.4 GHZ ADVANTAGE Mini-Starter kit	USD	\$2,750.00	PMP : PMP100	Kit or Mixed Components	3.0969	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1139B	2.4 GHZ ADVANTAGE AP CLUSTER KIT	USD	\$24,700.00	PMP : PMP100	Kit or Mixed Components	45.292	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1141B	5.7 GHZ ADVANTAGE CLUS/START KIT	USD	\$24,700.00	PMP : PMP100	Kit or Mixed Components	43.33	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	EMEA only
HK1141C	5.7 GHZ ADVANTAGE CLUS/START KIT	USD	\$24,700.00	PMP : PMP100	Kit or Mixed Components	45.292	kg	8517620050	Mexico	5A991	5A991	Obsolete	
HK1243B	900MHZ INTEGRATED AP CLUSTER KIT	USD	\$17,050.00	PMP : PMP100	Kit or Mixed Components	31.942	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1244B	900 MHZ CONNECTORIZED MINI-STARTER KIT	USD	\$3,225.00	PMP : PMP100	Kit or Mixed Components	7.4438	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1266B	900MHZ INTEGRATED ACCESS POINT CLUSTER KIT	USD	\$17,050.00	PMP : PMP100	Kit or Mixed Components	21.942	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	
HK1267B	900 MHZ INTEGRATED MINI-STARTER KIT	USD	\$3,400.00	PMP : PMP100	Kit or Mixed Components	2.8438	kg	8517620050	United States	5A992.a	5A992.a	Obsolete	
HK1282B	5.4 GHZ ADVANTAGE STARTER KIT W/O PS	USD	\$2,750.00	PMP : PMP100	Kit or Mixed Components	2.3	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1283A	5.4 GHZ ACCES POINT CLUSTER KIT	USD	\$24,700.00	PMP : PMP100	Kit or Mixed Components	43.33	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/25/13: when 5400HH stock runs out in NL, sales model can not longer be sold/shipped in EMEA.
HK1283B	5.4 GHZ ADVANTAGE CLUSTER KIT	USD	\$24,700.00	PMP : PMP100	Kit or Mixed Components	45.292	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	Change #ECO-005206 <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1329B	5.7 GHZ LITE SUB MDL	USD	\$5,000.00 PMP : PMP100			11.25 kg		8517620050	Mexico	5A991	5A991	Obsolete	
					Kit or Mixed Components							Obsolete	ECO-004238 created to change ENG status to Obs. No longer selling per Matt M. Once ECO approved, DC statuses will be updated Per Matt M.- turn this unorderable and obsolete right away. If someone wants to order, we can address at that time
HK1366A	600 SURGE SUPPRESSOR, 25 PK	USD	\$875.00 PMP			6.25 kg		8517700000	Mexico	EAR99	EAR99	Obsolete	
HK1367A	2.4GHZ 20MBPS BACKHAUL, 4 PK	USD	\$4,935.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1368A	2.4GHZ BACKHAUL, 4PK	USD	\$3,285.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1371A	2.4GHZ 20MBPS BACKHAUL ADJUSTABLE POWER SET TO LOW, 4 PK	USD	\$6,500.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1372A	2.4GHZ BACKHAUL ADJUSTABLE PWR SET TO LOW, 4PK	USD	\$4,375.00 PMP : PTP100		Kit or Mixed Components	1.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1378A	2.4GHZ SUBSCRIBER MODULE ADJUSTABLE POWER SET TO LOW, 25 PK	USD	\$14,375.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	Change #ECO-005206 <input type="checkbox"/> <input type="checkbox"/> End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1383A	2.4GHZ LITE SUBSCRIBER MODULE 25 PK	USD	\$5,000.00 PMP : PMP100			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1383AINTL	2.4 GHZ LITE SUBSCRIBER MODULE, 25PK	USD	\$5,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUP	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	Eng. Obsolete on ECO-004180 □ DN-1121 EOL notice □ □ Changed status back to Pend Obs to ship order. Currently have 375 of the 5260SMG in NA stock □ □ Made Sales Group available in □ APAC Standard □ NA Standard □ CALA Standard □ per Matt M. Sept. 8th 2015
HK1400B	5.2 GHZ LITE SUBSCRIBER MODULE, 25 PK	USD	\$5,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Changed back to Pend Obs to ship out order and clear remaining stock. Need to change back to OBS once order ships SUS13796 □ □ Eng. Obsolete on ECO-004180 □ DN-1121 EOL notice
HK1553B	5.4 GHZ LITE SUBSCRIBER MODULE, 25 PK	USD	\$5,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Also kits with part numbers 9000SMFH & 9000SMF2HH need to be obsolete. □ ECO-004391 □ □ There will be no programming capability at UPS for these kits that use these 3 tanapa numbers; 9000SMHH, 9000SMFH & 9000SMF2HH
HK1572A HK1574A	900 MHZ SUBSCRIBER MODULE 25 PK 900 MHZ CONNECTORIZED SUBSCRIBER MODULE 25 PK	USD USD	\$10,000.00 PMP : PMP100 \$8,250.00 PMP : PMP100		Kit or Mixed Components	11.25 kg 11.25 kg		8517620050 8517620050	United States Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6/25/13: when 5400HH stock runs out in NL, sales model can not longer be sold/shipped in EMEA.
HK1592A	5.4GHZ DEMO KIT	USD	\$2,750.00 PMP : PMP100		Kit or Mixed Components	2.85 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End Of Life, Obsolete item □ "DN-1206" □ □ Announcement of EOL: Sept 21, 2015 □ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) □ □ End of Product Support: January 29, 2021 □ □ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1617B	5.7 GHZ SUBSCRIBER MODULE, 25 PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	Change #ECO-005206 ☐ ☐ End Of Life, Obsolete item ☐ *DN-1206* ☐ ☐ Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐ ☐ End of Product Support: January 29, 2021 ☐ ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1618B	5.2 GHZ SUBSCRIBER MODULE, 25 PK	USD	\$8,000.00 PMP : PMP100			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item ☐ *DN-1206* ☐ ☐ Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐ ☐ End of Product Support: January 29, 2021 ☐ ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1619A	2.4GHZ SUBSCRIBER MODULE 25 PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1619AINTL	2.4 GHZ SUBSCRIBER MODULE, 25PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1740B	5.4 GHZ SUBSCRIBER MODULE, 25PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Cannot be sold in EMEA. No longer sale-able ☐ Item Deprecated in Arena
HK1807A	CANOPY LENS 25PK	USD	\$1,375.00 PMP		Kit or Mixed Components	29 kg		8517700000	United States	5A991	5A991	Obsolete	
HK1839B	5.7 GHZ SUBSCRIBER MODULE HPOL 25PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	0.12345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
HK1844B	5.4 GHZ HPOL SM, 25PK	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1864A	900 MHZ ACCESS POINT LIMITED BUNDLE PACK	USD	\$4,005.00 PMP : PMP100		Kit or Mixed Components	4.95 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1865A	900 MHZ ACCESS POINT LIMITED BUNDLE PACK W/AES	USD	\$5,500.00 PMP : PMP100		Kit or Mixed Components	4.95 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
					Kit or Mixed Components							Obsolete	
HK1866A	5.7 GHZ 4MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$6,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1866AINTL	5.7 GHZ 4 MBPS OFDM SUBSCRIBER MODULE, 25PK	USD	\$6,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1867A	5.7 GHZ 10MBPS OFDM SUBSCRIBER MODULE, 25PK	USD	\$7,475.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1868A	5.7 GHZ 20MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$8,725.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1869A	5.7 GHZ 40MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$11,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1870A	5.7 GHZ OFDM STARTER KIT	USD	\$24,775.00 PMP : PMP430		Kit or Mixed Components	52.74 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1870AEU	5.7 GHZ OFDM STARTER KIT, EU	USD	\$24,775.00 PMP : PMP430		Kit or Mixed Components	69.25345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1871A	5.7 GHZ OFDM TRIAL KIT	USD	\$5,175.00 PMP : PMP430		Kit or Mixed Components	16.87 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1871AEU	5.7 GHZ OFDM TRIAL KIT, EU	USD	\$5,175.00 PMP : PMP430		Kit or Mixed Components	14.12 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1872A	5.7 GHZ OFDM TRIAL KIT	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	13.52 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1872AEU	5.7 GHZ OFDM TRIAL KIT, EU	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	10.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐
HK1881A	PMP35320 SUBSCRIBER MODULE 25 PK	USD	\$9,875.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A992.c	5A992.c	Obsolete	15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE ECO-004231 to Obsolete item. ☐ No longer selling INTL items ☐
HK1881AINTL	PMP35320 SUBSCRIBER MODULE, 25PK	USD	\$9,875.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A992.c	5A992.c	Obsolete	PMP 320 cancellation was announced in March. See DN-1105.
					Kit or Mixed Components								14-Aug-2015 ☐ Tanapa (3630HH) associated with this kit is now completely obsolete. ☐ Ok to Obsolete region statuses per Matt M. ☐ TO include: ☐ 3630HH, 3630SM, HK1882A, HK1941A ☐ All contained the 3630HH ☐
					Kit or Mixed Components								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐
HK1882A	PMP36320 SUBSCRIBER MODULE 25 PK	USD	\$9,875.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A991	5A991	Obsolete	15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE ECO-004231 to Obsolete item. ☐ No longer selling INTL items ☐
HK1882AINTL	PMP36320 SUBSCRIBER MODULE, 25PK	USD	\$9,875.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A992.a	5A992.a	Obsolete	PMP 320 cancellation was announced in March. See DN-1105.
HK1883A	5.2 GHZ ADVANTAGE STARTER KIT W/PS, US	USD	\$2,750.00 PMP : PMP100		Kit or Mixed Components	2.97345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1884A	5.2 GHZ ADVANTAGE CLUSTER KIT, US	USD	\$24,700.00 PMP : PMP100		Kit or Mixed Components	45.292 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1885A	5.4 GHZ ADVANTAGE CLUSTER KIT, US	USD	\$24,700.00 PMP : PMP100		Kit or Mixed Components	45.292 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Cannot be sold in EMEA.
HK1886A	5.4 GHZ ADVANTAGE STARTER KIT W/O PS, US	USD	\$2,750.00 PMP : PMP100		Kit or Mixed Components	2.3 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Cannot be sold in EMEA.
HK1887A	5.7 GHZ ADVANTAGE MINI-STARTER KIT, US	USD	\$2,750.00 PMP : PMP100		Kit or Mixed Components	3.3438 kg		8517620050	Mexico	5A991	5A991	Obsolete	
HK1888A	5.7 GHZ ADVANTAGE CLUSTER/START KIT, US	USD	\$24,700.00 PMP : PMP100		Kit or Mixed Components	45.292 kg		8517620050	Mexico	5A991	5A991	Obsolete	
HK1889A	5.7 GHZ OFDM TRIAL KIT, US	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	13.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1897A	5.2 GHZ BACKHAUL LINK, US	USD	\$1,492.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1898A	5.2 GHZ BACKHAUL LINK W/AES, US	USD	PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1899A	5.4 GHZ BACKHAUL LINK, US	USD	\$1,642.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1901A	5.4 GHZ 20MB BACKHAUL LINK, US	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1902A	5.4 GHZ 20MB BACKHAUL LINK W/AES,US	USD	PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1903A	5.7 GHZ BACKHAUL LINK, US	USD	\$1,642.50 PMP : PTP100			0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1905A	5.7 GHZ 20MBPS BACKHAUL LINK, US	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1906A	5.7 GHZ 20MBPS BACKHAUL LINK W/AES,US	USD	PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1907A	5.2 GHZ BACKHAUL LINK	USD	\$1,492.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1908A	5.2 GHZ BACKHAUL LINK W/AES	USD	PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1909A	5.4 GHZ BACKHAUL LINK	USD	\$1,642.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1911A	5.4 GHZ 20 MBPS BACKHAUL LINK	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1912A	5.4 GHZ 20MB BACKHAUL LINK W/AES	USD	\$4,290.00 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1913A	5.7 GHZ BACKHAUL LINK	USD	\$1,642.50 PMP : PTP100			0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1915A	5.7 GHZ 20MBPS BACKHAUL LINK	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1916A	5.7 GHZ 20MBPS BACKHAUL LINK W/AES	USD	\$2,468.00 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1920A	2.4 GHZ 20 MBPS BACKHAUL LINK W/AES	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	.a	.a	Obsolete	Eng. Obsolete on ECO-004180 <input type="checkbox"/> DN-1121 EOL notice
HK1925A	5.4 GHZ OFDM TRIAL KIT, US	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	13.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1926A	5.4 GHZ OFDM TRIAL KIT	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	10.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1926AEU	5.4 GHZ OFDM TRIAL KIT, EU	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	10.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
HK1927A	5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$6,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1927AINTL	5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$6,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
HK1928A	5.4 GHZ 10 MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$7,475.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1929A	5.4 GHZ 20 MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$8,725.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1930A	5.4 GHZ 40 MBPS OFDM SUBSCRIBER MODULE - 25PK	USD	\$11,225.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 <input type="checkbox"/> <input type="checkbox"/> 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
HK1932A	PMP320 3.5 GHZ TRIAL KIT	USD	\$6,910.00 PMP : PMP300			26.50995 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
HK1933A	PMP320 3.65 GHZ TRIAL KIT	USD	\$6,910.00 PMP : PMP300			26.70995 kg		8517620050	China	5A002.a.1	5A002.a.1	Obsolete	
HK1934A	5.2 GHZ 20 MPBS BACKHAUL LINK	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1935A	5.2 GHZ 20 MBPS BACKHAUL LINK, US	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1936A	5.2 GHZ 20 MPBS BACKHAUL LINK W/AES	USD	\$2,467.50 PMP : PTP100		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
					Kit or Mixed Components								End Of Life, Obsolete item ☐ *DN-1206* ☐ ☐ Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐ ☐ End of Product Support: January 29, 2021 ☐ ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
HK1937A	900 MHZ CONNECTORIZED SUBSCRIBER MODULE, PK 25	USD	\$9,750.00 PMP : PMP100			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1938A	900 MHZ SUBSCRIBER MODULE, PK 25	USD	\$12,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	United States	5A992.a	5A992.a	Obsolete	
HK1939A	5.2 GHZ SM P11 HPOL 25pk	USD	\$8,000.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components								14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
HK1940A	PMP320 SUBSCRIBER MODULE 25PK 3.3-3.6 GHZ	USD	\$12,250.00 PMP : PMP300			78.25 kg		8517620050	China	5A992.c	5A992.c	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components							Obsolete	14-Aug-2015 ☐ Tanapa (3630HH) associated with this kit is now completely obsolete. ☐ Ok to Obsolete region statuses per Matt M. ☐ TO include: ☐ 3630HH, 3630SM, HK1882A, HK1941A ☐ All contained the 3630HH ☐ ☐ 14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too). Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
HK1941A	PMP320 SUBSCRIBER MODULE 25PK 3.6-3.8 GHZ	USD	\$12,250.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A991	5A991	Obsolete	
HK1942A	5.7 GHZ 10Mbps OFDM SM - 25PK	USD	\$9,250.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1943A	5.7 GHZ 20Mbps OFDM SM - 25PK	USD	\$10,875.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1944A	5.7 GHZ 40Mbps OFDM SM - 25PK	USD	\$14,000.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1946A	UNIV MTG BRACKET 25 PK	USD	\$877.50 PMP		Kit or Mixed Components	12.5 kg		8302.50.0000	United States	EAR99	EAR99	Released	
HK1947A	UNIV MTG BRACKET HEAVY DUTY 25 PK	USD	\$1,237.50 PMP		Kit or Mixed Components	25 kg		8302.50.0000	United States	EAR99	EAR99	Released	
HK1948A	SURGE SUPPRESSOR 25 BULK PK	USD	\$625.00 PMP		Kit or Mixed Components	6.25 kg		8535.40.0000	Mexico	EAR99	EAR99	Released	
HK1952A	5.4 GHZ OFDM TRIAL KIT	USD	\$5,155.00 PMP : PMP430		Kit or Mixed Components	14.12 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1953A	5.4 GHZ OFDM STARTER KIT	USD	\$24,775.00 PMP : PMP430		Kit or Mixed Components	69.25345 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1954A	SM ADVANTAGE UPGRADE KEY - FIXED, 25 PACK	USD	\$2,125.00 PMP		SW Key	0 kg		8517700000	United States	5D991	5D991	Obsolete	
					Kit or Mixed Components							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-14 The 3.5 GHz PMP 320 is being replaced with the 3.5 GHz PMP 450 ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
HK1955A	PMP35320 CONNECTORIZED SUBSCRIBER MODULE, 25PK	USD	\$12,375.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
HK1956A	PMP36320 CONNECTORIZED SUBSCRIBER MODULE, 25PK	USD	\$12,375.00 PMP : PMP300		Kit or Mixed Components	78.25 kg		8517620050	China	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components								Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
HK1957A	5.7 GHZ 4MBPS OFDM SM - 25PK	USD	\$7,750.00 PMP : PMP430			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								
HK1958A HK1958AINTL	5.7 GHZ 10 MBPS OFDM BACKHAUL LINK 5.7 GHZ 10 MBPS OFDM BACKHAUL LINK	USD USD	\$1,340.00 PMP : PTP230 \$1,340.00 PMP : PTP230		Kit or Mixed Components	0.9 kg 0.9 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								
HK1959A	5.7 GHZ 20 MBPS OFDM BACKHAUL LINK	USD	\$1,680.00 PMP : PTP230			0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								
HK1960A HK1960AINTL	5.7 GHZ 50 MBPS OFDM BACKHAUL LINK 5.7 GHZ 50 MBPS OFDM BACKHAUL LINK	USD USD	\$2,010.00 PMP : PTP230 \$2,010.00 PMP : PTP230		Kit or Mixed Components	0.9 kg 0.9 kg		8517620050 8517620050	Mexico Mexico	5A992.a 5A992.a	5A992.a 5A992.a	Obsolete Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1961A	5.7 GHZ 10 MBPS OFDM BACKHAUL LINK, US	USD	\$1,340.00 PMP : PTP230		ODU or IRFU	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1962A	5.7 GHZ 20 MBPS OFDM BACKHAUL LINK, US	USD	\$1,680.00 PMP : PTP230		Backhaul	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1963A	5.7 GHZ 50 MBPS OFDM BACKHAUL LINK, US	USD	\$2,010.00 PMP : PTP230		ODU or IRFU	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1964A	5.7 GHZ 10 MBPS OFDM BACKHAUL LINK W/AES	USD	\$1,680.00 PMP : PTP230		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1965A	5.7 GHZ 20 MBPS OFDM BACKHAUL LINK W/AES	USD	\$2,010.00 PMP : PTP230		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								
HK1966A	5.7 GHZ 50 MBPS OFDM BACKHAUL LINK W/AES	USD	\$2,350.00 PMP : PTP230			0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1967A	5.7 GHZ 10 MBPS OFDM BACKHAUL LINK W/AES, US	USD	\$1,680.00 PMP : PTP230		ODU or IRFU	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1968A	5.7 GHZ 20 MBPS OFDM BACKHAUL LINK W/AES, US	USD	\$2,010.00 PMP : PTP230		ODU or IRFU	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK1969A	5.7 GHZ 50 MBPS OFDM BACKHAUL LINK W/AES, US	USD	\$3,495.00 PMP : PTP230		ODU or IRFU	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Item Abandoned <input type="checkbox"/> Change #ECO-005397 0 <input type="checkbox"/> CRB-731
					Kit or Mixed Components								Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
HK1970A	5.4 GHZ 4 MBPS OFDM SUBSCRIBER MODULE, US - 25PK	USD	\$7,750.00 PMP : PMP430			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. End of Sale notification was released, showing final order date of July 30 2015 We are no longer accepting new customer orders for ANY PMP 430 SMs. (the analogous 5790 radios should also be unavailable for order too).
					Kit or Mixed Components								
HK1971A	5.4 GHZ 10 MBPS OFDM SUBSCRIBER MODULE, US - 25PK	USD	\$9,250.00 PMP : PMP430			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Sale Notification for PMP 430 <input type="checkbox"/> DN-1172 <input type="checkbox"/> <input type="checkbox"/>
					Kit or Mixed Components								Announcement of EOL: May 13, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 <input type="checkbox"/>
HK1972A	5.4 GHZ 20 MBPS OFDM SUBSCRIBER MODULE, US - 25PK	USD	\$10,875.00 PMP : PMP430			11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	End of Product Support: May 13, 2020
HK1973A	5.4 GHZ 40 MBPS OFDM SUBSCRIBER MODULE, US - 25PK	USD	\$14,000.00 PMP : PMP430		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Backhaul								6/4/13 inventory depleted, can no longer be sold in EMEA ☐ 6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1976A	PTP230 5.4 GHZ COMPLETE LINK	USD	\$2,040.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1977A	PTP230 5.4 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, US	USD	\$1,760.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Backhaul								6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1978A	PTP230 5.7 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, CANADA	USD	\$1,760.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A991	5A991	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Kit or Mixed Components								Changed back to Pend Obs. Kits will be received back on Stock rotations. Oked per Bruce as we could use the inventory items. ☐ ☐ 6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1979A	PTP230 5.7 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, US	USD	\$1,760.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A991	5A991	Obsolete	
HK1980A	5.4 GHZ OFDM TRIAL KIT, CANADA	USD	\$4,895.00 PMP : PMP430		Kit or Mixed Components	13.02 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1981A	5.7 GHZ 10 MBPS OFDM BACKHAUL, 24PK	USD	\$15,808.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1982A	5.7 GHZ 20 MBPS OFDM BACKHAUL, 24PK	USD	\$19,768.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1983A	5.7 GHZ 50 MBPS OFDM BACKHAUL, 24PK	USD	\$23,728.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1983AINTL	5.7 GHZ 50 MBPS OFDM BACKHAUL, 24PK	USD	\$23,728.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Backhaul								6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1984A	PTP230 5.7 GHZ COMPLETE LINK	USD	\$2,040.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1985A	PTP230 5.7 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, AES, CANADA	USD	\$2,090.00 PMP : PTP230		Kit or Mixed Components	1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	CHANGED BACK TO PEND OBS TO ADD TO RMA Eng. Obsolete on ECO-004180 ☐ DN-1121 EOL notice ☐ ☐
					Kit or Mixed Components								Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog.
HK1986A	PTP230 5.7 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, AES, US	USD	\$2,090.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
					Backhaul								6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1987A	PTP230 5.7 GHZ COMPLETE LINK W/AES	USD	\$2,090.00 PMP : PTP230			1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1990A	5.4 GHZ MICROPOP CONNECTORIZED ADVANTAGE AP, 25PK	USD	\$11,225.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1991A	5.4 GHZ MICROPOP ADVANTAGE AP, 25PK	USD	\$11,225.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1992A	5.7 GHZ MICROPOP CONN ADVANTAGE AP, 25PK	USD	\$11,225.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK1993A	5.7 GHZ MICROPOP ADVANTAGE AP, 25PK	USD	\$11,225.00 PMP : PMP100		Kit or Mixed Components	11.25 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
					Kit or Mixed Components								6/4/13 inventory depleted, can no longer be sold in EMEA ☐ 6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK1998A	5.4 GHZ 10 MBPS OFDM BACKHAUL LINK	USD	\$1,340.00 PMP : PTP230			0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Kit or Mixed Components								6/4/13 inventory depleted, can no longer be sold in EMEA ☐ ☐ Eng. Obsolete on ECO-004180 ☐ DN-1121 EOL notice
HK1999A	5.4 GHZ 20 MBPS OFDM BACKHAUL LINK	USD	\$1,680.00 PMP : PTP230			0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA ☐ ☐ 6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK2000A	5.4 GHZ 50 MBPS OFDM BACKHAUL LINK	USD	\$2,010.00 PMP : PTP230		Backhaul	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2000AINTL	5.4 GHZ 50 MBPS OFDM BACKHAUL LINK	USD	\$2,010.00 PMP : PTP230		Kit or Mixed Components	0.9 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2004A	5.4 GHZ 10 MBPS OFDM BACKHAUL LINK AES	USD	\$1,680.00 PMP : PTP230		Backhaul	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
HK2005A	5.4 GHZ 20 MBPS OFDM BACKHAUL LINK AES	USD	\$2,020.00 PMP : PTP230		Backhaul	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK2006A	5.4 GHZ 50 MBPS OFDM BACKHAUL LINK AES	USD	\$2,360.00 PMP : PTP230		Backhaul	0.9 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Eng. Obsolete on ECO-004180 ☐ DN-1121 EOL notice 6-Feb-2015 Have made Unavailable for order per Bruce: we can't build any more units and need to avoid taking additional unshippable backlog. Will need to update DC statuses once Arena updated -NE
HK2010A	PTP230 5.4 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, CANADA	USD	\$1,760.00 PMP : PTP230		Kit or Mixed Components	1.65 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	6/4/13 inventory depleted, can no longer be sold in EMEA
HK2011A	PTP230 5.4GHZ COMPLETE LINK W/AES	USD	\$2,370.00 PMP : PTP230		Kit or Mixed Components	1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Eng. Obsolete on ECO-004180 ☐ DN-1121 EOL notice
HK2012A	PTP230 5.4 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, AES, US	USD	\$2,090.00 PMP : PTP230		Kit or Mixed Components	1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK2013A	PTP230 5.4 GHZ 50MB LINK, MOUNTING BRACKETS, AND POWER SUPPLIES, AES, CANADA	USD	\$2,090.00 PMP : PTP230		Kit or Mixed Components	1.65 kg		8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	
HK2019A	5.4 GHZ 10 MBPS OFDM BACKHAUL, 24PK	USD	\$15,808.32 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2020A	5.4 GHZ 20 MBPS OFDM BACKHAUL, 24PK	USD	\$19,768.32 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2021A	5.4 GHZ 50 MBPS OFDM BACKHAUL, 24PK	USD	\$23,728.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2021AINTL	5.4 GHZ 50 MBPS OFDM BACKHAUL, 24PK	USD	\$23,728.00 PMP : PTP230		Kit or Mixed Components	10.8 kg		8517620050	Mexico	5A992.a	5A992.a	Obsolete	
HK2022A	53CM OFFSET, REFLECTOR DISH KIT,4PK	USD	\$379.00 PMP		Kit or Mixed Components	19 kg		8517.70.0000	Taiwan	EAR99	EAR99	Released	Item Obsolete ☐ ☐
HSG-01A	CANOPY PLASTIC HOUSING - SALES DEMO	USD	\$29.00 PMP		Accessory	0.12345 kg		8517700000	United States	EAR99	EAR99	Obsolete	Obsolete or Deprecated in Arena. ☐ No longer saleable Item Obsolete ☐ ☐
MTR-AN015004AA	3210 1.5DBI UNIT MOUNT OMNI DIRECTIONAL ANTENNA W/CABLE SMA (MALE) CONNECTOR	USD	\$29.00 PMP		Antenna	0.12345 kg		8517700000	United States	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. ☐ No longer saleable Item Obsolete ☐ ☐
MTR-PS078001AA	3210 INDOOR POWER OVER ETHERNET KIT	USD	\$189.00 PMP		Kit or Mixed Components	0.12345 kg		8517700000	United States	5A992.a	5A992.a	Obsolete	Obsolete or Deprecated in Arena. ☐ No longer saleable
N000000D001A	4.4 - 5.0 GHz, 26.6 dBi, 2-ft (0.6m), Parabolic dish	USD	\$1,250.00 PTP		Antenna	8.1 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
N000000D002A	4.4 - 5.0 GHz, 32.6 dBi, 4-ft (1.2m), Parabolic dish	USD	\$2,550.00 PTP		Antenna	57.15 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
N000000D003A	4.4-5.0 GHz, 16 dBi, Dual-Pol Sector Antenna	USD	\$2,050.00 PTP		Antenna	8.6 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
N000000D004A	SIDE STRUTS / STABILIZER ARMS 8FT	USD	\$900.00 PTP		Accessory	14 kg		7326.90.8588	United States	5A991.g	5A991.g	Released	27-June-2017 ☐ Changed back to Released as per Bruce C.
N000000D005A	4.4 - 5.0 GHz, 30 dBi, 3-ft (0.9m), Parabolic dish	USD	\$1,850.00 PTP		Antenna	35.3 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
N000000D020A	4.4 - 5.0 GHz, 8-FT (2.4M), HIGH PERFORMANCE DUAL-POL	USD	\$15,995.00 PTP		Antenna	508.93 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
N000000D021A	4.4 - 5.0 GHz, 2-FT (0.6M), DUAL-POL QUICK CONNECT FEEDHORN	USD	\$1,095.00 PTP		Antenna	1.1 kg		8517.70.0000	United States	EAR99	EAR99	Released	
N000000D022A	4.4 - 5.0 GHz, 2-FT (0.6M), DUAL-POL QUICK CONNECT DISH	USD	\$1,395.00 PTP		Antenna	11.34 kg		8517.70.0000	United States	EAR99	EAR99	Released	
N000000D023A	2-FT (0.6M), TRI-POD MOUNTING KIT	USD	\$1,795.00 PTP		Accessory	8 kg		8302.50.0000	United States	EAR99	EAR99	Released	
N000000D037A	SIDE STRUTS / STABILIZER ARMS 4/6FT	USD	\$595.00 PTP		Accessory	10.89 kg		7326.90.8588	United States	5A991.g	5A991.g	Released	
N000000K001A	PTP Backhaul Switch,E4G-200 Network Timing License	USD	\$995.00 PTP : Licensed : PTP810		Service			8517700000		EAR99	EAR99	Released	
N000000K002A	PTP Backhaul Switch,E4G-200 Adv Edge Lic Upgrade from Edge	USD	\$1,995.00 PTP : Licensed : PTP810		SW Key			8517700000		EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N00000K003A	PTP Backhaul Switch,E4G-200 Core Lic Upgrade from Adv Edge	USD	\$2,995.00	PTP : Licensed : PTP810	SW Key			8517700000		EAR99	EAR99	Released	
N00000K004A	PTP Backhaul Switch,E4G-200 Core Lic Upgrade from Edge	USD	\$4,990.00	PTP : Licensed : PTP810	SW Key			8517700000		EAR99	EAR99	Released	
N00000K006A	PTP Backhaul Switch,E4G-400 Core Lic Upgrade from Adv Edge	USD	\$2,995.00	PTP : Licensed : PTP810	SW Key			8517700000		EAR99	EAR99	Released	
N00000K007A	PTP Backhaul Switch,Summit X250 Adv Edge Lic Upgrade from Edge	USD	\$750.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N00000K008A	PTP Backhaul Switch,Summit X440 Adv. Edge Lic Upgrade from Edge	USD	\$995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Released	
N00000K009A	PTP Backhaul Switch,Summit X460 Adv. Edge Lic Upgrade from Edge	USD	\$995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	Last Order/CRSD Date: March 1st 2016
N00000K010A	PTP Backhaul Switch,Summit X460 Core Lic Upgrade from Edge	USD	\$2,995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	Last Order/CRSD Date: March 1st 2016
N00000K011A	PTP Backhaul Switch,Summit X460 Core Lic Upgrade from Adv Edge	USD	\$1,995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	Last Order/CRSD Date: March 1st 2016
N00000K012A	PTP Backhaul Switch,Summit X460 MPLS Feature Pack	USD	\$1,995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	Last Order/CRSD Date: March 1st 2016
N00000K013A	PTP Backhaul Switch,Summit X460 Network Timing Feature Pack	USD	\$995.00	PTP : Licensed : PTP800	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	Last Order/CRSD Date: March 1st 2016
N00000L020A	C3VoIP-150 ATA Gateway with PoE - US	USD	\$80.00	PMP	Accessory	0.63	kg	8517700000	China	EAR99	EAR99	Obsolete	Offering C3-200 only
N00000L020A	C3VoIP-150 ATA Gateway with PoE - US	USD	\$80.00	PMP	Accessory	0.63	kg	8517700000	China	EAR99	EAR99	Obsolete	Offering C3-200 only
N00000L021A	C3VoIP-150 ATA Gateway - NGI	USD	\$80.00	PMP	Accessory	0.63	kg	8517700000	China	EAR99	EAR99	Obsolete	Fully Released per Allen
N00000L022A	C3VoIP-150 ATA Gateway with PoE - EU	USD	\$80.00	PMP	Accessory	0.63	kg	8517700000	China	EAR99	EAR99	Obsolete	The C3VoIP-150 has discontinued
N00000L022A	C3VoIP-150 ATA Gateway with PoE - EU	USD	\$80.00	PMP	Accessory	0.63	kg	8517700000	China	EAR99	EAR99	Obsolete	The C3VoIP-150 has discontinued
N00000L034A	POWER SUPPLY, 30W, 56V - Gbps support	USD	\$25.00	PMP	Accessory	0.17	kg	8504.40.8500	China	EAR99	EAR99	Released	Fully Released
N00000L036A	Power over Ethernet midspan, 60 W, -48 VDC Input	USD	\$149.00	PMP	Accessory	0.45	kg	8504.40.8500	Philippines	EAR99	EAR99	Released	Fully Released
N00000L053A	POWER SUPPLY FOR CMM4, LWN1740-6EM1	USD	\$795.00	PMP	Accessory	1.769	kg	8517700000	Slovak Republic	EAR99	EAR99	Obsolete	Replacement part number: N00000L054A
N00000L054A	POWER SUPPLY FOR CMM4, 54V, HLG-240H-54C	USD	\$200.00	PMP	Accessory	1.2	kg	8504.40.8500	China	EAR99	EAR99	Released	Production
N00000L054B	Power Supply, AC, 54V 240W	USD	\$200.00	PMP	Accessory	1.3	kg	8504.40.8500	Taiwan	EAR99	EAR99	Released	Fully Released
N00000L055A	Power Supply, Single Output Switching, 30V, 240W, HLG-240H	USD	\$200.00	PMP	Accessory	1.2	kg	8504.40.8500	China	EAR99	EAR99	Released	Production
N00000L056A	FILTER, 2-STAGE PWR LINE FILTER, 115/250VAC, 10A	USD	\$25.00	PMP	Accessory	0.45	kg	8535.40.0000	China	EAR99	EAR99	Released	Fully Released
N00000L065	LSXL N CON 1.8TO3.8 & 4.2TO6.0GHZ	USD	\$195.00	Low Cost	Accessory	0.099	kg	8517700000	China	EAR99	EAR99	Released	
N00000L066A	PTP Backhaul Switch,E4G-200 DC Switch 8 port GbE + 4 SFP	USD	\$4,495.00	PTP : Licensed : PTP800	Accessory	4.536	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L067A	PTP Backhaul Switch,E4G-200 16 x T1/E1 Module	USD	\$1,995.00	PTP : Licensed : PTP800	Accessory	1.55925	kg	8517.70.0000	Taiwan	5A992.a	5A992.a	Released	
N00000L068A	PTP Backhaul Switch,E4G-200 Clock Module	USD	\$995.00	PTP : Licensed : PTP800	Accessory	0.7938	kg	8517.70.0000	Taiwan	5A992.a	5A992.a	Released	
N00000L069A	PTP Backhaul Switch,E4G-400 AC Switch 24 port GbE + 8 SFP	USD	\$7,995.00	PTP : Licensed : PTP800	Accessory	9.4689	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L070A	PTP Backhaul Switch,E4G-400 DC Switch 24 port GbE + 8 SFP	USD	\$8,495.00	PTP : Licensed : PTP800	Accessory	9.4689	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L071A	PTP Backhaul Switch,E4G-400 XFP module, 2 x 10GbE XFP port	USD	\$1,995.00	PTP : Licensed : PTP800	Accessory	0.37422	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L072A	PTP Backhaul Switch,E4G-400 SFP module, 4 x 10GbE SFP+ port	USD	\$2,495.00	PTP : Licensed : PTP800	Accessory	0.411075	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L073A	PTP Backhaul Switch,E4G-400 SFP module, 2 x 10GbE SFP+ port	USD	\$1,995.00	PTP : Licensed : PTP800	Accessory	0.360045	kg	8517.62.0050	Taiwan	5A992.a	5A992.a	Released	
N00000L074A	PTP Backhaul Switch,E4G-400 16 x T1/E1 module	USD	\$1,995.00	PTP : Licensed : PTP800	Accessory	1.16235	kg	8517.70.0000	Taiwan	5A992.a	5A992.a	Obsolete	
N00000L075A	PTP Backhaul Switch,E4G-400 TDM Break-out Cable	USD	\$695.00	PTP : Licensed : PTP800	Accessory	0.4536	kg	8544.42.2000	Mexico	EAR99	EAR99	Released	
N00000L076A	PTP Backhaul Switch,E4G-400 300W AC Power Supply module	USD	\$495.00	PTP : Licensed : PTP800	Accessory	1.3608	kg	8504.40.8500	Taiwan	EAR99	EAR99	Released	
N00000L077A	PTP Backhaul Switch,E4G-400 300W DC Power Supply module	USD	\$795.00	PTP : Licensed : PTP800	Accessory	1.40616	kg	8504.40.8500	Taiwan	EAR99	EAR99	Released	
N00000L079A	PTP Backhaul Switch,Summit X250e-24t-AC,24x10/100BASE-TX,2xGigabit Combo Ports	USD	\$1,995.00	PTP : Licensed : PTP800	Accessory	4.76	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	
N00000L080A	PTP Backhaul Switch,Summit X250e-24t-DC,24x10/100BASE-TX,2xGigabit Combo Ports	USD	\$2,295.00	PTP : Licensed : PTP800	Accessory	4.49	kg	8517700000	Taiwan	5A002.a.1	5A002.a.1	Obsolete	
N00000L081A	Power Cord For Summit AC Switch,American,10A,NEMA 5-15P,IEC320-C13	USD	\$15.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8544.42.9090	China	EAR99	EAR99	Released	
N00000L082A	PTP Backhaul Switch,Summit X250e-24x-AC,24x10/100BASE-X SFP Ports,2xGigabit Combo Ports	USD	\$3,295.00	PTP : Licensed : PTP800	Accessory	4.64	kg	8517700000	Taiwan	5A002.a.1	5A002.a.1	Obsolete	
N00000L083A	PTP Backhaul Switch,Summit X250e-24x-DC,24x10/100BASE-X SFP Ports,2xGigabit Combo Ports	USD	\$3,795.00	PTP : Licensed : PTP800	Accessory	4.53	kg	8517700000	Taiwan	5A002.a.1	5A002.a.1	Obsolete	
N00000L084A	PTP Backhaul Switch,Summit X350-24t-AC,24x10/100/1000BT,4xMini-GBIC Ports	USD	\$1,795.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	
N00000L085A	PTP Backhaul Switch,Summit X440-8t-AC,8x10/100/1000BT,4x1000BX unpop SFP	USD	\$1,295.00	PTP : Licensed : PTP800	Accessory	2.64	kg	8517.62.0050	China	5A002.a.1	5A002.a.1	Released	
N00000L086A	PTP Backhaul Switch,Summit X440-8p-AC,8x10/100/1000BT PoE+,4x1000BX unpop SFP	USD	\$1,895.00	PTP : Licensed : PTP800	Accessory	3.035	kg	8517.62.0050	China	5A002.a.1	5A002.a.1	Released	
N00000L087A	PTP Backhaul Switch,Summit X440-L2-24t-AC,24x10/100/1000BT,4x1000BX unpop SFP	USD	\$1,095.00	PTP : Licensed : PTP800	Accessory	3.825	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	
N00000L088A	PTP Backhaul Switch,Summit X440-24t-AC,24x10/100/1000BT,4x1000BX unpop SFP	USD	\$1,595.00	PTP : Licensed : PTP800	Accessory	3.825	kg	8517.62.0050	China	EAR99	EAR99	Released	
N00000L089A	PTP Backhaul Switch,Summit X440-24p-AC,24x10/100/1000BT PoE+,4x1000BX unpop SFP	USD	\$2,595.00	PTP : Licensed : PTP800	Accessory	5.4	kg	8517.62.0050	China	5A002.a.1	5A002.a.1	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
N00000L090A	PTP Backhaul Switch,Summit X440-24t-10G-AC,24x10/100/1000BT,4x1000BX unpop SFP,2x10GBX SFP+	USD	\$3,395.00	PTP : Licensed : PTP800	Accessory	3.865	kg	8517.62.0050	China	5A002.a.1	5A002.a.1	Released	
N00000L091A	PTP Backhaul Switch,Summit X440-24p-10G-AC,24x10/100/1000BT PoE+,4x1000BX unpop SFP,2x10GBX SFP+	USD	\$4,995.00	PTP : Licensed : PTP800	Accessory	4.475	kg	8517.62.0050	China	5A002.a.1	5A002.a.1	Released	
N00000L092A	PTP Backhaul Switch,Summit X460-24t-AC,24x10/100/1000BT,8x100/1000BX unpop SFP,XGM3 slot	USD	\$4,495.00	PTP : Licensed : PTP800	Accessory	5.81	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	Last Order Date/Last CRSD: March 1st 2016
N00000L093A	PTP Backhaul Switch,Summit X460-24p-AC,24x10/100/1000BT PoE+,8x100/1000BX unpop SFP,XGM3 slot	USD	\$5,195.00	PTP : Licensed : PTP800	Accessory	5.94	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	Last Order Date/Last CRSD: March 1st 2016
N00000L094A	PTP Backhaul Switch,Summit X460-24x-AC,24x100/1000BX unpop SFP,8x10/100/1000BT,XGM3 slot	USD	\$6,995.00	PTP : Licensed : PTP800	Accessory	6.01	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	Last Order Date/Last CRSD: March 1st 2016
N00000L095A	PTP Backhaul Switch,Summit X460-24t-DC,24x10/100/1000BT,8x100/1000BX unpop SFP,XGM3 slot	USD	\$4,995.00	PTP : Licensed : PTP800	Accessory	5.81	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	Last Order Date/Last CRSD: March 1st 2016
N00000L096A	PTP Backhaul Switch,Summit X460-24x-DC,24x100/1000BX unpop SFP,8x10/100/1000BT,XGM3 slot	USD	\$7,495.00	PTP : Licensed : PTP800	Accessory	6.01	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	Last Order Date/Last CRSD: March 1st 2016
N00000L097A	Power Cord For Summit AC Switch,European,10A,CEE 7/7,IEC320-C13	USD	\$15.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8544.42.9090	China	EAR99	EAR99	Released	
N00000L098A	Power Cord For Summit AC Switch,British,10A,BS1363,IEC320-C13	USD	\$15.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8544.42.9090	China	EAR99	EAR99	Released	
N00000L099A	Power Cord For Summit AC Switch,Australian,10A,AS3112,IEC320-C13	USD	\$15.00	PTP : Licensed : PTP800	Accessory	0.12345	kg	8544.42.9090	China	EAR99	EAR99	Released	
N00000L101A	Power Supply AC, 48V, 600W	USD	\$449.00	PMP	Accessory	3.9	kg	8504.40.8500	Taiwan	EAR99	EAR99	Released	Fully Released
N00000L103A	CMM5 to uGPS Shielded Cable (20 meter)	USD	\$139.00	PMP	Accessory	0.9	kg	8544.42.2000	United States	EAR99	EAR99	Released	Fully Released
N00000S006A	Cambium Networks Professional Services	USD	\$1.00	Services	Service					EAR99	EAR99	Released	
N000045L001A	Ethernet cable adapter for CMM4	USD	\$29.00	PMP	Accessory	0.05	kg	8544.42.2000	China	EAR99	EAR99	Released	
N000045L002A	Tilt Bracket Assembly	USD	\$29.00	PMP	Accessory	1.15	kg	8302.50.0000	China	EAR99	EAR99	Released	Fully Released for both DC's 19-April-2017 Temp reactivate per Sagar to use up remaining stock □ □ 7-Nov Updated Sales Group to □ Unavailable For Order, as currently only 2 in stock and customer orders exceed this amount. Need to use replacement "B" version. Will keep Pend Obs. until the 2
N000065L001A	PTP 650 AC Power Injector	USD	\$80.00	PTP	Accessory	0.24	kg	8504408500	China	EAR99	EAR99	Obsolete	
N000065L001B	PTP 650 AC Power Injector	USD	\$80.00	PTP	Accessory	0.24	kg	8504.40.8500	China	EAR99	EAR99	Obsolete	
N000065L001C	AC Power Injector 56V	USD	\$80.00	PTP	Accessory	0.24	kg	8504.40.8500	China	EAR99	EAR99	Released	Fully Released
N000065L003A	US Line Cord Fig 8	USD	\$20.00	PTP	Accessory	0.113	kg	8544.42.9090	China	EAR99	EAR99	Released	
N000065L004A	UK Line Cord Fig 8	USD	\$20.00	PTP	Accessory	0.15	kg	8544.42.9090	China	EAR99	EAR99	Released	
N000065L005A	EU Line Cord Fig 8	USD	\$20.00	PTP	Accessory	0.1	kg	8544.42.9090	China	EAR99	EAR99	Released	
N000065L006A	Australia Line Cord Fig 8	USD	\$20.00	PTP	Accessory	0.14	kg	8544.42.9090	China	EAR99	EAR99	Released	
N000065L030A	Extended Diameter Mast mounting kit 3.5" and 4.5"	USD	\$300.00	PTP	Accessory	1.7	kg	8302.50.0000	United Kingdom	EAR99	EAR99	Released	
N000065L031A	Mounting Bracket (integrated)	USD	\$80.00	PTP	Accessory	0.9	kg	8302.50.0000	United Kingdom	EAR99	EAR99	Released	
N000065L032A	Mounting Bracket (connectorized)	USD	\$80.00	PTP	Accessory	0.2	kg	8302.50.0000	Mexico	EAR99	EAR99	Obsolete	
N000065L033A	RJ-45 Gland Spare - PG16 size - pack of 10	USD	\$400.00	PTP	Accessory	0.55	kg	8536.90.8585	Turkey	EAR99	EAR99	Released	
N000065L036A	Blanking Plug Pack (QTY 10)	USD	\$50.00	PTP	Accessory	0.5	kg	3926.90.9995	Mexico	EAR99	EAR99	Released	
N000065L039A	PTP 650 Low Profile Large Diameter Pole Mount Bracket	USD	\$160.00	PTP	Accessory	1.58	kg	8302.50.0000	United Kingdom	EAR99	EAR99	Released	
N000065L042A	Large Diameter Extension Kit for Standard Integrated Bracket	USD	\$100.00	PTP	Accessory	0.81	kg	8302.50.0000	United Kingdom	EAR99	EAR99	Released	
N000070L001A	QD POSITIONER SPARE CONTROLLER	USD	\$5,495.00	PTP : Un-Licensed : PTP700	Accessory	2	kg	8517709000	United States	5D002.a	5D002.a	Released	Fully Released
N000070L002A	QD POSITIONER SPARE POSITIONER MOTOR	USD	\$13,995.00	PTP : Un-Licensed : PTP700	Accessory	7.7	kg	8517709000	United States	5D002.a	5D002.a	Released	Fully Released
N000070L003A	QD POSITIONER SPARE ETHERNET CABLE KIT	USD	\$450.00	PTP : Un-Licensed : PTP700	Accessory	2	kg	8544.42.2000	United States	EAR99	EAR99	Released	Fully Released
N000070L004A	QD POSITIONER SPARE POE POWER SUPPLY	USD	\$200.00	PTP : Un-Licensed : PTP700	Accessory	1	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
N000070L005A	QD POSITIONER SPARE POWER CABLE KIT	USD	\$325.00	PTP : Un-Licensed : PTP700	Accessory	6.8	kg	8544.42.9090	United States	EAR99	EAR99	Released	Fully Released
N000070L006A	QD POSITIONER SPARE AC/DC POWER SUPPLY	USD	\$550.00	PTP : Un-Licensed : PTP700	Accessory	1.8	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
N000070L007A	QD POSITIONER SPARE POLE MOUNT	USD	\$850.00	PTP : Un-Licensed : PTP700	Accessory	2.3	kg	8517709000	United States	EAR99	EAR99	Released	Fully Released
N000070L008A	QD POSITIONER SPARE ANCILLARY KIT	USD	\$1,850.00	PTP : Un-Licensed : PTP700	Accessory	6.3	kg	8517709000	United States	EAR99	EAR99	Released	Fully Released
N000070L009A	QD POSITIONER SPARE MOUNTING HARDWARE KIT	USD	\$225.00	PTP : Un-Licensed : PTP700	Accessory	1	kg	8517709000	United States	EAR99	EAR99	Released	Fully Released
N000080L001A	WR90 Flex Twist Hanger Kit	USD	\$95.00	PTP : Licensed : PTP800	Accessory	0.91	kg	8302.50.0000	Czech Republic	EAR99	EAR99	Released	
N000081H003A	PTP810 MMU Super PDH Master I/O module	USD	\$3,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.69	kg	8517.70.0000	China	5A991	5A991	Released	
N000081H004A	PTP810 MMU Chassis	USD	\$500.00	PTP : Licensed : PTP810	Kit or Mixed Components	2.1	kg	8517.70.0000	China	EAR99	EAR99	Released	
N000081H005A	PTP810 MMU Control Module	USD	\$1,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.6	kg	8517700000	China	5A002.a.1	5A002.a.1	Obsolete	New part upsuffixed: N000081H005B
N000081H005B	PTP810 MMU Control Module	USD	\$1,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.6	kg	8517.70.0000	China	5A992.a	5A992.a	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N000081H006A	PTP810 MMU Expansion I/O: 16xE1/T1	USD	\$1,250.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.4 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H007A	PTP810 MMU Expansion I/O: 2xSTM-1 Electrical, 2xMux/Demux(ADM)	USD	\$3,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.444 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H008A	PTP810 MMU Expansion I/O: 2xSTM-1 Electrical	USD	\$2,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.444 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H009A	PTP810 MMU Expansion I/O: 2xSTM-1 Optical/OC-3, 2xMux/Demux(ADM)	USD	\$3,250.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.386 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H010A	PTP810 MMU Expansion I/O: 2xSTM-1 Optical/OC-3	USD	\$2,250.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.326 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H011A	PTP810 MMU Expansion I/O: 21xE1/T1	USD	\$1,500.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.39 kg		8517.70.0000	China	5D991	5D991	Released	
N000081H012A	PTP810 MMU GigE Master I/O module	USD	\$2,500.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.6 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H013A	PTP810 MMU Mini I/O: STM-1 Electrical	USD	\$1,500.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.224 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H014A	PTP810 MMU Mini I/O: STM-1 Optical/OC-3	USD	\$1,750.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.198 kg		8517.70.0000	China	5A991	5A991	Released	
N000081H015A	PTP810 MMU Power Supply Module	USD	\$500.00	PTP : Licensed : PTP810	Accessory	0.3 kg		8504.40.8500	China	EAR99	EAR99	Released	
N000081H016A	PTP810 MMU Standard Master I/O module	USD	\$1,500.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.6 kg		8517.70.0000	China	EAR99	EAR99	Released	
N000081H017A	PTP810 MMU Enhanced Standard Master I/O module	USD	\$2,000.00	PTP : Licensed : PTP810	Kit or Mixed Components	0.636 kg		8517.70.0000	China	5A991	5A991	Released	
N000081K001A	PTP810 Modem Capacity CAP - 600 Mbps (per Unit)	USD	\$3,000.00	PTP : Licensed : PTP810	SW Key			8517700000	United States	5D991	5D991	Released	
N000081K003A	PTP810 Modem Capacity CAP upgrade from 400 -> 600 Mbps Key (per Unit)	USD	\$1,500.00	PTP : Licensed : PTP810	SW Key			8517700000	United States	5D991	5D991	Released	
N000081K005A	PTP810 MMU XPIC Authorization Key (per Unit)	USD	\$750.00	PTP : Licensed : PTP810	SW Key			8517700000	United States	EAR99	EAR99	Released	
N000081K005A(donotuse)	PTP810 MMU XPIC Authorization Key (per Unit)	USD	\$750.00	PTP : Licensed : PTP810	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N000081L001A	PTP 810, 14 way E1/T1 cable, Molex to Bare Wire, 10 ft, 26 AWG solid	USD	\$400.00	PTP : Licensed : PTP810	Accessory	0.9 kg		8544.42.2000	China	EAR99	EAR99	Released	
N000081L002A	PTP810 AC to DC power adapter	USD	\$400.00	PTP : Licensed : PTP810	Accessory	1.2 kg		8504.40.8500	Taiwan	EAR99	EAR99	Released	
N000081L004A	PTP810 XPIC cable	USD	\$35.00	PTP : Licensed : PTP810	Accessory	0.2 kg		8544.42.2000	China	EAR99	EAR99	Released	
N000081L005A	TNC Male for CNT-400 braided cable	USD	\$13.60	PTP : Licensed : PTP810	Accessory	0.050514 kg		8536.69.4010	China	EAR99	EAR99	Released	
N000081L006A	TNC Male Right Angle for CNT-400 braided cable	USD	\$25.98	PTP : Licensed : PTP800	Accessory	0.096 kg		8536.69.4010	China	EAR99	EAR99	Released	
N000081L007A	Type N Female to TNC Male Adapter	USD	\$24.17	PTP : Licensed : PTP810	Accessory	0.05157 kg		8536.69.4010	China	EAR99	EAR99	Released	
N000081L008A	IF cable for PTP810 MMU and IRFU	USD	\$75.00	PTP : Licensed : PTP810	Accessory	0.12345 kg		8544.20.0000	Mexico	EAR99	EAR99	Released	
N000081S001A	PTP810 MMU Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr	USD	\$1,000.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N000081S002A	PTP810 MMU Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr	USD	\$1,500.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N000081S003A	PTP810 MMU Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr	USD	\$2,500.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N000081S004A	PTP810 MMU Extended Warranty, 1 Additional Yr	USD	\$500.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
N000081S005A	PTP810 MMU Extended Warranty, 2 Additional Yr	USD	\$800.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
N000081S006A	PTP810 MMU Extended Warranty, 4 Additional Yr	USD	\$1,400.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
N000081S007A	PTP810 MMU Upgrade to All Risks Advanced Replacement Program during 1st Year warranty	USD	\$500.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Obsolete	
N000082D012A	PTP 820 Gas Tube Surge Arrestor END KIT	USD	\$100.00	PTP : Licensed : PTP820	Antenna	0.1 kg		8535.40.0000		5A991.b.7	5A991	Released	Phase I
N000082D013A	PTP 820 23-inch rack mounting adapter, 1RU	USD	\$90.00	PTP : Licensed : PTP820	Accessory	0.5 kg		7326.90.8588	China	5A991	5A991	Released	Phase II
N000082K027B	PTP 820 Act.Key - AES Key 256 bit - Per Tx Chan	USD	\$1,750.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082K087A	PTP 820 Act.Key - AFR, Per Tx Chan	USD	\$1,500.00	PTP : Licensed : PTP820	SW Key			8517.70.0000		EAR99	EAR99	Released	
N000082L014A	PTP 820 Glands_x5_KIT	USD	\$32.00	PTP : Licensed : PTP820	Accessory	0.12 kg		8536.90.8585	Philippines	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L016A	PTP 820 CAT5E Outdoor 100m drum	USD	\$295.00	PTP : Licensed : PTP820	Accessory	5.6 kg		8544.49.1000	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L017A	PTP 820 Grounding Kit for CAT5e F/UTP 8mm cable	USD	\$16.00	PTP : Licensed : PTP820	Accessory	0.25 kg		8544.42.9090	China	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L018A	PTP 820 Outdoor_DC_cbl_2x12AWG_drum	USD	\$4,550.00	PTP : Licensed : PTP820	Accessory	44 kg		8544.49.2000		5A991.b.7	5A991	Released	Phase II
N000082L019A	PTP 820 Outdoor_DC_cbl_2x18AWG_drum	USD	\$950.00	PTP : Licensed : PTP820	Accessory	23 kg		8544.49.2000	Israel	5A991.b.7	5A991	Released	Phase I
N000082L020A	PTP 820 PoE Injector 19inch rack mount KIT	USD	\$90.00	PTP : Licensed : PTP820	Accessory	1.3 kg		7326.90.8588	Israel	5A991.b.7	5A991	Released	Phase II
N000082L021A	PTP 820 PoE Injector 23inch rack mount KIT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2 kg		7326.90.8588		5A991.b.7	5A991	Released	Phase II
N000082L022A	PTP 820 PoE Injector all outdoor, redundant DC input, +24VDC support	USD	\$750.00	PTP : Licensed : PTP820	Accessory	5 kg		8504.40.8500	Israel	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L023A	PTP 820 16E1 cable MDR68-RJ45 3M,LA,cross	USD	\$90.00	PTP : Licensed : PTP820	Accessory	1.063 kg		8544.42.2000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N000082L024A	PTP 820 16E1 cable open-end, 3M	USD	\$60.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8544.42.2000	Taiwan	5A991.b.7	.a	5A991	Released Phase I
N000082L025A	PTP 820 16T1 cable MDR68-RJ45 3M,LA,cross	USD	\$55.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L026A	PTP 820 16T1 cable open-end, 3M	USD	\$50.00	PTP : Licensed : PTP820	Accessory	0.56	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L027A	PTP 820C Act.Key - 2nd Core Activation	USD	\$2,375.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L028A	PTP 820G Act.Key - 2nd Modem Activation	USD	\$850.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L030A	PTP 820 Act.Key - Agg-Lvl-1-CET-Node mode	USD	\$815.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase II	
N000082L032A	PTP 820S Act.Key - Capacity 100M with ACM Enabled, per Tx Chan	USD	\$385.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released PTP 820-01-00 Phase 1	
N000082L033A	PTP 820S Act.Key - Capacity 500M with ACM Enabled, per Tx Chan	USD	\$1,360.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released PTP 820-01-00 Phase 1	
N000082L034A	PTP 820S Act.Key - Capacity 650M with ACM Enabled, per Tx Chan	USD	\$1,750.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released PTP 820-01-00 Phase 1	
N000082L035A	PTP 820S Act.Key - Capacity upgrade from X to 500M, per Tx Chan	USD	\$1,600.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L036A	PTP 820S Act.Key - Capacity upgrade from X to 650M, per Tx Chan	USD	\$2,500.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L037A	PTP 820 Act.Key - Edge-CET-Node mode	USD	\$510.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase II	
N000082L038A	PTP 820 Act.Key - Enh. packet buffer Mng	USD	\$255.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase II	
N000082L041A	PTP 820 Act.Key - Frame Cut-Through	USD	\$255.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L042A	PTP 820 Act.Key - GE port, per additional port	USD	\$95.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L043A	PTP 820 Act.Key - Header De-Dup, per Tx Chan	USD	\$510.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L047A	PTP 820 Act.Key - IEEE-1588 TC	USD	\$305.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released PTP 820-01-00 Phase 2	
N000082L048A	PTP 820 Act.Key - MC-ABC, per Tx Chan	USD	\$350.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L049A	PTP 820 Act.Key - MIMO, per Tx Chan	USD	\$255.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L050A	PTP 820 Act.Key - Network Resiliency	USD	\$460.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L051A	PTP 820 Act.Key - Secure Management	USD	\$205.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L052A	PTP 820 Act.Key - Sync. Unit	USD	\$355.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase II	
N000082L053A	PTP 820 Act.Key - TDM Pseudowire	USD	\$510.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L055A	PTP 820 Act.Key - Upg Edge/Agg-Lvl-1 Node	USD	\$305.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase II	
N000082L056A	PTP 820 Act.Key - XPIC, per Tx Chan	USD	\$230.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released Phase I	
N000082L057A	PTP 820 External Alarms open cable 2.5m	USD	\$16.00	PTP : Licensed : PTP820	Accessory	0.1	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L058A	PTP 820C 19inch Rack Mount KIT	USD	\$45.00	PTP : Licensed : PTP820	Accessory	0.6	kg	7326.90.8588	China	5A991.b.7	.a	5A991	Released Phase II
N000082L059A	PTP 820 SFP Optical 1000Base-LX,EXT TEMP	USD	\$145.00	PTP : Licensed : PTP820	Accessory	0.25	kg	8517.62.0050		5A991.b.7	.a	5A991	Released PTP 820-01-00 Phase 1
N000082L060A	PTP 820C MIMO or Prot management cable 10m	USD	\$60.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L061A	PTP 820C MIMO or Prot management cable 1m	USD	\$18.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L062A	PTP 820C MIMO or Prot management odu spltr	USD	\$90.00	PTP : Licensed : PTP820	Accessory	0.05	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L063A	PTP 820C,CABLE,SFP,4x4MIMO_DATA_SHARING_KIT_10M	USD	\$1,185.00	PTP : Licensed : PTP820	Accessory	1	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L064A	PTP 820C,SOURCE_SHARING_10M	USD	\$255.00	PTP : Licensed : PTP820	Accessory	3	kg	8544.42.2000		5A991.b.7	.a	5A991	Released Phase I
N000082L065A	PTP 820 DC Connector	USD	\$6.00	PTP : Licensed : PTP820	Accessory	0.04	kg	8536.69.8000		5A991.b.7	.a	5A991	Released Phase I
N000082L066A	PTP 820 RFU-A blank panel	USD	\$85.00	PTP : Licensed : PTP820	Accessory	0.25	kg	7326.90.8588	China	5A991.b.7	.a	5A991	Released Fully Released
N000082L067A	PTP 820 RFU-A Branching Drawer for 1+0	USD	\$3,500.00	PTP : Licensed : PTP820	Accessory			8517.70.0000	Israel	5A991.b.7	.a	5A991	Released Fully Released
N000082L068A	PTP 820 RFU-A Branching Drawer for 1+1	USD	\$3,500.00	PTP : Licensed : PTP820	Accessory			8517.70.0000	Israel	5A991.b.7	.a	5A991	Released Fully Released
N000082L069A	PTP 820 RFU-A Branching Drawer for 2+0 SP	USD	\$1,400.00	PTP : Licensed : PTP820	Accessory			8517.70.0000	Israel	5A991.b.7	.a	5A991	Released Fully Released
N000082L070A	PTP 820 RFU-A FixPit	USD	\$115.00	PTP : Licensed : PTP820	Accessory	1.8	kg	7326.90.8588	Taiwan	5A991.b.7	.a	5A991	Released Fully Released
N000082L071A	PTP 820 RFU-C_19-inch_rack_adapt	USD	\$153.00	PTP : Licensed : PTP820	Accessory	3.8	kg	7326.90.8588		5A991.b.7	.a	5A991	Released Phase II
N000082L072A	PTP 820 SFP Optical 1000Base-SX,EXT TEMP	USD	\$73.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8517.62.0050		5A991.b.7	.a	5A991	Released Phase I

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
N000082L073A	PTP 820 GBE_Connector_kit	USD	\$26.00	PTP : Licensed : PTP820	Accessory	0.1	kg	8536.69.8000	China	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L074A	PTP 820 RFU-A Branching Drawer for 1+1 SD Tx High	USD	\$3,500.00	PTP : Licensed : PTP820	Accessory	2		8517.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released
N000082L075A	PTP 820 RFU-A Branching Drawer for 1+1 SD Tx Low	USD	\$3,500.00	PTP : Licensed : PTP820	Accessory	2.1		8517.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released
N000082L076A	PTP 820 RFU-A Branching Drawer inverted 1+0	USD	\$3,500.00	PTP : Licensed : PTP820	Accessory	1.9		8517.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released
N000082L077A	PTP 820C Act.Key - Capacity 200M with ACM Enabled, per Tx Chan	USD	\$700.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	PTP 820-01-00 Phase 1
N000082L078A	PTP 820C Act.Key - Capacity 500M with ACM Enabled, per Tx Chan	USD	\$1,360.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	PTP 820-01-00 Phase 1
N000082L079A	PTP 820C Act.Key - Capacity 650M with ACM Enabled, per Tx Chan	USD	\$1,500.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	PTP 820-01-00 Phase 1
N000082L080A	PTP 820C Act.Key - Capacity upgrade from X to 650M, per Tx Chan	USD	\$3,000.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L081A	PTP 820C Act.Key - Capacity upgrade from X to 500M, per Tx Chan	USD	\$2,500.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L082A	PTP 820G Act.Key - Capacity 100M with ACM Enabled, per Tx Chan	USD	\$450.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	PTP 820-01-00 Phase 1
N000082L083A	PTP 820G Act.Key - Capacity 500M with ACM Enabled, per Tx Chan	USD	\$2,300.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	PTP 820-01-00 Phase 1 Per Allen - released in Phase I of PTP820, but since the product really can't support it, we shall put them on hold
N000082L084A	PTP 820G Act.Key - Capacity 650M with ACM Enabled	USD	\$2,475.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	Phase I
N000082L085A	PTP 820G Act.Key - Capacity upgrade from 100 to 650M, per carrier	USD	\$3,000.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L086A	PTP 820G Act.Key - Capacity upgrade from X to 500M, per Tx Chan	USD	\$2,000.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L116A	PTP 820 GROUND CABLE FOR IDU and ODU	USD	\$16.00	PTP : Licensed : PTP820	Accessory	0.2	kg	8544.42.9090	China	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L117A	PTP 820 SFP Electric Int 1000Base-T,EXT TEMP	USD	\$191.00	PTP : Licensed : PTP820	Accessory	0.05	kg	8517.62.0050		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N000082L120A	PTP 820C DC REMOTE MOUNT KIT	USD	\$225.00	PTP : Licensed : PTP820	Accessory	1	kg	8302.50.0000	China	5A991.b.7	5A991	Released	
N000082L121A	PTP 820 RFU-C Pole Mount kit	USD	\$200.00	PTP : Licensed : PTP820	Accessory	4.35	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II
N000082L122A	PTP 820G Ethernet split cable for Management	USD	\$15.00	PTP : Licensed : PTP820	Accessory	1	kg	8544.42.2000	China	5A991.b.7	5A991	Released	Phase II
N000082L127A	PTP 820S Act.Key - Capacity 200M with ACM Enabled, per Tx Chan	USD	\$500.00	PTP : Licensed : PTP820	SW Key			8517700000	United States	EAR99	EAR99	Released	
N000082L129A	PTP 820S Act.Key - Capacity 300M with ACM Enabled, per Tx Chan	USD	\$800.00	PTP : Licensed : PTP820	SW Key			8517700000	Israel	EAR99	EAR99	Released	
N000082L130A	PTP 820C Act.Key - Capacity 300M with ACM Enabled, per Tx Chan	USD	\$1,000.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L131A	PTP 820G Act.Key - Capacity 200M with ACM Enabled, per Tx Chan	USD	\$800.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L132A	PTP 820G Act.Key - Capacity 300M with ACM Enabled, per Tx Chan	USD	\$1,100.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L133A	PTP 820 Act.Key - Capacity 300M	USD	\$1,360.00	PTP : Licensed : PTP820	SW Key			8517700000		EAR99	EAR99	Released	
N000082L136A	PTP 820C/S MIMO or Prot management cable 20m	USD	\$150.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8544.42.2000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L137A	PTP 820C,SOURCE_SHARING_20M	USD	\$750.00	PTP : Licensed : PTP820	Accessory	3	kg	8544.42.2000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L138A	PTP 820C,CABLE,SFP,4x4MIMO_DATA_SHARING_KIT_20M	USD	\$1,750.00	PTP : Licensed : PTP820	Accessory	1	kg	8544.42.2000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L139A	PTP 820 Optical CABLE,SM, 30m	USD	\$125.00	PTP : Licensed : PTP820	Accessory	1	kg	8544.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015 Available in all regions
N000082L140A	PTP 820 Optical CABLE,SM, 50m	USD	\$185.00	PTP : Licensed : PTP820	Accessory	1.5	kg	8544.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L141A	PTP 820 Optical CABLE,SM, 80m	USD	\$275.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8544.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L142A	PTP 820 Optical CABLE,SM, 100m	USD	\$315.00	PTP : Licensed : PTP820	Accessory	3	kg	8544.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L143A	PTP 820 Optical CABLE,SM, 150m	USD	\$475.00	PTP : Licensed : PTP820	Accessory	4.5	kg	8544.70.0000	Israel	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L146A	PTP 820 Fiber 1+1 Splitter, SM	USD	\$175.00	PTP : Licensed : PTP820	Accessory	0.1	kg	8536.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082L147A	PTP 820 Fiber Adapter	USD	\$10.00	PTP : Licensed : PTP820	Accessory	0.01	kg	8536.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N000082S077A	PTP 820 3-Year Software Support Contract (1-2 Links)	USD	\$1,200.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S078A	PTP 820 3-Year Software Support Contract (3-5 Links)	USD	\$2,700.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S079A	PTP 820 3-Year Software Support Contract (6-10 Links)	USD	\$5,000.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	
N000082S081A	PTP 820S (End Only) Extended Warranty, 2 Yr, include first year	USD	\$600.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S082A	PTP 820S (End Only) Extended Warranty, 3 Yr, include first year	USD	\$850.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N000082S083A	PTP 820S (End Only) Extended Warranty, 5 Yr,m include first year	USD	\$1,300.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S086A	PTP 820S (End Only) All Risks Advanced Replacement Program, 3 Yr, include first year	USD	\$1,500.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S087A	PTP 820S (End Only) All Risks Advanced Replacement Program, 5 Yr, include first year	USD	\$2,000.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S088A	PTP 820C (End Only) Extended Warranty, 2 Yr, include first year	USD	\$950.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S089A	PTP 820C (End Only) Extended Warranty, 3 Yr, include first year	USD	\$1,400.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S090A	PTP 820C (End Only) Extended Warranty, 5 Yr, include first year	USD	\$2,300.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S093A	PTP 820C (End Only) All Risks Advanced Replacement Program, 3 Yr, include first year	USD	\$2,500.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S094A	PTP 820C (End Only) All Risks Advanced Replacement Program, 5 Yr, include first year	USD	\$3,200.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S095A	PTP 820G IDU (End Only) Extended Warranty, 2 Yr, include first year	USD	\$500.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S096A	PTP 820G IDU (End Only) Extended Warranty, 3 Yr, include first year	USD	\$800.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S097A	PTP 820G IDU (End Only) Extended Warranty, 5 Yr, include first year	USD	\$1,400.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S100A	PTP 820G IDU (End Only) All Risks Advanced Replacement Program, 3 Yr, include first year	USD	\$1,500.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S101A	PTP 820G IDU (End Only) All Risks Advanced Replacement Program, 5 Yr, include first year	USD	\$2,000.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S102A	PTP 820G RFU-C (End Only) Extended Warranty, 2 Yr, include first year	USD	\$300.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S103A	PTP 820G RFU-C (End Only) Extended Warranty, 3 Yr, include first year	USD	\$400.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	Phase II
N000082S104A	PTP 820G RFU-C (End Only) Extended Warranty, 5 Yr, include first year	USD	\$600.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S107A	PTP 820G RFU-C (End Only) All Risks Advanced Replacement Program, 3 Yr, include first year	USD	\$850.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S108A	PTP 820G RFU-C (End Only) All Risks Advanced Replacement Program, 5 Yr, include first year	USD	\$1,400.00	Global Services : Warranty	Service			8517700000		EAR99	EAR99	Released	Phase II
N000082S109A	PTP 820G RFU-A (End Only) Extended Warranty, 2 Yr, include first year	USD	\$1,400.00	PTP : Licensed : PTP820	Service			8517700000	United States	EAR99	EAR99	Obsolete	26-May-2016 Made item Unavailable to Order per Allen Yu- Ceragon may change the cost which could impact our list price too.
N000082S110A	PTP 820G RFU-A (End Only) Extended Warranty, 3 Yr, include first year	USD	\$2,000.00	PTP : Licensed : PTP820	Service			8517700000	United States	EAR99	EAR99	Released	26-May-2016 Made item Unavailable to Order per Allen Yu- Ceragon may change the cost which could impact our list price too.
N000082S111A	PTP 820G RFU-A (End Only) Extended Warranty, 5 Yr, include first year	USD	\$3,500.00	PTP : Licensed : PTP820	Service			8517700000	United States	EAR99	EAR99	Released	26-May-2016 Made item Unavailable to Order per Allen Yu- Ceragon may change the cost which could impact our list price too.
N000082S114A	PTP 820G RFU-A (End Only) All Risks Advanced Replacement Program, 3 Yr, include first year	USD	\$4,500.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	26-May-2016 <input type="checkbox"/> Made item Unavailable to Order per Allen Yu- Ceragon may change the cost which could impact our list price too.
N000082S115A	PTP 820G RFU-A (End Only) All Risks Advanced Replacement Program, 5 Yr, include first year	USD	\$7,000.00	Global Services : Warranty	Service			8517700000	United States	EAR99	EAR99	Released	26-May-2016 <input type="checkbox"/> Made item Unavailable to Order per Allen Yu- Ceragon may change the cost which could impact our list price too. Per Allen Yu- <input type="checkbox"/>
N000082S148A	PTP 820 Pre-staging Service for License Key (Per Unit)	USD	\$100.00	PTP : Licensed : PTP820	SW Key			8517700000	Israel	EAR99	EAR99	Released	*We are not release this P/N to our channel partners, so it will be only ordered by customer UN from Yassine as agreed. No Ceragon involvement for this services <input type="checkbox"/> <input type="checkbox"/> *Made the item "Unavailable to Order" as per Allen Yu; we don't offer this to any other channel partners. It is many manual process and we only take it because Motorola mandatory requirement on this

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
													PMB-1162; replacement of "A" version to "B" □ □ Phihong supply N0000900L001B now instead of N0000900L001A. □ □ 001A was originally level 5 compliant and the 001B is level 6 compliant Phihong supply N0000900L001B now instead of N0000900L001A. □ □ 001A was originally level 5 compliant and the 001B is level 6 compliant
N000900L001A	Gigabit Enet Capable Pwr Supply for ePMP Sync AP (spare) and PMP450	USD	\$15.00 PMP		Accessory	0.12 kg		8504408500	China	EAR99	EAR99	Obsolete	
N000900L001B	PoE Gigabit DC Injector, 15W Output at 30V, Energy Level 6 Supply	USD	\$15.00 PMP		Accessory	0.11 kg		8504.40.8500	China	EAR99	EAR99	Released	
N000900L007A	CABLE, UL POWER SUPPLY CORD SET, US	USD	\$5.00 PMP		Accessory	0.1 kg		8544.42.9090	China	EAR99	EAR99	Released	
N000900L008A	CABLE, UL POWER SUPPLY CORD SET, EU	USD	\$5.00 PMP		Accessory	0.08 kg		8544.42.9090	China	EAR99	EAR99	Released	
N000900L009A	CABLE, UL POWER SUPPLY CORD SET, UK	USD	\$5.00 PMP		Accessory	0.1 kg		8544.42.9090	China	EAR99	EAR99	Released	
N009045D001A	900 MHz 60 degree Sector Antenna (Dual Slant)	USD	\$395.00 PMP		Antenna	10.8 kg		8517.70.0000	China	EAR99	EAR99	Released	Fully Released - December 1st 2015
N009045D003A	900 MHz 12 dBi gain directional antenna (Dual Slant)	USD	\$89.00 PMP		Antenna	2.15 kg		8517.70.0000	China	EAR99	EAR99	Released	Fully Released - December 1st 2015
N045070D001A	4.4-5.0 GHz, Dual-Polarity Omni Antenna, 9dBi with NATO flange	USD	\$2,495.00 PTP : Un-Licensed : PTP700		Antenna	1.72 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N045070D006A	4.4 to 5.875 GHz, Dual-Polarity Omni, 7 dBi, NATO flange with spring	USD	\$2,495.00 PTP : Un-Licensed : PTP700		Antenna	4.08 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N045070D008A	Enhanced Standard Performance 2' Parabolic, Dual Pol, 4.4 - 5.9 GHz	USD	\$2,195.00 PTP : Un-Licensed : PTP700		Antenna	88 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N045070D009A	High Performance Pro Line 2' Parabolic, Dual Pol, 4.4 - 5.9 GHz	USD	\$2,495.00 PTP : Un-Licensed : PTP700		Antenna	20.09 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N045070D010A	Enhanced Standard Performance 3' Parabolic, Dual Pol, 4.4 - 5.9 GHz	USD	\$3,995.00 PTP : Un-Licensed : PTP700		Antenna	171.6 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N045070D011A	High Performance Pro Line 3' Parabolic, Dual Pol, 4.4 - 5.9 GHz	USD	\$4,495.00 PTP : Un-Licensed : PTP700		Antenna	42 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
N060080L001A	HSX4 - 4' HP Antenna, 5.925-6.425 GHz with radome, Dual Pol, CPR137G	USD	\$7,540.00 PTP : Licensed : PTP800		Accessory	127.46 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L002A	HPX6 - 6' HP Antenna, 5.925-6.425 GHz with radome, Dual Pol, CPR137G	USD	\$9,920.00 PTP : Licensed : PTP800		Accessory	205.48 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L003A	HPX8 - 8' HP Antenna, 5.925-6.425 GHz with radome, Dual Pol, CPR137G	USD	\$12,290.00 PTP : Licensed : PTP800		Accessory	426.38 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L004A	HPX10 - 10' HP Antenna, 5.925-6.425 GHz with radome, Dual Pol, CPR137G	USD	\$15,920.00 PTP : Licensed : PTP800		Accessory	525.71 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L005A	HPX12 - 12' HP Antenna, 5.925-6.425 GHz with radome, Dual Pol, CPR137G	USD	\$21,300.00 PTP : Licensed : PTP800		Accessory	718.04 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L006A	HPX6 - 6' HP Antenna, 6.425-7.125 GHz with radome, Dual Pol, CPR137G	USD	\$9,920.00 PTP : Licensed : PTP800		Accessory	200.94 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L007A	HPX8 - 8' HP Antenna, 6.425-7.125 GHz with radome, Dual Pol, CPR137G	USD	\$12,290.00 PTP : Licensed : PTP800		Accessory	435.45 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L008A	HPX10 - 10' HP Antenna, 6.425-7.125 GHz with radome, Dual Pol, CPR137G	USD	\$15,920.00 PTP : Licensed : PTP800		Accessory	529.8 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L009A	HPX12 - 12' HP Antenna, 6.425-7.125 GHz with radome, Dual Pol, CPR137G	USD	\$21,300.00 PTP : Licensed : PTP800		Accessory	723.93 kg		8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N060080L011A	HSX4 - 4' HP Antenna, 6.425-7.125 GHz with radome, Dual Pol, CPR137G	USD	\$7,540.00 PTP : Licensed : PTP800		Accessory	104.49 kg		8517.70.0000	Mexico	EAR99	EAR99	Released	
N060080L016A	Fixed-tuned PDR70 connector for EWP63	USD	\$385.00 PTP : Licensed : PTP800		Accessory	2 kg		7419.99.5050	Mexico	EAR99	EAR99	Released	
N060080L017A	Fixed-tuned PDR70 connector for EWP52	USD	\$559.00 PTP : Licensed : PTP800		Accessory	2 kg		7419.99.5050	Mexico	EAR99	EAR99	Released	
N060080R012A	ODU-A 6GHz, TR252, Lo, B4 (5985.0 - 6085.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	5A991	5A991	Released	
N060080R013A	ODU-A 6GHz, TR252, Hi, B4 (6235.0 - 6335.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	5A991	5A991	Released	
N060080R014A	ODU-A 6GHz, TR252, Lo, B5 (6045.0 - 6145.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	5A991	5A991	Released	
N060080R015A	ODU-A 6GHz, TR252, Hi, B5 (6295.0 - 6395.0 MHz), Rectangular WG, Neg Pol	USD	\$2,808.00 PTP : Licensed : PTP800		ODU or IRFU	5.67 kg		8517.62.0050	Philippines	5A991	5A991	Released	
N060080R018A	XCVR,ANSI,6G,HP	USD	\$13,000.00 PTP : Licensed : PTP800		Accessory	3.63 kg		8517.62.0050	Philippines	5A991.b.7.a	5A991.b.7.a	Released	Phase I
N060082D128A	PTP 820 3' ANT,SP,6GHz,RFU-C TYPE&Std UDR70 - Andrew	USD	\$1,450.00 PTP : Licensed : PTP820		Antenna	30.8 kg		8517.70.0000		5A991.b.7.a	5A991	Released	Phase I
N060082D129A	PTP 820 4' ANT,SP,6GHz,RFU-C TYPE&Std UDR70 - Andrew	USD	\$2,100.00 PTP : Licensed : PTP820		Antenna	102 kg		8517.70.0000		5A991.b.7.a	5A991	Released	Phase I

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N060082D131A	PTP 820 6' ANT,SP,6GHz,RFU-C & UDR70 - CNT	USD	\$3,750.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7		Released	Phase II
N060082D132A	PTP 820 6' ANT,SP,6GHz,RFU-C TYPE&Std UDR70 - Andrew	USD	\$3,900.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N060082D150A	PTP 820 2' ANT,SP,6GHz,RFU-C TYPE&UDR70 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N060082D151A	PTP 820 3' ANT,SP,6GHz,RFU-C TYPE&UDR70 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	70	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N060082D152A	PTP 820 4' ANT,SP,6GHz,RFU-C TYPE&UDR70 - Radiowave	USD	\$2,500.00	PTP : Licensed : PTP820	Antenna	91.5	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N060082D153A	PTP 820 6' ANT,SP,6GHz,RFU-C TYPE&UDR70 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N060082D161A	PTP 820 3' ANT,SP,6GHz,RFU-C TYPE&UDR70 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N060082D162A	UHX8 - 8' UHP Antenna, 5.925-6.425 GHz with radome, Dual-pol, CPR137G	USD	\$16,380.00	PTP : Licensed : PTP820	Antenna	461	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	
N060082L002A	PTP 820C 6G Remote Mount adaptor - UDR70	USD	\$200.00	PTP : Licensed : PTP820	Accessory	1	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II
N060082L003A	PTP 820 RFU-C ADPT 6GHz Remote Mount Adaptor - UDR70	USD	\$200.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8302.50.0000	Israel	5A991.b.7	5A991	Released	Phase II
N060082L004A	PTP 820 Andrew Valuline Antenna Convert kit, 6GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N060082L134A	PTP 820C DUAL CORE MD KIT 6GHz (UDR70)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	6	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N060082L135A	PTP 820C DUAL COUPLER KIT 6GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N060082L136A	PTP 820C DUAL SPLITTER KIT 6GHz (UDR70)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N060082L137A	PTP 820C OMT KIT 6GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N060082L138A	PTP 820C SPLITTER KIT 6GHz	USD	\$1,150.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N060082L139A	PTP 820 RFU-A 6GHz L-Bend T1	USD	\$225.00	PTP : Licensed : PTP820	Accessory	0.2	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released
N060082L140A	PTP 820 RFU-A 6GHz L-Bend T2	USD	\$490.00	PTP : Licensed : PTP820	Accessory	0.36	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released
N060082L141A	PTP 820 RFU-A 6GHz system Housing	USD	\$1,680.00	PTP : Licensed : PTP820	Accessory	6.3	kg	8517.70.0000	Taiwan	5A991.b.7	5A991	Released	Fully Released
N060082L142A	PTP 820 RFU-A 6GHz Termination	USD	\$55.00	PTP : Licensed : PTP820	Accessory	0.1	kg	8517700000	Taiwan	5A991.b.7	5A991	Released	Fully Released
N060082L144A	PTP 820 RFU-A External Coupler 6GHz Kit	USD	\$980.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released
N060082L145A	PTP 820 RFU-C 6GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	4.4	kg	8517.70.0000	Philippines	5A991.b.7	5A991	Released	Phase I
N060082L146A	PTP 820 RFU-C 6GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N060082L147A	PTP 820 RFU-C 6GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N060082L148A	PTP 820 RFU-C 6GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	Phase I
N060082L149A	PTP 820 RFU-C SPLITTER KIT 6GHz (UDR70)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	4.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N060082L154A	PTP 820 RFU-C 6GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N060082L155A	PTP 820 RFU-C 6GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N060082L156A	PTP 820 Flexible Twist,WR137,PDR70,48.0 inch,PDR70,6 GHz	USD	\$540.00	PTP : Licensed : PTP820	Accessory	1.4	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N060082L157A	PTP 820 Flexible Twist,WR137,PDR70, 35.0 inch,CPR137G,6-8 GHz	USD	\$650.00	PTP : Licensed : PTP820	Accessory	1.6	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N060082L158A	PTP 820 FLX-HNGR-6Ghz	USD	\$125.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8302.50.0000	Italy	5A991.b.7	5A991	Released	
N070082D284A	PTP 820 2' ANT,SP,7_8GHz,RFU-C TYPE&Std UBR84 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082D285A	PTP 820 3' ANT,SP,7_8GHz,RFU-C TYPE&Std UBR84 - Andrew	USD	\$1,450.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082D286A	PTP 820 4' ANT,SP,7_8GHz,RFU-C TYPE&Std UBR84 - Andrew	USD	\$2,100.00	PTP : Licensed : PTP820	Antenna	102	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082D287A	PTP 820 4' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	68	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N070082D288A	PTP 820 6' ANT,SP,7_8GHz,RFU-C TYPE&Std UBR84 - Andrew	USD	\$3,900.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082D289A	PTP 820 6' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - CNT	USD	\$3,750.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082D306A	PTP 820 2' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N070082D307A	PTP 820 3' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N070082D308A	PTP 820 4' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - Radiowave	USD	\$2,400.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N070082D309A	PTP 820 6' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N070082D314A	PTP 820 2' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Accessory	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N070082D315A	PTP 820 3' ANT,SP,7_8GHz,RFU-C TYPE&UBR84 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N070082L001A	PTP 820C 7-8G Remote Mount adaptor - UBR84	USD	\$200.00	PTP : Licensed : PTP820	Accessory	1	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II
N070082L002A	PTP 820 RFU-C ADPT 7_8GHz Remote Mount Adaptor - UBR84	USD	\$125.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II
N070082L003A	PTP 820 Andrew Valuline Antenna Convert kit, 7GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N070082L004A	PTP 820 Flexible Twist,WR112,PBR84,48.0 inch,PBR84,7-8 GHz	USD	\$600.00	PTP : Licensed : PTP820	Accessory	1.8	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N070082L291A	PTP 820C DUAL CORE MD KIT 7-8GHz (UBR84)	USD	\$890.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L292A	PTP 820C DUAL COUPLER KIT 7-8GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	7.3	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L293A	PTP 820C DUAL SPLITTER KIT 7-8GHz (UBR84)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L294A	PTP 820C OMT KIT 7-8GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	China	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082L295A	PTP 820C SPLITTER KIT 7-8GHz	USD	\$1,150.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L301A	PTP 820 RFU-C 7_8GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	4.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L302A	PTP 820 RFU-C 7_8GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000	Taiwan	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082L303A	PTP 820 RFU-C 7_8GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N070082L304A	PTP 820 RFU-C 7_8GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	Phase II
N070082L305A	PTP 820 RFU-C SPLITTER KIT 7_8GHz (UBR84)	USD	\$900.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L310A	PTP 820 RFU-C 7_8GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L311A	PTP 820 RFU-C 7_8GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	0.3	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N070082L312A	PTP 820 FLX-HNGR-7_8GHz	USD	\$120.00	PTP : Licensed : PTP820	Accessory	0.45	kg	8302.50.0000	United States	5A991	5A991	Released	
N110080L001A	HPX4 - 4' HP Antenna, 10.7-11.7 GHz with radome, Dual Pol, CPR90G	USD	\$5,610.00	PTP : Licensed : PTP800	Accessory	122.92	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N110080L002A	HPX6 - 6' HP Antenna, 10.7 ~ 11.7 GHz with radome, Dual Pol, CPR90G	USD	\$9,920.00	PTP : Licensed : PTP800	Accessory	194.59	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N110080L003A	HPX8 - 8' HP Antenna, 10.7-11.7 GHz with radome, Dual Pol, CPR90G	USD	\$12,290.00	PTP : Licensed : PTP800	Accessory	423.65	kg	8517.70.0000	Czech Republic	EAR99	EAR99	Released	
N110080L004A	Fixed-tuned PDR100 connector for EWP90	USD	\$385.00	PTP : Licensed : PTP800	Accessory	2	kg	7419.99.5050	Mexico	EAR99	EAR99	Released	
N110082D070A	PTP 820 1' ANT,SP,10.0-11.7GHz,RFU-C TYPE&UBR100 - CNT	USD	\$430.00	PTP : Licensed : PTP820	Antenna	9.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N110082D071A	PTP 820 2' ANT,SP,10_11GHz,RFU-C & UBR100 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N110082D072A	PTP 820 2' ANT,SP,11GHz,RFU-C TYPE&Std UBR100 - Andrew	USD	\$550.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082D073A	PTP 820 3' ANT,SP,11GHz,RFU-C TYPE&Std UBR100 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082D074A	PTP 820 4' ANT,SP,10_11GHz,RFU-C & UBR100 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N110082D075A	PTP 820 4' ANT,SP,11GHz,RFU-C TYPE&Std UBR100 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	72	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082D076A	PTP 820 6' ANT,SP,10_11GHz,RFU-C & UBR100 - CNT	USD	\$3,500.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N110082D077A	PTP 820 6' ANT,SP,10_11GHz,RFU-C TYPE&Std UBR100 - Andrew	USD	\$3,900.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082D096A	PTP 820 2' ANT,SP,11GHz,RFU-C TYPE&UBR100 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N110082D098A	PTP 820 3' ANT,SP,11GHz,RFU-C TYPE&UBR100 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N110082D100A	PTP 820 4' ANT,SP,11GHz,RFU-C TYPE&UBR100 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N110082D102A	PTP 820 6' ANT,SP,11GHz,RFU-C TYPE&UBR100 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N110082D110A	PTP 820 3' ANT,SP,10_11GHz,RFU-C & UBR100 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N110082L001A	PTP 820C 10-11G Remote Mount adaptor - UBR100	USD	\$200.00	PTP : Licensed : PTP820	Accessory	1	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II
N110082L002A	PTP 820 RFU-C ADPT 10_11GHz Remote Mount Adaptor - UBR100	USD	\$300.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8302.50.0000	Israel	5A991.b.7	5A991	Released	Phase II
N110082L003A	PTP 820 Andrew Valuline Antenna Convert kit, 11GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N110082L004A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 11 GHz, 2ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N110082L005A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 11 GHz, 3ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	4.55	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N110082L006A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 11 GHz, 4ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	6.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N110082L007A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 11 GHz, 6ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	6.8	kg	8517.70.0000	United States	EAR99	5A991	Released	
N110082L009A	PTP820 Radiowave Antenna Conversion kit Dragonwave -> Cambium, 11 GHz, 4ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	6.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N110082L011A	PTP820 Dragonwave Antenna Adaptor for Cambium, 11GHz	USD	\$900.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	China	EAR99	EAR99	Released	Phase II
N110082L012A	PTP 820 Flexible Twist,WR90,UBR100, 35.0 inch,PBR100,10.7 - 11.7 GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N110082L079A	PTP 820C DUAL CORE MD KIT 10-11GHz (UBR100)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N110082L080A	PTP 820C DUAL COUPLER KIT 10-11GHz	USD	\$1,600.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N110082L081A	PTP 820C DUAL SPLITTER KIT 10-11GHz (UBR100)	USD	\$1,600.00	PTP : Licensed : PTP820	Accessory	5.8	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N110082L082A	PTP 820C OMT KIT 10-11GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	2.9	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N110082L083A	PTP 820C SPLITTER KIT 10-11GHz	USD	\$1,050.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082L084A	PTP 820 RFU-A 11GHz L-Bend T1	USD	\$225.00	PTP : Licensed : PTP820	Accessory	0.2	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N110082L085A	PTP 820 RFU-A 11GHz L-Bend T2	USD	\$490.00	PTP : Licensed : PTP820	Accessory	0.2	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released
N110082L086A	PTP 820 RFU-A 11GHz system Housing	USD	\$1,680.00	PTP : Licensed : PTP820	Accessory	6.3	kg	8517.70.0000	Taiwan	5A991.b.7	5A991	Released	Fully Released
N110082L087A	PTP 820 RFU-A 11GHz Termination	USD	\$55.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8517700000	Taiwan	5A991.b.7	5A991	Released	Fully Released
N110082L089A	PTP 820 RFU-A External Coupler 11GHz Kit	USD	\$1,300.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	Taiwan	5A991.b.7	5A991	Released	Fully Released
N110082L090A	PTP 820 RFU-C 10_11GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	4.7	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N110082L091A	PTP 820 RFU-C 10_11GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4.75	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N110082L092A	PTP 820 RFU-C 10_11GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	China	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N110082L093A	PTP 820 RFU-C 10_11GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N110082L094A	PTP 820 RFU-C SPLITTER KIT 11GHz (UBR100)	USD	\$850.00	PTP : Licensed : PTP820	Accessory	4.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N110082L103A	PTP 820 RFU-C 10_11GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N110082L104A	PTP 820 RFU-C 10_11GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N110082L105A	PTP 820 Flexible Twist,WR90,PBR100,48.0 inch,PBR100,10-11 GHz	USD	\$480.00	PTP : Licensed : PTP820	Accessory	3	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N110082L106A	PTP 820 Flexible Twist,WR90,PBR100, 35.0 inch,CPR90G,10-11 GHz	USD	\$850.00	PTP : Licensed : PTP820	Accessory	1.1	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N110082L107A	PTP 820 FLX-HNGR-11Ghz	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8302.50.0000	United States	5A991	5A991	Released	
N110082L111A	Fixed-tuned PBR100 connector for EWP90	USD	\$559.00	PTP : Licensed : PTP820	Accessory	1.7	kg	8517.70.0000	Mexico	EAR99	EAR99	Released	Fully Released
N130082D043A	PTP 820 1' ANT,SP,13GHz,RFU-C TYPE&Std UBR120 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	9.2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082D044A	PTP 820 1' ANT,SP,13GHz,RFU-C TYPE&UBR120 - CNT	USD	\$430.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N130082D045A	PTP 820 2' ANT,SP,13GHz,RFU-C TYPE&Std UBR120 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082D046A	PTP 820 2' ANT,SP,13GHz,RFU-C TYPE&UBR120 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N130082D047A	PTP 820 3' ANT,SP,13GHz,RFU-C TYPE&Std UBR120 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082D048A	PTP 820 4' ANT,SP,13GHz,RFU-C TYPE&Std UBR120 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	66	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082D049A	PTP 820 4' ANT,SP,13GHz,RFU-C TYPE&UBR120 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N130082D050A	PTP 820 6' ANT,SP,13GHz,RFU-C TYPE&Std UBR120 - Andrew	USD	\$3,626.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082D051A	PTP 820 6' ANT,SP,13GHz,RFU-C TYPE&UBR120 - CNT	USD	\$3,500.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N130082D063A	PTP 820 1' ANT,SP,13GHz,RFU-C TYPE&UBR120 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N130082D064A	PTP 820 2' ANT,SP,13GHz,RFU-C TYPE&UBR120 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N130082D065A	PTP 820 3' ANT,SP,13GHz,RFU-C TYPE&UBR120 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N130082D066A	PTP 820 4' ANT,SP,13GHz,RFU-C TYPE&UBR120 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N130082D067A	PTP 820 6' ANT,SP,13GHz,RFU-C TYPE&UBR120 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N130082D072A	PTP 820 3' ANT,SP,13GHz,RFU-C TYPE&UBR120 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N130082L001A	PTP 820C 13G Remote Mount adaptor - UBR120	USD	\$200.00	PTP : Licensed : PTP820	Accessory	1	kg	8302.50.0000	China	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N130082L002A	PTP 820 RFU-C ADPT 13GHz Remote Mount Adaptor - UBR120	USD	\$150.00	PTP : Licensed : PTP820	Accessory	0.3	kg	8302.50.0000	Israel	5A991.b.7	5A991	Released	Phase II
N130082L003A	PTP 820 Andrew Valuline Antenna Convert kit, 13GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N130082L004A	PTP820 Dragonwave Antenna Adaptor for Cambium, 13GHz	USD	\$900.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	China	EAR99	EAR99	Released	Phase II
N130082L053A	PTP 820C DUAL CORE MD KIT 13GHz (UBR120)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L054A	PTP 820C DUAL COUPLER KIT 13GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L055A	PTP 820C DUAL SPLITTER KIT 13GHz (UBR120)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L056A	PTP 820C OMT KIT 13GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L057A	PTP 820C SPLITTER KIT 13GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L058A	PTP 820 RFU-C 13GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L059A	PTP 820 RFU-C 13GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L060A	PTP 820 RFU-C 13GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L061A	PTP 820 RFU-C 13GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	Phase II
N130082L062A	PTP 820 RFU-C SPLITTER KIT 13GHz (UBR120)	USD	\$773.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L068A	PTP 820 RFU-C 13GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L069A	PTP 820 RFU-C 13GHz OMT Interface-CNT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N130082L070A	PTP 820 Flexible Twist,WR75,PBR120,35.0 inch,PBR120,13 GHz	USD	\$480.00	PTP : Licensed : PTP820	Accessory	0.45	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N130082L071A	PTP 820 FLX-HNGR-13Ghz	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8302.50.0000	United States	5A991.b.7	5A991	Released	
N150080R001A	ODU-A 15GHz, TR640, Lo, B1 (14500.0 - 14610.0 MHz), Rectangular WG,Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991	5A991	Released	
N150080R002A	ODU-A 15GHz, TR640, Hi, B1 (15140.0 - 15250.0 MHz), Rectangular WG,Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991	5A991	Released	
N150080R003A	ODU-A 15GHz, TR640, Lo, B2 (14605.0 - 14715.0 MHz), Rectangular WG,Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991	5A991	Released	
N150080R004A	ODU-A 15GHz, TR640, Hi, B2 (15245.0 - 15355.0 MHz), Rectangular WG,Neg Pol	USD	\$8,308.00	PTP : Licensed : PTP800	ODU or IRFU	8.62	kg	8517.62.0050	Philippines	5A991	5A991	Released	
N150082D065A	PTP 820 1' ANT,SP,15GHz,RFU-C TYPE&Std UBR140 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	9.3	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N150082D066A	PTP 820 1' ANT,SP,15GHz,RFU-C TYPE&UBR140 - CNT	USD	\$430.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N150082D067A	PTP 820 2' ANT,SP,15GHz,RFU-C TYPE&Std UBR140 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082D068A	PTP 820 2' ANT,SP,15GHz,RFU-C TYPE&UBR140 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N150082D069A	PTP 820 3' ANT,SP,15GHz,RFU-C TYPE&Std UBR140 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082D070A	PTP 820 4' ANT,SP,15GHz,RFU-C TYPE&Std UBR140 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	102	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082D071A	PTP 820 4' ANT,SP,15GHz,RFU-C TYPE&UBR140 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N150082D072A	PTP 820 6' ANT,SP,15GHz,RFU-C TYPE&Std UBR140 - Andrew	USD	\$3,626.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082D073A	PTP 820 6' ANT,SP,15GHz,RFU-C TYPE&UBR140 - CNT	USD	\$3,500.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N150082D085A	PTP 820 1' ANT,SP,15GHz,RFU-C TYPE&UBR140 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N150082D086A	PTP 820 2' ANT,SP,15GHz,RFU-C TYPE&UBR140 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N150082D087A	PTP 820 3' ANT,SP,15GHz,RFU-C TYPE&UBR140 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N150082D088A	PTP 820 4' ANT,SP,15GHz,RFU-C TYPE&UBR140 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N150082D089A	PTP 820 6' ANT,SP,15GHz,RFU-C TYPE&UBR140 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase II
N150082D094A	PTP 820 3' ANT,SP,15GHz,RFU-C TYPE&UBR140 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N150082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 15GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N150082L075A	PTP 820C DUAL CORE MD KIT 15GHz (UBR140)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L076A	PTP 820C DUAL COUPLER KIT 15GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L077A	PTP 820C DUAL SPLITTER KIT 15GHz (UBR140)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L078A	PTP 820C OMT KIT 15GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	Taiwan	5A991.b.7	5A991	Released	Phase II
N150082L079A	PTP 820C SPLITTER KIT 15GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L080A	PTP 820 RFU-C 15GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L081A	PTP 820 RFU-C 15GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L082A	PTP 820 RFU-C 15GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L083A	PTP 820 RFU-C 15GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	Phase II
N150082L084A	PTP 820 RFU-C SPLITTER KIT 15GHz (UBR140)	USD	\$773.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L090A	PTP 820 RFU-C 15GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L091A	PTP 820 RFU-C 15GHz OMT Interface-CNT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N150082L092A	PTP 820 Flexible Twist,WR62,PBR140,35.0 inch,PBR140,15 GHz	USD	\$420.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N150082L093A	PTP 820 FLX-HNGR-15Ghz	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8302.50.0000	United States	5A991.b.7	5A991	Released	
N180082D031A	PTP 820 1' ANT,SP,18GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082D032A	PTP 820 1' ANT,SP,18GHz,RFU-C TYPE&UBR220 - CNT	USD	\$430.00	PTP : Licensed : PTP820	Antenna	9.1	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N180082D033A	PTP 820 2' ANT,SP,18GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	10.9	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082D034A	PTP 820 2' ANT,SP,18GHz,RFU-C TYPE&UBR220 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	17.7	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N180082D035A	PTP 820 3' ANT,SP,18GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	31	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082D036A	PTP 820 4' ANT,SP,18GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	102	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082D037A	PTP 820 4' ANT,SP,18GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N180082D038A	PTP 820 6' ANT,SP,18GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$3,626.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082D039A	PTP 820 6' ANT,SP,18GHz,RFU-C TYPE&UBR220 - CNT	USD	\$3,500.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N180082D051A	PTP 820 1' ANT,SP,18GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N180082D052A	PTP 820 2' ANT,SP,18GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N180082D053A	PTP 820 3' ANT,SP,18GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N180082D054A	PTP 820 4' ANT,SP,18GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	86	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N180082D055A	PTP 820 6' ANT,SP,18GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	183	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N180082D060A	PTP 820 3' ANT,SP,18GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N180082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 18GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N180082L002A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 18 GHz, 2ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	4.55	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N180082L003A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 18 GHz, 3ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	4.55	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N180082L004A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 18 GHz, 4ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	6.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N180082L005A	PTP820 Radiowave Antenna Conversion kit Exalt -> Cambium, 18 GHz, 6ft	USD	\$575.00	PTP : Licensed : PTP820	Accessory	6.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N180082L009A	PTP820 Dragonwave Antenna Adaptor for Cambium, 18GHz	USD	\$900.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	China	EAR99	EAR99	Released	Phase II
N180082L041A	PTP 820C DUAL CORE MD KIT 18GHz (UBR220)	USD	\$890.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N180082L042A	PTP 820C DUAL COUPLER KIT 18GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N180082L043A	PTP 820C DUAL SPLITTER KIT 18GHz (UBR220)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N180082L044A	PTP 820C OMT KIT 18GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	2.3	kg	8517.70.0000	Taiwan	5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N180082L045A	PTP 820C SPLITTER KIT 18GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082L046A	PTP 820 RFU-C 18GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082L047A	PTP 820 RFU-C 18GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082L048A	PTP 820 RFU-C 18GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N180082L049A	PTP 820 RFU-C 18GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090		5A991.b.7	5A991	Released	Phase I
N180082L050A	PTP 820 RFU-C SPLITTER KIT 18GHz (UBR220)	USD	\$773.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N180082L056A	PTP 820 RFU-C 18GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N180082L057A	PTP 820 RFU-C 18GHz OMT Interface-CNT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N180082L058A	PTP 820 Flexible Twist,WR42,PBR220,35.0 inch,PBR220,18-26 GHz	USD	\$480.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N180082L059A	PTP 820 FLX-HNGR-18_26Ghz	USD	\$125.00	PTP : Licensed : PTP820	Accessory	0.35	kg	8302.50.0000	United States	5A991.b.7	5A991	Released	
N230082D021A	PTP 820 1' ANT,SP,23GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082D022A	PTP 820 1' ANT,SP,23GHz,RFU-C TYPE&UBR220 - CNT	USD	\$430.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N230082D023A	PTP 820 2' ANT,SP,23GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	10.9	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082D024A	PTP 820 2' ANT,SP,23GHz,RFU-C TYPE&UBR220 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	16.7	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N230082D025A	PTP 820 3' ANT,SP,23GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082D026A	PTP 820 4' ANT,SP,23GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	102	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N230082D027A	PTP 820 4' ANT,SP,23GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000	China	5A991.b.7		Released	Phase II
N230082D028A	PTP 820 6' ANT,SP,23GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$3,626.00	PTP : Licensed : PTP820	Antenna	193	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082D029A	PTP 820 6' ANT,SP,23GHz,RFU-C TYPE&UBR220 - CNT	USD	\$3,500.00	PTP : Licensed : PTP820	Antenna	165	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Phase II
N230082D041A	PTP 820 1' ANT,SP,23GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N230082D042A	PTP 820 2' ANT,SP,23GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N230082D043A	PTP 820 3' ANT,SP,23GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N230082D044A	PTP 820 4' ANT,SP,23GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N230082D045A	PTP 820 6' ANT,SP,23GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$4,656.00	PTP : Licensed : PTP820	Antenna	182	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	Phase I
N230082D048A	PTP 820 3' ANT,SP,23GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N230082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 23GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N230082L002A	PTP820 Dragonwave Antenna Adaptor for Cambium, 23GHz	USD	\$900.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	China	EAR99	EAR99	Released	Phase II
N230082L031A	PTP 820C DUAL CORE MD KIT 23GHz (UBR220)	USD	\$890.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N230082L032A	PTP 820C DUAL COUPLER KIT 23GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	5.8	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N230082L033A	PTP 820C DUAL SPLITTER KIT 23GHz (UBR220)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N230082L034A	PTP 820C OMT KIT 23GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N230082L035A	PTP 820C SPLITTER KIT 23GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	3.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082L036A	PTP 820 RFU-C 23_26GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.25	kg	7616.99.5090		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N230082L037A	PTP 820 RFU-C 23GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 1
N230082L038A	PTP 820 RFU-C 23GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082L039A	PTP 820 RFU-C 23GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	Phase I
N230082L040A	PTP 820 RFU-C SPLITTER KIT 23GHz (UBR220)	USD	\$773.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase I
N230082L046A	PTP 820 RFU-C 23GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	PTP 820-01-00 Phase 2
N230082L047A	PTP 820 RFU-C 23GHz OMT Interface-CNT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000		5A991.b.7	5A991	Released	Phase II
N260082D017A	PTP 820 1' ANT,SP,26GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N260082D018A	PTP 820 1' ANT,SP,26GHz,RFU-C TYPE&UBR220 - CNT	USD	\$450.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N260082D019A	PTP 820 2' ANT,SP,26GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N260082D020A	PTP 820 2' ANT,SP,26GHz,RFU-C TYPE&UBR220 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N260082D021A	PTP 820 3' ANT,SP,26GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,300.00	PTP : Licensed : PTP820	Antenna	30.8	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N260082D022A	PTP 820 4' ANT,SP,26GHz,RFU-C TYPE&Std UBR220 - Andrew	USD	\$1,780.00	PTP : Licensed : PTP820	Antenna	102	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N260082D023A	PTP 820 4' ANT,SP,26GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,650.00	PTP : Licensed : PTP820	Antenna	71	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N260082D034A	PTP 820 1' ANT,SP,26GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N260082D035A	PTP 820 2' ANT,SP,26GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N260082D036A	PTP 820 3' ANT,SP,26GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$1,665.00	PTP : Licensed : PTP820	Antenna	36	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N260082D037A	PTP 820 4' ANT,SP,26GHz,RFU-C TYPE&UBR220 - Radiowave	USD	\$2,235.00	PTP : Licensed : PTP820	Antenna	92.3	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N260082D040A	PTP 820 3' ANT,SP,26GHz,RFU-C TYPE&UBR220 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N260082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 26GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N260082L025A	PTP 820C DUAL CORE MD KIT 26GHz (UBR220)	USD	\$950.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L026A	PTP 820C DUAL COUPLER KIT 26GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L027A	PTP 820C DUAL SPLITTER KIT 26GHz (UBR220)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L028A	PTP 820C OMT KIT 26GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L029A	PTP 820C SPLITTER KIT 26GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L030A	PTP 820 RFU-C 26GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L031A	PTP 820 RFU-C 26GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L032A	PTP 820 RFU-C 26GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L038A	PTP 820 RFU-C 26GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N260082L039A	PTP 820 RFU-C 26GHz OMT Interface-CNT	USD	\$105.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082D029A	PTP 820 1' ANT,SP,28GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N280082D030A	PTP 820 1' ANT,SP,28GHz,RFU-C TYPE&UBR320 - CNT	USD	\$450.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N280082D031A	PTP 820 2' ANT,SP,28GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N280082D032A	PTP 820 2' ANT,SP,28GHz,RFU-C TYPE&UBR320 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N280082D044A	PTP 820 1' ANT,SP,28GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N280082D045A	PTP 820 2' ANT,SP,28GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N280082D050A	PTP 820 3' ANT,SP,28GHz,RFU-C TYPE&UBR320 - CNT	USD	\$1,200.00	PTP : Licensed : PTP820	Accessory	55	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released as of 16-Nov-2015
N280082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 28GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N280082L034A	PTP 820C DUAL CORE MD KIT 28GHz (UBR320)	USD	\$890.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L035A	PTP 820C DUAL COUPLER KIT 28GHz	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	4.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L036A	PTP 820C DUAL SPLITTER KIT 28GHz (UBR320)	USD	\$1,475.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L037A	PTP 820C OMT KIT 28GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L038A	PTP 820C SPLITTER KIT 28GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L039A	PTP 820 RFU-C 28_32GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.1	kg	7616.99.5090	Israel	5A991.b.7	5A991	Released	
N280082L040A	PTP 820 RFU-C 28GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N280082L041A	PTP 820 RFU-C 28GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L042A	PTP 820 RFU-C 28GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L046A	PTP 820 RFU-C 28GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L047A	PTP 820 RFU-C 28GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N280082L048A	PTP 820 Flexible Twist,WR28,PBR320, 35.0 inch,PBR320,28-38 GHz	USD	\$420.00	PTP : Licensed : PTP820	Accessory	0.5	kg	8307.90.3000	Taiwan	5A991.b.7	5A991	Released	
N280082L049A	PTP 820 FLX-HNGR-28_38Ghz	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.4	kg	8302.50.0000	United States	5A991.b.7	5A991	Released	
N320082D013A	PTP 820 1' ANT,SP,32GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N320082D014A	PTP 820 1' ANT,SP,32GHz,RFU-C TYPE&UBR320 - CNT	USD	\$450.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N320082D015A	PTP 820 2' ANT,SP,32GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N320082D016A	PTP 820 2' ANT,SP,32GHz,RFU-C TYPE&UBR320 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N320082D027A	PTP 820 1' ANT,SP,32GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N320082D028A	PTP 820 2' ANT,SP,32GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N320082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 32GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N320082L023A	PTP 820 RFU-C 32GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N320082L024A	PTP 820 RFU-C 32GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N320082L025A	PTP 820 RFU-C 32GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N320082L030A	PTP 820 RFU-C 32GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082D037A	PTP 820 1' ANT,SP,38GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$456.00	PTP : Licensed : PTP820	Antenna	8.95	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N380082D038A	PTP 820 1' ANT,SP,38GHz,RFU-C TYPE&UBR320 - CNT	USD	\$450.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N380082D039A	PTP 820 2' ANT,SP,38GHz,RFU-C TYPE&Std UBR320 - Andrew	USD	\$575.00	PTP : Licensed : PTP820	Antenna	19.42	kg	8517.70.0000	Mexico	5A991.b.7	5A991	Released	
N380082D040A	PTP 820 2' ANT,SP,38GHz,RFU-C TYPE&UBR320 - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	
N380082D052A	PTP 820 1' ANT,SP,38GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$660.00	PTP : Licensed : PTP820	Antenna	10.8	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N380082D053A	PTP 820 2' ANT,SP,38GHz,RFU-C TYPE&UBR320 - Radiowave	USD	\$710.00	PTP : Licensed : PTP820	Antenna	21.7	kg	8517.70.0000	United States	5A991.b.7	5A991	Released	
N380082L001A	PTP 820 Andrew Valuline Antenna Convert kit, 38GHz	USD	\$525.00	PTP : Licensed : PTP820	Accessory	2.5	kg	7616.99.5090	China	5A991.b.7	5A991	Released	Phase II
N380082L042A	PTP 820C DUAL CORE MD KIT 38GHz (UBR320)	USD	\$890.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L043A	PTP 820C DUAL COUPLER KIT 38GHz	USD	\$1,600.00	PTP : Licensed : PTP820	Accessory	5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L044A	PTP 820C DUALSPLITTER KIT 38GHz (UBR320)	USD	\$1,600.00	PTP : Licensed : PTP820	Accessory	2	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L045A	PTP 820C OMT KIT 38GHz	USD	\$990.00	PTP : Licensed : PTP820	Accessory	3	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L046A	PTP 820C SPLITTER KIT 38GHz	USD	\$865.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L047A	PTP 820 RFU-C 38GHz Coupler KIT	USD	\$615.00	PTP : Licensed : PTP820	Accessory	2.8	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
N380082L048A	PTP 820 RFU-C 38GHz OMT DM KIT	USD	\$1,218.00	PTP : Licensed : PTP820	Accessory	4	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L049A	PTP 820 RFU-C 38GHz OMT Interface-Andrew	USD	\$125.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L050A	PTP 820 RFU-C 38GHz Twist Adaptor KIT	USD	\$100.00	PTP : Licensed : PTP820	Accessory	0.2	kg	7616.99.5090	Israel	5A991.b.7	5A991	Released	
N380082L054A	PTP 820 RFU-C 38GHz OMT Interface-Radiowave	USD	\$400.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N380082L055A	PTP 820 RFU-C 38GHz OMT Interface-CNT	USD	\$115.00	PTP : Licensed : PTP820	Accessory	2.5	kg	8517.70.0000	Israel	5A991.b.7	5A991	Released	
N420082D005A	PTP 820 1' ANT,SP,42GHz,RFU-C TYPE&UG383&U - CNT	USD	\$450.00	PTP : Licensed : PTP820	Antenna	12	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released
N420082D006A	PTP 820 2' ANT,SP,42GHz,RFU-C TYPE&UG383&U - CNT	USD	\$525.00	PTP : Licensed : PTP820	Antenna	18	kg	8517.70.0000	China	5A991.b.7	5A991	Released	Fully Released
NB-N500001A-US	N500 IO Expander	USD	\$645.00	cnReach	Accessory	0.794	kg	8517.70.0000	United States	5A002.a.1	5A002.a.1	Released	Fully Released
NB-N500002A-US	N500 Power Connector, Spare	USD	\$3.00	cnReach	Accessory	0.0053	kg	8536.69.8000	United States	EAR99	EAR99	Released	Fully Released
NB-N500003A-US	N500 IO Connector, Spare	USD	\$15.00	cnReach	Accessory	0.00935	kg	8536.69.8000	United States	EAR99	EAR99	Released	Fully Released
NB-N500004A-US	N500 DIN Rail Mount	USD	\$9.00	cnReach	Accessory	0.0138	kg	3926.90.9995	United States	EAR99	EAR99	Released	Fully Released
NB-N500005A-US	N500 RJ45-DB9 Adaptor	USD	\$12.00	cnReach	Accessory	0.0196	kg	8536.69.8000	United States	EAR99	EAR99	Released	Fully Released
NB-N500006A-US	N500 AC Power Supply	USD	\$80.00	cnReach	Accessory	0.544	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
NB-N500006B-US	N500 AC Power Supply 24 VDC with US line cord	USD	\$80.00	cnReach	Accessory	0.81	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
NB-N500008A-US	N500 900 MHz Whip Antenna	USD	\$80.00	cnReach	Accessory	0.0342	kg	8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
NB-N500009A-US	N500 700 MHz Whip Antenna	USD	\$80.00	cnReach	Accessory	0.06395	kg	8517.70.0000	United States	EAR99	EAR99	Released	* ECO-006547 submitted 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500010A-US	N500 450 MHz Whip Antenna	USD	\$80.00	cnReach	Accessory	0.089	kg	8517.62.0000	United States	EAR99	EAR99	Released	Collins
NB-N500011A-GL	N500 AC Power Supply (no line cord)	USD	\$80.00	cnReach	Accessory	0.272155	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
NB-N500011B-GL	N500 AC Power Supply 24 VDC (no line cord)	USD	\$80.00	cnReach	Accessory	0.27	kg	8504.40.8500	United States	EAR99	EAR99	Released	Fully Released
NB-N500410A-EU	N500 450 MHz Single - ETSI	USD	\$1,495.00	cnReach	Accessory	0.8164	kg	8517.62.0000	United States	5A002	5A002	In Design	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500410A-US	N500 450 MHz Single	USD	\$1,495.00	cnReach	Accessory	0.8164	kg	8517.70.0000	United States	5A002	5A002	Released	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500411A-EU	N500 450 MHz Single with IO - ETSI	USD	\$1,595.00	cnReach	Accessory	0.8164	kg	8517.62.0000	United States	5A002	5A002	In Design	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500411A-US	N500 450 MHz Single with IO	USD	\$1,595.00	cnReach	Accessory	0.8164	kg	8517.62.0000	United States	5A002	5A002	Released	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500420A-EU	N500 450 MHz Dual - ETSI	USD	\$2,095.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	5A002	5A002	In Design	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500420A-US	N500 450 MHz Dual	USD	\$2,095.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	5A002	5A002	Released	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500421A-EU	N500 450 MHz Dual with IO - ETSI	USD	\$2,195.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	5A002	5A002	In Design	Collins 14-June-2017 ☐ Item placed back on PM Hold per Bruce
NB-N500421A-US	N500 450 MHz Dual with IO	USD	\$2,195.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	5A002	5A002	Released	Collins Fully Released ☐ ☐
NB-N500710A-US	N500 700 MHz Single	USD	\$1,495.00	cnReach	Accessory	0.8164	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	* ECO-006547 submitted Fully Released ☐ ☐
NB-N500711A-US	N500 700 MHz Single with IO	USD	\$1,595.00	cnReach	Accessory	0.8164	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	* ECO-006547 submitted

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
NB-N500720A-US	N500 700 MHz Dual	USD	\$2,095.00	cnReach	Accessory	0.9072	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	Fully Released <input type="checkbox"/> * ECO-006547 submitted Fully Released <input type="checkbox"/>
NB-N500721A-US	N500 700 MHz Dual with IO	USD	\$2,195.00	cnReach	Accessory	0.9072	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	* ECO-006547 submitted
NB-N500910A-AU	N500 900 MHz Single - Australia	USD	\$1,395.00	cnReach	Accessory	0.8164	kg	8517.62.0000	United States	EAR99	EAR99	Released	Fully Released <input type="checkbox"/>
NB-N500910A-US	N500 900 MHz Single	USD	\$1,395.00	cnReach	Accessory	0.8164	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	Fully Released
NB-N500911A-AU	N500 900 MHz Single with IO - Australia	USD	\$1,495.00	cnReach	Accessory	0.8164	kg	8517.62.0000	United States	EAR99	EAR99	Released	Fully Released
NB-N500911A-US	N500 900 MHz Single with IO	USD	\$1,495.00	cnReach	Accessory	0.8164	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	Fully Released
NB-N500920A-AU	N500 900 MHz Dual - Australia	USD	\$1,995.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	EAR99	EAR99	Released	Fully Released
NB-N500920A-US	N500 900 MHz Dual	USD	\$1,995.00	cnReach	Accessory	0.9072	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	Fully Released
NB-N500921A-AU	N500 900 MHz Dual with IO - Australia	USD	\$2,095.00	cnReach	Accessory	0.9072	kg	8517.62.0000	United States	EAR99	EAR99	Released	Fully Released
NB-N500921A-US	N500 900 MHz Dual with IO	USD	\$2,095.00	cnReach	Accessory	0.9072	kg	8517.62.0050	United States	5A002.a.1	5A002.a.1	Released	Fully Released
NTIA07800B1KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 7 GHz TR300 B1	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Released	Fully Released
NTIA07800B2KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 7 GHz TR300 B2	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Released	Fully Released
NTIA07800B3KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 7 GHz TR300 B3	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Released	Fully Released
NTIA08800B1KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 8 GHz TR360 B1	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Pending Obsolete	23-Sept-2016 Changed item back to active per Allen Yu <input type="checkbox"/> Item Abandoned <input type="checkbox"/> Change #ECO-005397 0 <input type="checkbox"/> CRB-731
NTIA08800B2KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 8 GHz TR360 B2	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Pending Obsolete	23-Sept-2016 Changed item back to active per Allen Yu as kit needed for Federal orders. Item Abandoned <input type="checkbox"/> Change #ECO-005397 0 <input type="checkbox"/> CRB-731
NTIA08800B3KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 8 GHz TR360 B3	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Pending Obsolete	23-Sept-2016 Changed item back to active per Allen Yu as kit needed for Federal orders. Item Abandoned <input type="checkbox"/> Change #ECO-005397 0 <input type="checkbox"/> CRB-731
NTIA15800B1KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 15 GHz TR640 B1	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Released	Change #ECO-004958 submitted to Release Eng. Status to Production <input type="checkbox"/>
NTIA15800B2KIT	PTP800 link with FIPS 256bit AES,400 Mbps, 15 GHz TR640 B2	USD	\$29,995.00	PTP : Licensed : PTP800	Kit or Mixed Components	14.34	kg	8517.62.0050	United States	5D002.a	5D002.a	Released	Per Allen, ok to Release
PL-501S000A-EU	E501S (EU) Outdoor 2x2 Integrated Gigabit 11ac access point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501S000A-EU	E501S (EU) Outdoor 2x2 Integrated Gigabit 11ac access point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501S000A-RW	E501S (ROW) Outdoor 2x2 Integrated 11ac Access Point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501S000A-RW	E501S (ROW) Outdoor 2x2 Integrated 11ac Access Point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501S000A-US	E501S (FCC) Outdoor 2x2 Integrated Gigabit 11ac access point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501S000A-US	E501S (FCC) Outdoor 2x2 Integrated Gigabit 11ac access point	USD	\$499.00	cnPilot : cnPilot Outdoor	Access Point	2.013	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SP00A-EU	E501S (EU) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SP00A-EU	E501S (EU) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SP00A-RW	E501S (ROW) Outdoor 2x2 Integrated 11ac access point with PoE Injector, No country cord	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.173	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SP00A-RW	E501S (ROW) Outdoor 2x2 Integrated 11ac access point with PoE Injector, No country cord	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.173	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
PL-501SP00A-US	E501S (FCC) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPANARW	E501S (ROW with Australia/New Zealand cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPANARW	E501S (ROW with Australia/New Zealand cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPARARW	E501S (ROW with Argentina country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.a	Released	Fully Released per Chetan
PL-501SPBRARW	E501S (ROW with Brazil country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPBRARW	E501S (ROW with Brazil country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPCNARW	E501S (ROW with China country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPCNARW	E501S (ROW with China country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPEUARW	E501S (ROW with EU country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPEUARW	E501S (ROW with EU country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPINARW	E501S (ROW with India country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPINARW	E501S (ROW with India country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPUKAEU	E501S (EU with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPUKAEU	E501S (EU with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPUKARW	E501S (ROW with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPUKARW	E501S (ROW with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-501SPUSARW	E501S (ROW with US country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$525.00	cnPilot : cnPilot Outdoor	Access Point	2.335	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released per Chetan
PL-E400ARCARW	cnPilot E400 (ROW with Argentina country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400CNCARW	cnPilot E400 (ROW with China country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400EUCARW	cnPilot E400 (ROW with EU country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400INCARW	cnPilot E400 (ROW with India country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400UKCAEU	cnPilot E400 (EU with UK country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400UKCARW	cnPilot E400 (ROW with UK country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400USCARW	cnPilot E400 (ROW with US country cord) 802.11ac dual band AP with PoE Injector	USD	\$199.00	cnPilot : cnPilot Indoor	Access Point	1.01	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E400X00AEU	cnPilot E400 Indoor(EU) 802.11ac dual band AP only	USD	\$185.00	cnPilot : cnPilot Indoor	Access Point	0.77	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
PL-E400X00ARW	cnPilot E400 Indoor (ROW) 802.11ac dual band AP only	USD	\$185.00	cnPilot : cnPilot Indoor	Access Point	0.765	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
PL-E400X00AUS	cnPilot E400 Indoor(FCC) 802.11ac dual band AP only	USD	\$185.00	cnPilot : cnPilot Indoor	Access Point	0.77	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
PL-E410PANARW	cnPilot E410 (ROW with AUS/NZ cord) 802.11ac Wave 2, 2x2, with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.034	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 □
PL-E410PARARW	cnPilot E410 (ROW with Argentina cord) Wave 2, 2x2, 802.11ac with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.044	kg	8517620050	China	5A992.c	5A992.c	Released	Fully Released 13-June-2017 □
PL-E410PBRARW	cnPilot E410 (ROW with Brazil cord) 802.11ac Wave 2, 2x2, with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.024	kg	8517620050	China	5A992.c	5A992.c	Released	Fully Released 13-June-2017 □
PL-E410PCNARW	cnPilot E410 (ROW with China country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.024	kg	8517620050	China	5A992.c	5A992.c	Released	Fully Released 13-June-2017 □
PL-E410PEUAEU	cnPilot E410 Indoor (EU, EU cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517620050	China	5A992.c	5A992.c	Released	Fully Released 3 EU sales P/N BACK ON HOLD until we get the EU certificate

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
PL-E410PEUA-RW	cnPilot E410 Indoor (ROW with EU cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.06	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410PINA-RW	cnPilot E410 (ROW with India country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.094	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410PUKA-EU	cnPilot E410 (EU with UK country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.094	kg	8517620050	China	5A992.c	5A992.c	Released	3 EU sales P/N BACK ON HOLD until we get the EU certificate
PL-E410PUKA-RW	cnPilot E410 (ROW with UK country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.094	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410PUSA-RW	cnPilot E410 (ROW with US country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.016	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410PUSA-US	cnPilot E410 Indoor (FCC, US cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	1.016	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410PXXA-RW	cnPilot E410 Indoor (ROW, No cord) 802.11ac Wave 2, 2x2, AP with PoE Injector	USD	\$220.00	cnPilot : cnPilot Indoor	Access Point	0.934	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410X00A-EU	cnPilot E410 Indoor (EU) 802.11ac wave 2, 2x2, AP	USD	\$195.00	cnPilot : cnPilot Indoor	Access Point	0.806	kg	8517620050	China	5A992.c	5A992.c	Released	3 EU sales P/N BACK ON HOLD until we get the EU certificate
PL-E410X00A-RW	cnPilot E410 Indoor (ROW) 802.11ac wave 2, 2x2, AP	USD	\$195.00	cnPilot : cnPilot Indoor	Access Point	0.806	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E410X00A-US	cnPilot E410 Indoor (FCC) 802.11ac wave 2, 2x2, AP	USD	\$195.00	cnPilot : cnPilot Indoor	Access Point	0.806	kg	8517620050	China	5A992.c	5A992.c	Released	13-June-2017 ☐ Fully Released
PL-E500ANCA-RW	E500 (ROW with ANZ country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500ARCA-RW	E500 (ROW with Argentina country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500BRCA-RW	E500 (ROW with Brazil country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500CNCA-RW	E500 (ROW with China country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500EUCA-RW	E500 (ROW with EU country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500INCA-RW	E500 (ROW with India country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500INTA-EU	E500 (EU) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.11	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released to ship
PL-E500INTA-RW	E500 (ROW) Outdoor 2x2 Integrated 11ac access point with PoE Injector, No country cord	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.01	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released to ship
PL-E500INTA-US	E500 (FCC) Outdoor 2x2 Integrated Gigabit 11ac access point with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.08	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500NPSA-RW	E500 (ROW with No PoE injector) Outdoor 2x2 Integrated Gigabit 11ac access point	USD	\$335.00	cnPilot : cnPilot Outdoor	Access Point	1.85	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	*Available for pre-orders ☐ NO PURCHASE PRICE
PL-E500S0001	cnPilot E500 Extended Warranty, 1 Additional Year	USD	\$28.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0001	cnPilot E500 Extended Warranty, 1 Additional Year	USD	\$28.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0002	cnPilot E500 Extended Warranty, 2 Additional Year	USD	\$52.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0002	cnPilot E500 Extended Warranty, 2 Additional Year	USD	\$52.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0003	cnPilot E500 Extended Warranty, 3 Additional Year	USD	\$70.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0003	cnPilot E500 Extended Warranty, 3 Additional Year	USD	\$70.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0004	cnPilot E500 Extended Warranty, 4 Additional Year	USD	\$80.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500S0004	cnPilot E500 Extended Warranty, 4 Additional Year	USD	\$80.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
PL-E500UKCA-EU	E500 (EU with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500UKCA-RW	E500 (ROW with UK country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E500USCA-RW	E500 (ROW with US country cord) Outdoor 2x2 Integrated 11ac AP with PoE Injector	USD	\$349.00	cnPilot : cnPilot Outdoor	Access Point	2.1	kg	8517.62.0050	China	5A992.c	5A992.c	Released	Fully Released
PL-E600PANA-RW	cnPilot E600 (ROW with AUS/NZ cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.23	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
PL-E600PARA-RW	cnPilot E600 (ROW with Argentina cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.24	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PBRA-RW	cnPilot E600 (ROW with Brazil cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.22	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PCNA-RW	cnPilot E600 (ROW with China country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.22	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PEUA-EU	cnPilot E600 Indoor (EU, EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.256	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PEUA-RW	cnPilot E600 Indoor (ROW with EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.256	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PINA-RW	cnPilot E600 (ROW with India country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.29	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PUKA-EU	cnPilot E600 (EU with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.29	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PUKA-RW	cnPilot E600 (ROW with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.29	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PUSA-RW	cnPilot E600 (ROW with US country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.212	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PUSA-US	cnPilot E600 Indoor (FCC, US cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.212	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600PXXA-RW	cnPilot E600 Indoor (ROW, No cord) 802.11ac Wave 2, 4x4, AP with PoE Injector	USD	\$345.00	cnPilot : cnPilot Indoor	Access Point	1.13	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600X00A-EU	cnPilot E600 Indoor (EU) 802.11ac wave 2, 4x4, AP	USD	\$325.00	cnPilot : cnPilot Indoor	Access Point	0.962	kg	8517620050	China	5A992.c	5A992.c	In Design	29-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600X00A-RW	cnPilot E600 Indoor (ROW, No PSU) 802.11ac wave 2, 4x4, AP	USD	\$325.00	cnPilot : cnPilot Indoor	Access Point	0.962	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-E600X00A-US	cnPilot E600 Indoor (FCC) 802.11ac wave 2, 4x4, AP	USD	\$325.00	cnPilot : cnPilot Indoor	Access Point	0.962	kg	8517620050	China	5A992.c	5A992.c	In Design	28-June-2017 ☐ *Available for Pre-Orders ☐ Per Chetan: will not be shipping product until mid/late July.
PL-R190VANA-AN	R190V AUS/NZ Cord, 802.11n 2.4 GHZ WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.54	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	PM/Stop Ship Hold will be removed once engineering status Released ☐ ☐ *Item available to order

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
PL-R190VEUA-WW	R190V EU Cord, 802.11n 2.4 GHZ WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.55	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	PM/Stop Ship Hold will be removed once engineering status Released <input type="checkbox"/>
PL-R190VINA-WW	R190V India Cord, 802.11n WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.54	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	*Item available to order PM/Stop Ship Hold will be removed once engineering status Released <input type="checkbox"/>
PL-R190VNPA-WW	R190V No Power supply, 802.11n 2.4 GHZ WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.46	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	*Item available to order PM/Stop Ship Hold will be removed once engineering status Released <input type="checkbox"/>
PL-R190VUKA-WW	R190V UK Cord, 802.11n 2.4 GHZ WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.54	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	*Item available to order PM/Stop Ship Hold will be removed once engineering status Released <input type="checkbox"/>
PL-R190VUSA-WW	R190V US Cord, 802.11n 2.4 GHZ WLAN router with built-in ATA	USD	\$60.00	cnPilot : cnPilot Home	Access Point	0.55	kg	8517.62.0050	China	5A992.c	5A992.c	In Design	*Item available to order PM/Stop Ship Hold will be removed once engineering status Released <input type="checkbox"/>
PL-R190WEUA-WW	R190W EU Cord, 802.11n 2.4 GHZ WLAN router	USD	\$40.00	cnPilot : cnPilot Home	Access Point	0.45	kg	8517.62.0050	China	5A992.c	5A992.c	Released	19-June-2017 <input type="checkbox"/>
PL-R190WINA-WW	R190W India Cord, 802.11n 2.4 GHZ WLAN router	USD	\$40.00	cnPilot : cnPilot Home	Access Point	0.44	kg	8517.62.0050	China	5A992.c	5A992.c	Released	PM Hold reapplied per Josh
PL-R190WNPA-WW	R190W No Power supply, 802.11n 2.4 GHZ WLAN router	USD	\$40.00	cnPilot : cnPilot Home	Access Point	0.39	kg	8517.62.0050	China	5A992.c	5A992.c	Released	
PL-R190WUKA-WW	R190W UK Cord, 802.11n 2.4 GHZ WLAN router	USD	\$40.00	cnPilot : cnPilot Home	Access Point	0.45	kg	8517.62.0050	China	5A992.c	5A992.c	Released	19-June-2017 <input type="checkbox"/>
PL-R190WUSA-WW	R190W US Cord, 802.11n 2.4 GHZ WLAN router	USD	\$40.00	cnPilot : cnPilot Home	Access Point	0.44	kg	8517.62.0050	China	5A992.c	5A992.c	Released	PM Hold reapplied per Josh
PL-R200PUKA-WW	cnPilot R200P (UK cord) 802.11n single band WLAN Router with ATA and PoE	USD	\$95.00	cnPilot : cnPilot Home	Access Point	0.92	kg	8517.62.0090	China	5A992.c	5A992.c	In Design	
PL-R200XUKA-WW	cnPilot R200 (UK cord) 802.11n single band WLAN Router with ATA and PoE	USD	\$75.00	cnPilot : cnPilot Home	Access Point	0.75	kg	8517.62.0090	China	5A992.c	5A992.c	In Design	
PL-R201PUKA-WW	cnPilot R201P (UK cord) 802.11ac Dual band WLAN Router with ATA and PoE	USD	\$120.00	cnPilot : cnPilot Home	Access Point	0.93	kg	8517.62.0090	China	5A992.c	5A992.c	In Design	
PL-R201XUKA-WW	cnPilot R201 (UK cord) 802.11ac dual band WLAN Router with ATA	USD	\$105.00	cnPilot : cnPilot Home	Access Point	0.8	kg	8517.62.0090	China	5A992.c	5A992.c	In Design	
PL-R201XUKA-WW	cnPilot R201 (UK cord) 802.11ac dual band WLAN Router with ATA	USD	\$105.00	cnPilot : cnPilot Home	Access Point	0.8	kg	8517.62.0090	China	5A992.c	5A992.c	In Design	
PS-ADV1DAY-US	Advisory Services - 1 Day (Includes Travel & Living)	USD	\$1,200.00	Global Services : Professional Services	Service					EAR99	EAR99	Released	
PS-ADV1DAY-US	Advisory Services - 1 Day (Includes Travel & Living)	USD	\$1,200.00	Global Services : Professional Services	Service					EAR99	EAR99	Released	
RDG4452B	5.25-5.85 GHZ, 3-FT (0.9M), DUAL-POL PARABOLIC DISH, NF CONN	USD	\$2,400.00	PTP	Antenna	18.8	kg	8517700000	Mexico	EAR99	EAR99	Obsolete	CommScope announces that the microwave antennas listed will be discontinued during Q4 2015. <input type="checkbox"/> Discontinued parts will be updated with discontinuation notice in the internal and external Product Catalogue. <input type="checkbox"/> End-of-Life Date: <input type="checkbox"/> No further orders will be accepted after the earlier of component inventory depletion or <input type="checkbox"/> 1 December 2015. Shipments should be completed by year end.

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Accessory								DN Number not yet assigned: <input type="checkbox"/> Effective Immediately item no longer available. <input type="checkbox"/> <input type="checkbox"/> Reference Material on the Web: <input type="checkbox"/> Cambium Networks Website: www.cambiumnetworks.com <input type="checkbox"/> Cambium ConnectedPartner portal: https://channel.cambiumnetworks.com <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
RDG4453B	5.25-5.85 GHZ, 4-FT (1.2M), DUAL-POL PARABOLIC DISH, NF CONN	USD	\$3,450.00 PTP			152 kg		8517.70.0000	Mexico	EAR99	EAR99	Obsolete	CRB/ECO for Eng. in progress DN Number not yet assigned: <input type="checkbox"/> Effective Immediately item no longer available. <input type="checkbox"/> <input type="checkbox"/> Reference Material on the Web: <input type="checkbox"/> Cambium Networks Website: www.cambiumnetworks.com <input type="checkbox"/> Cambium ConnectedPartner portal: https://channel.cambiumnetworks.com <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
					Antenna								CRB/ECO for Eng. in progress
RDG4454B	5.25-5.85 GHZ, 6-FT (2.0M), DUAL-POL PARABOLIC DISH, NF CONN	USD	\$5,600.00 PTP			118.77 kg		8517.70.0000	Mexico	EAR99	EAR99	Obsolete	CRB/ECO for Eng. in progress
					Antenna								CommScope announces that the microwave antennas listed will be discontinued during Q4 2015. <input type="checkbox"/> Discontinued parts will be updated with discontinuation notice in the internal and external Product Catalogue. <input type="checkbox"/> End-of-Life Date: <input type="checkbox"/> No further orders will be accepted after the earlier of component inventory depletion or <input type="checkbox"/> 1 December 2015. Shipments should be completed by year end. ECO-006212 <input type="checkbox"/>
RDG4472B	5.25-5.85 GHZ, 2-FT (0.6M), DUAL-POL PARABOLIC DISH, NF CONN	USD	\$2,100.00 PTP			18 kg		8517700000	Brazil	EAR99	EAR99	Obsolete	Request to Obsolete per Tyler H. ECO-006212 <input type="checkbox"/>
RDH4494B	2.4-2.7 GHZ, 2-FT (0.6M), H-POL & V-POL, WITH FINE ADJUSTMENTS	USD	\$1,600.00 PTP		Antenna	8.1 kg		8517.70.0000	United States	5A991.g	5A991.g	Obsolete	Request to Obsolete per Tyler H. ECO-006212 <input type="checkbox"/>
RDH4495B	2.4-2.7 GHZ, 3-FT (0.9M), H-POL & V-POL	USD	\$2,650.00 PTP		Antenna	35.3 kg		8517.70.0000	United States	5A991.g	5A991.g	Obsolete	Request to Obsolete per Tyler H. ECO-006212 <input type="checkbox"/>
RDH4496B	2.4-2.7 GHZ, 4-FT (1.2M), DUAL-POL, H-POL & V-POL	USD	\$3,350.00 PTP		Antenna	57.15 kg		8517.70.0000	United States	5A991.g	5A991.g	Obsolete	Request to Obsolete per Tyler H. ECO-006212 <input type="checkbox"/>
RDH4497B	2.4-2.7 GHZ, 6-FT (1.8M), DUAL-POL, H-POL & V-POL	USD	\$4,600.00 PTP		Antenna	100.7 kg		8517.70.0000	United States	5A991.g	5A991.g	Obsolete	Request to Obsolete per Tyler H. ECO-006212 <input type="checkbox"/>
RDH4498B	2.4-2.7 GHZ, 8-FT (2.4M), DUAL-POL, H-POL & V-POL	USD	\$6,650.00 PTP		Antenna	398.2 kg		8517.70.0000	United States	EAR99	EAR99	Obsolete	Request to Obsolete per Tyler H.
RDH4499A	4.4-5.0 GHZ, 2-FT (0.6M), H-POL & V-POL, WITH FINE ADJUSTMENTS	USD	\$1,800.00 PTP		Antenna	8.1 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
RDH4500A	4.4-5.0 GHZ, 3-FT (0.9M), DUAL-POL, H-POL & V-POL	USD	\$2,800.00 PTP		Antenna	36.74 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4501A	4.4-5.0 GHZ, 4-FT (1.2M), DUAL-POL, H-POL & V-POL	USD	\$3,550.00 PTP		Antenna	57.15 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4502A	4.4-5.0 GHZ, 6-FT (1.8M), DUAL-POL, H-POL & V-POL	USD	\$4,800.00 PTP		Antenna	100.7 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4503B	5.25-5.85 GHZ, 2-FT (0.6M), WITH FINE ADJUSTMENTS	USD	\$1,600.00 PTP		Antenna	8.1 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
RDH4504B	5.25-5.85 GHZ, 3-FT (0.9M), DUAL-POL, H-POL & V-POL	USD	\$2,650.00 PTP		Antenna	35.3 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4505B	5.25-5.85 GHZ, 4-FT (1.2M), DUAL-POL, H-POL & V-POL	USD	\$3,350.00 PTP		Antenna	57.15 kg		8517.70.0000	United States	EAR99	EAR99	Released	November 8th 2016: <input type="checkbox"/> <input type="checkbox"/> Changed both region statuses per Bruce Collins. <input type="checkbox"/> <input type="checkbox"/>
					Antenna								Item should remain active and orderable
RDH4506B	5.25-5.85 GHZ, 6-FT (1.8M), DUAL-POL, H-POL & V-POL	USD	\$4,600.00 PTP			100.7 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4507B	5.25-5.85 GHZ, 8-FT (2.4M), DUAL-POL, H-POL & V-POL	USD	\$6,650.00 PTP		Antenna	398.2 kg		8517.70.0000	United States	EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
RDH4508B	5.25-5.85 GHZ, 2-FT (0.6M), HIGH PERFORMANCE DUAL-POL	USD	\$1,800.00 PTP		Antenna	21.7 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4509B	5.25-5.85 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	USD	\$3,150.00 PTP		Antenna	69.8 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4510B	5.25-5.85 GHZ, 4-FT (1.2M), HIGH PERFORMANCE DUAL-POL	USD	\$5,500.00 PTP		Antenna	88.9 kg		8517.70.0000	United States	5A991.g	5A991.g	Released	
					Antenna								Pending ECO to change Eng. Status back to Released <input type="checkbox"/>
RDH4511B	5.25-5.85 GHZ, 6-FT (1.8M), HIGH PERFORMANCE DUAL-POL	USD	\$9,500.00 PTP			181 kg		8517700000	United States	EAR99	EAR99	Released	Item should not have been Obsoleted
RDH4513B	5.25-5.85 GHZ, 3-FT (0.9M), SINGLE-POL	USD	\$2,750.00 PTP		Accessory	35.3 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RDH4515A	4.4-5.0 GHZ, 6-FT (1.8M), HIGH PERFORMANCE DUAL-POL	USD	\$9,950.00 PTP		Antenna	181 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4516A	4.4-5.0 GHZ, 4-FT (1.2M), HIGH PERFORMANCE DUAL-POL	USD	\$5,700.00 PTP		Antenna	88.9 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4517A	4.4-5.0 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	USD	\$3,350.00 PTP		Antenna	69.8 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4518A	4.4-5.0 GHZ, 2-FT (0.6M), HIGH PERFORMANCE DUAL-POL	USD	\$2,050.00 PTP		Antenna	21.7 kg		8517.70.0000	United States	5A991	5A991	Released	
RDH4519A	4.5-5.0 GHZ, 20.8 dBi, 1-ft (0.3m), High Performance Dual-Pol, Low profile	USD	\$8,500.00 PTP		Antenna	10.8 kg		8517.70.0000	United States	EAR99	EAR99	Released	
													DN Number not yet assigned: <input type="checkbox"/>
													Effective Immediately item no longer available. <input type="checkbox"/>
					Antenna								Reference Material on the Web: <input type="checkbox"/>
													Cambium Networks Website: <input type="checkbox"/>
													www.cambiumnetworks.com <input type="checkbox"/>
													Cambium ConnectedPartner portal: <input type="checkbox"/>
													https://channel.cambiumnetworks.com <input type="checkbox"/>
RDH4524A	5.25-5.85 GHZ, 4-FT (1.2M), HIGH PERFORMANCE SINGLE-POL	USD	\$4,450.00 PTP			73.6 kg		8517.70.0000	Mexico	EAR99	EAR99	Obsolete	CRB/ECO for Eng. in progress
													DN Number not yet assigned: <input type="checkbox"/>
													Effective Immediately item no longer available. <input type="checkbox"/>
					Antenna								Reference Material on the Web: <input type="checkbox"/>
													Cambium Networks Website: <input type="checkbox"/>
													www.cambiumnetworks.com <input type="checkbox"/>
													Cambium ConnectedPartner portal: <input type="checkbox"/>
													https://channel.cambiumnetworks.com <input type="checkbox"/>
RDH4525A	5.25-5.85 GHZ, 6-FT (1.8M), HIGH PERFORMANCE SINGLE-POL	USD	\$8,700.00 PTP			117 kg		8517.70.0000	Mexico	EAR99	EAR99	Obsolete	CRB/ECO for Eng. in progress
RDN5785A	3 M (9.8 FT) SUPERFLEX RF LOW LOSS JUMPER CABLE	USD	\$155.00 PTP		Accessory	0.8 kg		8544.20.0000	Mexico	5A991.g	5A991.g	Released	
RLN5468A	EVNSL24-0006.6' CAT5 W/ RJ45 CONNEX	USD	\$4.11 PMP		Accessory	0.12345 kg		8517700000	United States	5A992.a	5A992.a	Obsolete	
RRDN7140B	2-FT (0.6M), MOLDED RADOME, UV INHIBITED	USD	\$390.00 PTP		Antenna	3.6 kg		8517.70.0000	United States	EAR99	EAR99	Released	Per Bruce C region statuses changed back to Released
RRDN7141B	3-FT (0.9M), MOLDED RADOME, UV INHIBITED	USD	\$700.00 PTP		Antenna	4 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RRDN7142B	4-FT (1.2M), MOLDED RADOME, UV INHIBITED	USD	\$920.00 PTP		Accessory	25.1 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RRDN7146B	6-ft (1.8m), Molded Radome, UV Inhibited	USD	\$1,495.00 PTP : Un-Licensed : PTP700		Antenna	64.4 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
RRDN7148B	8-ft (2.4m), Molded Radome, UV Inhibited	USD	\$3,995.00 PTP : Un-Licensed : PTP700		Antenna	195.9 kg		8517.70.0000	United States	EAR99	EAR99	Released	Fully Released
RRDN7180A	4.4-5.0 GHZ, 39.0 dBi, 8-ft (2.4m), Dual-Pol	USD	\$6,795.00 PTP		Antenna	398.2 kg		8517.70.0000	United States	EAR99	EAR99	Released	
RRDN7667A	ADVANTAGE SM SOFTWARE UPGRADE-FIXED LICENSE, 25PK	USD	\$2,125.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Obsolete	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
RVN5172A	EMS License PK-BP100	USD	\$17,500.00 PMP		SW Key			8517700000		EAR99	EAR99	Released	
RVN5173A	Prizm 3.0 Element License Pack - 25 pack	USD	\$4,750.00 PMP		SW Key			8517700000		EAR99	EAR99	Obsolete	
RVN5204B	Wireless Manager 3.0, includes 10 node licenses	USD	\$2,500.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5205B	WM SOFTWARE, 1 NODE	USD	\$100.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5206A	WM SOFTWARE, 5 NODE PACK	USD	\$500.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5207A	WM SOFTWARE, 10 NODE PACK	USD	\$1,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5208A	WM SOFTWARE, 25 NODE PACK	USD	\$2,500.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5209A	WM SOFTWARE, 50 NODE PACK	USD	\$5,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5210A	WM SOFTWARE, 100 NODE PACK	USD	\$10,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5211A	WM SOFTWARE, 250 NODE PACK	USD	\$23,750.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5212A	WM SOFTWARE, 500 NODE PACK	USD	\$45,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5213A	WM SOFTWARE, 1000 NODE PACK	USD	\$85,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5215A	WM PHYSICAL MAP LICENSE	USD	\$1,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5245A	BASE WMBAM SOFTWARE, INCL 10 NODES	USD	\$2,000.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
RVN5245B	Wireless Manager 3.0 with BAM, includes 10 node licenses	USD	\$3,000.00 PMP		SW Key			8517700000	United States	5D991	5D991	Obsolete	
RVN5246A	WMBAM SOFTWARE, 1 NODE	USD	\$225.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5246B	Wireless Manager 3.0 with BAM node license, qty = 1	USD	\$225.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5247A	WMBAM SOFTWARE, 5 NODE PACK	USD	\$1,125.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5249A	WMBAM SOFTWARE, 25 NODE PACK	USD	\$5,625.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5250A	WMBAM SOFTWARE, 50 NODE PACK	USD	\$11,250.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5251A	WMBAM SOFTWARE, 100 NODE PACK	USD	\$22,500.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5252A	WMBAM SOFTWARE, 250 NODE PACK	USD	\$53,437.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5253A	WMBAM SOFTWARE, 500 NODE PACK	USD	\$101,250.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5267A	Wireless Manager 3.0, HA, includes 10 node licenses	USD	\$3,750.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5268A	WM-HA SOFTWARE, 1 NODE	USD	\$150.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5277A	Wireless Manager 3.0 with BAM, HA, includes 10 node licenses	USD	\$4,500.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5278A	Wireless Manager 3.0 with BAM node license, HA, qty = 1	USD	\$338.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5285A	WM UPGRADE 1,10 NODES	USD	\$650.00 PMP		SW Key			8517700000	United States	5D991	5D991	Obsolete	
RVN5293A	WM-HA UPGRADE 1 NODE	USD	\$50.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
RVN5300A	WM UPGRADE, 1 NODE	USD	\$43.55 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
SG00PL1300AA	Prizm 3.0 Element License Pack	USD	\$225.00 PMP		SW Key			8517700000		EAR99	EAR99	Obsolete	
SG00PL1301AA	BAM-only functionality for existing customers looking to expand network	USD	\$125.00 PMP		SW Key			8517700000		EAR99	EAR99	Obsolete	
SG00PL1302AA	EMS-only functionality for existing customers looking to expand network	USD	\$125.00 PMP		SW Key			8517700000		EAR99	EAR99	Obsolete	
SG00PL3009AA	PTP100 10 TO 20MB UPGRADE KEY	USD	\$550.00 PMP : PTP100		SW Key			8517700000		EAR99	EAR99	Obsolete	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3013AA	PTP100 2 MBPS TO 4 MBPS UPGRADE KEY	USD	\$120.00 PMP : PTP100		SW Key			8517700000		5D991	5D991	Pending	Updated Eng release status per M. Mangriotis request.
SG00PL3014AA	PTP100 4 MBPS TO 10 MBPSUPGRADE KEY	USD	\$120.00 PMP : PTP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3015AA	LITE SM 512KB TO 1MB FIXED LIC KEY	USD	\$20.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3016AA	LITE SM 512KB TO 2MB FIXED LIC KEY	USD	\$25.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3017AA	LITE SM 512KB TO 4MB FIXED LIC KEY	USD	\$35.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □
SG00PL3018AA	LITE SM 512KB TO 7MB FIXED LIC KEY	USD	\$50.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Should stay available until further notice.
SG00PL3019AA	900 MHZ AP LMTD TO FULL UPGRADE KEY	USD	\$1,340.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Should stay available until further notice.
SG00PL3020AA	PMP430 4 TO 10 MBPS UPGRADE KEY	USD	\$100.00 PMP : PMP430		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □
SG00PL3021AA	PMP430 4 TO 20 MBPS UPGRADE KEY	USD	\$200.00 PMP : PMP430		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □
SG00PL3022AA	PMP430 4 TO 40 MBPS UPGRADE KEY	USD	\$400.00 PMP : PMP430		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □
SG00PL3023AA	PMP430 10 TO 20 MBPS UPGRADE KEY	USD	\$100.00 PMP : PMP430		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □
SG00PL3024AA	PMP430 10 TO 40 MBPS UPGRADE KEY	USD	\$300.00 PMP : PMP430		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. □

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					SW Key								16-Feb-2016 ☐
SG00PL3025AA	PMP430 20 TO 40 MBPS UPGRADE KEY	USD	\$200.00 PMP : PMP430					8517700000		5D991	5D991	Released	PMP430 Hardware is Obsolete; however, SW to remain available until further notice
SG00PL3026AA	LITE SM 2MB TO 4MB FIXED LIC KEY	USD	\$25.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3027AA	LITE SM 4MB TO 7MB FIXED LIC KEY	USD	\$25.00 PMP		SW Key			8517700000		5D991	5D991	Released	
SG00PL3028AA	LITE SM 2MB TO 7MB FIXED LIC KEY	USD	\$50.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Pending	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3029AA	PTP230 10 TO 20 MBPS UPGRADE KEY (PER LINK)	USD	\$340.00 PMP : PTP230		SW Key			8517700000		5D991	5D991	Released	
SG00PL3030AA	PTP230 20 TO 50 MBPS UPGRADE KEY (PER LINK)	USD	\$340.00 PMP : PTP230		SW Key			8517700000		5D991	5D991	Released	
SG00PL3031AA	PTP230 10 TO 50 MBPS UPGRADE KEY (PER LINK)	USD	\$680.00 PMP : PTP230		SW Key			8517700000		5D991	5D991	Released	
SG00PL3032AA	MICROPOP ADV AP TO FULL UPGRADE KEY	USD	\$1,446.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Released	Per Matt M. Turned PMP/PTP100 SW keys back to available for order.
SG00PL3033AA	PMP400 SM TO PTP200 BH CONVERSION KEY	USD	\$800.00 PMP		SW Key			8517700000		5D991	5D991	Released	
SG00PS3001AA	Prizm 3.0 Redundant Server	USD	\$1,500.00 PMP		SW Key			8517700000		EAR99	EAR99	Obsolete	
													End Of Life, Obsolete item ☐ *DN-1206* ☐
													Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐
					SW Key								End of Product Support: January 29, 2021 ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
SG00TS4001A	1 YR CANOPY SOFTWARE CONTRACT (13AP/BH'S)	USD	\$375.00 Global Services : Warranty					8517700000		EAR99	EAR99	Obsolete	End Of Life, Obsolete item ☐ *DN-1206* ☐
													Announcement of EOL: Sept 21, 2015 ☐ Last Order Date: January 29, 2016 (or sooner, as long as supplies last) ☐
					SW Key								End of Product Support: January 29, 2021 ☐ Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
SG00TS4002A	1 YR CANOPY SOFTWARE CONTRACT (13-249 AP/BH'S)	USD	\$775.00 Global Services : Warranty					8517700000		EAR99	EAR99	Obsolete	
SG00TS4003A	1 YR CANOPY SOFTWARE CONTRACT (250+ AP/BH'S)	USD	\$2,500.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
SG00TS4007A	PMP100 AP EXTD WARR, 1 ADDL YEAR	USD	\$75.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
SG00TS4008A	PMP100 SM EXTD WARR, 1 ADDL YEAR	USD	\$29.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
SG00TS4009A	PMP400 SERIES ACCESS POINT EXTENDED WARRANTY, 1 ADDL YEAR	USD	\$199.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
SG00TS4010A	PMP400 SERIES SUBSCRIBER MODULE EXTENDED WARRANTY, 1 ADDL YEAR	USD	\$49.00 Global Services : Warranty		SW Key			8517700000		EAR99	EAR99	Released	
SG00TS4011A	PTP100 EXTD WARRANTY, 1 ADDL YEAR	USD	\$150.00 Global Services : Warranty		SW Key			8517700000		5D991	5D991	Released	
SG00TS4012A	PTP200/230/450 EXTD WARRANTY, 1 ADDL YEAR	USD	\$239.00 Global Services : Warranty		SW Key			8517700000		5D991	5D991	Released	
SG00TS4013A	CMMMICRO EXTD WARRANTY, 1 ADDL YEAR	USD	\$109.00 Global Services : Warranty		SW Key			8517700000		5D991	5D991	Released	
SG00TS4014A	CMM4 EXTD WARRANTY, 1 ADDL YEAR	USD	\$225.00 Global Services : Warranty		SW Key			8517700000		5D991	5D991	Released	
SG00TS4015A	PMP100 AP EXTD WARR, 2 ADDL YEARS	USD	\$150.00 Global Services : Warranty		SW Key			8517700000		5D991	5D991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					SW Key							Obsolete	End Of Life, Obsolete item <input type="checkbox"/> *DN-1206* <input type="checkbox"/> <input type="checkbox"/> Announcement of EOL: Sept 21, 2015 <input type="checkbox"/> Last Order Date: January 29, 2016 (or sooner, as long as supplies last) <input type="checkbox"/> <input type="checkbox"/> End of Product Support: January 29, 2021 <input type="checkbox"/> <input type="checkbox"/> Orders will be accepted up until the last order date (above) with customer-requested ship date (CRSD) no later than 30 days beyond date order is placed (i.e., no orders will be accepted with CRSD beyond February 28, 2016).
SG00TS4016A	PMP100 SM EXTD WARR, 2 ADDL YEARS	USD	\$58.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	
SG00TS4017A	PMP400 SERIES ACCESS POINT EXTENDED WARRANTY, 2 ADDL YEARS	USD	\$398.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4018A	PMP400 SERIES SUBSCRIBER MODULE EXTENDED WARRANTY, 2 ADDL YEARS	USD	\$98.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4019A	PTP100 EXTD WARRANTY, 2 ADDL YEARS	USD	\$300.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4020A	PTP200/230/450 EXTD WARRANTY, 2 ADDL YEARS	USD	\$478.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4021A	CMMMICRO EXTD WARRANTY, 2 ADDL YEAR	USD	\$218.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4022A	CMM4 EXTD WARRANTY, 2 ADDL YEAR	USD	\$450.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4023A	PMP100 AP EXTD WARR, 4 ADDL YEARS	USD	\$270.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4024A	PMP100 SM EXTD WARR, 4 ADDL YEARS	USD	\$104.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4025A	PMP400 SERIES ACCESS POINT EXTENDED WARRANTY, 4 ADDL YEARS	USD	\$699.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
SG00TS4026A	PMP400 SERIES SUBSCRIBER MODULE EXTENDED WARRANTY, 4 ADDL YEARS	USD	\$179.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
SG00TS4027A	PTP100 EXTD WARRANTY, 4 ADDL YEARS	USD	\$540.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4028A	PTP200/230/450 EXTD WARRANTY, 4 ADDL YEARS	USD	\$858.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4029A	CMMMICRO EXTD WARRANTY, 4 ADDL YEAR	USD	\$396.00	Global Services : Warranty	SW Key			8517700000		5D991	5D991	Released	
SG00TS4030A	CMM4 EXTD WARRANTY, 4 ADDL YEAR	USD	\$821.00	Global Services : Warranty	SW Key			8517700000	United States	5D991	5D991	Released	
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE <input type="checkbox"/> <input type="checkbox"/> 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. <input type="checkbox"/> <input type="checkbox"/>
SG00TS4031A	PMP320 AP EXTD WARR, 1 ADDL YEAR	USD	\$199.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE <input type="checkbox"/> <input type="checkbox"/> 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. <input type="checkbox"/> <input type="checkbox"/>
SG00TS4032A	PMP320 SM EXTD WARR, 1 ADDL YEAR	USD	\$49.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	1-May-14 Put on PM Hold for Q2 due to inventory levels - NE

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
SG00TS4033A	PMP320 AP EXTD WARR, 2 ADDL YEARS	USD	\$398.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
SG00TS4034A	PMP320 SM EXTD WARR, 2 ADDL YEARS	USD	\$98.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
SG00TS4035A	PMP320 AP EXTD WARR, 4 ADDL YEARS	USD	\$699.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	
					SW Key							Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
SG00TS4036A	PMP320 SM EXTD WARR, 4 ADDL YEARS	USD	\$179.00	Global Services : Warranty				8517700000		5D991	5D991	Obsolete	14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE ☐ ☐ 15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. ☐ ☐ 1-May-14 Put on PM Hold for Q2 due to inventory levels - NE
SGHN5169A	MOUNTING KIT BRACKET FOR SURGE SUPPRESSOR	USD	\$69.00	PMP	Accessory	0.42	kg	8302.50.0000	United States	EAR99	EAR99	Released	
SGKN4419A	Argentina 56 VDC power supply line cord	USD	\$5.00	PMP	Accessory	0.2	kg	8544429090	Taiwan	EAR99	EAR99	Obsolete	
SGKN4421A	Power Supply Line Cord - UK, Singapore	USD	\$5.00	PMP	Accessory	0.2	kg	8544429090	Taiwan	EAR99	EAR99	Obsolete	
SGKN4422A	CBL,PWR,KOR PWR CBL,F/G	USD	\$5.00	PMP	Accessory	0.2	kg	8517700000	Taiwan	EAR99	EAR99	Obsolete	
SGKN4423A	CBL,PWR,JPN PWR CBL,F/G	USD	\$5.00	PMP	Accessory	0.2	kg	8517700000	Taiwan	EAR99	EAR99	Obsolete	
SGKN4424A	Power Supply Line Cord - China Mainland	USD	\$5.00	PMP	Accessory	0.2	kg	8544429090	Taiwan	EAR99	EAR99	Obsolete	
SGKN4425A	Power Supply Line Cord - Australia	USD	\$5.00	PMP	Accessory	0.2	kg	8544429090	Taiwan	EAR99	EAR99	Obsolete	
SGKN4426A	Power Supply Line Cord - Europe	USD	\$5.00	PMP	Accessory	0.2	kg	8544429000	Taiwan	EAR99	EAR99	Obsolete	
					Accessory							Obsolete	ECO-006212 ☐ Request to Obsolete per Tyler H.
SGKN4427A	Power Supply Line Cord - USA, Canada, Mexico	USD	\$5.00	PMP	Accessory	0.2	kg	8544.42.9090	Taiwan	EAR99	EAR99	Obsolete	
SGLN6551A	KIT, BRACKET_GPS_ANTENNA MOUNTING	USD	\$49.00	PMP	Accessory	0.404	kg	8302.50.0000	United States	EAR99	EAR99	Released	
					Accessory							Released	USE THIS INSTEAD OF WADN4258A. ALSO REPLACES BH-1209A.
SGLN6552A	BRACKET_MOUNTING POLE, M8	USD	\$49.00	PMP	Accessory	0.65	kg	8302.50.0000	Mexico	EAR99	EAR99	Released	
SGPN4063A	56 VDC power supply	USD	\$35.00	PMP	Accessory	0.12345	kg	8517700000	China	EAR99	EAR99	Obsolete	
SGPN4075	Rack-mount 56 VDC PS for CMM4, 1PK	USD	\$795.00	PMP	Accessory	0.12345	kg	8517700000	Slovak Republic	EAR99	EAR99	Obsolete	Replacement part N000000L054A
SGPN4076	56 VDC power supply for CMM4	USD	\$795.00	PMP	Accessory	1.769	kg	8517700000	Germany	EAR99	EAR99	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUP	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
					Accessory								23-July-2015 ECO-004721 to Obsolete Eng. Status submitted <input type="checkbox"/>
													23-July-2015 Remaining NA stock was used up on SSB01905. Changed NA Status to Obsolete <input type="checkbox"/>
													14-May-14 Have made Unavailable for order. No further customer orders will be accepted. May still need to place internal orders- NE <input type="checkbox"/>
													15-April-15 The 3.5 GHz version of the PMP 320 cancellation was announced in March. See DN-1105. <input type="checkbox"/>
													1-May-14 Put on PM Hold for Q2 due to inventory levels - NE <input type="checkbox"/>
SGPN4078A	PMP320 SM Spare Power Supply	USD	\$45.00 PMP			0.12345 kg		8517700000	China	EAR99	EAR99	Obsolete	
SGVNML1000AA	SW MGMT PRIZM1.0EMS ELE PK SW	USD	\$20.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
SGVNMS1000AA	SW MGMT-PRIZM1.0 EMS SW CD	USD	\$900.00 PMP		SW Key			8517700000		5D991	5D991	Obsolete	
SGWF4000AA	MAIN BOARD ASSEMBLY 900MHZ	USD	\$87.60 PMP		Accessory	0.12345 kg		8517700000	Mexico	5A992.a	5A992.a	Obsolete	
SMMB1A	Universal mounting bracket	USD	\$39.00 PMP		Accessory	0.4 kg		8302.50.0000	United States	EAR99	EAR99	Released	
SMMB2A	UNIVERSAL MOUNTING BRACKET, HEAVY DUTY	USD	\$55.00 PMP		Accessory	1 kg		8302.50.0000	United States	EAR99	EAR99	Released	
SMSW20100-FAA	ADVANTAGE SM SOFTWARE UPGRADE - FIXED LICENSE	USD	\$300.00 PMP : PMP100		SW Key			8517700000		5D991	5D991	Obsolete	Per Matt M. Turned PMP/PTP100 SW keys back to available for order. Distributor Notice <input type="checkbox"/>
					Accessory								DN-1182 <input type="checkbox"/>
WB1685A	PTP 400 Series Mounting Kit (Smooth Enclosure)	USD	\$90.00 PTP			0.9 kg		8517700000	Hungary	EAR99	EAR99	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/>
WB1811B	PTP SER EMC CABLE GLAND (GROUNDING) Qty. 10	USD	\$120.00 PTP		Accessory	0.35 kg		8536.90.8585	Hungary	EAR99	EAR99	Released	Change #ECO-004635
WB1812A	Grounding Lug Kit (Pack of 20)	USD	\$54.00 PTP		Accessory	0.2 kg		8517700000	China	EAR99	EAR99	Released	Made Unavailable for Order per Bruce Collins <input type="checkbox"/>
					SW Key								ECO-004644 submitted to update Arena and Engineering status <input type="checkbox"/>
WB1910A	PTP 400 Series AES Encryption Key - Link	USD	\$2,399.00 PTP : Un-Licensed : PTP400					8517700000		5D002.a	5D002.a	Obsolete	Distributor Notice <input type="checkbox"/>
					SW Key								DN-1182 <input type="checkbox"/>
WB1920A	PTP 400 Extended Warranty, 1 Additional Yr	USD	\$598.00 Global Services : Warranty					8517700000		EAR99	EAR99	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/>
					SW Key								Change #ECO-004635 <input type="checkbox"/>
					SW Key								Distributor Notice <input type="checkbox"/>
					SW Key								DN-1182 <input type="checkbox"/>
WB1930A	PTP 400 Extended Warranty, 2 Additional Yr	USD	\$1,195.00 Global Services : Warranty					8517700000		EAR99	EAR99	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/>
					SW Key								Change #ECO-004635 <input type="checkbox"/>
					SW Key								Distributor Notice <input type="checkbox"/>
					SW Key								DN-1182 <input type="checkbox"/>
WB1950A	PTP 400 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr	USD	\$1,827.00 Global Services : Warranty					8517700000		EAR99	EAR99	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/>
WB2289A	PTP 300/400/500/600 Series Mounting Kit (Ribbed Enclosure)	USD	\$90.00 PTP		Accessory	0.7 kg		8302.50.0000	Mexico	EAR99	EAR99	Released	Change #ECO-004635
WB2312C	PTP 600 Series Multi-Mode Optical Conversion Kit (per end)	USD	\$750.00 PTP		Accessory	0.26 kg		8517700000	China	5A991	5A991	Obsolete	
WB2312H	PTP 600 Series Multi-Mode Optical Conversion Kit (per end)	USD	\$550.00 PTP		Accessory	0.26 kg		8517.62.0050	Mexico	5A991	5A991	Released	
WB2402A	PTP 300/500/600 Series AES Licence Key 128bit - End only	USD	\$1,200.00 PTP : Un-Licensed : PTP600		SW Key			8517700000		5D002.a	5D002.a	Released	
					SW Key								Distributor Notice <input type="checkbox"/>
					SW Key								DN-1182 <input type="checkbox"/>
					SW Key								ENGINEERING CHANGE ORDER <input type="checkbox"/>
WB2404A	PTP 400 Series Lite to Full Upgrade Key - End only	USD	\$2,400.00 PTP : Un-Licensed : PTP500					8517700000		5D991	5D991	Obsolete	Change #ECO-004635

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB2405A	PTP 600 Series Lite to Full Upgrade Key - End only	USD	\$2,195.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Obsolete	
WB2405B	PTP 54/58 600 Series Lite to Full Upgrade Key - End only (5 GHz only)	USD	\$1,600.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		EAR99	EAR99	Released	
WB2477	PTP 400/500/600 Antenna Conversion	USD	\$1,300.00	PTP	SW Key			8517700000		EAR99	EAR99	Released	
WB2511A	PTP 300/500/600 Series AES Licence Key 256bit - Link	USD	\$3,500.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB2519A	PTP 300/500/600 Series AES Licence Key 128bit - Link	USD	\$2,399.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB2530A	PTP 600 Extended Warranty, 1 Additional Yr, per Link	USD	\$998.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2531A	PTP 600 Extended Warranty, 2 Additional Yr, per Link	USD	\$1,995.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2532A	PTP 600 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty, per Link	USD	\$1,499.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2533A	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr, per Link	USD	\$3,047.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2534A	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr, per Link	USD	\$4,995.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	Distributor Notice <input type="checkbox"/> DN-1182 <input type="checkbox"/> <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> Change #ECO-004635
WB2588A	PTP 400 Extended Warranty, 4 Additional Yr	USD	\$2,350.00	Global Services : Warranty				8517700000		EAR99	EAR99	Obsolete	
WB2590A	PTP 600 Extended Warranty, 4 Additional Yr, per Link	USD	\$2,993.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2591A	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr, per Link	USD	\$6,270.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB2607A	PTP 300/500/600 Series AES Licence Key 256bit - End only	USD	\$1,750.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB2623CC	PTP 49400 Full Integrated - Link Complete	USD	\$11,995.00	PTP : Un-Licensed : PTP400	ODU or IRFU	16 kg		8517620050	Germany	5A992	5A992	Obsolete	
WB2643B	PTP 600 Series Single-Mode Optical Conversion Kit (per end)	USD	\$750.00	PTP	Accessory	0.26 kg		8517700000	China	5A991	5A991	Obsolete	
WB2643H	PTP 600 Series Single-Mode Optical Conversion Kit (per end)	USD	\$550.00	PTP	Accessory	0.26 kg		8517.62.0050	Mexico	5A991	5A991	Released	
WB2782CC	PTP 25600 (5 MHz) Integrated - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2782HH	PTP 25600 (5 MHz) Integrated - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2783AA	PTP 25600 (5 MHz) Connectorised - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2783HH	PTP 25600 (5 MHz) Connectorised - Link Complete	USD	\$11,999.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2784AA	PTP 25600 (5 MHz) Integrated - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2784BB	PTP 25600 (5 MHz) Integrated - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2784HH	PTP 25600 (5 MHz) Integrated - End Complete	USD	\$6,599.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2785CC	PTP 25600 (5 MHz) Connectorised - End Complete	USD	\$8,800.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2785HH	PTP 25600 (5 MHz) Connectorised - End Complete	USD	\$6,599.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB2786	PTP 25/59/54OOB/58OOB/600 Software Key 5 --> 10 MHz Link	USD	\$1,500.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB2787	PTP 25/59/54OOB/58OOB/600 Software Key 5 --> 15 MHz Link	USD	\$3,000.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB2789	PTP 25/59/54OOB/58OOB/600 Software Key X --> 30 MHz Link	USD	\$3,750.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB2790	PTP 25/59/54OOB/58OOB/600 Software Key 5 --> 10 MHz End only	USD	\$750.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB2791	PTP 25/59/54OOB/58OOB/600 Software Key 5 --> 15 MHz End only	USD	\$1,500.00	PTP : Un-Licensed : PTP500	SW Key			8517700000		5D991	5D991	Obsolete	
WB2793	PTP 25/59/54OOB/58OOB/600 Software Key X --> 30 MHz End only	USD	\$1,875.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB2857BB	PTP 58500 Full Integrated (ETSI/RoW) - Link Complete	USD	\$10,399.00	PTP : Un-Licensed : PTP500	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2858AA	PTP 58500 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$12,995.00	PTP : Un-Licensed : PTP500	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2858BB	PTP 58500 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$10,399.00	PTP : Un-Licensed : PTP500	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2859BB	PTP 58500 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$7,199.00	PTP : Un-Licensed : PTP500	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2860BB	PTP 58500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$7,199.00	PTP : Un-Licensed : PTP500	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2861BB	PTP 58500 Full Integrated (ETSI/RoW) - End Complete	USD	\$5,699.00	PTP : Un-Licensed : PTP500	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2861BBINTL	PTP 58500 Full Integrated (ETSI/RoW) - End Complete	USD	\$5,699.00	PTP : Un-Licensed : PTP500	ODU or IRFU	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2862AA	PTP 58500 Full Connectorised (ETSI/RoW) - End Complete	USD	\$7,145.00	PTP : Un-Licensed : PTP500	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB2862BB	PTP 58500 Full Connectorised (ETSI/RoW) - End Complete	USD	\$7,145.00	PTP : Un-Licensed : PTP500	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2863AA	PTP 58500 Lite Integrated (ETSI/RoW) - End Complete	USD	\$4,945.00	PTP : Un-Licensed : PTP500	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2863BB	PTP 58500 Lite Integrated (ETSI/RoW) - End Complete	USD	\$3,899.00	PTP : Un-Licensed : PTP500	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2863BBINTL	PTP 58500 Lite Integrated (ETSI/RoW) - End Complete	USD	\$3,899.00	PTP : Un-Licensed : PTP500	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2864BB	PTP 58500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00	PTP : Un-Licensed : PTP500	Backhaul	7.5	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2864BBINTL	PTP 58500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00	PTP : Un-Licensed : PTP500	ODU or IRFU	7.5	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2874BB	PTP 54500 Full Integrated (ETSI/RoW) - Link Complete	USD	\$12,995.00	PTP : Un-Licensed : PTP500	Backhaul	0.12345	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2874CC	PTP 54500 Full Integrated (ETSI/RoW) - Link Complete	USD	\$12,995.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2875CC	PTP 54500 Full Connectorised (ETSI/RoW) - Link Complete	USD	\$10,399.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2876CC	PTP 54500 Lite Integrated (ETSI/RoW) - Link Complete	USD	\$7,199.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2877BB	PTP 54500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$7,199.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2877CC	PTP 54500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$7,199.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2877CCINTL	PTP 54500 Lite Connectorised (ETSI/RoW) - Link Complete	USD	\$8,995.00	PTP : Un-Licensed : PTP500	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2878CC	PTP 54500 Full Integrated (ETSI/RoW) - End Complete	USD	\$7,145.00	PTP : Un-Licensed : PTP500	Backhaul	7.5	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2880CC	PTP 54500 Lite Integrated (ETSI/RoW) - End Complete	USD	\$3,899.00	PTP : Un-Licensed : PTP500	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2881BB	PTP 54500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00	PTP : Un-Licensed : PTP500	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2881CC	PTP 54500 Lite Connectorised (ETSI/RoW) - End Complete	USD	\$4,945.00	PTP : Un-Licensed : PTP500	Backhaul	7.5	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	END OF LIFE: <input type="checkbox"/> Distributor Notice DN-1135
WB2907D	LPU End Kit PTP 600 (2 kits required per Link)	USD	\$300.00	PTP	Accessory	1.5	kg	8517700000	Hungary	EAR99	EAR99	Obsolete	
WB2907H	LPU End Kit PTP 600 (2 kits required per Link)	USD	\$400.00	PTP	Accessory	2.1	kg	8535.40.0000	Mexico	EAR99	EAR99	Released	
WB2978D	LPU End Kit PTP 250/300/500 (2 kits required per Link)	USD	\$150.00	PTP	Accessory	1	kg	8517700000	Hungary	EAR99	EAR99	Obsolete	
WB2978DINTL	LPU End Kit PTP 250/300/500 (2 kits required per Link)	USD	\$150.00	PTP	Accessory	1	kg	8517700000	Hungary	EAR99	EAR99	Obsolete	
WB2978H	LPU End Kit PTP 250/300/500 (2 kits required per Link)	USD	\$150.00	PTP	Accessory	1.2	kg	8535.40.0000	Mexico	EAR99	EAR99	Released	
WB3001BB	Memorylink UltraSync GPS 100M for PTP 600	USD	\$495.00	PTP	Accessory	1.7	kg	8517700000	United States	EAR99	EAR99	Obsolete	Inventory Depleted. <input type="checkbox"/> Obsolete and Unavailable
WB3018A	PTP 400 Series PIDU with AUS Lead	USD	\$300.00	PTP	Accessory	8.6	kg	8504408500	China	5A992.a	5A992.a	Obsolete	Distributor Notice <input type="checkbox"/> DN-1182 <input type="checkbox"/>
WB3018H	PTP 400 Series PIDU with AUS Lead	USD	\$300.00	PTP	Accessory	8.6	kg	8517700000	China	5A992.a	5A992.a	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/> Change #ECO-004635 ECO-004300 to Obsolete Eng Status. <input type="checkbox"/>
WB3019H	PTP 400 Series PIDU with EU Lead	USD	\$300.00	PTP	Accessory	8.6	kg	8517700000	China	5A992.a	5A992.a	Obsolete	Made Unavailable for Order as this product is EOL Distributor Notice <input type="checkbox"/> DN-1182 <input type="checkbox"/>
WB3020H	PTP 400 Series PIDU with UK Lead	USD	\$300.00	PTP	Accessory	8.6	kg	8517700000	China	5A992.a	5A992.a	Obsolete	ENGINEERING CHANGE ORDER <input type="checkbox"/> Change #ECO-004635
WB3021A	PTP 400 Series PIDU with US Lead	USD	\$300.00	PTP	Accessory	8.6	kg	8517700000	China	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
					Accessory								Distributor Notice <input type="checkbox"/> DN-1182 <input type="checkbox"/> <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> Change #ECO-004635
WB3021H	PTP 400 Series PIDU with US Lead	USD	\$300.00	PTP		8.6 kg		8517700000	China	5A992.a	5A992.a	Obsolete	
WB3022A	PTP 300/500/600 Series PIDU with AUS Lead	USD	\$300.00	PTP	Accessory	9 kg		8504408500	China	5A992.a	5A992.a	Obsolete	
WB3022B	PTP 300/500/600 Series PIDU with AUS Lead	USD	\$300.00	PTP	Accessory	9 kg		8517700000	China	EAR99	EAR99	Obsolete	
WB3022H	PTP 300/500/600 Series PIDU with AUS Lead	USD	\$330.00	PTP	Accessory	9 kg		8504.40.8500	China	EAR99	EAR99	Released	
WB3023A	PTP 300/500/600 Series PIDU with EU Lead	USD	\$330.00	PTP	Accessory	9 kg		8504408500	China	5A992.a	5A992.a	Obsolete	
WB3023B	PTP 300/500/600 Series PIDU with EU Lead	USD	\$330.00	PTP	Accessory	9 kg		8504408500	China	EAR99	EAR99	Obsolete	
WB3023H	PTP 300/500/600 Series PIDU with EU Lead	USD	\$330.00	PTP	Accessory	1 kg		8504.40.8500	China	EAR99	EAR99	Obsolete	ECO-006212 <input type="checkbox"/>
WB3024H	PTP 300/500/600 Series PIDU with UK Lead	USD	\$330.00	PTP	Accessory	1.18 kg		8504.40.8500	China	EAR99	EAR99	Released	Request to Obsolete per Tyler H.
WB3025H	PTP 300/500/600 Series PIDU with US Lead	USD	\$330.00	PTP	Accessory	1.15 kg		8504.40.8500	China	EAR99	EAR99	Released	
WB3040BB	PTP 45600 Full Integrated - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Per Bruce Collins - Item obsolete and unorderable
WB3040HH	PTP 45600 Full Integrated - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16.4 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	
WB3041BB	PTP 45600 Full Connectorised - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3041HH	PTP 45600 Full Connectorised - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	
WB3042BB	PTP 45600 Lite Integrated - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3042HH	PTP 45600 Lite Integrated - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16.4 kg		8517.62.0050	Hungary	5A992.a	5A992.a	Obsolete	
WB3043BB	PTP 45600 Lite Connectorised - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3043HH	PTP 45600 Lite Connectorised - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25 kg		8517.62.0050	Hungary	5A992.a	5A992.a	Obsolete	
WB3044BB	PTP 45600 Full Integrated - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3044HH	PTP 45600 Full Integrated - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8.5 kg		8517.62.0050	Hungary	5A992.a	5A992.a	Obsolete	
WB3045BB	PTP 45600 Full Connectorised - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3045HH	PTP 45600 Full Connectorised - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8.5 kg		8517.62.0050	Hungary	5A992.a	5A992.a	Obsolete	
WB3046BB	PTP 45600 Lite Integrated - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3046HH	PTP 45600 Lite Integrated - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	
WB3047BB	PTP 45600 Lite Connectorised - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3047HH	PTP 45600 Lite Connectorised - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Obsolete	
WB3097HH	PTP 59600 (5 MHz) Integrated - Link Complete	USD	\$10,499.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	15-Oct-14 <input type="checkbox"/> Open order SNL04345 - once fulfilled can change EMEA status to Obsolete- NE
WB3098HH	PTP 59600 (5 MHz) Connectorised - Link Complete	USD	\$10,499.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3102BB	PTP 59600 (5 MHz) Integrated - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3102HH	PTP 59600 (5 MHz) Integrated - End Complete	USD	\$5,799.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3103BB	PTP 59600 (5 MHz) Connectorised - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	7.5 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3103HH	PTP 59600 (5 MHz) Connectorised - End Complete	USD	\$5,799.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3106A	PTP Software Maintenance (1-2 Links)	USD	\$350.00	PTP	SW Key			8517700000		EAR99	EAR99	Released	
WB3107A	PTP Software Maintenance (3-5 links)	USD	\$600.00	PTP	SW Key			8517700000		EAR99	EAR99	Released	
WB3108A	PTP Software Maintenance (6+ links)	USD	\$1,500.00	PTP	SW Key			8517700000		EAR99	EAR99	Released	
WB3127	PTP 300/500 Series 52 Mbps to 105 Mbps Upgrade Key - Link	USD	\$3,200.00	PTP : Un-Licensed : PTP500	SW Key			8517700000	United States	5D991	5D991	Released	
WB3128	PTP 300/500 Series 52 Mbps to 105 Mbps Upgrade Key - End only	USD	\$1,760.00	PTP : Un-Licensed : PTP500	SW Key			8517700000		5D991	5D991	Released	
WB3133	PTP 500 Extended Warranty, 1 Additional Yr	USD	\$798.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
WB3134	PTP 500 Extended Warranty, 2 Additional Yr	USD	\$1,595.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3135	PTP 500 Extended Warranty, 4 Additional Yr	USD	\$2,671.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3136	PTP 500 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty	USD	\$1,199.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3137	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr	USD	\$2,437.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3138	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr	USD	\$3,995.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3139	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr	USD	\$5,385.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
WB3146BB	PTP 58300 Integrated (ETSI/RoW) - Link Complete	USD	\$5,995.00	PTP : Un-Licensed : PTP300	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB3146BBINTL	PTP 58300 Integrated (ETSI/RoW) - Link Complete	USD	\$5,995.00	PTP : Un-Licensed : PTP300	ODU or IRFU	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3148BB	PTP 58300 Connectorised (ETSI/RoW) - Link Complete	USD	\$5,995.00	PTP : Un-Licensed : PTP300	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3149BB	PTP 58300 Connectorised (ETSI/RoW) - End Complete	USD	\$3,295.00	PTP : Un-Licensed : PTP300	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3150CCINTL	PTP 54300 Integrated (ETSI/RoW) - Link Complete	USD	\$5,995.00	PTP : Un-Licensed : PTP300	ODU or IRFU	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3151CC	PTP 54300 Integrated (ETSI/RoW) - End Complete	USD	\$3,295.00	PTP : Un-Licensed : PTP300	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3152CC	PTP 54300 Connectorised (ETSI/RoW) - Link Complete	USD	\$5,995.00	PTP : Un-Licensed : PTP300	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3153CC	PTP 54300 Connectorised (ETSI/RoW) - End Complete	USD	\$3,295.00	PTP : Un-Licensed : PTP300	Backhaul	7.5 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3154	PTP 300 Extended Warranty, 1 Additional Yr	USD	\$598.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3155	PTP 300 Extended Warranty, 2 Additional Yr	USD	\$1,195.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3156	PTP 300 Extended Warranty, 4 Additional Yr	USD	\$2,350.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3157	PTP 300 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty	USD	\$899.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3158	PTP 300 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr	USD	\$1,827.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3159	PTP 300 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr	USD	\$2,995.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3160	PTP 300 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr	USD	\$4,500.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3175A	1000 ft Reel Outdoor Copper Clad CAT5E (Recommended for PTP)	USD	\$1,150.00	PTP	Accessory	30 kg		8544.49.1000	United States	EAR99	EAR99	Released	
WB3176A	328 ft (100 m) Reel Outdoor Copper Clad CAT5E (Recommended for PTP)	USD	\$395.00	PTP	Accessory	10.89 kg		8544.49.1000	United States	EAR99	EAR99	Released	
WB3177A	Tyco/AMP, Mod Plug RJ45 Unscreened, 25 pk	USD	\$10.33	PTP	Accessory	0.3 kg		8517700000	United States	EAR99	EAR99	Obsolete	ECO-006212 ☐ Request to Obsolete per Tyler H.
WB3177B	Tyco/AMP, Mod Plug RJ45, 100 pk	USD	\$90.00	PTP	Accessory	0.12345 kg		8536.69.8000	United States	EAR99	EAR99	Released	Replaces WB3177A
WB3211A	Tyco/AMP Crimp Tool	USD	\$295.00	PTP	Accessory	1 kg		8203.20.6060	United States	EAR99	EAR99	Released	
WB3225AA	PTP 49600 (5 MHz) Integrated - Link Complete	USD	\$13,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3225BB	PTP 49600 (5 MHz) Integrated - Link Complete	USD	\$13,995.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Completely obsolete per Bruce Collins ☐ We have zero stock at the moment
WB3225HH	PTP 49600 (5 MHz) Integrated - Link Complete	USD	\$13,995.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Turned back to Obsolete. ☐
WB3226BB	PTP 49600 (5 MHz) Connectorised - Link Complete	USD	\$13,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	☐ Winncom awaiting PO; may turn back upon request
WB3226HH	PTP 49600 (5 MHz) Connectorised - Link Complete	USD	\$13,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3229AA	PTP 49600 (5 MHz) Integrated - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3229BB	PTP 49600 (5 MHz) Integrated - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3229HH	PTP 49600 (5 MHz) Integrated - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3230AA	PTP 49600 (5 MHz) Connectorised - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3230BB	PTP 49600 (5 MHz) Connectorised - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3230HH	PTP 49600 (5 MHz) Connectorised - End Complete	USD	\$7,695.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3234	PTP 500 Extended Warranty, 1 Additional Yr (END ONLY)	USD	\$399.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3235	PTP 500 Extended Warranty, 2 Additional Yr (END ONLY)	USD	\$797.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3236	PTP 500 Extended Warranty, 4 Additional Yr (END ONLY)	USD	\$1,335.75	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3237	PTP 500 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty (END ONLY)	USD	\$599.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3238	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr (END ONLY)	USD	\$1,218.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3239	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr (END ONLY)	USD	\$1,997.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3240	PTP 500 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr (END ONLY)	USD	\$2,692.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3241	PTP 600 Extended Warranty, 1 Additional Yr (END ONLY)	USD	\$499.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
WB3242	PTP 600 Extended Warranty, 2 Additional Yr (END ONLY)	USD	\$997.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3243	PTP 600 Extended Warranty, 4 Additional Yr (END ONLY)	USD	\$1,496.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3244	PTP 600 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty (END ONLY)	USD	\$749.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3245	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr (END ONLY)	USD	\$1,523.50	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3246	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr (END ONLY)	USD	\$2,498.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB3247	PTP 600 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr (END ONLY)	USD	\$3,135.00	Global Services : Warranty	SW Key			8517700000	United States	EAR99	EAR99	Released	
WB3262	PTP 49600 Software Key 5 --> 10 MHz Link	USD	\$3,000.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB3263	PTP 49600 Software Key X --> 20 MHz Link	USD	\$6,000.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB3267	PTP 49600 Software Key 5 --> 10 MHz End only	USD	\$1,650.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB3268	PTP 49600 Software Key X --> 20 MHz End only	USD	\$3,300.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB3270AA	5.4 GHZ OFDM BACKHAUL LINK	USD	\$3,595.00	PMP : PTP200	Backhaul	3.12	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas.
WB3271AA	5.4 GHZ OFDM CONN BACKHAUL LINK	USD	\$3,595.00	PMP : PTP200	Backhaul	3.12	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas.
WB3272AA	5.4 GHZ OFDM BH LINK W/AES	USD	\$4,095.00	PMP : PTP200	Backhaul	3.12	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Requested Arena status to be updated to Obsolete
WB3273AA	5.4 GHZ OFDM CONN BH LINK W/AES	USD	\$4,095.00	PMP : PTP200	Backhaul	3.12	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	Per Matt M. the 5.4 product was discontinued in 2011 (pre-Motorola split) Obsolete EVERYTHING related to 5440 tanapas. Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
WB3274AA	4.9 GHZ OFDM BACKHAUL, LINK	USD	\$3,595.00	PMP : PTP200	Kit or Mixed Components	4	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
WB3275AA	4.9 GHZ OFDM BACKHAUL WITH AES, LINK	USD	\$4,095.00	PMP : PTP200	Kit or Mixed Components	4	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
WB3276AA	4.9 GHZ OFDM CONNECTORIZED BACKHAUL LINK	USD	\$3,595.00	PMP : PTP200	Kit or Mixed Components	4	kg	8517620050	Mexico	5A992.a	5A992.a	Obsolete	DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015 Change #ECO-004882 submitted to update ENG. Status <input type="checkbox"/>
WB3277AA	4.9 GHZ OFDM CONNECTORIZED BACKHAUL LINK W/AES	USD	\$4,095.00	PMP : PTP200		4	kg	8517620050	Mexico	5A002.a.1	5A002.a.1	Obsolete	DN-1163 sent: April 27, 2015 <input type="checkbox"/> Last Order Date: July 30, 2015
WB3378AA	PTP 48600 Full Integrated - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3378HH	PTP 48600 Full Integrated - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16.3	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	Stock Depleted in both DC's, Obsolete item and made Unavailable for Order
WB3379AA	PTP 48600 Full Connectorised - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3379HH	PTP 48600 Full Connectorised - Link Complete	USD	\$24,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3380AA	PTP 48600 Lite Integrated - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3380HH	PTP 48600 Lite Integrated - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3381AA	PTP 48600 Lite Connectorised - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	16	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3381HH	PTP 48600 Lite Connectorised - Link Complete	USD	\$15,995.00	PTP : Un-Licensed : PTP600	Backhaul	15.25	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3382AA	PTP 48600 Full Integrated - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3382HH	PTP 48600 Full Integrated - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3383AA	PTP 48600 Full Connectorised - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3383HH	PTP 48600 Full Connectorised - End Complete	USD	\$13,750.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3384AA	PTP 48600 Lite Integrated - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3384HH	PTP 48600 Lite Integrated - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3385AA	PTP 48600 Lite Connectorised - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3385HH	PTP 48600 Lite Connectorised - End Complete	USD	\$8,795.00	PTP : Un-Licensed : PTP600	Backhaul	8	kg	8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3409	PTP600/800 Series FIPS Upgrade - Link	USD	\$1,500.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA /D/C)	Notes (remove)
WB3410	PTP600/800 Series FIPS Upgrade - End Only	USD	\$750.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D991	5D991	Released	
WB3411	PTP600/800 Series FIPS Including 128bit AES - Link	USD	\$3,899.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3412	PTP600/800 Series FIPS Including 128bit AES - End Only	USD	\$1,950.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3413	PTP600/800 Series FIPS Including 256bit AES - Link	USD	\$5,000.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3414	PTP600/800 Series FIPS Including 256bit AES - End Only	USD	\$2,500.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3476A	PTP 300/500 Series E1/T1 Splitter (per end)	USD	\$50.00	PTP	Accessory	0.2 kg		8517700000	United Kingdom	5A991	5A991	Obsolete	
WB3476H	PTP 300/500 Series E1/T1 Splitter (per end)	USD	\$50.00	PTP	Accessory	0.2 kg		8517700000	China	5A991	5A991	Obsolete	Pending Obsolete until stock depleted
WB3478	OBSOLETE - PTP 300 Series LOS Mode Upgrade - Link	USD	\$1,500.00	PTP : Un-Licensed : PTP500	SW Key			8517700000		5D991	5D991	Obsolete	
WB3479	OBSOLETE - PTP 300 Series LOS Mode Upgrade - End only	USD	\$825.00	PTP : Un-Licensed : PTP300	SW Key			8517700000		5D991	5D991	Obsolete	
WB3480AA	PTP800 Modem 1000/100BaseT with Capacity CAP 10 Mbps	USD	\$2,190.00	PTP : Licensed : PTP800	Modem	0.12345 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3480HH	PTP800 Modem 1000/100BaseT with Capacity CAP 10 Mbps	USD	\$2,190.00	PTP : Licensed : PTP800	Modem	1.55 kg		8517.62.0050	Mexico	5A992.a	5A992.a	Released	
WB3486A	PTP800 CMU/PTP-SYNC 19inch Rack Mount Installation Kit	USD	\$75.00	PTP : Licensed : PTP800	Accessory	0.64 kg		8517700000	China	EAR99	EAR99	Obsolete	
WB3486H	CMU/PTP-SYNC/NIDU 19inch Rack Mount Installation Kit	USD	\$75.00	PTP : Licensed : PTP800	Accessory	0.64 kg		7326.90.8588	China	EAR99	EAR99	Released	
WB3538	PTP800/PTP810 Modem Capacity CAP - 20 Mbps (per Unit)	USD	\$125.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3539	PTP800/PTP810 Modem Capacity CAP - 30 Mbps (per Unit)	USD	\$250.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3540	PTP800/PTP810 Modem Capacity CAP - 40 Mbps (per Unit)	USD	\$375.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3541	PTP800/PTP810 Modem Capacity CAP - 50 Mbps (per Unit)	USD	\$500.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3542	PTP800/PTP810 Modem Capacity CAP - 100 Mbps (per Unit)	USD	\$1,000.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3543	PTP800/PTP810 Modem Capacity CAP - 150 Mbps (per Unit)	USD	\$1,250.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3544	PTP800/PTP810 Modem Capacity CAP - 200 Mbps (per Unit)	USD	\$1,500.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3545	PTP800/PTP810 Modem Capacity CAP - 300 Mbps (per Unit)	USD	\$1,750.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3546	PTP800/PTP810 Modem Capacity CAP - 400 Mbps (per Unit)	USD	\$2,000.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3547	PTP800/PTP810 Modem Capacity CAP upgrade from 20 -> 30 Mbps key (per Unit)	USD	\$250.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3548	PTP800/PTP810 Modem Capacity CAP upgrade from 30 -> 40 Mbps key (per Unit)	USD	\$250.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3549	PTP800/PTP810 Modem Capacity CAP upgrade from 40 -> 50 Mbps key (per Unit)	USD	\$500.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3550	PTP800/PTP810 Modem Capacity CAP upgrade from 50 -> 100 Mbps key (per Unit)	USD	\$750.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3551	PTP800/PTP810 Modem Capacity CAP upgrade from 100 -> 150 Mbps key (per Unit)	USD	\$750.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3552	PTP800/PTP810 Modem Capacity CAP upgrade from 150 -> 200 Mbps key (per Unit)	USD	\$750.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3553	PTP800/PTP810 Modem Capacity CAP upgrade from 200 -> 300 Mbps key (per Unit)	USD	\$1,000.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3554	PTP800/PTP810 Modem Capacity CAP upgrade from 300 -> 400 Mbps Key (per Unit)	USD	\$1,000.00	PTP : Licensed : PTP800	SW Key			8517700000		5D991	5D991	Released	
WB3555	PTP 800 Series AES Licence Key 128Bit - End Only	USD	\$1,200.00	PTP : Licensed : PTP800	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3556	PTP 800 Series AES Licence Key 256Bit - End Only	USD	\$1,750.00	PTP : Licensed : PTP800	SW Key			8517700000		5D002.a	5D002.a	Released	
WB3557	PTP800 Extended Warranty, 1 Additional Yr	USD	\$750.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3558	PTP800 Extended Warranty, 2 Additional Yr	USD	\$1,500.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3559	PTP800 Extended Warranty, 4 Additional Yr	USD	\$2,050.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3560	PTP800 Upgrade to All Risks Advanced Replacement Program during 1st Year warranty	USD	\$1,050.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Obsolete	
WB3561	PTP800 Extended Warranty & All Risks Advanced Replacement Program, 1 Additional Yr	USD	\$2,250.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Released	
WB3562	PTP800 Extended Warranty & All Risks Advanced Replacement Program, 2 Additional Yr	USD	\$3,500.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Obsolete	
WB3563	PTP800 Extended Warranty & All Risks Advanced Replacement Program, 4 Additional Yr	USD	\$4,500.00	Global Services : Warranty	SW Key			8517700000		EAR99	EAR99	Obsolete	
WB3584	PTP 300/500 Series 25 Mbps to 52 Mbps Upgrade Key - Link	USD	\$2,400.00	PTP : Un-Licensed : PTP500	SW Key			8517700000		5D991	5D991	Released	
WB3585	PTP 300/500 Series 25 Mbps to 105 Mbps Upgrade Key - Link	USD	\$5,600.00	PTP : Un-Licensed : PTP500	SW Key			8517700000		5D991	5D991	Released	
WB3593AA	PTP 600 Series Hardware Security Upgrade Kit- End	USD		PTP : Un-Licensed : PTP600	Accessory	0.12345 kg		8517700000	Hungary	5A991	5A991	Obsolete	
WB3593HH	PTP 600 Series Hardware Security Upgrade Kit- End	USD	\$250.00	PTP	Accessory	0.12345 kg		8517700000	Mexico	5A991	5A991	Obsolete	ECO-006212 ☐
WB3607	PTP 600 Series Group Access Upgrade Key - Link	USD	\$1,500.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		EAR99	EAR99	Released	Request to Obsolete per Tyler H.
WB3608	PTP 600 Series Group Access Upgrade Key - End	USD	\$750.00	PTP : Un-Licensed : PTP600	SW Key			8517700000		EAR99	EAR99	Released	
WB3611A	Dual Dual Pole 4.5 GHz + 4x Group Access keys	USD	\$8,500.00	PTP	SW Key	3.2 kg		8517700000		EAR99	EAR99	Obsolete	Change #ECO-005397 0 ☐ CRB-731

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUF	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB3611H	Dual Dual Pole 4.5 GHz + 4x Group Access keys	USD	\$8,500.00 PTP		SW Key			8517700000	United States	EAR99	EAR99	Released	Hold to trigger special processing
WB3616H	Coaxial Cable Installation Assembly Kit (W/O LPU End Kit)	USD	\$250.00 PTP : Licensed : PTP800		Accessory	2.6 kg		8544.42.9090	China	EAR99	EAR99	Released	
WB3618A	Mains Lead- US 3pin to C5 (PTP800 AC-DC PSU)	USD	\$10.00 PTP : Licensed : PTP800		Accessory	0.18 kg		8544.42.9090	China	EAR99	EAR99	Released	
WB3619A	Mains Lead- UK 3pin to C5 (PTP800 AC-DC PSU)	USD	\$10.00 PTP : Licensed : PTP800		Accessory	0.2 kg		8544.42.9090	China	EAR99	EAR99	Released	
WB3620A	Mains Lead- EU with dual earth to C5 (PTP800 AC-DC PSU)	USD	\$10.00 PTP : Licensed : PTP800		Accessory	0.2 kg		8544.42.9090	China	EAR99	EAR99	Released	
WB3621A	Mains Lead- AUS 3pin to C5 (PTP800 AC-DC PSU)	USD	\$10.00 PTP : Licensed : PTP800		Accessory	0.2 kg		8544.42.9090	China	EAR99	EAR99	Released	
WB3622A	AC-DC Power Supply Converter (no lead cable included)	USD	\$200.00 PTP : Licensed : PTP800		Accessory	0.45 kg		8504.40.8500	China	EAR99	EAR99	Released	
WB3657A	LPU END KIT PTP800 (1 kit required per Coaxial cable)	USD	\$525.00 PTP : Licensed : PTP800		Accessory	1.15 kg		8535.40.0000	United States	EAR99	EAR99	Released	
WB3659	FCC M/W Freq Coordination Service	USD	\$1,000.00 PTP : Licensed : PTP800		Service			8517.61.0090	United States	EAR99	EAR99	Released	
WB3659X	FCC M/W Freq Coordination Service	USD	\$1,000.00 PTP : Licensed : PTP800		Service			8517700000	United States	EAR99	EAR99	Obsolete	Replacing with No-Inventory Item for Resale Part Same Number.
WB3665BB	PTP-SYNC	USD	\$350.00 PTP		Accessory	0.12345 kg		8517700000	Hungary	5A991	5A991	Obsolete	
WB3665HH	PTP-SYNC	USD	\$350.00 PTP		Accessory	0.7 kg		8517.62.0050	Hungary	5A991	5A991	Released	
					Backhaul								ECO-004779 to Obsolete Eng. Status <input type="checkbox"/>
													End Of Life as of August 1st, 2015 <input type="checkbox"/>
WB3716AA	PTP 250 5GHz Integrated (ETSI/RoW) - Link Complete	USD	\$4,995.00 PTP : Un-Licensed : PTP250			16 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170
					Backhaul								ECO-004779 to Obsolete Eng. Status <input type="checkbox"/>
													End Of Life as of August 1st, 2015 <input type="checkbox"/>
WB3717AA	PTP 250 5GHz Integrated (ETSI/RoW) - End Complete	USD	\$2,497.00 PTP : Un-Licensed : PTP250			7.5 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170
					Backhaul								ECO-004779 to Obsolete Eng. Status <input type="checkbox"/>
													End Of Life as of August 1st, 2015 <input type="checkbox"/>
WB3718AA	PTP 250 5GHz Connectorised (ETSI/RoW) - Link Complete	USD	\$4,995.00 PTP : Un-Licensed : PTP250			16 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170
					Backhaul								ECO-004779 to Obsolete Eng. Status <input type="checkbox"/>
													End Of Life as of August 1st, 2015 <input type="checkbox"/>
WB3719AA	PTP 250 5GHz Connectorised (ETSI/RoW) - End Complete	USD	\$2,497.00 PTP : Un-Licensed : PTP250			7 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170
					Backhaul								ECO-004779 to Obsolete Eng. Status <input type="checkbox"/>
													End Of Life as of August 1st, 2015 <input type="checkbox"/>
WB3720AA	PTP 250 5GHz Integrated (FCC/IC) - Link Complete	USD	\$4,995.00 PTP : Un-Licensed : PTP250			16 kg		8517620050	China	5A992.a	5A992.a	Obsolete	DN-1170
WB3727A	PTP 250 POE Mains Power Supply	USD	\$100.00 PTP		Accessory	0.378 kg		8517700000	China	EAR99	EAR99	Obsolete	
WB3728A	3-pin IEC Mains Power Lead (USA)	USD	\$9.00 PTP		Accessory	0.12345 kg		8544.42.9090	China	EAR99	EAR99	Obsolete	
WB3731A	3-pin IEC Mains Power Lead (AUS)	USD	\$9.00 PTP		Accessory	0.12345 kg		8544.42.9090	China	EAR99	EAR99	Obsolete	
WB3764HH	PTP 58600 (5MHz) OOBM Integrated - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3765HH	PTP 58600 (5MHz) OOBM Integrated - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3766HH	PTP 58600 (5MHz) OOBM Connectorised - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3767HH	PTP 58600 (5MHz) OOBM Connectorised - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3768HH	PTP 54600 (5MHz) OOBM Integrated - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3769HH	PTP 54600 (5MHz) OOBM Integrated - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3770HH	PTP 54600 (5MHz) OOBM Connectorised - Link Complete	USD	\$11,999.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3771HH	PTP 54600 (5MHz) OOBM Connectorised - End Complete	USD	\$6,599.00 PTP : Un-Licensed : PTP600		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3784AA	PTP 58600 Full ATEX/HazLoc Integrated (FCC/IC) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
WB3784HH	PTP 58600 Full ATEX/HazLoc Integrated (FCC/IC) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replaced by WB3784HH
WB3785HH	PTP 58600 Full ATEX/HazLoc Integrated (FCC/IC) - End Complete	USD	\$10,299.00 PTP : Un-Licensed : PTP600		Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
					Backhaul								26-Feb-2015 Changed NA status back to Pend Obs. for internal order SUS15071 to ship out of ML. Need to change back once order ships <input type="checkbox"/>
													Turned completely Obsolete and Unavailable for all Sales Groups - NE
WB3786AA	PTP 58600 Full ATEX/HazLoc Connectorised (FCC/IC) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600			16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	
WB3786HH	PTP 58600 Full ATEX/HazLoc Connectorised (FCC/IC) - Link Complete	USD	\$18,699.00 PTP : Un-Licensed : PTP600		Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	

Cambium Part Number MSI P/N Add Prefix "DS"	Description	Currency	MSI DNUP	Class	Item Category	Weight	Weight Units	HTS code	COO	ECCN (US)	ECCN (EU)	Part Status (NA D/C)	Notes (remove)
WB3787AA	PTP 58600 Full ATEX/HazLoc Connectorised (FCC/IC) - End Complete	USD	\$10,299.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
WB3787HH	PTP 58600 Full ATEX/HazLoc Connectorised (FCC/IC) - End Complete	USD	\$10,299.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replaced by WB3787HH
WB3788AA	PTP 54600 Full ATEX/HazLoc Integrated (FCC/IC) - Link Complete	USD	\$18,699.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
WB3788HH	PTP 54600 Full ATEX/HazLoc Integrated (FCC/IC) - Link Complete	USD	\$18,699.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replaced by WB3788HH
WB3789AA	PTP 54600 Full ATEX/HazLoc Integrated (FCC/IC) - End Complete	USD	\$10,299.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
WB3789HH	PTP 54600 Full ATEX/HazLoc Integrated (FCC/IC) - End Complete	USD	\$10,299.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replaced by WB3789HH
WB3790AA	PTP 54600 Full ATEX/HazLoc Connectorised (FCC/IC) - Link Complete	USD	\$18,699.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A991	5A991	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
WB3790HH	PTP 54600 Full ATEX/HazLoc Connectorised (FCC/IC) - Link Complete	USD	\$18,699.00	PTP : Un-Licensed : PTP600	Backhaul	16 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	Replaced by WB3790HH
WB3791AA	PTP 54600 Full ATEX/HazLoc Connectorised (FCC/IC) - End Complete	USD	\$10,299.00	PTP : Un-Licensed : PTP600	Backhaul	8 kg		8517620050	Hungary	5A992.a	5A992.a	Obsolete	stop ship, regulatory labeling <input type="checkbox"/>
													Replaced by WB3791HH



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 3
Change Effective Date : 7/30/2018

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2019

Commodity Specialist: Tom Schwartz

Telephone: 717-346-3828

Email: thschwartz@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Daniel Raup, with any questions regarding products and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 4
Change Effective Date : 7/31/2019

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2019

Commodity Specialist: Tom Schwartz

Telephone: 717-346-3828

Email: thschwartz@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Daniel Raup, with any questions regarding products and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 5
Change Effective Date : 8/5/2020

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2020

Commodity Specialist: John Weikle **Telephone:** 717-787-4103 **Email:** jweikle@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Daniel Raup, with any questions regarding products and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 6
Change Effective Date : 2/5/2021

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2021

Commodity Specialist: John Weikle **Telephone:** 717-787-4103 **Email:** jweikle@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Daniel Raup, with any questions regarding products and pricing.

Daniel Raup 717-418-1346 dan.raup@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.

JUMP TO ...

MODEL

Model

TRANSMISSION LINE 1-1/4" Copper AVA Cable

The content on this page has been moved to the following PCAT page:

RF 1-1/4 Cables and Accessories

If you have questions, contact the Product Planner, [Tim Martin](#).

JUMP TO ...

[MODEL](#)

Model

1-1/4" LDF Foam Kits

Supplier: Andrew Corp.

The content on this page has been moved to the PCAT page listed below.

RF 1-1/4 CABLES AND ACCESSORIES

Contact the product planner, [Tim Martin](#), with any questions.

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

1 1/4" Extra Flexible Coaxial Cable Commscope

This new Heliax cable has many of the same key electrical characteristics as LDF cables, plus increased flexibility and lower cable weight. As a result of the increased flexibility you may be able to eliminate some jumpers.

Ordering Information

General Information

For pricing/ordering issues contact the product planner, [Tim Martin](#).

For technical assistance contact [Gary Owens](#).

For further product information see the [Commscope website](#) or contact [Debra Kollman](#) at 779-435-6192.

Configuration

Ordering Requirement

MODEL**CONNECTORS****ACCESSORIES**

Description	Full Description	Nomenclature	APC	Price
42396A-1 1-1/4" CABLE HANGER KIT STAINLESS	Supplier # 42396A-1	TDN7519	351	\$20.00
L6SGRIP 1-1/4" SUPPORT HOIST GRIP	SUPPLIER #: L6SGRIP	DSL6SGRIP	351	\$38.00
221213 CABLE WRAP WEATHERPROOFING	Supplier # 221213	TDN9289	351	\$19.00

243684 CLICKON ANGLE ADAPTOR 3/8", KIT OF 10	-	DS243684	351	\$51.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS243684	243684 CLICKON ANGLE ADAPTOR 3/8", KIT OF 10	351	15
QUOTEDS	ANC	DSL6SGRIP	L6SGRIP 1-1/4" SUPPORT HOIST GRIP	351	15
QUOTEDS	ANC	TDN7519	42396A-1 1-1/4" CABLE HANGER KIT STAINLESS	351	15
QUOTEDS	ANC	TDN9289	221213 CABLE WRAP WEATHERPROOFING	351	14

[Back](#)

1-1/4 RF CABLES AND ACCESSORIES

Product Catalog

Jump to ...

- [1-1/4 RF Cables and Accessories](#)

[Back](#)

1-1/4 RF CABLES AND ACCESSORIES

1-1/4 RF Cables and Accessories

CONTACT INFORMATION

For technical assistance contact [Gary Owens](#) at 435-654-0262.

For ordering and product information contact the Product Planner, [Tim Martin](#), at 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact [Aaron Wilson](#) at 501-605-2341.

Configuration

EUPEN CABLE PARTS

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC650AHLFR	DSEC650AHLFR	351	\$10.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS EPN		DSEC650AHLFR	COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	351	5

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JUMP TO ...

MODEL

Model

TRANSMISSION LINE 1/2" Superflexible Kits

The content on this page has been moved to the following page in PCAT:

RF 1/2 Cables and Accessories

If you have questions, contact the Product Planer, [Tim Martin](#).

JUMP TO ...

MODEL

Model

TRANSMISSION LINE 1/2" CABLES, CONNECTORS, TOOLS, MISC.

The content on this page has been moved to the following page in PCAT:

RF 1/2 Cables and Accessories

If you ave questions, contact the Product Planner, [Tim Martin](#).

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

Model

ALL CONTENT ON THIS PAGE HAS BEEN MOVED TO THE FOLLOWING PAGE:

RF 1/4" CABLES AND ACCESSORIES

DATE: 11-21-2018

**FOR FURTHER INFORMATION CONTACT THE PRODUCT PLANNER - [TIM MARTIN](#) -
AT 847-979-0413.**

Ordering Information

JUMP TO ...

MODEL

Model

This page is no longer active. For information on 1-5/8 cable products go to the following page in PCAT:

RF 1-5/8 CABLES AND ACCESSORIES.

Contact the product planner, [Tim Martin](#), with any questions.

JUMP TO ...

MODEL

Model

TRANSMISSION LINE
1-5/8" Copper AVA Cable

The content on this page has been moved to the following page:

RF 1-5/8 Cables and Accessories

If you have questions, contact the Product Planner, [Tim Maritn](#).

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[SHIP CARD](#)

Model

1 5/8" Extra Flexible Coaxial Cable
Supplier: Commscope Corp.

This new Heliax cable has many of the same key electrical characteristics as LDF cables, plus increased flexibility and lower cable weight. As a result of the increased flexibility you may be able to eliminate some jumpers

Ordering Information

General Information

For pricing/ordering issues contact the product planner, [Tim Martin](#).

For technical assistance contact [Gary Owens](#).

For further product information see the [Commscope website](#) or contact [Debra Kollman](#) at 779-435-6192.

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

TRANSMISSION LINE
3/8" LDF Foam Kits

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on Commscope products, please see the [Commscope website](#) or contact [Debra Kollman](#) at 779-435-6192.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	Supplier # LDF2-50	L1704	351	\$2.85
CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT - FIRE RETARDANT VERSION	SUPPLIER # LDF2RK-50	L3602	351	\$5.25

Accessories

Cable Connectors

Description	Full Description	Nomenclature	APC	Price
3/8" 7-16 DIN MALE POSITIVE LOCK STRAIGHT CONNECTOR	-	DSL2TDMPL	351	\$25.25

3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	SUPPLIER # L2TNM-PL	DSL2TNMPL	351	\$21.75
L2TNF-PL 3/8" TYPE N FEMALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	SUPPLIER # L2TNF-PL	DSL2TNFPL	351	\$23.00
L2TTMPL TNC MALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	-	DSL2TTMPL	351	\$23.00
L2TDF-PL 7-16 DIN FEMALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	-	DSL2TDFPL	351	\$28.00

Grounding Kits

Description	Full Description	Nomenclature	APC	Price
**USE DSSG1212B2U FOR 1/2IN ** GK-SUNV SMALL UNIVERSAL GROUNDING KIT	SUPPLIER #: GK-SUNV	DSGKSUNV	351	\$12.50
223158-2 1/4" OR 3/8" CABLE GROUND CLAMP KIT	Supplier # 223158-2.	TDN9668	351	\$25.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DSGKSUNV	**USE DSSG1212B2U FOR 1/2IN ** GK-SUNV SMALL UNIVERSAL GROUNDING KIT	351	5
QUOTEDS	ANC	DSL2TDFPL	L2TDF-PL 7-16 DIN FEMALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	351	17
QUOTEDS	ANC	DSL2TDMPL	3/8" 7-16 DIN MALE POSITIVE LOCK	351	21

			STRAIGHT CONNECTOR		
QUOTEDS	ANC	DSL2TNFPL	L2TNF-PL 3/8" TYPE N FEMALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	351	30
QUOTEDS	ANC	DSL2TNMPL	3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	351	5
QUOTEDS	ANC	DSL2TTMPL	L2TTMPL TNC MALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	351	17
QUOTEDS	ANC	L1704	LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	351	40
QUOTEDS	ANC	L3602	CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT - FIRE RETARDANT VERSION	351	40
QUOTEDS	ANC	TDN9668	223158-2 1/4" OR 3/8" CABLE GROUND CLAMP KIT	351	15

JUMP TO ...

MODEL

Model

TRANSMISSION LINE 5/8" Cables, Connectors, Tools, Misc.

The content on this page has been moved to the following PCAT page:

RF 5/8 Cables and Accessories

If you have questions contact the Product Planner, [Tim Martin](#).

JUMP TO ...

MODEL

Model

7/8" LDF Foam Kits

Supplier: Andrew Corp.

The content on this page has been moved to the following PCAT page.

[RF 7/8 Cables and Accessories](#)

If you have questions contact the Product Planner, [Tim Martin](#).

JUMP TO ...

MODEL

Model

TRANSMISSION LINE 7/8" Copper AVA Cable

The content on this page has been moved to the following PCAT page:

[RF 7/8 Cables and Accessories](#)

If you have questions, contact the product planner, [Tim Martin](#).

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

7/8" Extra Flexible Coaxial Cable

Supplier: Commscope

This new Heliax cable has many of the same key electrical characteristics as LDF cables, plus increased flexibility and lower cable weight. As a result of the increased flexibility you may be able to eliminate some jumpers

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#)

For technical support contact [Gary Owens](#).

For further product information on Commscope products go to the [Commscope website](#) or contact [Debra Kollman](#) at 779-435-6192.

Configuration

Models

Accessories

Connector Weatherproofing Kit

Description	Full Description	Nomenclature	APC	Price
221213 CABLE WRAP WEATHERPROOFING	Supplier # 221213	TDN9289	351	\$19.00

Grounding Kits

Description	Full Description	Nomenclature	APC	Price
TK-TW TORQUE WRENCH KIT FOR 7-16 DIN & TYPE N COUPLING NUTS	Supplier # TK-TW	DDN9743	351	\$243.00

Hangers

Description	Full Description	Nomenclature	APC	Price
42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	Supplier # 42396A-5	MDN6817	187	\$18.50

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
L5SGRIP 7/8" SUPPORT HOIST GRIP	-	DSL5SGRIP	351	\$32.50

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DDN9743	TK-TW TORQUE WRENCH KIT FOR 7-16 DIN & TYPE N COUPLING NUTS	351	5
QUOTEDS	ANC	DSL5SGRIP	L5SGRIP 7/8" SUPPORT HOIST GRIP	351	14
QUOTEDS	ANC	MDN6817	42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	187	14
QUOTEDS	ANC	TDN9289	221213 CABLE WRAP WEATHERPROOFING	351	14

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JUMP TO ...

[MODEL](#)

[SHIP CARD](#)

Model

700 MHz Antennas

This page contains parts information for MSI preferred vendors including Alive Telecom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

ORDERING INFORMATION

For technical assistance, contact Gary Owens at garyowens@motorolasolutions.com.

For product/ordering assistance, contact the Product Planner Tim Martin at tim.martin@motorolasolutions.com.

For questions concerning Amphenol Procom parts visit the [Amphenol website](#) or contact Kim Bramsgart at kb@amphenolprocom.com or (815-218-8000).

For questions concerning Alive Telecom products, visit the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com or (708-603-6836).

For questions concerning RFI products, visit the [RFI website](#) or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

For questions concerning DBSPECTRA products, visit the [DBSPECTRA website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893)

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

ALIVE TELECOM ANTENNA PARTS GUIDE - This document is an Alive antenna parts decoder.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

AMPHENOL ANTENNA PRODUCT PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

CONFIGURATION

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	Alive Part#: ATC-GC7V4O-D7 Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V4OD7	351	\$2,013.00
OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	Alive Part#: ATC-GC7V2O-D7 Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V2OD7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	Alive Part#: ATC-GD7VC-NF Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD7VC.pdf	DSATCGD7VCNF	351	\$403.00

PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	Alive Part#: ATC-WPI78 Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WPI78.pdf	DSATCWPI78	351	\$368.00
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AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	AMPHENOL PART#: 4240.03-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2025-4240-03-780-Txx?generate=1	DS424003780T3	351	\$740.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 6	AMPHENOL PART#: 4240.03-780-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2025-4240-03-780-Txx?generate=1	DS424003780T6	351	\$740.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ	AMPHENOL PART#: 4240.09-780-T0 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T0	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 3	AMPHENOL PART#: 4240.09-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T3	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 6	AMPHENOL PART#: 4240.09-780-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T6	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3	AMPHENOL PART#: 4240.95-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx?generate=1	DS424095780T3	351	\$1,775.00
COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 5	AMPHENOL PART#: 4240.95-780-T5 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx?generate=1	DS424095780T5	351	\$1,775.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	AMPHENOL PART#: 4250.09-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-Tx?generate=1	DS425009780T3	351	\$1,893.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
10DB 700/OMNI MAGNUM ANTENNA	DBSPECTRA# DS7M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M10P36UxD.pdf	DSDS7M10P36UD	351	\$7,252.00
	DBSPECTRA# DS7M10P36U-D SPEC SHEET			

10DB 700/OMNI MAGNUM ANTENNA	LINK: www.dbspectra.com/specifications/DS7M10P36UxD.pdf	DSDS7M10P36UD	351	\$7,252.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C08PPVU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVUxD_DS7C08PPYUxD.pdf	DSDS7C08PPVUD	351	\$1,815.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C08PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C08PPVUxD_DS7C08PPYUxD.pdf	DSDS7C08PPYUD	351	\$2,029.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DSDS7C10PPVUD	351	\$3,022.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C12PPAU-D SPEC SHEET LINK:----- Microsoft Office ----- Opening http://www.dbspectra.com/specifications/DS7C12PPAUxD.pdf Some files can contain viruses or otherwise be harmful to your computer. It is important to be certain that this file is from a trustworthy source. Would you like to open this file? ----- OK Cancel ----- -----	DSDS7C12PPAUD	351	\$2,608.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C11PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DSDS7C11PPYUD	351	\$3,022.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C12PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxD_DS7C13PPYUxD.pdf	DSDS7C12PPVUD	351	\$6,797.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C13PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxD_DS7C13PPYUxD.pdf	DSDS7C13PPYUD	351	\$6,797.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA# DS7C15PPAU-D SPEC SHEET LINK: TBD	DSDS7C15PPAUD	351	\$4,313.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA# DS7C17PPAU-D SPEC SHEET LINK: TBD	DSDS7C17PPAUD	351	\$9,639.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA# DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTUD	351	\$3,278.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	DBSPECTRA# DS7C14PPTU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTU2D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	DBSPECTRA# DS7C14PPTU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTU4D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	DBSPECTRA# DS7C14PPTU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTU6D	351	\$3,540.00

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764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	DBSPECTRA# DS7C14PPTU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	DBSPECTRA PART#: DS7M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12P36U-D.pdf	DSDS7M12P36UD	351	\$8,625.00
746-869 MHZ, 12 DBD, DIRECTIONAL PANEL ANTENNA, DIN	DBSPECTRA# DS7A12P90U-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/800.pdf	DSDS7A12P90UD	351	\$2,959.00
746-896MHZ BROADBAND DIRECTIONAL ANTENNA	DBSPECTRA# DS7G08Y60U-N SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7G08Y60U-N.pdf	DSDS7G08Y60UN	351	\$518.00
DS7C09P36D-D, 764-869MHZ DUAL 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36DxD.pdf	DSDS7C09P36DD	351	\$5,377.00
DS7C09P36U-D, 764-869MHZ SINGLE 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36DxD.pdf	DSDS7C09P36UD	351	\$4,013.00
764-869MHZ, 9DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA W/ 7/16 DIN	DBSPECTRA PART#: DS7C09P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36DxD.pdf	DSDS7C09P36U2D	351	\$4,301.00
764-869MHZ, 9DB GAIN OMNI ANTENNA	DBSPECTRA PART#: DS7C09P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36DxD.pdf	DSDS7C09P36U4D	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG DT	DBSPECTRA PART#: DS7C09P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36DxD.pdf	DSDS7C09P36U6D	351	\$4,301.00
764-869MHZ SINGLE 10DB GAIN OMNI WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36UD	351	\$4,244.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36U2D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36U4D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36U6D	351	\$4,531.00
764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	DBSPECTRA PART#: DS7C10P36U8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36U8D	351	\$4,531.00

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764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	DBSPECTRA PART#: DS7C10P36UXD SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P36UXD	351	\$4,531.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P3IU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P3IU2D	351	\$4,704.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P3IU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P3IU4D	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	DBSPECTRA PART#: DS7C10P3IU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DSDS7C10P3IU6D	351	\$4,704.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxD.pdf	DSDS7C12P36UD	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxD.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 4-DEG DT	DBSPECTRA PART#: DS7C12P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxD.pdf	DSDS7C12P36U4D	351	\$5,175.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M11PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M11PDAUxD.pdf	DSDS7M11PDAUD	351	\$7,993.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M13PDBU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M13PDBUxD.pdf	DSDS7M13PDBUD	351	\$7,993.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDBU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDBUxD.pdf	DSDS7M14PDBUD	351	\$10,149.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, D-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDDUxD.pdf	DSDS7M14PDDUD	351	\$8,251.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M13PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M13PDAUxD.pdf	DSDS7M13PDAUD	351	\$10,149.00
764-905 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, BI-DIRECTIONAL	DBSPECTRA PART#: DS7M14PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PH2UxD.pdf	DSDS7M14PH2UD	351	\$10,339.00
	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK:			

ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	www.dbspectra.com/specifications/DS7C03P36D-D.pdf	DS7C03P36DD	351	\$3,163.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36Ux D.pdf	DS7C03P36UD	457	\$1,944.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Tx D.pdf	DS7C06P36TD	457	\$5,261.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux D.pdf	DS7C06P36UD	351	\$3,048.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux D.pdf	DS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux D.pdf	DS7C06P36U6D	351	\$3,335.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	DBSPECTRA PART#: DS7M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12PH2Ux D.pdf	DS7M12PH2UD	351	\$8,274.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPVU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPVU6D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPYU2D \ SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPYU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPYU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPYU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPYU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C08PPYU6D	351	\$2,029.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08P PVUxD_DS7C08PPYUxD.pdf	DS7C10PPVU2D	351	\$3,326.00

764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C10PPVU4D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C10PPVU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C10PPVU6D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C11PPYU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C11PPYU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C11PPYU4D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C11PPYU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C11PPYU6D	351	\$3,326.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS7C10P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36UxD.pdf	DS7C10P36U3D	351	\$4,531.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAUxD.pdf	DS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C15PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxD.pdf	DS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C15PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxD.pdf	DS7C15PPAU4D	351	\$4,744.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PART#: DS7C11PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPTUxD.pdf	DS7C11PPTUD	351	\$3,134.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00

PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, CORPORATE COLLINEAR, 3 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART# - CC807-03 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80703	351	\$2,562.00
OMNI, CORPORATE COLLINEAR, 6 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART # - CC807-06 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706	351	\$3,051.00
OMNI, CORP COLLINEAR, 6DDBD, 746-870MHZ,3 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T3	351	\$3,162.00
OMNI, CORP COLLINEAR, 6DDBD, 746-870MHZ,5 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T5	351	\$3,162.00
OMNI, CORPORATE COLLINEAR, 8 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART # - CC807-08 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708	351	\$3,987.00
OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 1DEG DT, PIM, 25KW PIP RATED	RFI PART# - CC807-08-T1 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T1	351	\$4,140.00
OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART # - CC807-08-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T2	351	\$4,140.00
OMNI CORPORATE COLLINEAR 8DBD 746-870MHZ 3 DEG DT PIM & 25KW PIP RATED	RFI PART# - CC807-08-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T3	351	\$4,140.00
OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART # - CC807-08-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T4	351	\$4,140.00
OMNI, CORP COLLINEAR, 8 DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI PART# - CC807-08-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T5	351	\$4,140.00

OMNI, CORPORATE COLLINEAR, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART # - CC807-11 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711	351	\$6,201.00
OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 1DT, PIM, 25KW PIP RATED	RFI PART # - CC807-11-T1 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T1	351	\$6,632.00
OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-11-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T2	351	\$6,633.00
OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 3DEG DT, PIM, 25KW PIP RATED	RFI PART # - CC807-11-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T3	351	\$6,633.00
OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-11-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T4	351	\$6,633.00
OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 5DT, PIM & 25KW PIP RATED	RFI PART# - CC807-11-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T5	351	\$6,632.00
OMNI, CORPORATE COLLINEAR, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART# - CC807-12 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712	351	\$6,572.00
OMNI, CORP COLLINEAR, 11.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-12-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712T2	351	\$6,891.00
OMNI, CORP COLLINEAR, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-12-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712T4	351	\$6,891.00
OMNI, MEANDER COLLINEAR, 9 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL811-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811806	351	\$1,045.00
OMNI, MEANDER COLLINEAR, 9 DBD, 796-824 MHZ, PIM RATED, 7/16 DIN	RFI PART # - COL811-824 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811824	351	\$1,045.00
OMNI, MEANDER COLLINEAR, 0DBD, 746-806MHZ, PIM RATED, 7/16 DIN	RFI PART# - COL81-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK_ https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81806	351	\$795.00
	RFI PART# - COL84-806 FOR CLAMPS ORDER			

OMNI, MEANDER COLLINEAR, 5DBD, 746-806MHZ, PIM RATED, 7/16 DIN	DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84806	351	\$845.00
OMNI, MEANDER COLLINEAR, 7 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL85-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL85806	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART#: YW09-7489 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00
YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART#: YW15-6989 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00

PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12 SPEC SHEET LINK:	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-12 SPEC SHEET LINK:	DSUC12	351	\$137.00

Data Not Available

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	APP	DS424003780T3	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	351	30
QUOTEDS	APP	DS424003780T6	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 6	351	30
QUOTEDS	APP	DS424006780T0	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	351	30
QUOTEDS	APP	DS424006780T3	COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3 DEG DT	351	30
QUOTEDS	APP	DS424006780T6	COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 6 DEG DT	351	30
QUOTEDS	APP	DS424009780T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ	351	30
QUOTEDS	APP	DS424009780T3	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 3	351	30
QUOTEDS	APP	DS424009780T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 6	351	30
QUOTEDS	APP	DS424095780T0	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	351	30
QUOTEDS	APP	DS424095780T2	COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ 2DG DT	351	30
QUOTEDS	APP	DS424095780T3	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3	351	30
QUOTEDS	APP	DS424095780T4	COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 4DG DT	351	30
QUOTEDS	APP	DS424095780T5	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 5	351	30
QUOTEDS	APP	DS425009780T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T2	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30

QUOTEDS	APP	DS425009780T3	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	351	30
QUOTEDS	APP	DS425009780T4	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T5	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS428011780T0	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T1	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T2	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T4	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	ALO	DSATCGC7V2OD7	OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	351	15
QUOTEDS	ALO	DSATCGC7V4OD7	COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD7VCNF	DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	351	30
QUOTEDS	ALO	DSATCWPI78	PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	351	15
QUOTEDS	RFA	DSBPA749612012	PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSBPA749612015	PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA749618011	PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA749618014	PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966013	PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966015	PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80703	OMNI, CORPORATE COLLINEAR, 3 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80706	OMNI, CORPORATE COLLINEAR, 6 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80706T3	OMNI, CORP COLLINEAR, 6DDBD, 746-870MHZ,3 DEG DT PIM & 25KW PIP RATED	351	50
QUOTEDS	RFA	DSCC80706T5	OMNI, CORP COLLINEAR, 6DDBD, 746-870MHZ,5 DEG	351	50

			DT PIM & 25KW PIP RATED		
QUOTEDS	RFA	DSCC80708	OMNI, CORPORATE COLLINEAR, 8 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80708T1	OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 1DEG DT, PIM, 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80708T2	OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80708T3	OMNI CORPORATE COLLINEAR 8DBD 746-870MHZ 3 DEG DT PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80708T4	OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80708T5	OMNI, CORP COLLINEAR, 8 DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80711	OMNI, CORPORATE COLLINEAR, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80711T1	OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 1DT, PIM, 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80711T2	OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	351	60
QUOTEDS	RFA	DSCC80711T3	OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 3DEG DT, PIM, 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80711T4	OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	351	60
QUOTEDS	RFA	DSCC80711T5	OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 5DT, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSCC80712	OMNI, CORPORATE COLLINEAR, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSCC80712T2	OMNI, CORP COLLINEAR, 11.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	351	30
QUOTEDS	RFA	DSCC80712T4	OMNI, CORP COLLINEAR, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	351	30
QUOTEDS	RFA	DSCOL811806	OMNI, MEANDER COLLINEAR, 9 DBD, 748-806 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL811824	OMNI, MEANDER COLLINEAR, 9 DBD, 796-824 MHZ, PIM RATED, 7/16 DIN	351	60
QUOTEDS	RFA	DSCOL81806	OMNI, MEANDER COLLINEAR, 0DBD, 746-806MHZ, PIM RATED, 7/16 DIN	351	40
QUOTEDS	RFA	DSCOL84806	OMNI, MEANDER COLLINEAR, 5DBD, 746-806MHZ, PIM RATED, 7/16 DIN	351	50
QUOTEDS	RFA	DSCOL85806	OMNI, MEANDER COLLINEAR, 7 DBD, 748-806 MHZ, PIM RATED	351	60
QUOTEDS	DBP	DSDS7A12P90UD	746-869 MHZ, 12 DBD, DIRECTIONAL PANEL ANTENNA, DIN	351	25

QUOTEDS	DBP	DSDS7C03P36DD	ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	351	20
QUOTEDS	DBP	DSDS7C03P36TD	764-869 MHZ, TRIPLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	351	25
QUOTEDS	DBP	DSDS7C03P36UD	764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	457	40
QUOTEDS	DBP	DSDS7C06P36DD	DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	351	25
QUOTEDS	DBP	DSDS7C06P36TD	764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	457	25
QUOTEDS	DBP	DSDS7C06P36U4D	764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	351	25
QUOTEDS	DBP	DSDS7C06P36U6D	764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	351	25
QUOTEDS	DBP	DSDS7C06P36UD	DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	351	25
QUOTEDS	DBP	DSDS7C08PPVU2D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPVU4D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPVU6D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPVUD	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C08PPYU2D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPYU4D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPYU6D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPYUD	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C09P36DD	DS7C09P36D-D, 764-869MHZ DUAL 9DB GAIN OMNI WITH DIN	351	20
QUOTEDS	DBP	DSDS7C09P36U2D	764-869MHZ, 9DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA W/ 7/16 DIN	351	25
QUOTEDS	DBJ	DSDS7C09P36U4D	764-869MHZ, 9DB GAIN OMNI ANTENNA	351	25
QUOTEDS	DBJ	DSDS7C09P36U6D	764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG DT	351	25
QUOTEDS	DBP	DSDS7C09P36UD	DS7C09P36U-D, 764-869MHZ SINGLE 9DB GAIN OMNI WITH DIN	351	25
QUOTEDS	DBP	DSDS7C10P36U2D	764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	351	25
QUOTEDS	DBP	DSDS7C10P36U3D	764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-P	351	25

QUOTEDS	DBP	DSDS7C10P36U4D	764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 4 DEG D	351	25
QUOTEDS	DBP	DSDS7C10P36U6D	764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	351	25
QUOTEDS	DBP	DSDS7C10P36U8D	764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	351	25
QUOTEDS	DBP	DSDS7C10P36UD	764-869MHZ SINGLE 10DB GAIN OMNI WITH DIN CONNECTOR,	351	25
QUOTEDS	DBP	DSDS7C10P36UXD	764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	351	25
QUOTEDS	DBP	DSDS7C10P3IU2D	764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	351	25
QUOTEDS	DBP	DSDS7C10P3IU4D	764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	351	25
QUOTEDS	DBP	DSDS7C10P3IU6D	764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	351	25
QUOTEDS	DBP	DSDS7C10PPVU2D	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C10PPVU4D	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C10PPVU6D	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	351	25
QUOTEDS	DBP	DSDS7C10PPVUD	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C11PPTUD	764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	351	25
QUOTEDS	DBP	DSDS7C11PPYU2D	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C11PPYU4D	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C11PPYU6D	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	351	25
QUOTEDS	DBP	DSDS7C11PPYUD	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C12P36U2D	764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C12P36U4D	764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C12P36UD	764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	351	25
QUOTEDS	DBP	DSDS7C12PPAU4D	764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C12PPAUD	764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN LOW-PIM/PIP, DIN	351	25

QUOTEDS	DBP	DSDS7C12PPVUD	764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C13PPYUD	764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C14PPTU2D	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	351	25
QUOTEDS	DBP	DSDS7C14PPTU4D	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	351	25
QUOTEDS	DBP	DSDS7C14PPTU6D	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	351	25
QUOTEDS	DBP	DSDS7C14PPTU8D	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	351	25
QUOTEDS	DBP	DSDS7C14PPTUD	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	351	25
QUOTEDS	DBP	DSDS7C15PPAU2D	764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C15PPAU4D	764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C15PPAUD	764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C17PPAUD	764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7G08Y60UN	746-896MHZ BROADBAND DIRECTIONAL ANTENNA	351	25
QUOTEDS	DBP	DSDS7M10P36UD	10DB 700/OMNI MAGNUM ANTENNA	351	25
QUOTEDS	DBP	DSDS7M11PDAUD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN A-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBP	DSDS7M12P36UD	764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	351	25
QUOTEDS	DBP	DSDS7M12PH2UD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	351	25
QUOTEDS	DBP	DSDS7M13PDAUD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN A-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBP	DSDS7M13PDBUD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN B-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBP	DSDS7M14PDBUD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN B-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBP	DSDS7M14PDDUD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, D-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBP	DSDS7M14PH2UD	764-905 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, BI-DIRECTIONAL	351	25
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20
QUOTEDS	RFA	DSUC1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	351	20

QUOTEDS	RFA	DSUC114	ANTENNA CLAMP 60 TO 115MM	351	20
QUOTEDS	RFA	DSUC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	351	20
QUOTEDS	RFA	DSUC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	351	20
QUOTEDS	RFA	DSUC12	ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	351	5
QUOTEDS	RFA	DSUC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	351	20
QUOTEDS	RFA	DSUCR1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUCR2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	351	20
QUOTEDS	RFA	DSYB80399	YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	351	30
QUOTEDS	RFA	DSYW097489	YAGI, 11 DBD, 746-896 MHZ N-FEMALE	351	20
QUOTEDS	RFA	DSYW156989	YAGI, 13DBD, 698-890MHZ, N FEMALE	351	20

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

700 MHz Transmitter Combiners

This page contains parts information for MSI preferred vendors including TXRX, Filtronic, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on TXRX products, please see the [TXRX portal](#) or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For more information on Filtronic Wireless products, please see the [Filtronic Wireless web-site](#) (PW is msi2020) or contact [Walter Magiera](#) at walter.magiera@filtronic.com (407-399-3630)..

Filtronic Technical Sales Support is provided by [Ben Snow](#), he can be contacted at ben.snow@filtronic.com or (954-507-2345).

For more information on dbSpectra products, please see the [DBSPECTRA portal](#) or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (972) 841-4893).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

TXRX WHITE PAPERS ON COMBINER DESIGN

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Art-of-Combiner-Designs.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Impact-of-Antenna-Isolation-on-Transmit-Combiner.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Primer-on-Directional-Couplers.pdf

Configuration

FILTRONIC PART LIST

Description	Full Description	Nomenclature	APC	Price
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V4	DSPCD012V4	457	\$7,705.00
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V6	DSPCD012V6	457	\$9,363.00
700 MHZ 6-CHANNEL COMBINER KIT, STD. ISOLATION, QN CONNECTORS	FILTRONIC PART#: PCD012-V6QN SPEC SHEET LINK: TBD	DSPCD012V6QN	457	\$9,363.00
8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V8	DSPCD012V8	457	\$16,746.00
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V10	DSPCD012V10	457	\$18,782.00
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V12	DSPCD012V12	457	\$18,174.00
1-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCD028-V1k	DSPCD028V1K	457	\$6,364.00
2-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCD028-V2	DSPCD028V2	457	\$5,770.00
2-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCD028-V2K	DSPCD028V2K	457	\$7,383.00
3-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCD028-V3 SPEC SHEET LINK: TBD	DSPCD028V3	457	\$7,654.00
3-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#:PCD028-V3K SPEC SHEET LINK: TBD	DSPCD028V3K	457	\$8,405.00
TX POST FILTER/PMU KIT, 762-776 MHZ	FILTRONIC WIRELESS # SPC003-V2	DSSPC003V2	457	\$1,394.00
700MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V4	DSPCD031V4	457	\$9,324.00
700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V6	DSPCD031V6	457	\$10,909.00
700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING W/QN CONNECTORS	FILTRONIC PART#: PCD031-V6QN SPEC SHEET LINK: TBD	DSPCD031V6QN	457	\$10,909.00
700MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V8	DSPCD031V8	457	\$17,827.00

700MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V10 SPEC SHEET LINK: TBD	DSPCD031V10	457	\$19,642.00
700MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V12	DSPCD031V12	457	\$21,459.00
PXC008-V2 700 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC008-V2 SPEC SHEET LINK: TBD	DSPXC008V2	457	\$1,235.00
700 MHZ PHASING HARNESS	FILTRONIC PART#: MFG001-V1 SPEC SHEET LINK: TBD	DSMFG001V1	351	\$748.00
3-PORT CIRCULATOR, 700 MHZ	FILTRONIC PART#: 58009295001 SPEC SHEET LINK: TBD	DSCIR000003	457	\$150.00
700 MHZ CIRCULATOR FOR DROP-SHIP (FILTRONIC P/N CIR-000005)	FILTRONIC PART#: 58009298001	DSCIR000005	457	\$150.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
HIGH POWER 700MHZ FILTER	DBSPECTRA PART#: DS7TXFILTER SPEC SHEET LINK: TBD	DSDS7TXFILTER	457	\$3,448.00
EXPANSION KIT,CERAMIC COMBINER	DBSPECTRA PART#: DSCC75-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7501WB	457	\$2,582.00
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC75-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7501WOB	457	\$2,292.00
DSCC75-02D, 2 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7502D	457	\$4,890.00
DSCC75-03D, 3 CH CERAMIC TRANSMIT COMBINER, 7/16DIN CON, 773-776MHZ	DBSPECTRA PART#: DSCC75-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7503D	457	\$7,078.00
DSCC75-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7504D	457	\$9,377.00
5 CHANNEL TRANSMIT CERAMIC COMBINER, 773 - 776MHZ WITH 7/16 DIN CONNEC	DBSPECTRA PART#: DSCC75-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7505D	457	\$11,566.00

6 CHANNEL TRANSMIT CERAMIC COMBINER, 763 - 776MHZ WITH 7/16 DIN CONNEC	DBSPECTRA PART#: DSCC75-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7506D	457	\$13,754.00
CERAMIC COMBINER, 700 MHZ,7 CH	DBSPECTRA PART#: DSCC75-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7507D	457	\$16,053.00
CERAMIC COMBINER, 700 MHZ,8 CH	DBSPECTRA PART#: DSCC75-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7508D	457	\$18,241.00
CERAMIC COMBINER, 700 MHZ,9 CH	DBSPECTRA PART#: DSCC75-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7509D	457	\$20,430.00
CERAMIC COMBINER, 700 MHZ,10 CH	DBSPECTRA PART#: DSCC75-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7510D	457	\$22,730.00
CERAMIC COMBINER, 700 MHZ,11 CH	DBSPECTRA PART#: DSCC75-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7511D	457	\$27,399.00
CERAMIC COMBINER, 700 MHZ,12 CH	DBSPECTRA PART#: DSCC75-12D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7512D	457	\$30,015.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
AIRLINE JNCTN COMBINER 700 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-83B-99104-20 SPEC SHEET LINK: TBD	DS4483B9910420	457	\$5,749.00
AIRLINE JNCTN COMBINER 700 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-83B-99104-30 SPEC SHEET LINK: TBD	DS4483B9910430	457	\$7,420.00
AIRLINE JNCTN COMBINER 700 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-83B-99104-40 SPEC SHEET LINK: TBD	DS4483B9910440	457	\$9,627.00
AIRLINE JNCTN COMBINER 700 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-83B-99104-50 SPEC SHEET LINK: TBD	DS4483B9910450	457	\$11,527.00
AIRLINE JNCTN COMBINER 700 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-83B-99104-60 SPEC SHEET LINK: TBD	DS4483B9910460	457	\$13,865.00
AIRLINE JNCTN COMBINER 700/800 MHZ 4 CH 19"	TXRX PART#: 44-83E-99104-04 SPEC SHEET LINK: TBD	DS4483E9910404	457	\$9,436.00

COMBINER, 764-806 MHZ, T-PASS, TX, 1 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-01 SPEC SHEET LINK: TBD	DS7383B112D01	457	\$3,036.00
COMBINER, 764-806 MHZ, T-PASS, TX, 2 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-02 SPEC SHEET LINK: TBD	DS7383B112D02	457	\$5,382.00
COMBINER, 764-806 MHZ, T-PASS, TX, 3 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-03 SPEC SHEET LINK: TBD	DS7383B112D03	457	\$7,590.00
COMBINER, 764-806 MHZ, T-PASS, TX, 4 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-04 SPEC SHEET LINK: TBD	DS7383B112D04	457	\$9,936.00
COMBINER, 764-806 MHZ, T-PASS, TX, 5 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-05 SPEC SHEET LINK: TBD	DS7383B112D05	457	\$12,282.00
COMBINER, 764-806 MHZ, T-PASS, TX, 6 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-06 SPEC SHEET LINK: TBD	DS7383B112D06	457	\$14,628.00
COMBINER, 764-806 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-07 SPEC SHEET LINK: TBD	DS7383B112D07	457	\$16,974.00
COMBINER, 764-806 MHZ, T-PASS, TX, 8 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-08 SPEC SHEET LINK: TBD	DS7383B112D08	457	\$19,230.00
COMBINER, 764-806 MHZ, T-PASS, TX, 9 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-09 SPEC SHEET LINK: TBD	DS7383B112D09	457	\$21,666.00
COMBINER, 764-806 MHZ, T-PASS, TX, 10 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-10 SPEC SHEET LINK: TBD	DS7383B112D10	457	\$24,012.00
COMBINER, 764-806 MHZ, T-PASS, TX, 11 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-11 SPEC SHEET LINK: TBD	DS7383B112D11	457	\$26,358.00
COMBINER, 764-806 MHZ, T-PASS, TX, 12 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-12 SPEC SHEET LINK: TBD	DS7383B112D12	457	\$28,704.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858301	457	\$461.00
HYBRID DIR CPLR 746-960 MHZ -3 DB 500W	TXRX PART#: 85-83-0101 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830101	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3	TXRX PART#: 85-83-01C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858301C	457	\$602.00

DB, 50%/50% SPLIT RATIO,	z_qhI_Jhw08DPyPfi/view?usp=sharing			
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858301LT	457	\$359.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-0201 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830201	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858302	457	\$461.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858302LT	457	\$359.00
HYBRID DIRECTIONAL COUPLER 746-960 MHZ -6DB	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858303	183	\$337.00
HYBRID DIR CPLR 746-960 MHZ -6 DB 500W	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830301	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858303C	457	\$602.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858303LT	457	\$359.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-04 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858304	457	\$461.00
HYBRID DIR CPLR 746-960 MHZ -7 DB 500W	TXRX PART#: 85-83-0401 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830401	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-04C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858304C	457	\$602.00
HYBRID DIR CPLR 746-960 MHZ -10 DB 25W	TXRX PART#: 85-83-0501 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830501	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858305C	457	\$602.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEEno4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858305LT	457	\$359.00

COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858306	457	\$461.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0601 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830601	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO,	TXRX PART#: 85-83-06C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858306C	457	\$602.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858306LT	457	\$359.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -20 DB, 99%/1% SPLIT RATIO,	TXRX PART#: 85-83-07 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858307	457	\$461.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0701 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830701	457	\$530.00
HYBRID DIRECTIONAL COUPLER 746-960 MHZ -30DB	TXRX PART#: 85-83-08 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858308	183	\$685.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PART#: 85-83-0801 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS85830801	457	\$530.00
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PART#: 85-83-08-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view?usp=sharing	DS858308LT	457	\$413.00
2-WAY RCVR TYPE POWER DIVIDER, 746-960	TXRX PAER#: 84-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1cUI-z4KZFKvYYrfSNC2icQ8xIbiQ9GB0/view?usp=sharing	DS848301	457	\$178.00
POWER DIVIDER/SIGNAL COMBINER, 4-WAY, HYBRID/WILKENSON, 746- 960 MHZ,	TXRX PAER#: 84-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1cUI-z4KZFKvYYrfSNC2icQ8xIbiQ9GB0/view?usp=sharing	DS848302	457	\$214.00
POWER DIVIDER/SIGNAL COMBINER, 3-WAY, STRIPLINE, 746-960 MHZ,	TXRX PAER#: 84-83-12 SPEC SHEET LINK: https://drive.google.com/file/d/1cUI-z4KZFKvYYrfSNC2icQ8xIbiQ9GB0/view?usp=sharing	DS848312	457	\$305.00
2-WAY POWER DIVIDER, TX TYPE, 746-960 MHZ	TXRX PAER#: 84-83-14 SPEC SHEET LINK: https://drive.google.com/file/d/1cUI-z4KZFKvYYrfSNC2icQ8xIbiQ9GB0/view?usp=sharing	DS848314	457	\$282.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS4483B9910420	AIRLINE JNCTN COMBINER 700 MHZ 2 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4483B9910430	AIRLINE JNCTN COMBINER 700 MHZ 3 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4483B9910440	AIRLINE JNCTN COMBINER 700 MHZ 4 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4483B9910450	AIRLINE JNCTN COMBINER 700 MHZ 5 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4483B9910460	AIRLINE JNCTN COMBINER 700 MHZ 6 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4483E9910404	AIRLINE JNCTN COMBINER 700/800 MHZ 4 CH 19"	457	20
QUOTEDS	TXR	DS7383B112D01	COMBINER, 764-806 MHZ, T-PASS, TX, 1 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D02	COMBINER, 764-806 MHZ, T-PASS, TX, 2 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D03	COMBINER, 764-806 MHZ, T-PASS, TX, 3 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D04	COMBINER, 764-806 MHZ, T-PASS, TX, 4 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D05	COMBINER, 764-806 MHZ, T-PASS, TX, 5 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D06	COMBINER, 764-806 MHZ, T-PASS, TX, 6 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D07	COMBINER, 764-806 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D08	COMBINER, 764-806 MHZ, T-PASS, TX, 8 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D09	COMBINER, 764-806 MHZ, T-PASS, TX, 9 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D10	COMBINER, 764-806 MHZ, T-PASS, TX, 10 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20

QUOTEDS	TXR	DS7383B112D11	COMBINER, 764-806 MHZ, T-PASS, TX, 11 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS7383B112D12	COMBINER, 764-806 MHZ, T-PASS, TX, 12 CHANNEL, 6" DIAMETER 3/4 WAVE	457	20
QUOTEDS	TXR	DS848301	2-WAY RCVR TYPE POWER DIVIDER, 746-960	457	20
QUOTEDS	TXR	DS848302	POWER DIVIDER/SIGNAL COMBINER, 4-WAY, HYBRID/WILKENSON, 746-960 MHZ,	457	20
QUOTEDS	TXR	DS848312	POWER DIVIDER/SIGNAL COMBINER, 3-WAY, STRIPLINE, 746-960 MHZ,	457	20
QUOTEDS	TXR	DS848314	2-WAY POWER DIVIDER, TX TYPE, 746-960 MHZ	457	20
QUOTEDS	TXR	DS858301	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS85830101	HYBRID DIR CPLR 746-960 MHZ -3 DB 500W	457	40
QUOTEDS	TXR	DS858301C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS858301LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS858302	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	457	20
QUOTEDS	TXR	DS85830201	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858302C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858302LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	457	20
QUOTEDS	TXB	DS858303	HYBRID DIRECTIONAL COUPLER 746-960 MHZ -6DB	183	40
QUOTEDS	TXR	DS85830301	HYBRID DIR CPLR 746-960 MHZ -6 DB 500W	457	20
QUOTEDS	TXR	DS858303C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858303LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858304	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	457	20
QUOTEDS	TXR	DS85830401	HYBRID DIR CPLR 746-960 MHZ -7 DB 500W	457	20

QUOTEDS	TXR	DS858304C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	457	20
QUOTEDS	TXR	DS85830501	HYBRID DIR CPLR 746-960 MHZ -10 DB 25W	457	30
QUOTEDS	TXR	DS858305C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS858305LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS858306	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	457	20
QUOTEDS	TXR	DS85830601	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858306C	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS858306LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	457	20
QUOTEDS	TXR	DS858307	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -20 DB, 99%/1% SPLIT RATIO,	457	20
QUOTEDS	TXR	DS85830701	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	457	20
QUOTEDS	BRD	DS858308	HYBRID DIRECTIONAL COUPLER 746-960 MHZ -30DB	183	30
QUOTEDS	TXR	DS85830801	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	457	20
QUOTEDS	TXR	DS858308LT	COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	457	20
QUOTEDS	FLR	DSCIR000003	3-PORT CIRCULATOR, 700 MHZ	457	20
QUOTEDS	FLR	DSCIR000005	700 MHZ CIRCULATOR FOR DROP-SHIP (FILTRONIC P/N CIR-000005)	457	20
QUOTEDS	DBP	DSDS7TXFILTER	HIGH POWER 700MHZ FILTER	457	25
QUOTEDS	DBP	DSDSCC7501N	CERAMIC COMBINER, 700 MHZ, 1 CH	457	20
QUOTEDS	DBP	DSDSCC7501WB	EXPANSION KIT,CERAMIC COMBINER	457	20
QUOTEDS	DBP	DSDSCC7501WOB	EXPANSION KIT, CERAMIC FILTER	457	20
QUOTEDS	DBP	DSDSCC7502D	DSCC75-02D, 2 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC7503D	DSCC75-03D, 3 CH CERAMIC TRANSMIT	457	20

			COMBINER, 7/16DIN CON, 773-776MHZ		
QUOTEDS	DBP	DSDSCC7504D	DSCC75-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC7505D	5 CHANNEL TRANSMIT CERAMIC COMBINER, 773 - 776MHZ WITH 7/16 DIN CONNEC	457	20
QUOTEDS	DBP	DSDSCC7506D	6 CHANNEL TRANSMIT CERAMIC COMBINER, 763 - 776MHZ WITH 7/16 DIN CONNEC	457	20
QUOTEDS	DBP	DSDSCC7507D	CERAMIC COMBINER, 700 MHZ,7 CH	457	20
QUOTEDS	DBP	DSDSCC7508D	CERAMIC COMBINER, 700 MHZ,8 CH	457	20
QUOTEDS	DBP	DSDSCC7509D	CERAMIC COMBINER, 700 MHZ,9 CH	457	20
QUOTEDS	DBP	DSDSCC7510D	CERAMIC COMBINER, 700 MHZ,10 CH	457	20
QUOTEDS	DBP	DSDSCC7511D	CERAMIC COMBINER, 700 MHZ,11 CH	457	20
QUOTEDS	DBP	DSDSCC7512D	CERAMIC COMBINER, 700 MHZ,12 CH	457	20
QUOTEDS	FLR	DSMFG001V1	700 MHZ PHASING HARNESS	351	20
QUOTEDS	FLR	DSPCD012V10	10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	457	20
QUOTEDS	FLR	DSPCD012V12	12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	457	50
QUOTEDS	FLR	DSPCD012V4	4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	457	20
QUOTEDS	FLR	DSPCD012V6	6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	457	20
QUOTEDS	FLR	DSPCD012V6QN	700 MHZ 6-CHANNEL COMBINER KIT, STD. ISOLATION, QN CONNECTORS	457	40
QUOTEDS	FLR	DSPCD012V8	8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	457	20
QUOTEDS	FLR	DSPCD028V1K	1-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	457	20
QUOTEDS	FLR	DSPCD028V2	2-CHANNEL 700 MHZ COMBINER KIT	457	50
QUOTEDS	FLR	DSPCD028V2K	2-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	457	50
QUOTEDS	FLR	DSPCD028V3	3-CHANNEL 700 MHZ COMBINER KIT	457	20
QUOTEDS	FLR	DSPCD028V3K	3-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	457	20

QUOTEDS	FLR	DSPCD031V10	700MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD031V12	700MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD031V4	700MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD031V6	700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD031V6QN	700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING W/QN CONNECTORS	457	20
QUOTEDS	FLR	DSPCD031V8	700MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPXC008V2	PXC008-V2 700 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	457	20
QUOTEDS	FLR	DSSPC003V2	TX POST FILTER/PMU KIT, 762-776 MHZ	457	20
QUOTEDS	FLR	DSSXC019V2	TX DIPLEXER/PMU KIT, 762-776 MHZ/851-870MHZ	457	20

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

MODEL

700 MHz CONTROL STATION ANTENNAS

This page contains parts information for MSI preferred vendors including Alive Telecom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

ORDERING INFORMATION

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Alive Telecom product information, go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com (708-603-6836).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

For more information on RFI products see the [RFI website](#) or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

ALIVE TELECOM ANTENNA PARTS GUIDE - This document is a decoder for Alive antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V40D7	351	\$2,013.00
OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V20D7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART#: ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD7VC.pdf	DSATCGD7VCNF	351	\$403.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://alivetele.com/wp-	DSATWPI78	351	\$805.00

	content/uploads/ATC-WPI78.pdf			
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1	DSPLMKIT1	351	\$160.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
700 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS7B03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS7B03CS36UN	351	\$1,029.00
764-806 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS7B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS7B03CS36DN	351	\$1,961.00
764-806 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS7B00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS7B00CS36DN	351	\$1,093.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI PART#: SMD7-83-U SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-4-67.pdf	DSSMD783U	351	\$230.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	RFI PART#: COD8-7687 CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD87687	351	\$530.00

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	STI CO PART#: IOAK-TB-V/U/C	DSIOAKTBVUC	291	\$2,172.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ALO	DSATCGC7V2OD7	OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	351	15

QUOTEDS	ALO	DSATCGC7V4OD7	COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD7VCNF	DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	351	30
QUOTEDS	ALO	DSATWPI78	PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	351	15
QUOTEDS	RFA	DSCOD87687	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	351	40
QUOTEDS	DBJ	DSDS7B00CS36DN	764-806 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBJ	DSDS7B03CS36DN	764-806 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS7B03CS36UN	700 CONTROL STATION ANTENNA, 3 DBD	351	20
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	ALO	DSPLMKIT	ANTENNA POLE MOUNT KIT	351	30
QUOTEDS	ALO	DSPLMKIT1	POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	351	15
QUOTEDS	RFA	DSSMD783U	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	351	20

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

800 MHz Antennas

This page contains parts information for MSI preferred vendors including Amphenol Procom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzI0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com (815-218-8000).

For RFI information, go to the [RFI website](#) or contact Sean Johnson at sean.johnson@rfiamerica.com or (330-541-6585).

For DBSPECTRA information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer szachmeyer@dbspectra.com or (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL ANTENNA PRODUCT PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

Configuration

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	AMPHENOL PART#: 4280.11-780-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2531-4280-11-780-Tx	DS428011780T0	351	\$7,323.00
COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	AMPHENOL PART#: 4280.11-780-T1. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2531-4280-11-780-Tx	DS428011780T1	351	\$7,323.00
COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	AMPHENOL PART#: 4280.11-780-T2. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2531-4280-11-780-Tx	DS428011780T2	351	\$7,323.00

COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	AMPHENOL PART#: 4280.11-780-T4. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2531-4280-11-780-Tx	DS428011780T4	351	\$7,323.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	AMPHENOL PART#: 4240.03-780-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2025-4240-03-780-txx	DS424003780T0	351	\$740.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	AMPHENOL PART#: 4240.03-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2025-4240-03-780-Txx?generate=1	DS424003780T3	351	\$740.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 6	AMPHENOL PART#: 4240.03-780-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2025-4240-03-780-Txx?generate=1	DS424003780T6	351	\$740.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	AMPHENOL PART#: 4240.06-780-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2029-4240-06-780-tx	DS424006780T0	351	\$690.00
COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3 DEG DT	AMPHENOL PART#: 4240.06-780-T3. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2029-4240-06-780-tx	DS424006780T3	351	\$690.00
COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 6 DEG DT	AMPHENOL PART#: 4240.06-780-T6. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2029-4240-06-780-tx	DS424006780T6	351	\$690.00
COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	AMPHENOL PART#: 4240.95-780-T0 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx	DS424095780T0	351	\$1,775.00
COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ 2DG DT	AMPHENOL PART#: 4240.95-780-T2 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx	DS424095780T2	351	\$1,775.00
COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 4DG DT	AMPHENOL PART#: 4240.95-780-T4 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx	DS424095780T4	351	\$1,775.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	AMPHENOL PART#: 4250.09-780-T2 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-tx	DS425009780T2	351	\$1,893.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	AMPHENOL PART#: 4250.09-780-T4 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-tx	DS425009780T4	351	\$1,893.00
	AMPHENOL PART#: 4250.09-780-T0 SPEC			

COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-tx	DS425009780T0	351	\$1,893.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	AMPHENOL PART#: 4250.09-780-T5 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-tx	DS425009780T5	351	\$1,893.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	AMPHENOL PART#: 4250.09-780-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-tx	DS425009780T6	351	\$1,893.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ	AMPHENOL PART#: 4240.09-780-T0 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T0	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 3	AMPHENOL PART#: 4240.09-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T3	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 6	AMPHENOL PART#: 4240.09-780-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2031-4240-09-780-Tx?generate=1	DS424009780T6	351	\$1,766.00
COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3	AMPHENOL PART#: 4240.95-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx?generate=1	DS424095780T3	351	\$1,775.00
COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 5	AMPHENOL PART#: 4240.95-780-T5 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2498-4240-95-780-tx?generate=1	DS424095780T5	351	\$1,775.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	AMPHENOL PART#: 4250.09-780-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2497-4250-09-780-Tx?generate=1	DS425009780T3	351	\$1,893.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
806-869MHZ, 10DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	DBSPECTRA# DS8M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M10P36UxD.pdf	DSDS8M10P36UD	351	\$6,038.00
806-869MHZ, 12DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	DBSPECTRA# DS8M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12P36UxD.pdf	DSDS8M12P36UD	351	\$8,625.00
MAGNUM H-PATTERN/12 DBD, 800 MHZ, -150 DBC THIRD ORDER PIM/HI-PIP	DBSPECTRA PART#: DS8M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12PH2UxD.pdf	DSDS8M12PH2UD	351	\$7,935.00

764-805 MHZ, OFFSET ANTENNA,MAGNUM, 15 DB GAIN D-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M15PDDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M15PDDUxD.pdf	DS7M15PDDUD	351	\$10,339.00
806-869 MHZ, OFFSET ANTENNA, MAGNUM,12 DB GAIN, O-PATTERN, THIRD- ORDER	DBSPECTRA PART#: DS8M12P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12P36UxD.pdf	DS8M12P36U3D	351	\$9,315.00
806-869 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN, A-PATTERN, THIRD-ORDE	DBSPECTRA PART#: DS8M11PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M11PDAUxD.pdf	DS8M11PDAUD	351	\$7,475.00
806-869 MHZ 16E BI-DIR MAGNUM ANT W/ 7/16 DIN CONNECTOR	DBSPECTRA PART#: DS8M14PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M14PH2UxD.pdf	DS8M14PH2UD	351	\$9,488.00
ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36DxD.pdf	DS7C03P36DD	351	\$3,163.00
764-869 MHZ, TRIPLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI- PI	DBSPECTRA PART#: DS7C03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36TxD.pdf	DS7C03P36TD	351	\$3,623.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36UxD.pdf	DS7C03P36UD	457	\$1,944.00
DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36DxD.pdf	DS7C06P36DD	351	\$4,020.00
764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH 2DT	DBSPECTRA PART#: DS7C06P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36UxD.pdf	DS7C06P36U2D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36UxD.pdf	DS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36UxD.pdf	DS7C06P36U6D	351	\$3,335.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36UxD.pdf	DS7C06P36UD	351	\$3,048.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW- PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVuD_DS7C08PPYuD.pdf	DS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW- PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVuD_DS7C08PPYuD.pdf	DS7C08PPVU4D	351	\$2,029.00

764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	DBSPECTRA PART#: DS7M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12P36U-D.pdf	DS7M12P36UD	351	\$8,625.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Td.pdf	DS7C06P36TD	457	\$5,261.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxD.pdf	DS7C12P36UD	351	\$4,830.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW- PIM/PIP, DIN	DBSPECTRA PART#: DS7C13PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxD_DS7C13PPYUxD.pdf	DS7C13PPYUD	351	\$6,797.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA PARTS#: DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DS7C14PPTUD	351	\$3,278.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW- PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPYU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVUxD_DS7C08PPYUxD.pdf	DS7C08PPYU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW- PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#:DS7C08PPYU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVUxD_DS7C08PPYUxD.pdf	DS7C08PPYU4D	351	\$2,029.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	DBSPECTRA PART#: DS7C10P3IU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3IU6D.pdf	DS7C10P3IU6D	351	\$4,704.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW- PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C10PPVU2D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW- PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C10PPVU4D	351	\$3,326.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PARTS#: DS7C11PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPTUxD.pdf	DS7C11PPTUD	351	\$3,134.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW- PIM/PIP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C10PPVUD	351	\$3,022.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW- PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C11PPYU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW- PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C11PPYU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVUxD_DS7C11PPYUxD.pdf	DS7C11PPYU4D	351	\$3,326.00

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764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxD.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PARTS#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAUxD.pdf	DSDS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	DBSPECTRA PART#: DS7C14PPTU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxD.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PARTS#: DS7C15PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxD.pdf	DSDS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PARTS#: DS7C15PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxD.pdf	DSDS7C15PPAU4D	351	\$4,744.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	DBSPECTRA PART#: DS7M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12PH2UxD.pdf	DSDS7M12PH2UD	351	\$8,274.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK -	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, MEANDER COLLINEAR, 9DBD, 806- 870MHZ, PIM RATED, 7/16 DIN	RFI# COL811-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811870	351	\$1,045.00
	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf			

OMNI, MEANDER COLLINEAR, 9 DBD, 850-930 MHZ, PIM RATED	content/uploads/2017/08/BPA7496-12.pdf https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL81930	351	\$1,045.00
OMNI, MEANDER COLLINEAR, 0DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL81-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81870	351	\$795.00
OMNI, MEANDER COLLINEAR, 0DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL81-930 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81930	351	\$795.00
OMNI, MEANDER COLLINEAR, 5DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL84-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84870	351	\$845.00
OMNI, MEANDER COLLINEAR, 5DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL84-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84930	351	\$845.00
OMNI, MEANDER COLLINEAR, 7 DBD, 806-870 MHZ, PIM RATED	RFI# COL85-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-13.pdf	DSCOL85870	351	\$899.00
OMNI, MEANDER COLLINEAR, 7 DBD, 850-930 MHZ, PIM RATED	RFI# COL85-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-13.pdf	DSCOL85930	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART#: YW09-7489 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00
YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART#: YW15-6989 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00

ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK:	DSUC13	351	\$205.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-12	DSUC12	351	\$137.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	APP	DS424003780T0	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	351	30
QUOTEDS	APP	DS424003780T3	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	351	30
QUOTEDS	APP	DS424003780T6	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 6	351	30
QUOTEDS	APP	DS424006780T0	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	351	30
QUOTEDS	APP	DS424006780T3	COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3 DEG DT	351	30
QUOTEDS	APP	DS424006780T6	COLL OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 6 DEG DT	351	30
QUOTEDS	APP	DS424009780T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ	351	30
QUOTEDS	APP	DS424009780T3	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 3	351	30
QUOTEDS	APP	DS424009780T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ 6	351	30

QUOTEDS	APP	DS424095780T0	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ	351	30
QUOTEDS	APP	DS424095780T2	COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ 2DG DT	351	30
QUOTEDS	APP	DS424095780T3	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 3	351	30
QUOTEDS	APP	DS424095780T4	COLL OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 4DG DT	351	30
QUOTEDS	APP	DS424095780T5	COLLINEAR OMNI, LOW PIM, 9.5 DBD GAIN, HD, 7/16 DIN FE, 695-870 MHZ, 5	351	30
QUOTEDS	APP	DS425009780T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T2	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T3	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 695 - 870 MHZ, 3	351	30
QUOTEDS	APP	DS425009780T4	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T5	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS425009780T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, PIP, NULL FILL,	351	30
QUOTEDS	APP	DS428011780T0	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T1	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T2	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	APP	DS428011780T4	COLLINEAR OMNI, LOW PIM, 11.5 DBD GAIN, HD, 7/16 DIN FE, PIP,	351	30
QUOTEDS	RFA	DSBPA749612012	PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	351	60
QUOTEDS	RFA	DSBPA749612015	PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA749618011	PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA749618014	PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966013	PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966015	PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSCOL811870	OMNI, MEANDER COLLINEAR, 9DBD, 806-870MHZ, PIM RATED, 7/16 DIN	351	60

QUOTEDS	RFA	DSCOL811930	OMNI, MEANDER COLLINEAR, 9 DBD, 850-930 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL81870	OMNI, MEANDER COLLINEAR, 0DBD, 806-870MHZ, PIM RATED, 7/16 DIN	351	40
QUOTEDS	RFA	DSCOL81930	OMNI, MEANDER COLLINEAR, 0DBD, 850-930MHZ, PIM RATED, 7/16 DIN	351	40
QUOTEDS	RFA	DSCOL84870	OMNI, MEANDER COLLINEAR, 5DBD, 806-870MHZ, PIM RATED, 7/16 DIN	351	50
QUOTEDS	RFA	DSCOL84930	OMNI, MEANDER COLLINEAR, 5DBD, 850-930MHZ, PIM RATED, 7/16 DIN	351	50
QUOTEDS	RFA	DSCOL85870	OMNI, MEANDER COLLINEAR, 7 DBD, 806-870 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL85930	OMNI, MEANDER COLLINEAR, 7 DBD, 850-930 MHZ, PIM RATED	351	40
QUOTEDS	DBP	DSDS7C03P36DD	ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	351	20
QUOTEDS	DBP	DSDS7C03P36TD	764-869 MHZ, TRIPLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	351	25
QUOTEDS	DBP	DSDS7C03P36UD	764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	457	40
QUOTEDS	DBP	DSDS7C06P36DD	DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	351	25
QUOTEDS	DBP	DSDS7C06P36TD	764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	457	25
QUOTEDS	DBP	DSDS7C06P36U2D	764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH 2DT	351	25
QUOTEDS	DBP	DSDS7C06P36U4D	764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	351	25
QUOTEDS	DBP	DSDS7C06P36U6D	764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	351	25
QUOTEDS	DBP	DSDS7C06P36UD	DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	351	25
QUOTEDS	DBP	DSDS7C08PPVU2D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPVU4D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPYU2D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C08PPYU4D	764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C10P3IU6D	764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	351	25
QUOTEDS	DBP	DSDS7C10PPVU2D	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	351	25

QUOTEDS	DBP	DSDS7C10PPVU4D	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C10PPVUD	764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C11PPTUD	764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	351	25
QUOTEDS	DBP	DSDS7C11PPYU2D	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C11PPYU4D	764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C12P36U2D	764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C12P36UD	764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	351	25
QUOTEDS	DBP	DSDS7C12PPAU4D	764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7C13PPYUD	764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	351	25
QUOTEDS	DBP	DSDS7C14PPTU8D	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	351	25
QUOTEDS	DBP	DSDS7C14PPTUD	764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	351	25
QUOTEDS	DBP	DSDS7C15PPAU2D	764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	351	25
QUOTEDS	DBP	DSDS7C15PPAU4D	764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	351	25
QUOTEDS	DBP	DSDS7M12P36UD	764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	351	25
QUOTEDS	DBP	DSDS7M12PH2UD	764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	351	25
QUOTEDS	DBP	DSDS7M15PDDUD	764-805 MHZ, OFFSET ANTENNA,MAGNUM, 15 DB GAIN D-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBJ	DSDS8M10P36UD	806-869MHZ, 10DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	351	25
QUOTEDS	DBP	DSDS8M11PDAUD	806-869 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN, A-PATTERN, THIRD-ORDE	351	25
QUOTEDS	DBP	DSDS8M12P36U3D	806-869 MHZ, OFFSET ANTENNA, MAGNUM,12 DB GAIN, O-PATTERN, THIRD-ORDER	351	25
QUOTEDS	DBJ	DSDS8M12P36UD	806-869MHZ, 12DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	351	25
QUOTEDS	DBP	DSDS8M12PH2UD	MAGNUM H-PATTERN/12 DBD, 800 MHZ, -150 DBC THIRD ORDER PIM/HI-PIP	351	25
QUOTEDS	DBP	DSDS8M14PH2UD	806-869 MHZ 16E BI-DIR MAGNUM ANT W/ 7/16 DIN CONNECTOR	351	30

QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20
QUOTEDS	RFA	DSUC1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	351	20
QUOTEDS	RFA	DSUC114	ANTENNA CLAMP 60 TO 115MM	351	20
QUOTEDS	RFA	DSUC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	351	20
QUOTEDS	RFA	DSUC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	351	20
QUOTEDS	RFA	DSUC12	ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	351	5
QUOTEDS	RFA	DSUC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	351	20
QUOTEDS	RFA	DSUCR1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUCR2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	351	20
QUOTEDS	RFA	DSYB80399	YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	351	30
QUOTEDS	RFA	DSYB80681	YAGI ELEMENT 9 DBD 806-896 MHZ N FEMALE	351	30
QUOTEDS	RFA	DSYW097489	YAGI, 11 DBD, 746-896 MHZ N-FEMALE	351	20
QUOTEDS	RFA	DSYW156989	YAGI, 13DBD, 698-890MHZ, N FEMALE	351	20

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[800 MHZ DUPLEXERS](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

800 MHZ DUPLEXERS

This page contains parts information for MSI preferred vendors including TXRX, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering information, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For RFI product information, go to the RFI [website](#), or contact [Sean Johnson](#) directly (330-541-6585).

For more information on dbSpectra products, please see the [dbSpectra portal](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972 841-4893).

For more information on TXRX products, please see the [TXRX portal](#) or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
SINGLE CHANNEL 800 MHZ	TXRX # 26-89A-01-01 SPEC SHEET LINK:			

AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex04%20Spec%20Sheet.pdf	DS2689A0101	457	\$4,140.00
TWO CHANNEL 800 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	TXRX # 26-89A-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex04%20Spec%20Sheet.pdf	DS2689A0102	457	\$4,140.00
SINGLE CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	TXRX # - 26-94D-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0101	457	\$4,140.00
TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	TXRX # - 26-94D-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0102	457	\$4,140.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	
DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX AC PWR	DBSPECTRA # - BCDUP03A Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf	DSBCDUP03A	457	\$
DUPLEX04 SINGLE CH DUPLEXER RX AMP 806	DBSPECTRA PART#: BCDUP04A SPEC SHEET LINK:	DSBCDUP04A	457	\$

824MHZ RX 851 869MHZ TX AC PWR	http://www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf			
DSD806M, 800MHZ MULTI CHANNEL NOTCH DUPLEXER	DBSPECTRA # - DSD806M Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-063.E_(DSD706M_DSD806M_DSD906M).pdf	DSDSD806M	457	
DST7800, TX764-776 & 851-862MHZ, RX 794- 816MHZ DUAL BAND DUPLEXER	DBSPECTRA # - DST7800 Requires Tx and rx frequencies when ordering SPEC SHEET LINK: www.dbspectra.com/specifications/DST7800.pdf	DSDST7800	457	\$
MILLED WINDOW FILTER DUPLEXER	DBSPECTRA PART#: MWFDP7AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B (MWFDP-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFDP7AM	457	\$
808-861MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS	DBSPECTRA PART#: MWFDP8AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B (MWFDP-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFDP8AM	457	\$
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA PART#: BCDUP01AA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01AA	457	\$
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA PART#: BCDUP01BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01BA	457	\$
2 POST RACK ADAPTER KIT	DBSPECTRA PART#: BCDUP01BRCKT SPEC			

FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01BRCKT	457
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RFI PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER, 806-825 & 851-870MHZ, 500W, PIM & PIP RATED	RFI PART#: DP8086-0805-32-WB-HP SPEC SHEET LINK: TBD	DSDP8086080532WHP	457	\$3,329.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2689A0101	SINGLE CHANNEL 800 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	457	15
QUOTEDS	TXR	DS2689A0102	TWO CHANNEL 800 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	457	15
QUOTEDS	TXR	DS2694D0101	SINGLE CHANEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	457	15
QUOTEDS	TXR	DS2694D0102	TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	457	15
QUOTEDS	DBP	DSBCDUP01AA	380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	457	20

QUOTEDS	DBP	DSBCDUP01BA	450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	457	20
QUOTEDS	DBP	DSBCDUP01BRCKT	2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	457	25
QUOTEDS	DBP	DSBCDUP03A	DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851- 869TX AC PWR	457	20
QUOTEDS	DBP	DSBCDUP04A	DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX AC PWR	457	20
QUOTEDS	RFA	DSDP8086080532WHP	DUPLEXER, 806-825 & 851- 870MHZ, 500W, PIM & PIP RATED	457	40
QUOTEDS	DBP	DSDSD806M	DSD806M, 800MHZ MULTI CHANNEL NOTCH DUPLEXER	457	40
QUOTEDS	DBP	DSDST7800	DST7800, TX764-776 & 851- 862MHZ, RX 794-816MHZ DUAL BAND DUPLEXER	457	20
QUOTEDS	DBP	DSMWFD7AM	MILLED WINDOW FILTER DUPLEXER	457	20
QUOTEDS	DBP	DSMWFD8AM	808-861MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS	457	20

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[CONFIGURATION](#)

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Model

800 MHz Transmitter Combiners

This page contains parts information for MSI preferred vendors including TXRX, Filtronic, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on DBSPECTRA products, please see the [DBSPECTRA website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972 841-4893).

For more information on TXRX products, please see the [TXRX portal](#) or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For more information on Filtronic Wireless products, please see the [Filtronic Wireless web-site](#) (PW is msi2020) or contact [Walter Magiera](#) at walter.magiera@filtronic.com (407-399-3630)..

Filtronic Technical Sales Support is provided by [Ben Snow](#), he can be contacted at ben.snow@filtronic.com or (954-507-2345).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

TXRX WHITE PAPERS ON COMBINER DESIGN

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Art-of-Combiner-Designs.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Impact-of-Antenna-Isolation-on-Transmit-Combiner.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Primer-on-Directional-Couplers.pdf

Configuration

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
T PASS TX EXP 806-824 MHZ 6" CAV 5-60W	TXRX PART#: 21-86A-11-2C-T SPEC SHEET LINK: TBD	DS2186A112CT	457	\$1,875.00
SINGLE TX T-PASS EXPANSION CHANNEL FOR 851-869MHZ	TXRX PART#: 21-87A-11-2C-T SPEC SHEET LINK: TBD	DS2187A112CT	457	\$1,875.00
T PASS TX EXP 851-869 MHZ CHANNEL 6" 3-4 W V 5W-100W	TXRX PART#: 21-87A-11-2D-T SPEC SHEET LINK: TBD	DS2187A112DT	457	\$1,917.00
AIRLINE JNCTN COMBINER 800 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-86A-99104-02 SPEC SHEET LINK: TBD	DS4486A9910402	457	\$5,085.00
AIRLINE JNCTN COMBINER 800 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-86A-99104-03 SPEC SHEET LINK: TBD	DS4486A9910403	457	\$6,783.00
AIRLINE JNCTN COMBINER 800 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-86A-99104-04 SPEC SHEET LINK: TBD	DS4486A9910404	457	\$8,956.00
AIRLINE JNCTN COMBINER 800 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-86A-99104-05 SPEC SHEET LINK: TBD	DS4486A9910405	457	\$10,529.00
AIRLINE JNCTN COMBINER 800 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-86A-99104-06 SPEC SHEET LINK: TBD	DS4486A9910406	457	\$12,461.00
COMBINER, 806-960 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE CAV	TXRX PART#: 73-90-11-2D-07-LR SPEC SHEET LINK: https://txrx.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D07LR	457	\$13,095.00
T-PASS TX MULTICOUPLER 10 CH 6" 3-4WV 5W-100W	TXRX PART#: 73-90-11-2D-10 SPEC SHEET LINK: https://txrx.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D10	457	\$19,882.00

FILTRONIC PARTS

Description	Full Description	Nomenclature	APC	Price
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V4	DSPCD013V4	457	\$6,250.00
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V6	DSPCD013V6	457	\$9,366.00
8 CHANNEL COMBINER KIT, STANDARD ISOLATION,	FILTRONIC WIRELESS #			

851-870 MHZ	PCD013-V8	DSPCD013V8	457	\$14,106.00
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC# PCD013-V10	DSPCD013V10	457	\$18,225.00
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V12	DSPCD013V12	457	\$20,787.00
4 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V4	DSPCD014V4	457	\$8,890.00
6 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V6	DSPCD014V6	457	\$11,696.00
8 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V8	DSPCD014V8	457	\$19,511.00
10 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V10	DSPCD014V10	457	\$22,462.00
12 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V12	DSPCD014V12	457	\$25,268.00
TX DIPLEXER/PMU KIT, 762-776 MHZ/851-870MHZ	FILTRONIC WIRELESS # SXC019-V2	DSSXC019V2	457	\$1,447.00
TX POST FILTER/PMU KIT, 851-870 MHZ	FILTRONIC WIRELESS # SPC004-V2	DSSPC004V2	457	\$1,204.00
800 MHZ 4 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V4	DSPCD024V4	457	\$9,113.00
800 MHZ 6 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V6	DSPCD024V6	457	\$11,401.00
800 MHZ 8-CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V8	DSPCD024V8	457	\$20,380.00
800 MHZ 10 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V10	DSPCD024V10	457	\$22,464.00
800 MHZ 12 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V12	DSPCD024V12	457	\$25,100.00
1-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V1k	DSPCD029V1K	457	\$5,854.00
2-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V2	DSPCD029V2	457	\$6,109.00
2-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V2K	DSPCD029V2K	457	\$6,858.00
3-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V3	DSPCD029V3	457	\$7,112.00

3-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V3K	DSPCD029V3K	457	\$7,859.00
1-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V1k	DSPCD030V1K	457	\$6,339.00
2-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PCD030-V2	DSPCD030V2	457	\$7,068.00
2-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V2K	DSPCD030V2K	457	\$7,815.00
3-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PCD030-V3	DSPCD030V3	457	\$8,545.00
3-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V3K	DSPCD030V3K	457	\$9,292.00
800MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V4	DSPCD032V4	457	\$9,412.00
800MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V6	DSPCD032V6	457	\$11,141.00
800MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V8	DSPCD032V8	457	\$18,046.00
800MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V10	DSPCD032V10	457	\$19,775.00
800MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V12	DSPCD032V12	457	\$21,505.00
800MHZ 4-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V4	DSPCD033V4	457	\$10,210.00
800MHZ 6-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V6	DSPCD033V6	457	\$12,685.00
800MHZ 8-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V8	DSPCD033V8	457	\$19,642.00
800MHZ 10-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V10	DSPCD033V10	457	\$22,117.00
800MHZ 12-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V12	DSPCD033V12	457	\$24,589.00
800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC009-V2	DSPXC009V2	457	\$1,254.00
LMR 769-869MHZ TRIPLE BANDPASS FILTER, KIT	FILTRONIC PART#: PXC034-V1	DSPXC034V1	457	\$1,063.00
WWAN2 TRIPLE NOTCH FILTER, KIT	FILTRONIC PART#: PXC010-V1	DSPSC010V1	457	\$1,513.00

	PSC010-V1			
COMBINER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000001	DSKIT000001	457	\$918.00
KIT-000004 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000004	DSKIT000004	457	\$842.00
KIT-000009 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000009	DSKIT000009	457	\$205.00
800 MHZ PHASING HARNESS	FILTRONIC PART#: MFG002-V1	DSMFG002V1	457	\$650.00
3-PORT CIRCULATOR, 800 MHZ	FILTRONIC PART#: 58009296001	DSCIR000004	457	\$150.00
6 PART CIRCULATOR, 800 MHZ	FILTRONIC PART#: 58009299001	DSCIR000006	457	\$150.00
LOAD,N-F,5W,TERMINATION	FILTRONIC PART#: LOD-000010	DSL0D000010	457	\$172.00
HIGH POWER LOAD ASSEMBLY (FITS POWERWAVE COMBINERS)	FILTRONIC PART#: 58009297001	DSL0D000015	457	\$246.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DBS4258S10WT, 10MHZ WINDOW FILTER 806-816MHZ	DBSPECTRA PART#: DBS4258S10WT SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-081.E.pdf	DSDBS4258S10WT	457	\$1,311.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2186A112CT	T PASS TX EXP 806-824 MHZ 6" CAV 5-60W	457	20
QUOTEDS	TXR	DS2187A112CT	SINGLE TX T-PASS EXPANSION CHANNEL FOR 851-869MHZ	457	20
QUOTEDS	TXR	DS2187A112DT	T PASS TX EXP 851-869 MHZ CHANNEL 6" 3-4 W V 5W-100W	457	20
QUOTEDS	TXR	DS4486A9910402	AIRLINE JNCTN COMBINER 800 MHZ 2 CH 19" MOUNT	457	20

QUOTEDS	TXR	DS4486A9910403	AIRLINE JNCTN COMBINER 800 MHZ 3 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4486A9910404	AIRLINE JNCTN COMBINER 800 MHZ 4 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4486A9910405	AIRLINE JNCTN COMBINER 800 MHZ 5 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS4486A9910406	AIRLINE JNCTN COMBINER 800 MHZ 6 CH 19" MOUNT	457	20
QUOTEDS	TXR	DS7390112D07LR	COMBINER, 806-960 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE CAV	457	20
QUOTEDS	TXR	DS7390112D10	T-PASS TX MULTICOUPLER 10 CH 6" 3-4WV 5W-100W	457	30
QUOTEDS	FLR	DSCIR000004	3-PORT CIRCULATOR, 800 MHZ	457	20
QUOTEDS	FLR	DSCIR000006	6 PART CIRCULATOR, 800 MHZ	457	20
QUOTEDS	DBP	DSDBS4258S10WT	DBS4258S10WT, 10MHZ WINDOW FILTER 806-816MHZ	457	20
QUOTEDS	FLR	DSKIT000001	COMBINER RACK MOUNTING KIT	457	20
QUOTEDS	FLR	DSKIT000004	KIT-000004 ANCILLARY FILTER RACK MOUNTING KIT	457	20
QUOTEDS	FLR	DSKIT000009	KIT-000009 ANCILLARY FILTER RACK MOUNTING KIT	457	20
QUOTEDS	FLR	DSL0D000010	LOAD,N-F,5W,TERMINATION	457	20
QUOTEDS	FLR	DSL0D000015	HIGH POWER LOAD ASSEMBLY (FITS POWERWAVE COMBINERS)	457	20
QUOTEDS	DBP	DSMDI78	HIGH POWER 700/800MHZ DIPLEXER, 762-776MHZ/851-869MHZ	457	20
QUOTEDS	FLR	DSMFG002V1	800 MHZ PHASING HARNESS	457	40
QUOTEDS	FLR	DSPCD013V10	10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD013V12	12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD013V4	4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	457	50
QUOTEDS	FLR	DSPCD013V6	6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	457	20

QUOTEDS	FLR	DSPCD013V8	8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD014V10	10 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD014V12	12 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD014V4	4 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD014V6	6 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD014V8	8 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	457	20
QUOTEDS	FLR	DSPCD024V10	800 MHZ 10 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	457	20
QUOTEDS	FLR	DSPCD024V12	800 MHZ 12 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	457	20
QUOTEDS	FLR	DSPCD024V4	800 MHZ 4 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	457	20
QUOTEDS	FLR	DSPCD024V6	800 MHZ 6 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	457	20
QUOTEDS	FLR	DSPCD024V8	800 MHZ 8-CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	457	20
QUOTEDS	FLR	DSPCD029V1K	1-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	457	20
QUOTEDS	FLR	DSPCD029V2	2-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	457	20
QUOTEDS	FLR	DSPCD029V2K	2-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	457	20
QUOTEDS	FLR	DSPCD029V3	3-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	457	20
QUOTEDS	FLR	DSPCD029V3K	3-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	457	20
QUOTEDS	FLR	DSPCD030V1K	1-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	457	20
QUOTEDS	FLR	DSPCD030V2	2-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	457	20
			2-CHANNEL 800 MHZ COMBINER KIT,		

QUOTEDS	FLR	DSPCD030V2K	EXPANSION, HIGH ISOLATION	457	20
QUOTEDS	FLR	DSPCD030V3	3-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	457	20
QUOTEDS	FLR	DSPCD030V3K	3-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	457	20
QUOTEDS	FLR	DSPCD032V10	800MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD032V12	800MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD032V4	800MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD032V6	800MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD032V8	800MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	457	20
QUOTEDS	FLR	DSPCD033V10	800MHZ 10-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	457	20
QUOTEDS	FLR	DSPCD033V12	800MHZ 12-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	457	20
QUOTEDS	FLR	DSPCD033V4	800MHZ 4-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	457	20
QUOTEDS	FLR	DSPCD033V6	800MHZ 6-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	457	20
QUOTEDS	FLR	DSPCD033V8	800MHZ 8-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	457	20
QUOTEDS	FLR	DSPSC010V1	WWAN2 TRIPLE NOTCH FILTER, KIT	457	50
QUOTEDS	FLR	DSPXC009V2	800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	457	20
QUOTEDS	FLR	DSPXC034V1	LMR 769-869MHZ TRIPLE BANDPASS FILTER, KIT	457	50
QUOTEDS	FLR	DSSPC004V2	TX POST FILTER/PMU KIT, 851-870 MHZ	457	30
QUOTEDS	FLR	DSSXC019V2	TX DIPLEXER/PMU KIT, 762-776 MHZ/851-870MHZ	457	20

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Model

800/900 MHz Receiver Multicouplers

This page contains parts information for MSI preferred vendors including TXRX and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on DBSPECTRA products, please see the [DBSPECTRA portal](#) or contact [Sandra Zachmeyer](mailto:szachmeyer@dbspectra.com) at szachmeyer@dbspectra.com (972 841-4893).

For more information on TXRX products, please see the [TXRX portal](#) or contact [Mike Ryan](mailto:MRyan@txrx.com) at MRyan@txrx.com (312-632-9620).

TXRX TRAINING VIDEOS ON PRODUCTS AND SERVICES

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/receive-sensitivity-improvement-basics/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	P
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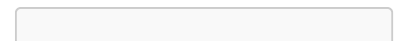
RMC06, 8 CH HIGH GAIN AMP UNIVRMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-08CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608CA	457	\$3,6
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-08CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608CD	457	\$4,;
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-16CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616CA	457	\$4,;
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-16CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616CD	457	\$4,;
RMC EXPANSION KIT, 16CH	DBSPECTRA PART#: DSRMC06-EXP SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC06EXP	457	\$6
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 796-901 MHZ, W/NO ALARM BO	DBSPECTRA PART#: DSRMC0616CAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX _Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616CAN	457	\$3,6

700-902 MHZ RXMC ASSEMBLY 8 CH DC	DBSPECTRA PART#: DSRMC0608CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608CDN	457	\$2,6
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 796-901 MHZ, W/NO ALA	DBSPECTRA PART#: DSRMC0616CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616CDN	457	\$3,6


TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
896 901 MHZ QUAD RECEIVER MULTICOUPLER 16 PORT	TXRX PART#: 42-94C-02 SPEC SHEET LINK: TBD	DS4294C02	457	\$6,000
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, 110AC	TXRX PART#: 42-83J-05-08 SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzsMAItVnK84PxAKmmMYs-w09kzPBI/view?usp=sharing	DS4283J0508	457	\$4,000
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, -48VDC	TXRX PART#: 42-83J-05-08-48 SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzsMAItVnK84PxAKmmMYs-w09kzPBI/view?usp=sharing	DS4283J050848	457	\$4,000

Ship Card



Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS4283J0508	RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, 110AC	457	25
QUOTEDS	TXR	DS4283J050848	RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, -48VDC	457	40
QUOTEDS	TXR	DS4294C02	896 901 MHZ QUAD RECEIVER MULTICOUPLER 16 PORT	457	20
QUOTEDS	DBP	DSDSRMC0608CA	RMC06, 8 CH HIGH GAIN AMP UNIVRMC SYSTEM, AC POWER, 700-902MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608CD	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608CDN	700-902 MHZ RXMC ASSEMBLY 8 CH DC	457	20
QUOTEDS	DBP	DSDSRMC0616CA	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 700-902MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616CAN	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 796-901 MHZ, W/NO ALARM BO	457	20
QUOTEDS	DBP	DSDSRMC0616CD	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616CDN	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 796-901 MHZ, W/NO ALA	457	20
QUOTEDS	DBP	DSDSRMC06EXP	RMC EXPANSION KIT, 16CH	457	20



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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

MODEL

800 MHz CONTROL STATION ANTENNAS

This page contains parts information for MSI preferred vendors including Alive Telecom, Amphenol Procom, RFI and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzI0tA-wgtg/edit

ORDERING INFORMATION

Please refer to the [3rd Party Drop Ship Wiki](#) for vendor information and more specific product detail.

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com (815-218-8000).

For Alive Telecom product information go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com (708-603-6836).

For RFI product information, go to the RFI [website](#), or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL PROCOM ANTENNA PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

ALIVE TELECOM ANTENNA PARTS GUIDE - This document is a decoder for Alive antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V40D7	351	\$2,013.00
OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD,	ALIVE PART#: ATC-GC7V20-D7 NOTE: Mount Part Number			

7-16 DIN FEMALE	DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V2OD7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART#: ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD7VC.pdf	DSATCGD7VCNF	351	\$403.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WPI78.pdf	DSATWPI78	351	\$805.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, 800-870 MHZ	AMPHENOL PART#: CXL 800-1. Order brackets separately. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/523-cxl-800-1	DSCXL8001	351	\$162.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw?generate=1	DSCXL9001LWH	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/l. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWL	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-950 MHZ	AMPHENOL PART#: CXL 900-1LW/m. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWM	351	\$187.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
800 CONTROL STATION ANTENNA. 3 DBD	DBSPECTRA# DS8A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS8A03CS36UN	351	\$1,006.00
700 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA PART#: DS7B03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS7B03CS36UN	351	\$1,029.00
806-869 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS8A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS8A03CS36DN	351	\$1,938.00
806-869 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS8A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B00CS36DN_DS8A00CS36DN_DS9A00CS36DN.pdf	DSDS8A00CS36DN	351	\$1,093.00

CONTROL STATION ANT 806MHZ-869MHZ	DBSPECTRA PART#: DS8A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A00CS36UN_DS8A03CS36UN_DS9A00CS36UN_DS9A03CS36UN.pdf	DS8A00CS36UN	351	\$794.00
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RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	RFI# COD8-7687 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD87687	351	\$530.00
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI# SMD7-83-U CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-4-67.pdf	DSSMD783U	351	\$230.00

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	STI CO PART#: IOAK-TB-V/U/C	DSIOAKTBVUC	291	\$2,172.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ALO	DSATCGC7V2OD7	OMNI ANTENNA, COLLINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	351	15
QUOTEDS	ALO	DSATCGC7V4OD7	COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD7VCNF	DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	351	30
QUOTEDS	ALO	DSATWPI78	PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	351	15
QUOTEDS	RFA	DSCOD87687	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	351	40
QUOTEDS	APP	DSCXL8001	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, 800-870 MHZ	351	30
QUOTEDS	APP	DSCXL9001LWH	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	351	30
QUOTEDS	APP	DSCXL9001LWL	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	351	30
			OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD		

QUOTEDS	APP	DSCXL9001LWM	GAIN, STURDY, 870-950 MHZ	351	30
QUOTEDS	DBP	DSDS7B03CS36UN	700 CONTROL STATION ANTENNA, 3 DBD	351	20
QUOTEDS	DBP	DSDS8A00CS36DN	806-869 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS8A00CS36UN	CONTROL STATION ANT 806MHZ-869MHZ	351	30
QUOTEDS	DBP	DSDS8A03CS36DN	806-869 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS8A03CS36UN	800 CONTROL STATION ANTENNA. 3 DBD	351	20
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	ALO	DSPLMKIT	ANTENNA POLE MOUNT KIT	351	30
QUOTEDS	RFA	DSSMD783U	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	351	20

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

900 MHz Antennas

This page contains parts information for MSI preferred vendors including RFI and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance, contact Gary Owens at garyowens@motorolasolutions.com.

For information on RFI products, visit the RFI [website](#) or contact Sean Johnson at sean.johnson@rfi.com.au or (330-541-6585).

For information on DBSPECTRA products, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

Configuration

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC

890-960MHZ OMNIDIRECTIONAL, LOW PIM, 11.5DB GAIN DIN	DBSPECTRA# DS9A12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A12P36U-D.pdf http://www.dbspectra.com/specifications/900.pdf	DSDS9A12P36UD	351
10DB 900/OMNI MAGNUM ANTENNA	DBSPECTRA# DS9M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9M10P36Ux-D.pdf	DSDS9M10P36UD	351
12DB 900/OMNI MAGNUM ANTENNA	DBSPECTRA# DS9M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9M12P36Ux-D.pdf	DSDS9M12P36UD	351
890-960MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 3 DEG DT	DBSPECTRA PART#: DS9A06P36D3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36DxD.pdf	DSDS9A06P36D3D	351
890-960MHZ, 6DB GAIN DUAL FEED ANTENNA W/6 D TILT, LOW PIM & PIP RATED	DBSPECTRA PART#: DS9A06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36DxD.pdf	DSDS9A06P36D6D	351
890-960MHZ, 3DBD GAIN DUAL OMNI ANT, LOW PIM, HI PIP RATED ANT	DBSPECTRA PART#: DS9A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A03P36DxD.pdf	DSDS9A03P36DD	351
890-960MHZ, 3DBD GAIN SINGLE OMNI ANT, LOW PIM, HI PIP RATED ANT	DBSPECTRA PART#: DS9A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A03P36UxD.pdf	DSDS9A03P36UD	351
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW- PIM/HI-PIP,DIN,	DBSPECTRA PART#: DS9A06P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36UxD.pdf	DSDS9A06P36U3D	351
890-960MHZ, 6DB GAIN SINGLE FEED ANTENNA W/6DT LOW PIM & PIP	DBSPECTRA PART#: DS9A06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36UxD.pdf	DSDS9A06P36U6D	351

RATED			
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW- PIM/HI-PIP,DIN,	DBSPECTRA PART#: DS9A06P36UXD SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36UxD.pdf	DSDS9A06P36UXD	351
890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI-PIP, DI	DBSPECTRA PART#: DS9A08PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A08PPVUxD_DS9A08PPVUxD.pdf	DSDS9A08PPVUD	351
890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI-PIP, DI	DBSPECTRA PART#: DS9A08PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A08PPYUxD_DS9A08PPYUxD.pdf	DSDS9A08PPYUD	351
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW- PIM/HI-PIP, DIN,	DBSPECTRA PART#: DS9A09P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36U4D.pdf	DSDS9A09P36U4D	351
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW- PIM/HI-PIP, DIN	DBSPECTRA PART#: DS9A10P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10P36U3D.pdf	DSDS9A10P36U3D	351
890-960 MHZ, ANTENNA, SLIMLINE, 10DB GAIN, 8' PANEL, LOW-PIM/HI-PIP, D	DBSPECTRA PART#: DS9A10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10PPVUxD_DS9A10PPVUxD.pdf	DSDS9A10PPVUD	351
890-960 MHZ, ANTENNA, SLIMLINE, 11 DB GAIN, 8' PANEL, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS9A11PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A11PPYUxD_DS9A11PPYUxD.pdf	DSDS9A11PPYUD	351
ANTENNA,DUAL 6DBD,LOW PIM/DIN	DBSPECTRA PART#: DS9A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36DD.pdf	DSDS9A06P36DD	351

RFI PARTS

Description	Full Description	Nomenclature	APC	Pr
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,0
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,6
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,0
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,3
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,0
OMNI, MEANDER COLLINEAR,	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-			

9 DBD, 850-930 MHZ, PIM RATED	motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811930	351	\$1,04
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$29
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$65
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$95
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$19
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$29
ANT CLAMPS, KIT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-13_datasheet-std-conversions.pdf			

OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$20
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	RFA	DSBPA749612015	PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	351	30
			PANEL ANTENNA, 9DBD, 746-		

QUOTEDS	RFA	DSBPA749618011	960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA749618014	PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966013	PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSBPA74966015	PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	351	30
QUOTEDS	RFA	DSCOL811930	OMNI, MEANDER COLLINEAR, 9 DBD, 850-930 MHZ, PIM RATED	351	40
QUOTEDS	DBP	DSDS9A03P36DD	890-960MHZ, 3DBD GAIN DUAL OMNI ANT, LOW PIM, HI PIP RATED ANT	351	25
QUOTEDS	DBP	DSDS9A03P36UD	890-960MHZ, 3DBD GAIN SINGLE OMNI ANT, LOW PIM, HI PIP RATED ANT	351	25
QUOTEDS	DBP	DSDS9A06P36D3D	890-960MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 3 DEG DT	351	25
QUOTEDS	DBP	DSDS9A06P36D6D	890-960MHZ, 6DB GAIN DUAL FEED ANTENNA W/6 D TILT, LOW PIM & PIP RATED	351	25
QUOTEDS	DBP	DSDS9A06P36DD	ANTENNA,DUAL 6DBD,LOW PIM/DIN	351	30
QUOTEDS	DBP	DSDS9A06P36U3D	890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,DIN,	351	25
QUOTEDS	DBP	DSDS9A06P36U6D	890-960MHZ, 6DB GAIN SINGLE FEED ANTENNA W/6DT LOW PIM & PIP RATED	351	25
			890-960 MHZ, ANTENNA,		

QUOTEDS	DBP	DSDS9A06P36UXD	OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,DIN,	351	25
QUOTEDS	DBP	DSDS9A08PPVUD	890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI- PIP, DI	351	25
QUOTEDS	DBP	DSDS9A08PPYUD	890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI- PIP, DI	351	25
QUOTEDS	DBP	DSDS9A09P36U4D	890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/HI-PIP, DIN,	351	25
QUOTEDS	DBP	DSDS9A10P36U3D	890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-PIP, DIN	351	25
QUOTEDS	DBP	DSDS9A10PPVUD	890-960 MHZ, ANTENNA, SLIMLINE, 10DB GAIN, 8' PANEL, LOW-PIM/HI- PIP, D	351	25
QUOTEDS	DBP	DSDS9A11PPYUD	890-960 MHZ, ANTENNA, SLIMLINE, 11 DB GAIN, 8' PANEL, LOW-PIM/HI- PIP,	351	25
QUOTEDS	DBP	DSDS9A12P36UD	890-960MHZ OMNIDIRECTIONAL, LOW PIM, 11.5DB GAIN DIN	351	25
QUOTEDS	DBP	DSDS9M10P36UD	10DB 900/OMNI MAGNUM ANTENNA	351	25
QUOTEDS	DBP	DSDS9M12P36UD	12DB 900/OMNI MAGNUM ANTENNA	351	25
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20
QUOTEDS	RFA	DSUC1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	351	20
QUOTEDS	RFA	DSUC114	ANTENNA CLAMP 60 TO 115MM	351	20
QUOTEDS	RFA	DSUC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	351	20

QUOTEDS	RFA	DSUC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	351	20
QUOTEDS	RFA	DSUC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	351	20
QUOTEDS	RFA	DSUCR1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUCR2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	351	20
QUOTEDS	RFA	DSYB80399	YAGI 3 ELEMENT, 6DBD, 540- 1000MHZ, CUSTOM TUNED, 5%BW	351	30

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Model

900 MHz DUPLEXERS

This page contains information from MSi preferred vendors, including DBSPECTRA, RFI, and TXRX.

If you want to use equipment from a non preferred vendor, you must go through the Exception Request process (see link to form below).

EXCEPTION REQUEST LINK

URL: https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For general ordering and vendor information, contact the product planner [Tim Martin](#).

For technical assistance contact the lead RF engineer, [Gary Owens](#).

For information on DBSPECTRA products, go to the [DBSPECTRA](#) portal or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (972 841-4893).

For information on TXRX or Combilent products, go to the [TXRX](#) portal or contact [Mike Ryan](#) at MRyan.trx.com (312-632-9620).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

COMBILENT PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER 06 1	COMBILENT # -CP01011 SPEC SHEET LINK - https://www.combilent.com/fileadmin/user_upload/	DSCP01011	457	\$4,370.00

CHANNEL 900 MHZ	documents/MSI_products/Duplex06_900_MHz_October_2013.pdf			
DUPLEX05 2CH 900MHZ DUAL CHANNEL DUPLEXER 900 MHZ	COMBILENT # - CP01009 SPEC SHEET LINK - https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01009	457	\$5,750.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEX05 2 CHANNEL DUPLEXER 896- 902MHZ RX 935-941TX AC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP05A	457	\$4,658.00
DUPLEX05 2 CHANNEL DUPLEXER 896- 902MHZ RX 935-941TX DC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP05D	457	\$4,658.00
DSD906M, 896- 969MHZ, 4MHZ PB NOTCH MBLE DPLXR, 50 WATT	DBSPECTRA # - DSD906M SPEC SHEET LINK - http://www.dbspectra.com/specifications/096000-063.E_(DSD706M_DSD806M_DSD906M).pdf	DSBSD906M	457	\$863.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
SINGLE CHANEL 900 MHZ AMPLIFIED	TXRX # 26-94D-01-01 SPEC SHEET LINK - http://btgmotorola.securespites.com/Compact%20			

DUPLEXER W/INPUT ISOLATOR AC	Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0101	457	\$4,140.00
TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	TXRX # 26-94D-01-02 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0102	457	\$4,140.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2694D0101	SINGLE CHANEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	457	15
QUOTEDS	TXR	DS2694D0102	TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	457	15
QUOTEDS	DBP	DSBCDUP05A	DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX AC PWR	457	20
QUOTEDS	DBP	DSBCDUP05D	DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX DC PWR	457	20
QUOTEDS	CBN	DSCP01009	DUPLEX05 2CH 900MHZ DUAL CHANNEL DUPLEXER 900 MHZ	457	30
QUOTEDS	CBN	DSCP01011	DUPLEXER 06 1 CHANNEL 900 MHZ	457	30
QUOTEDS	DBP	DSDSD906M	DSD906M, 896-969MHZ, 4MHZ PB NOTCH MBLE DPLXR, 50 WATT	457	20

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Model

900 MHZ TRANSMITTERS/COMBINERS

This page contains parts information for MSI preferred vendors including DBSPECTRA and TXRX.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on TXRX products, please see the [TXRX portal](#) or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For more information on dbSpectra products, please see the [dbSpectra portal](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972 841-4893).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

TXRX WHITE PAPERS ON COMBINER DESIGN

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Primer-on-Directional-Couplers.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Art-of-Combiner-Designs.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Impact-of-Antenna-Isolation-on-Transmit-Combiner.pdf

Configuration

DBSPECTRA PARTS

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Description	Full Description	Nomenclature	APC	Price
DSCC95-01D, 1 CHANNEL CERAMIC COMBINER 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-01D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501D	457	\$2,701.00
DSCC95-02D, 2 CHANNEL TRANSMIT CERAMIC COMBINER, 935-940MHZ, 7/16 DIN	DBSPECTRA PART#: DSCC95-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9502D	457	\$4,925.00
DSCC95-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9503D	457	\$7,005.00
DSCC95-04D, 4 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9504D	457	\$9,474.00
DSCC95-05D, 5 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9505D	457	\$11,698.00
DSCC95-06D, 6 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9506D	457	\$13,503.00
935-940MHZ 7 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	DBSPECTRA PART#: DSCC95-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9507D	457	\$16,247.00
DSCC95-08D, 8 CH 935-940MHZ CERAMIC COMBINER, 150KHZ SEP	DBSPECTRA PART#: DSCC95-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9508D	457	\$18,471.00
935-940MHZ 9 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	DBSPECTRA PART#: DSCC95-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9509D	457	\$20,694.00
935-940MHZ, 10 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9510D	457	\$23,020.00
935-940MHZ, 11 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9511D	457	\$27,399.00
935-940MHZ, 12 CHANNEL CERAMIC TRANSMIT	DBSPECTRA PART#: DSCC95-12D SPEC SHEET LINK:	DSDSCC9512D	457	\$30,015.00

COMBINER WITH 7/16 DIN CONNECT	http://www.dbspectra.com/specifications/DSCC_Series.pdf			
FILTER. 935-941MHZ HIGH POWER TX FILTER WITH DIN CONNECTOR	DBSPECTRA PART#: MWF9AM-D SPEC SHEET LINK: ----- Microsoft Office ----- ----- Opening http://www.dbspectra.com/specifications/096000-224.C_(MWF7AM-D_MWF8AM-D_&_MWF9AM-D_Hi_Pwr_TX_Filter).pdf	DSMWF9AMD	457	\$2,254.00
EXPANSION KIT, SINGLE CHANNEL COMBINER INCL CAVITY, ISOLATOR/LOAD, PHA	DBSPECTRA PART#: DSCC95-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WB	457	\$2,812.00
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC95-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WOB	457	\$2,500.00
DSHC900-05WF, 5 CH HYBRID COMBINER , 935-940MHZ	DBSPECTRA PART#: DSHC900-05WF SPEC SHEET LINK: www.dbspectra.com/specifications/DSHC900-05WF_5-Ch_900_MHz_Hybrid_with_Filter_V1.pdf	DSDSHC90005WF	457	\$13,800.00
896 - 901MHZ MILLED WINDOW FILTER W/CELLULAR NOTCH	DBSPECTRA PART#: MWF9BMCN-N SPEC SHEET LINK: www.dbspectra.com/specifications/096000.244.B_(MWF9BMCN-N_900_MHz_RX_WDO_Filter_with_Cell_Notch).pdf	DSMWF9BMCNN	457	\$2,473.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-60W	TXRX PART#: 21-95-11-2C-T SPEC SHEET LINK: TBD	DS2195112CT	457	\$1,875.00
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-95-11-2D-T SPEC SHEET LINK: TBD	DS2195112DT	457	\$1,917.00
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-60W	TXRX PART#: 21-96-11-2C-T SPEC SHEET LINK: TBD	DS2196112CT	457	\$1,875.00
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-96-11-2D-T SPEC SHEET LINK: TBD	DS2196112DT	457	\$1,917.00
EXPANSION CHANNEL, 926-960 MHZ, T-PASS, 6" DIAMETER 5/4 WAVE CAVITY,	TXRX PART#: 21-96-31-2HF-T SPEC SHEET LINK: TBD	DS2196312HFT	457	\$3,239.00
T PASS TX EXP 940-960 MHZ 6" CAV 5-60W	TXRX PART#: 21-98-11-2C-T SPEC SHEET LINK: TBD	DS2198112CT	457	\$1,875.00
T PASS TX EXP 940-960 MHZ 6" CAV 5-100W	TXRX PART#: 21-98-11-2D-T SPEC SHEET LINK: TBD	DS2198112DT	457	\$1,917.00
COMBINER TX 900MHZ 2CH AIRLINE JUNCTION	TXRX PART#: 44-96-99104-2	DS4496991042	457	\$4,722.00

	SPEC SHEET LINK: TBD			
COMBINER TX 900 MHZ 3 CH AIRLINE JUNCTION	TXRX PART#: 44-96-99104-3 SPEC SHEET LINK: TBD	DS4496991043	457	\$6,316.00
4 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-4 SPEC SHEET LINK: TBD	DS4496991044	457	\$7,863.00
5 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-5 SPEC SHEET LINK: TBD	DS4496991045	457	\$9,098.00
6 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-6 SPEC SHEET LINK: TBD	DS4496991046	457	\$11,094.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2195112CT	T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-60W	457	20
QUOTEDS	TXR	DS2195112DT	T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-100W	457	20
QUOTEDS	TXR	DS2196112CT	T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-60W	457	20
QUOTEDS	TXR	DS2196112DT	T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-100W	457	20
QUOTEDS	TXR	DS2196312HFT	EXPANSION CHANNEL, 926-960 MHZ, T-PASS, 6" DIAMETER 5/4 WAVE CAVITY,	457	20
QUOTEDS	TXR	DS2198112CT	T PASS TX EXP 940-960 MHZ 6" CAV 5-60W	457	20
QUOTEDS	TXR	DS2198112DT	T PASS TX EXP 940-960 MHZ 6" CAV 5-100W	457	20
QUOTEDS	TXR	DS4496991042	COMBINER TX 900MHZ 2CH AIRLINE JUNCTION	457	20
QUOTEDS	TXR	DS4496991043	COMBINER TX 900 MHZ 3 CH AIRLINE JUNCTION	457	20
QUOTEDS	TXR	DS4496991044	4 CHANNEL SERIES AIRLINE JUNCTION COMBINER	457	20
QUOTEDS	TXR	DS4496991045	5 CHANNEL SERIES AIRLINE JUNCTION COMBINER	457	20
QUOTEDS	TXR	DS4496991046	6 CHANNEL SERIES AIRLINE JUNCTION	457	20

			COMBINER		
QUOTEDS	DBP	DSDSCC9501D	DSCC95-01D, 1 CHANNEL CERAMIC COMBINER 935-940MHZ, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC9501WB	EXPANSION KIT, SINGLE CHANNEL COMBINER INCL CAVITY, ISOLATOR/LOAD, PHA	457	20
QUOTEDS	DBP	DSDSCC9501WOB	EXPANSION KIT, CERAMIC FILTER	457	20
QUOTEDS	DBP	DSDSCC9502D	DSCC95-02D, 2 CHANNEL TRANSMIT CERAMIC COMBINER, 935-940MHZ, 7/16 DIN	457	20
QUOTEDS	DBP	DSDSCC9503D	DSCC95-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC9504D	DSCC95-04D, 4 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	457	20
QUOTEDS	DBP	DSDSCC9505D	DSCC95-05D, 5 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC9506D	DSCC95-06D, 6 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	457	20
QUOTEDS	DBP	DSDSCC9507D	935-940MHZ 7 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	457	20
QUOTEDS	DBP	DSDSCC9508D	DSCC95-08D, 8 CH 935-940MHZ CERAMIC COMBINER, 150KHZ SEP	457	20
QUOTEDS	DBP	DSDSCC9509D	935-940MHZ 9 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	457	20
QUOTEDS	DBP	DSDSCC9510D	935-940MHZ, 10 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	457	20
QUOTEDS	DBP	DSDSCC9511D	935-940MHZ, 11 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	457	20
QUOTEDS	DBP	DSDSCC9512D	935-940MHZ, 12 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	457	20
QUOTEDS	DBP	DSDSHC90005WF	DSHC900-05WF, 5 CH HYBRID COMBINER , 935- 940MHZ	457	20
QUOTEDS	DBP	DSMWF9AMD	FILTER. 935-941MHZ HIGH POWER TX FILTER WITH DIN CONNECTOR	457	20
QUOTEDS	DBP	DSMWF9BMCNN	896 - 901MHZ MILLED WINDOW FILTER W/CELLULAR NOTCH	457	20

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MODEL

900 MHz CONTROL STATION ANTENNAS

This page contains parts information for MSI preferred vendors including Amphenol Procom, RFI and DBSPECTRA.

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https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

ORDERING INFORMATION

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com (815-218-8000).

For RFI product information, go to the RFI [website](#), or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL PROCOM ANTENNA PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

Configuration

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/l. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWL	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-950 MHZ	AMPHENOL PART#: CXL 900-1LW/m. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWM	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h. Brackets included. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWH	351	\$187.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
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900 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS9A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS9A03CS36UN	351	\$1,006.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS9A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS9A03CS36DN	351	\$1,938.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS9A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B00CS36DN_DS8A00CS36DN_DS9A00CS36DN.pdf	DSDS9A00CS36DN	351	\$1,093.00
890-960MHZ UNITY GAIN CONTROL STATION ANTENNA	DBSPECTRA PART#: DS9A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A00CS36UN_DS8A03CS36UN_DS9A00CS36UN_DS9A03CS36UN.pdf	DSDS9A00CS36UN	351	\$794.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 850-960 MHZ	RFI# COD8-8596 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD88596	351	\$530.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	RFA	DSCOD88596	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 850-960 MHZ	351	40
QUOTEDS	APP	DSCXL9001LWH	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	351	30
QUOTEDS	APP	DSCXL9001LWL	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	351	30
QUOTEDS	APP	DSCXL9001LWM	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-950 MHZ	351	30
QUOTEDS	DBJ	DSDS9A00CS36DN	890-960 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS9A00CS36UN	890-960MHZ UNITY GAIN CONTROL STATION ANTENNA	351	25
QUOTEDS	DBJ	DSDS9A03CS36DN	890-960 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS9A03CS36UN	900 CONTROL STATION ANTENNA, 3 DBD	351	25

QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

SHIP CARD

Model

911

"For Plant Equipment Information please go to the following Compass web site"

<http://compass.mot.com/plant911> or through EYE's under Product/System Information, Dispatch Solution, VESTA E9-1-1

VESTA Pallas Sales Tools Kit can also be order through Literature Distribution Center under RO-13-2003

Ordering Information

General Information**MODEMS:****ALI MODEM (REMOTE DATA):**

4911S modem used to connect ALI Controller to remote ALI database and to send data to secondary PSAP terminals or printers using dedicated phone lines. If not provided by the telephone company, a PAIR (2) of these are required at the PSAP for ALI Controller/Remote Database. (May require Expansion ALI software and/or additional Serial Port Panel.)

Ship Card

Data Not Available

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

SHIP CARD

Model

INTRADO 911 MANAGED SERVICES

Ordering Information

Executive Summary

Motorola Solutions has partnered with Intrado to provide IP connectivity and 24/7 monitoring services.

This service provides for the transition from traditional telephone lines to an IP connection based 911 System. As part of the service beyond the connection transition, this service provide for the monitoring of the 911 network for proper operation and connectivity.

Product Description Overview

Overview

Motorola 911 Routing, Location and Text services are high level services offered by Motorola Solutions through Motorola Solutions' partnership with Intrado.

Motorola shops will provide installation assistance on the pre-configured routers and switches provided by Intrado. The Motorola shops will also provide on-site support as required by Intrado.

Features

MOTOROLA 911 Routing Service	MOTOROLA 911 Location Data Service	Motorola 911 Text Service
Provides emergency call delivery over a managed internet protocol network that includes a multi-layer redundant Internet protocol network architecture for high system availability provided through Intrados' Emergency Services IP Network (ESINet).	Provides hosted location and Customer information database systems and 9-1-1 data management services	A fully managed solution offering emergency delivery of SMS over an IP network.
Supports routing of 9-1-1 calls from both traditional and next generation voice networks.		

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

All SOW's can be found below at the [3PV WIKI](#) and will also be loaded and linked to the appropriate models in Services Life Cycle (SLC)

- [Motorola 911 Location Data Management Service - Intrado Managed SOW](#)
- [Motorola 911 Routing Service Description - Intrado Managed SOW](#)
- [Motorola 911 Texting Service - Intrado Managed SOW](#)

NOTE: The terms and conditions of all Statement of Works (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Ordering Requirements

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application (SLC). Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of products. To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.

Contract Creation Information & Resources

Intrado Managed services must be quoted by Intrado before any contract is generated. The service will then be entered in SLC. Pricing will be entered manually in SLC using the provided quote agreed upon by MSI, Intrado & client. The following documentation will be required:

Customer Support Plan - CSP

Statement of Work - SOW

Supplier Notification of Subcontract - SNS

All necessary documents and ordering resources can be found at the following [3PV Wiki Page](#)

NOTE: Services **MUST** be quoted by Intrado first. Pricing will be entered manually. Please refer to the How to Order Guide for detailed instructions

Site, Site ID & Technology Information

Site Information

- Any current Astro25 site may be used for contract creation (Master, Remote, Prime, and/or Dispatch)

Site ID Prefixes:

- A or SZ – The standard Astro25 format should be used for New & Existing customers.

Technology: All Sites should use the appropriate Astro25 technology release in order to build Install Base and price all SLC Contracts correctly.

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO 25 Advanced Messaging Solution Ordering Information

Ordering Information

General Information

Motorola Solutions, Inc. announces the transition of the ASTRO® 25 Advanced Messaging Solution (AMS) from its own standalone platform to the new ASTRO® 25 AMS within the Intelligent Middleware (IMW - formerly known as UNS or Unified Network Services) Messaging service platform. This means that AMS will become an application with the server software residing on the IMW Messaging service platform. This will take effect as of September 30, 2016.

Ordering Requirements

IMPORTANT: The AMS A1 and A2 models will no longer be available for new orders after September 30, 2016. After that time, all new orders for AMS messaging only will need to be transitioned to the new Intelligent Middleware (IMW - formerly known as UNS) Messaging service platform R5.2 and later. Refer to IMW (UNS) prices pages for ordering and pricing [UNS](#).

For existing AMS customers this AMS price page will still be used for upgrades and expansions (add-ons), see bottom of this page. Contact your regional sales enablement or pre-sales / field engineering team for the AMS release specific lifecycle ordering and support plan.

IMPORTANT NOTE: For any A3 configuration integrated with PremierOne CAD the Field Engineering team MUST contact the Applications (SPSS) Pre-Sales System Architect team to co-architect / engineer the solution and approve the equipment list before a quote is provided to the customer. Contact leo.marroquin@motorolasolutions.com (956-631-3777) or Devery.Thumann@motorolasolutions.com

Configuration

UPGRADE and EXPANSIONS For AMS A1 and A2 Only

The following information is intended only for the upgrade and/ or expansion of existing, and fielded, Advanced Messaging Solution (AMS) A1 or A2 non HA systems.

Upgrades - A1 and A2 Non HA configuration only

Required - order One T8161A then the desired "CA" add option(s).

Description	Full Description	Nomenclature	APC	Price
AMS SOFTWARE UPGRADES	-	T8161	068	\$0.00
ADD: TALK GROUP MESSAGING	Must order exact same quantity of CA03066AA AND T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher.	CA03066AA	068	\$500.00
ADD: LATEST AMS SERVER APP SW (MESSAGING)	-	CA03067AA	068	\$7,500.00
ADD: LATEST AMS SERVER APP SW (MESSAGING AND QUERY)	-	CA03068AA	068	\$15,000.00
ADD: LATEST MICROSOFT OS SERVER SW FOR AMS A1	-	CA03069AA	068	\$1,920.00
ADD: LATEST MICROSOFT OS SERVER SW FOR AMS A2	-	CA03070AA	068	\$2,694.00
ADD:LATEST MICROSOFT SQL SW FOR AMS A1	-	CA03072AA	068	\$4,445.00
ADD: LATEST MICROSOFT SQL SW FOR AMS A2	-	CA03073AA	068	\$8,895.00
ADD: LATEST SMART CLIENT APP SW	Requires upgrade to the latest AMS Server App Software to also be ordered. (cannot run latest Smart Client SW on an older AMS Server App SW release)	CA03071AA	068	\$780.00
WINDOWS 7 64B EMB MEDIA / LICENSE	-	DSWIN764EMB	708	\$235.00

NOTE: Talk Group Messaging option REQUIRES ordering a dedicated MCC 7100 Gateway Console for AMS. Click [MCC 7100](#) for price page.

Upgrades - A2 HA configuration:

Note: for A2 High Availability and A3 configurations contact the SPSS Pre-Sales Engineering Team for quote and ordering information.

Contacts: leo.marroquin@motorolasolutions.com or Devery.Thumann@motorolasolution

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,AMS TALK GROUP MESSAGING -	Must order exact same quantity of TT2869 that matches customers quantity of T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher	TT2869	068	\$500.00

NOTE: Talk Group Messaging option **REQUIRES** ordering a dedicated MCC 7100 Gateway Console for AMS. Click [MCC 7100](#) for price page.

Description	Full Description	Nomenclature	APC	Price
AMS SOFTWARE UPGRADES	-	T8161	068	\$0.00
ADD: LATEST SMART CLIENT APP SW	Requires upgrade to the latest AMS Server App Software to also be ordered. (cannot run latest Smart Client SW on an older AMS Server App SW release)	CA03071AA	068	\$780.00

Expansion

Description	Full Description	Nomenclature	APC	Price
ADVANCED MESSAGING SOLUTION (AMS) RADIO LICENSES	-	T8173	068	\$0.00
ADD: A1 RADIO LICENSE ACCESS TO AMS SERVICES MESSAGING ONLY	One time license fee for EACH Portable Radio that will have access to Messaging Service.	CA02797AA	068	\$60.00
ADD: A2 RADIO LICENSE ACCESS TO AMS SERVICES MESSAGING ONLY	One time license fee for EACH Portable Radio that will have access to	CA02799AA	068	\$60.00

	Messaging Service.			
AMS SMART CLIENT EXPANSION	-	T8397	068	\$0.00
ADD: AMS R4.0 SMART CLIENT SW EXPANSION	-	CA03144AA	068	\$2,600.00
ADD: AMS R4.1 SMART CLIENT SW EXPANSION	-	CA03145AA	068	\$2,600.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	PCW	DSWIN764EMB	WINDOWS 7 64B EMB MEDIA / LICENSE	708	15
FIXEDSTN	SCB	T8161	AMS SOFTWARE UPGRADES	068	54
DRPSHP	SCB	T8173	ADVANCED MESSAGING SOLUTION (AMS) RADIO LICENSES	068	3
FIXEDSTN	SCB	T8397	AMS SMART CLIENT EXPANSION	068	45
QUOTEDS	PSX	TT2869	SOFTWARE,AMS TALK GROUP MESSAGING -	068	40

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JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model****ACE 1000 RTU****Ordering Information****Features**

Motorola Radio Support (Digital Trunked ASTRO, Digital MOTOTRBO, TETRA)

- Easy-Programming Tool
- RTC Back-up Battery
- 256 MB of FLASH Memory
- IECEX/ ATEX - EXnA IIC T4 (Cat 3/Zone 2)*
- 256 MB of RAM Memory
- 9-30 VDC Input Voltage Range
- Sleep/Low-power Mode
- 3rd Party Modem Support

General Information

Designed for a wireless environment, the ACE1000 assures reliable communications over RF, LAN/WAN networks, so you can be sure your data is being transferred securely. The ACE1000 allows RTU-central and RTU-RTU communications, along with a Store & Forward feature (when supported by infrastructure) which can be used to pass messages between RTUs in the system, so you don't have to purchase additional repeaters or expensive

antennas. Its communication flexibility gives you the freedom to customize your system that's easy on your budget.

Configuration

UMP TO ...

ACE 1000 RTU Models

Description	Full Description	Nomenclature	APC	Price
MC IOT MAIN MODEL	-	F0016	275	\$0.00
ACE 1000 CPU 1011 MODULE ATEX	-	F5209	275	\$1,075.00
ACE 1000 CPU 1012 MODULE ATEX W/ RTC BATTERY	-	F0026	275	\$1,095.00

ACE1000 Mandatory Options

If F0016 is selected the following option must be added

Description	Full Description	Nomenclature	APC	Price
ADD: ACE1000	-	VA01371AA	275	\$875.00

ACE 1000 RTU Options

CPU Plug-in Board (Optional - VA00006 compatible with F0016A only, not compatible with F0026A and F5209A)

Description	Full Description	Nomenclature	APC	Price
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00
ADD: 2XRS-232 PORT PLUG-IN BOARD ATEX	-	VA00046	275	\$215.00
ADD: MICROHARD N920 PLUG-IN	-	VA00144	275	\$210.00

BOARD				
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DIN Rail Installation Kit, Module Covers (Optional - Compatible with F0016A)

Description	Full Description	Nomenclature	APC	Price
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00

I/O Modules (Order up to 2 modules)

Description	Full Description	Nomenclature	APC	Price
ADD: 12DI/8AI HW ONLY NO LIC	-	VA00150	275	\$595.00
ADD: 8DO/2AO HW ONLY NO LIC	-	VA00149	275	\$575.00
ADD:MIXED IO 7DI/6DO/1AO/3AI HW ONLY NO LIC	-	VA00599	275	\$595.00

If VA00150AA Ordered, Order an Equal Quantity of I/O Specification Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0 - 20MA DI/AI	-	VA00152	275	\$0.00
ADD: 0 - 5V DI/AI	-	VA00151	275	\$0.00

Continue to the Power Supply Options section below....

ACE 1100 FEP Model

Description	Full Description	Nomenclature	APC	Price
ACE 1100 - FEP MODULE	-	F0043	275	\$1,600.00

ACE 1100 FEP Options

ACE 1100 FEP Operation (Required)

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Description	Full Description	Nomenclature	APC	Price
ADD: ACE1000 FEP OPERATION	-	VA00154	275	\$0.00
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00
ADD: MICROHARD N920 PLUG-IN BOARD	-	VA00144	275	\$210.00

CPU Plug-in Board is standard equipment/automatically included on F0043A

DIN Rail Installation Kit, Module Covers (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00

Power Supply Options

Power Supplies are not compatible with ATEX RTU Models F5209A and F0026A - order the Power Supply Cable for connecting a DC power source to the ATEX RTU Models

Power Supply Options (Power Supplies are not available for the State of California. See ordering guide for details.)

Description	Full Description	Nomenclature	APC	Price
ADD: AC POWER SUPPLY 24V / 120W DC OUTPUT	-	VA00130	275	\$225.00
ADD: AC POWER SUPPLY UNIT 12V / 5A DC OUTPUT	-	VA00009	275	\$225.00
ADD:DC POWER CABLE	-	VA00155	275	\$10.00

Radio Options

To order a radio, select one Radio System Option and one Radio Equipment Option.

Included when Radio Options, Wall Mount Installation Kit, and a Power Supply Option

are ordered.

Radio Options are not compatible with ATEX RTU models F5209A and F0026A.

Radio System Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00159	275	\$370.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$370.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,200.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,200.00

Radio Platform Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: VHF MOBILE RADIO	-	VA00160	275	\$500.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$500.00
ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$500.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$500.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$500.00

Radio Installation Kit Options

Radio Installation Kit options should be ordered when the APX6500 or XPR5000 radio equipment is already available to the end customer or application integrator. These options cannot be ordered with the Radio Options.

Included when Radio Installation Kit, Wall Mount Installation Kit, and a Power Supply Option are ordered.

Radio Installation Kits are not compatible with ATEX RTU models F5209A and F0026A.

Radio Installation Kits (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 DIGITAL ACE 1000 INSTALLATION KIT	-	VA00588	275	\$160.00
ADD: XPR 5000 DIGITAL ACE 1000 INSTALLATION KIT	-	VA00590	275	\$160.00
ADD: XPR 5000 CONNECT PLUS ACE 1000 INSTALLATION KIT	-	VA00592	275	\$160.00

Software

Software License Options

If needed Software add-ons should be ordered now, it cannot be added later in this field.

Description	Full Description	Nomenclature	APC	Price
ADD: DNP3 MASTER LICENSE	-	VA00593	275	\$100.00
ADD: DNP3 SLAVE LICENSE	-	VA00594	275	\$100.00
ADD: CODESYS IEC 61131 LICENSE	-	VA00595	275	\$100.00

Latest ACE 1000 Firmware and Software disc images are available on Motorola Online

Accessories

Description	Full Description	Nomenclature	APC	Price
ADD: I/O MODULE EXTRACTOR TOOL	-	VA00153	275	\$10.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
TERMINAL BLOCK MALE 2 PIN 5 MM	-	FHN0063	275	\$10.00
MTM5200 INSTALLATION KIT	-	FLN0043	085	\$160.00

ACE1000 CABLE,BATTERY ELIMINATOR POWER	-	FKN8802A	085	\$30.00
GROUND CABLE	-	FKN0034	275	\$10.00
ACE1000 MICROHARD N920 PLUG-IN BOARD	-	FLN0109	275	\$210.00
TERMINAL BLOCK MALE 4 PIN 3.5MM	-	FHN0064	275	\$15.00
RS-232 DATA CABLE	-	FKN0022	275	\$50.00
DIN RAIL 26 CM	-	FHN0054	275	\$14.00
DIN RAIL STOPPER	-	FHN0057	275	\$10.00
MTM5200 DATA CABLE	-	FKN0027	275	\$50.00
APX4000 INSTALLATION KIT	-	FLN0042	275	\$150.00
MOBILE RADIO DC CABLE 10FT	-	FKN0036	275	\$30.00
RJ45 TO RJ45 EXTENSION CABLE 1500MM	-	FKN8803A	085	\$50.00
CPU PANEL COVER	-	FHN0058	275	\$10.00
TERMINAL BLOCK MALE 3 PIN 5 MM	-	FHN0062	275	\$10.00
APX3000/4000 DATA CABLE	-	FKN0025	275	\$95.00
DIN RAIL 45 CM	-	FHN0056	275	\$20.00
SD COVER	-	FHN0060	275	\$10.00
12DI/8AI MODULE +/- 20MA	-	FLN0050	275	\$650.00
AC POWER SUPPLY 12V/120W DC OUT	-	FLN0096	275	\$225.00
RJ50 I/O MODULE CABLE	-	FHN0065	275	\$15.00
DC POWER CABLE	-	FKN0033	275	\$75.00

AC POWER SUPPLY 24V/120W DC OUT	-	FLN0101	275	\$225.00
APX6500 INSTALLATION KIT	-	FLN0100	275	\$160.00
TERMINAL BLOCK CONNECTIOR EXTARCTOR	-	FKN0024	275	\$10.00
RS-485 PORT 120 OHM TERMINATION CABLE	-	FKN0030	275	\$110.00
8DO/2AO MODULE +/- 20MA, 5V	-	FLN0052	275	\$650.00
APX 3000/4000 BATTERY ELIMINATOR BOARD	-	FLN1058	085	\$150.00
TERMINAL BLOCK MALE 10 PIN 5MM	-	FHN0061	275	\$20.00
12DI/8AI MODULE +/- 20MA ATEX	-	FLN0053	275	\$700.00
XPR5350 INSTALLATION KIT	-	FLN0093	275	\$160.00
I/O MODULE CONNECTOR COVER	-	FHN0059	275	\$10.00
2XRS-232 PORT / AUX POWER PLUG-IN BOARD	-	FLN0048	275	\$250.00
12DI/8AI MODULE +/- 5V ATEX	-	FLN0054	275	\$700.00
12DI/8AI MODULE +/- 5V	-	FLN0051	275	\$650.00
XPR5350/80 CONNECT PLUS INSTALLATION KIT FOR ACE1000	-	FLN0115A	085	\$160.00
XPR 5350 USB CABLE	-	FKN0026	275	\$110.00
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	085	\$110.00
2XRS-232 PORT PLUG-IN BOARD ATEX	-	FLN0049	275	\$215.00
8DO/2AO MODULE +/- 20MA/5V ATEX	-	FLN0055	275	\$700.00
MIXED IO CURRENT	-	FLN0116	275	\$750.00

APX6500 DATA CABLE	-	FKN0035	275	\$75.00
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Radio Models

Description	Full Description	Nomenclature	APC	Price
XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	085	\$850.00
XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	085	\$850.00
XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	085	\$850.00
APX6500 136-174 MHZ (A+D)	-	FUD1041A	085	\$3,000.00
APX6500 380-470 MHZ (A+D)	-	FUE1250A	085	\$3,000.00
APX6500 450-520MHZ (A+D)	-	FUE1251A	085	\$3,000.00
APX6500 700/800 MHZ (A+D)	-	FUF1201A	085	\$3,000.00

For more information about ACE 1000 equipment, please visit the following Site.

[Motorola Solution IIoT](#)

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ALARMCONT	ISR	F0016	MC IOT MAIN MODEL	275	51

ALARMCONT	ISR	F0016	MC IOT MAIN MODEL	275	51
ALARMCONT	MGK	F0026	ACE 1000 CPU 1012 MODULE ATEX W/ RTC BATTERY	275	40
ALARMCONT	MGK	F0026	ACE 1000 CPU 1012 MODULE ATEX W/ RTC BATTERY	275	40
ALARMCONT	ISR	F0043	ACE 1100 - FEP MODULE	275	22
ALARMCONT	ISR	F0043	ACE 1100 - FEP MODULE	275	22
ALARMCONT	MGK	F5209	ACE 1000 CPU 1011 MODULE ATEX	275	40
ALARMCONT	MGK	F5209	ACE 1000 CPU 1011 MODULE ATEX	275	40
ALARMCONT	ISR	FHN0054	DIN RAIL 26 CM	275	13
ALARMCONT	ISR	FHN0056	DIN RAIL 45 CM	275	28
ALARMCONT	ISR	FHN0057	DIN RAIL STOPPER	275	28
ALARMCONT	ISR	FHN0058	CPU PANEL COVER	275	15
ALARMCONT	ISR	FHN0059	I/O MODULE CONNECTOR COVER	275	15
ALARMCONT	ISR	FHN0060	SD COVER	275	28
ALARMCONT	ISR	FHN0061	TERMINAL BLOCK MALE 10 PIN 5MM	275	28
ALARMCONT	ISR	FHN0062	TERMINAL BLOCK MALE 3 PIN 5 MM	275	28
ALARMCONT	ISR	FHN0063	TERMINAL BLOCK MALE 2 PIN 5 MM	275	28
ALARMCONT	ISR	FHN0064	TERMINAL BLOCK MALE 4 PIN 3.5MM	275	28
ALARMCONT	ISR	FHN0065	RJ50 I/O MODULE CABLE	275	28
ALARMCONT	ISR	FKN0022	RS-232 DATA CABLE	275	28
ALARMCONT	ISR	FKN0024	TERMINAL BLOCK CONNECTOR	275	28

			EXTARCTOR		
ALARMCONT	ISR	FKN0025	APX3000/4000 DATA CABLE	275	12
ALARMCONT	ISR	FKN0026	XPR 5350 USB CABLE	275	28
ALARMCONT	ISR	FKN0027	MTM5200 DATA CABLE	275	28
ALARMCONT	ISR	FKN0030	RS-485 PORT 120 OHM TERMINATION CABLE	275	28
ALARMCONT	ISR	FKN0033	DC POWER CABLE	275	28
ALARMCONT	ISR	FKN0034	GROUND CABLE	275	28
ALARMCONT	ISR	FKN0035	APX6500 DATA CABLE	275	20
ALARMCONT	ISR	FKN0036	MOBILE RADIO DC CABLE 10FT	275	28
ALARMCONT	ISR	FKN0040A	DATA CABLE FOR CONNECT PLUS	085	28
ALARMCONT	ISR	FKN8802A	ACE1000 CABLE,BATTERY ELIMINATOR POWER	085	28
ALARMCONT	ISR	FKN8803A	RJ45 TO RJ45 EXTENSION CABLE 1500MM	085	28
ALARMCONT	ISR	FLN0042	APX4000 INSTALLATION KIT	275	8
ALARMCONT	ISR	FLN0043	MTM5200 INSTALLATION KIT	085	28
ALARMCONT	ISR	FLN0048	2XRS-232 PORT / AUX POWER PLUG-IN BOARD	275	14
ALARMCONT	ISR	FLN0049	2XRS-232 PORT PLUG-IN BOARD ATEX	275	28
ALARMCONT	ISR	FLN0050	12DI/8AI MODULE +/- 20MA	275	10
ALARMCONT	ISR	FLN0051	12DI/8AI MODULE +/- 5V	275	28
ALARMCONT	ISR	FLN0052	8DO/2AO MODULE +/- 20MA, 5V	275	10

ALARMCONT	ISR	FLN0053	12DI/8AI MODULE +/- 20MA ATEX	275	28
ALARMCONT	ISR	FLN0054	12DI/8AI MODULE +/- 5V ATEX	275	28
ALARMCONT	ISR	FLN0055	8DO/2AO MODULE +/- 20MA/5V ATEX	275	28
ALARMCONT	ISR	FLN0093	XPR5350 INSTALLATION KIT	275	19
ALARMCONT	ISR	FLN0096	AC POWER SUPPLY 12V/120W DC OUT	275	28
ALARMCONT	ISR	FLN0100	APX6500 INSTALLATION KIT	275	4
ALARMCONT	ISR	FLN0101	AC POWER SUPPLY 24V/120W DC OUT	275	21
ALARMCONT	ISR	FLN0109	ACE1000 MICROHARD N920 PLUG-IN BOARD	275	37
ALARMCONT	ISR	FLN0115A	XPR5350/80 CONNECT PLUS INSTALLATION KIT FOR ACE1000	085	28
ALARMCONT	ISR	FLN0116	MIXED IO CURRENT	275	34
ALARMCONT	ISR	FLN1058	APX 3000/4000 BATTERY ELIMINATOR BOARD	085	28
ALARMCONT	ISR	FUD1040A	XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	085	18
ALARMCONT	ISR	FUD1041A	APX6500 136-174 MHZ (A+D)	085	7
ALARMCONT	ISR	FUD1041A	APX6500 136-174 MHZ (A+D)	085	7
ALARMCONT	ISR	FUE1077A	XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	085	20
ALARMCONT	ISR	FUE1250A	APX6500 380-470 MHZ (A+D)	085	23
ALARMCONT	ISR	FUE1251A	APX6500 450-520MHZ (A+D)	085	15
ALARMCONT	ISR	FUF1200A	XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	085	20

ALARMCONT	ISR	FUF1201A	APX6500 700/800 MHZ (A+D)	085	24
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Model



**ACE3600
REMOTE TERMINAL UNIT**



Ordering Information

General Information

ACE3600 is a state-of-the-art high performance Remote Terminal Unit (RTU) with exceptional communication capability. The unit is designed to provide scalability and modularity to optimize the performance of any control system. The unit's™ rugged design offers compliance for the requirements of most demanding SCADA system environments. Motorola has developed this innovative RTU to provide a cost effective RTU solution by minimizing the installation and configuration time.

Main Features:

- **Power PC based processor provides very high performance**
- **VX-Works based real-time operating systems**
- **Up to three 10/100 MB Ethernet ports**
- **Up to four serial communication ports**
- **Up to two radio modem ports**
- **0, 2, 3, 5, 7 or 8 I/O slot wall mount frames; 19" rack mount on 0, 3, 5, 7 or 8 I/O slot frame**
- **Supports up to 13 expansion frames, for a total of 110 I/O modules**
- **Single and double density I/O modules**

- Hot-Swap I/O replacement
- Wide temperature range -40 to +70 ° C (RTU only, not radio)
- NEMA 4X / IP56 Housing, 40 x 40 cm and 50 x 50 cm
- Two-way/trunking radio models
- AC and DC controlled power supply
- 6.5 or 10 Ah Backup battery, smart battery charger
- GPS receiver support for time synchronization
- System building tool for configuration and programming
- Remote firmware and program download
- Compatible to MOSCAD family of RTUs

Ordering Requirements

As a general rule, ordering ACE3600 should follow this pattern:

Main RTU Frame

1. Select Communications Type

- 1a. Select with or without radio
- 1b. Select radio type (conventional, analog, or digital trunking)
- 1c. Select radio band and model (UHF, VHF, 800 MHz)

2. Select the number of required I/O slots on the main frame (2, 3, 5, 7, or 8)

3. Select I/O modules for the main frame

4. Select the Expansion LAN switch module if more than 1 expansion frame is required

5. Select installation type

- 5a. Select with or without housings/chassis
- 5b. Select housing/chassis size

6. Select power supply/battery

7. Select CPU Type and CPU Plug-ins (RS-232, ethernet, etc.)

8. Select accessories, software licenses, installation kits and miscellaneous items (cables, brackets, adapters)

I/O Expansion Frame (this step is optional)

1. Select F7510

2. Select the number of required I/O slots on the expansion frame (2, 3, 5, 7, or 8)

3. Select I/O modules for the expansion frame

4. Select installation type

- 4a. Select with or without housings/chassis
- 4b. Select housing/chassis size

5. Select power supply/battery

6. Select LAN cable

Additionally, the following items need to be considered when ordering the ACE3600 RTU:

1. All orders must list the RTU Model (F75XX) as a main line item.
2. The default frame for the F7509A model is No I/O Slots Frame (CPU and PS slots only). To change to 2, 3, 5, 7 or 8 I/O slots, add the required frame

- option to the order (V102, V103, V104, V105, V107 or V108).
3. The only chassis option for the 2 I/O slots frame is the Small Metal Chassis (V229).
 4. Installation on 19" rack requires ordering 19" metal back and rack brackets option (V120 and V051). If V269 is used, 2 V051 units are required.
 5. For installation when radio and/or battery and/or accessory are required with 8 I/O slots, V269 metal chassis is required. To install V269 on 19" rack option, the 19" metal bracket option (V051) is required.
 6. The default power supply for the RTU (not for the F7510 expansion frame) is DC 10.8-15.5 V (12 V DC PS). To change the power supply type, add the required power supply option to the order.
 7. The default CPU module is CPU3640. To change to CPU3680, add V448.
 8. When I/O expansion is required, the main RTU must include either the CPU3640 or the CPU3680.
 9. Radio options and orders that include battery option or accessories option (such as RS-485 Junction Box) must be ordered with metal chassis or housing options (mandatory).
 10. F7510 (I/O Expansion frame) includes expansion module (expansion CPU), expansion power supply (10.8 - 16 V DC), and expansion cable. To change the power supply, add the appropriate power supply option.
 11. For connecting a single expansion frame, use the crossed LAN cable (3 meter length).
 12. If more than 1 expansion frame will be installed per RTU, the expansion LAN switch module is required. It occupies an I/O module slot on the main RTU. The LAN switch module includes the 60 cm LAN cable for connection to the main CPU.
 13. The expansion LAN switch supports 7 expansion frames. If 8 or more expansion frames are required (up to a maximum of 13 expansion frames), a second expansion LAN switch must be added.

ACE3600 Software Tools and Radio CPS Available for Download from Motorola Online, Resource Center

The System Tool Suite (STS) is a software program that runs on a PC computer with Windows 2003 server or Windows XP operating systems. It is used to configure the ACE3600 RTU to the exact requirements of the system and to monitor system operations.

ACE3600 C Tool Kit (CTK) is a C function library required for programming the ACE 3600 in C programming language.

ACE3600 System Planner, Owner's Manual, and all other documentation available for Download from Motorola Online, Resource Center

The System Tool Suite (STS) is a software program that runs on a PC computer with Windows 2003 server or Windows XP operating systems. It is used to configure the ACE3600 RTU to the exact requirements of the system and to monitor system operations.

Configuration

MODELS

Note B - ACE built-in radio models are not currently available to European Union (EU) countries. Radios and installation kits can be shipped separately.F7509

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	085	\$1,200.00

Expansion Frame :

Description	Full Description	Nomenclature	APC	Price
ACE3600 EXPANSION CPU, POWER SUPPLY AND MOUNTING	-	F7510	085	\$900.00

CPU Modules :

Description	Full Description	Nomenclature	APC	Price
ACE3600 IP GATEWAY CPU4600	ACE3600 IP Gateway firmware loaded on the CPU module with on board RS-232 port , RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7507	085	\$4,500.00
ACE3600 CPU3680	CPU module only with on board RS-232 port , RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7508	085	\$1,250.00
ACE3600 MID TIER CPU, 3640	CPU module only with on board RS-232 port , RS-232/485 port and 10/100 Mbps Ethernet port. Up to two optional plug-in ports.	F7502	085	\$1,000.00

OPTIONS

Add options as defined in the System Planner.

Radio Options

Order one of the following Radio System Family options with one Radio Platform option. Appropriate radio installation kit is included.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 ANALOG CONVENTIONAL	-	VA00198	275	\$1,800.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$370.00
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00159	275	\$370.00
ADD: ASTRO 25 ANALOG TRUNKING	-	VA00199	275	\$1,800.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,200.00
ADD: MOTOTRBO ANALOG CONVENTIONAL	-	VA00194	275	\$370.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,200.00

One of the following Radio Platform options is required when a Radio System Family option is ordered.VA00160

Description	Full Description	Nomenclature	APC	Price
ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$500.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$500.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$500.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$500.00
ADD: VHF MOBILE RADIO	-	VA00160	275	\$500.00

Radio Installation Kits

The F7509 can be ordered with the following radio installation kits

Description	Full Description	Nomenclature	APC	Price
ADD: HT750/GP320/GP328 /PRO5150 INST. KIT	Includes radio modem plug-in.	V154	085	\$270.00
ADD: XTL5000/2500 ANALOG INSTALLATION KIT	Includes radio modem plug-in.	V157	085	\$250.00
ADD: CDM750 INSTALLATION KIT	-	V143	085	\$275.00
ADD: CM200/CM140/EM200/GM3188 INSTALLATION KIT	Includes radio modem plug-in.	V148	085	\$275.00
APX6500 DIGITAL INSTALLATION KIT	-	VA00125	085	\$300.00
XPR4350/DM3400/XIR M8220/DGM4100 RADIO INSTALLATION KIT	RTU must have CPU 3680 for this option.	V682	085	\$190.00
ADD: XPR 5000 ANALOG ACE 3600 INSTALLATION KIT	-	VA00596	085	\$308.00
ADD: ACE3600 XTS 2500 INSTALLATION KIT	Includes Brackets, cables and mounting H/W This Option is orderable only with the F7509. This option must be ordered with a Metal chassis or housing option.	V156	085	\$260.00
RS-485 JUNCTION BOX	Includes one FKN8427 cable; order additional cables as V440 from MOSCAD Accessories. Incompatible with V184 and all Modem options unless a rack mount option is available and also ordered (refer to the	V186	085	\$150.00

	Product Planner for assistance).			
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The following radio installation kits will begin shipping August 1 2015

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 ANALOG ACE 3600 INSTALLATION KIT	-	VA00587	275	\$420.00
ADD: XPR 5000 CONNECT PLUS ACE 3600 INSTALLATION KIT	-	VA00591	275	\$204.00
ADD: XPR 5000 DIGITAL ACE 3600 INSTALLATION KIT	-	VA00589	085	\$240.00

Frames

The default basic frame includes slots for power supply and CPU modules (no I/O slots). Order one of the following options so that the frame configuration supports the required I/O slots.V102

Description	Full Description	Nomenclature	APC	Price
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	085	\$130.00
ADD: 5 I/O SLOTS FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V105	085	\$185.00
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does	V108	085	\$385.00

	not provide mounting room for radio, battery or other accessories; if that space is needed order V269.			
ADD: ACE3600 REDUNDANCY	Includes frame, redundant CPU3680, space for 4 I/O modules and space for a redundant power supply. If redundant power supply is required, order V275.	VA00433	085	\$1,700.00
ADD: 3 I/O SLOTS FRAME	Fits all chassis and housing sizes. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V103	085	\$75.00
ADD: 7 I/O SLOT FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V107	085	\$325.00
2 I/O SLOTS FRM	-	V102	085	\$55.00

Chassis & Housings

When housing is not used, the metal chassis is required for installation of radio, backup battery and other accessories. The metal chassis can be installed on a wall or inside enclosure. The Housing options provides NEMA 4X / IP65 outdoor protectionV229

Description	Full Description	Nomenclature	APC	Price
28 X 36 CM METAL CHASSIS	Compatible with 2 I/O Slots (V102) frame only. Fits mobile radio with 6.5 AH battery. If portable radio is used, either 10 AH or 6.5 AH battery will fit.	V229	085	\$72.00
ADD: EXPANDED 19 CHAS	-	V269	085	\$230.00
ADD: HOUSING TAMPER SWITCH	-	V224	085	\$90.00
ADD: 38 X 38 CM METAL CHASSIS	Fits to 6.5 Ah battery.	V214	085	\$55.00

ADD: 50X50 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis. Fits to 6.5 Ah and 10Ah battery. Not includes padlock.	VA00405	085	\$960.00
ADD: 50X50 CM PAINTED METAL HOUSING	Includes a metal chassis and fits either the 6.5 Ah or the 10Ah battery. It does not include a padlock.	V228	085	\$451.00
ADD: CHASSIS FOR 19" RACK MTG 0, 3, 5, 8 I/O FRM	Metal backplane required for mounting on 19 in. rack. Compatible with V103 and V105 slots frame. Mounting brackets (V051) should be ordered separately.	V120AG	085	\$140.00
ADD: 48 X 48 CM METAL CHASSIS	Fits to 6.5 AH or 10AH battery.	V056	085	\$100.00
ADD: 40X40 CM PAINTED METAL HOUSING	Includes a metal chassis. Fits to 6.5 Ah battery.	V276	085	\$438.00
ADD: CHASSIS FOR 19? RACK MTG	Metal backplane required for mounting on 19 in. rack. Compatible with V107 and VA00433 I/O slots frame. Mounting brackets (V051) should be ordered separately.	V120	085	\$140.00
ADD: 40X40 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis and fits the 6.5 Ah battery. It does not includes a padlock.	VA00406	085	\$906.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ADD: 16AI +/-5 V	-	V742	085	\$675.00
ADD: 4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0- 10 V output. Require I/O slots and frame.	V118	085	\$495.00

12 DO ML RELAY 120-230V MODULE	-	VA00332	085	\$420.00
ADD: 4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0- 10 V output. All AI channels are +/- 20 mA. Require I/O slots and frame.	V562	085	\$890.00
ADD: 8 DO EE RELAY 2A	-	V508	085	\$260.00
ADD: 8AI +/-5 V	-	V741	085	\$485.00
OPTN,ACCY,ADD: 16 DO EE RLY 2A SBO	-	VA00347	085	\$400.00
ADD: 4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0- 10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	V460	085	\$865.00
ADD: 16 DO ML RELAY 2A	-	V516	085	\$360.00
16 DI 120-230V MODULE	-	VA00331	085	\$295.00
ADD: 8 AI +/-20 MA	-	V318	085	\$525.00
ADD: 8DO EE 2 FORM A SBO	-	VA00343	085	\$315.00
ADD: 16 DI FAST 24V	-	V265	085	\$200.00
ADD: 16AI +/-20 MA	-	V463	085	\$725.00
ADD: 16 DI FAST 24V IEC TP2	16DI 24V DC per IEC 61131-2 Type 2	V117	085	\$200.00
ADD: 16DI 4DO EE 4AI +/-20MA	-	V245	085	\$445.00
ADD: 24V FLOATING	-	V260	085	\$75.00

POWER SUPPLY				
ADD: 16DI 4DO ML 4AI +/-20MA	-	V453	085	\$445.00
ADD: 32 DI FAST 24V IEC TP2	32DI 24V DC per IEC 61131-2 Type 2	V959	085	\$300.00
12 DO EE RELAY 120-230V MODULE	-	VA00348	085	\$405.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	085	\$22.00
ADD: 32 DO / DI FET	-	V481	085	\$365.00
ADD: 16 DO EE RELAY 2A	-	V616	085	\$345.00
ADD: 8 DO ML RELAY 2A	-	V314	085	\$270.00
ADD: 32 DI FAST 24V	-	V379	085	\$335.00
ADD: 32 DI FAST 48V	-	V474	085	\$300.00
ADD: 16 DO / DI FET	-	V480	085	\$250.00

Terminal Blocks and Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 40 PIN TB HOLDER KIT	Connector kit for cable. Fits 32DI, 32DO/DI, 16AI, 16DO , Mixed I/O, 8AI/4AO, and 8DO-SBO.	V153	085	\$38.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	3 meter numbered cable with connector. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V202	085	\$173.00
30 PIN TERMINAL BLOCK HOLDER KIT	Connector kit for cable. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V203	085	\$35.00

ADD: 40 WIRE CABLE W/ TB HOLDER 3 M	3 meter numbered cable with connector. Fits 32DI, 32DO/DI, 16AI, 16DO , Mixed I/O, 8AI/4AO, and 8DO-SBO.	V358	085	\$162.00
ADD: 20 PIN TB HOLDER KIT	Connector kit for cable. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V158	085	\$31.00
ADD: 20 WIRE CABLE W/ TB HOLDER 3 M	3 meter color-coded cable with connector. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V253	085	\$105.00

Power Supply & Batteries

The default power supply module provided with each model is 12V DC (10.8-15.5 V input voltage range). To replace the default PS, add one of the following PS options. If backup battery is required, add PS with charger option.

Description	Full Description	Nomenclature	APC	Price
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	085	\$286.00
DC PS 18-72V PS W/ BAT CHGR	-	V367	085	\$406.00
OPTN,CHGR,ADD: AC PWR PS 100-240 V W/ BAT CHGR	-	V261	085	\$414.00
ADD: 6.5 AH BACKUP BATTERY	Fits all metal chassis and housing.	V114	085	\$171.00
ADD: DC POWER SUPPLY 18-72V	-	V251	085	\$352.00
OPTN,POWER SUPPLY ASSEMBLY,ADD: AC PWR SPLY 100-240 V W/O CHGR	-	V346	085	\$357.00
	This Option will allow an external 12V P/S to be connected through the CPU to the back			

ADD: 12V DC PS LOW-TIER	plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	V149	085	(\$110.00)
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CPU

The default CPU module is CPU3640 with on board RS-232 port and RS-232/485 port, one 100MB IP Port, up to two optional plug-in ports, 3 MB User FLASH memory and 10 MB User DRAM. Select from the options below to upgrade the CPU module.V448

Description	Full Description	Nomenclature	APC	Price
ADD: PLUG-IN RS-232 PORT	-	V184	085	\$105.00
ADD: PLUG-IN 4 MB SRAM	Adds 4Meg user SRAM. One per RTU/CPU.	V447	085	\$147.00
ACE3600 IP GATEWAY CPU4600	The CPU4600 adds IP Gateway functionality. Two optional plug-in ports are still available.	V449	085	\$3,800.00
ADD: ACE3600 CPU3680	The CPU3680 adds two USB host ports and increased memory capacity to the CPU3640. Two optional plug-in ports are still available.	V448	085	\$275.00
ADD: PLUG-IN ETHERNET 10M PORT	-	V204	085	\$105.00
PLUGIN RADIO PORT	Provided with conventional and analog trunking models or radio installation kit	VA00362	085	\$105.00
ADD: PLUG-IN RS 485 PORT	-	V440	085	\$105.00
ADD: PLUG-IN ETHERNET 10/100 M PORT	Fits only to port PI1.	V212	085	\$105.00

CPU and Power Supply Redundancy

These options are compatible when the Redundancy frame, VA00433, is ordered. The CPU options will be installed on the redundant CPU. If these options are required on the primary CPU, please select from the CPU options above.

Description	Full Description	Nomenclature	APC	Price
ADD: SEC. CPU PLUG-IN 4 MB SRAM	Provides the same functionality as the V447, but installed on the redundant CPU.	V444	085	\$140.00
ADD: SEC. CPU PLUG-IN RADIO PORT	Provides the same functionality as the VA00362, but installed on the redundant CPU.	VA00364	085	\$105.00
ADD: SEC. CPU PLUG-IN ETHERNET 10/100 M PORT	Provides the same functionality as the V202, but installed on the redundant CPU.	V215	085	\$105.00
ADD: SEC. CPU PLUG-IN ETHERNET 10M PORT	Provides the same functionality as the V204, but installed on the redundant CPU.	V205	085	\$105.00
ADD: SECONDARY DC PS 10.5-15.5V	-	V275	085	\$330.00
ADD: SEC. CPU PLUG-IN RS-232 PORT	Provides the same functionality as the V184, but installed on the redundant CPU.	V185	085	\$105.00
ADD: SEC. CPU PLUG-IN RS 485 PORT	Provides the same functionality as the V440, but installed on the redundant CPU.	V441	085	\$105.00

I/O Expansion LAN Switch

This should be ordered as an option to the main RTU models. The LAN switch takes one of the I/O slots on the main RTU.

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Description	Full Description	Nomenclature	APC	Price
ADD: ACE3600 EXPANSION LAN SWITCH MODULE	Required when more than 1 expansion frame is connected to an RTU. Occupies one I/O slot on the main RTU. Includes a 60 cm LAN cable (FKN8561) for connecting the LAN switch to the main CPU. Requires the 3640 CPU on the main RTU.	VA00226	085	\$440.00

I/O Expansion Frame

These options are compatible with the F7510 only.

Description	Full Description	Nomenclature	APC	Price
ADD: LAN CABLE 3 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V666	085	\$26.00
ADD: LAN CABLE 60 CM	Can be used for connecting the LAN switch to the main CPU or for connecting the expansion frame to the LAN switch.	V529	085	\$20.00
ADD:DC 10.5-15.5V	This option removes the power supply that is standard with the Expansion Frame (F7510) and adds the power supply that is standard with the ACE3600 RTU. Use this option if A) the current draw from the Expansion racks + the current draw from the main RTU exceed the capacity of the main RTU power supply, or if B) a power source local to the expansion rack will be used. Please see System Planner for details.	V274	085	\$0.00
ADD: LAN CROSS CABLE 3 METER	Crossed LAN cable for connecting an expansion frame directly to the main CPU. Not compatible with the LAN switch.	V665	085	\$20.00

ADD: LAN CABLE 2 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V648	085	\$20.00
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Miscellaneous

Description	Full Description	Nomenclature	APC	Price
OPTION,TEST REPORT	May be ordered with any of the main RTU models and also with the Expansion Frame. V99 provides printed report of the factory test.	V99	085	\$10.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	085	\$22.00
ADD: ACT MODULE FOR ACE3600	-	V155	085	\$600.00

Software and Software Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires DNP capability. License is included with the RTU.	V283	214	\$100.00
ADD: IEC870-5-101_LICENSE	One required for each RTU or FIU that uses this protocol driver.	V242	085	\$100.00
ADD: 3 RD PARTY PROTOCOL LICENSE	One required for each RTU or FIU that uses the 3rd party protocol: ModBus, Allan Bradley.	V377	214	\$100.00
ADD: AGA LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is included with the RTU.	V284	214	\$100.00

Security Options

Description	Full Description	Nomenclature	APC	Price
ADD: AEC3600 SECURITY ENABLE OPTION	-	VA00360	085	\$275.00

ACCESSORIES

CPU

Description	Full Description	Nomenclature	APC	Price
ADD-ON ETHERNET 10/100 M PORT	Kit includes screws and spacers.	FLN4104	085	\$115.00
ADD-ON RS 485 PORT	Kit includes screws and spacers.	FLN4107	085	\$115.00
ADD-ON RADIO PORT (GRI)	Kit includes screws and spacers.	FLN3696	085	\$115.00
ADD-ON ETHERNET 10M PORT	Kit includes screws and spacers	FLN4106	085	\$115.00
HARD. KIT	Screws and spacers for plug-in ports.	FHN6802	085	\$9.00
PLUG-IN 4 MB SRAM	Increases user SRAM from 4Meg to 8Meg. One per RTU/CPU.	FLN3818	085	\$150.00
ADD-ON RS-232 PORT	Kit includes screws and spacers.	FLN4105	085	\$115.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
ASSY,ACCY,MTM800 INSTALLTION KIT	-	FLN4109	085	\$364.00
HT750/GP320/328/PRO5150 INSTALLATION KIT	-	FLN3637	085	\$392.00
APX6500 DIGITAL INSTALLATION KIT	-	FLN1072	085	\$363.00

APX6500 ANALOG INSTALLATION KIT FOR ACE3600	-	FLN0114A	085	\$438.00
XPR5350/80 CONNECT PLUS INSTALATION KIT FOR ACE 3600	-	FLN0113A	085	\$216.00
MARLIN CABLE ANTENNA MINI UHF	-	FKN8429	085	\$60.00
XPR5350/80 DIGITAL INSTALATION KIT FOR ACE3600	-	FLN4102A	085	\$261.00
MOTOTRBO ANALOG RADIO INSTLN KIT	-	FLN1059	085	\$351.00
CDM750 INSTALLATION KIT	-	FLN3638	085	\$313.00
CM/EM/GM ANTENNA CABLE N TYPE	-	FKN8430	085	\$63.00
XTL5000/2500 ANALOG INSTALLATION KIT	-	FLN3640	085	\$375.00
XTL5000/2500 DIGITAL INSTALLATION KIT	-	FLN3649	085	\$272.00
CM200/CM140/EM200/GM3188 INSTALLATION KIT	-	FLN3635	455	\$319.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ACE 3600 BLANK MODULE	-	FHN6972	085	\$25.00
16 AI +/-20MA	-	FLN3559	085	\$800.00
16 DI FAST 24V	-	FLN3552	085	\$220.00
16 AI +/-5V	-	FLN3561	085	\$700.00
16 DI FAST 24V IEC T2	-	FLN3547	085	\$220.00
16DI 4DO EE 4AI +/-20MA	-	FLN3572	085	\$460.00

32 DO / DI FET	-	FLN3554	085	\$383.00
12 DO EE RELAY 120-230V MODULE	-	FLN4052	085	\$425.00
16 DO EE RELAY 2A	-	FLN3537	085	\$362.00
4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output.. All AI channels are +/- 20 mA. Require I/O slots and frame.	FLN3816	085	\$910.00
32 DI FAST 24V IEC TP2	-	FLN3550	085	\$315.00
16 DO / DI FET	-	FLN3553	085	\$263.00
8 AI +/-20MA	-	FLN3566	085	\$545.00
4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	FLN3815	085	\$910.00
16 DI 120-230V MODULE	-	FLN4051	085	\$310.00
8 AI +/-5V	-	FLN3560	085	\$500.00
32 DI FAST 24V	-	FLN3548	085	\$352.00
8 DO ML RELAY 2A	-	FLN3538	085	\$284.00
4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0-10 V output. Require I/O slots and frame.	FLN3817	085	\$520.00
8 DO EE RELAY 2A	-	FLN3605	085	\$273.00
16DI 4DO ML 4AI +/-20MA	-	FLN3573	085	\$460.00
8DO EE 2 FORM A SBO	-	FLN4146	085	\$330.00

16 DO ML RELAY 2A	-	FLN3539	085	\$400.00
12 DO ML RELAY 120-230V MODULE	-	FLN4053	085	\$435.00

Cables

Description	Full Description	Nomenclature	APC	Price
30 PIN TERMINAL BLOCK HOLDER KIT	-	FTN7532	085	\$39.00
40 PIN TB HOLDER KIT	-	FTN7160	085	\$45.00
DATA CBL CPU TO RAD/ RS485	-	FKN8427	085	\$21.00
20 PIN TB HOLDER KIT	-	FTN7159	085	\$40.00
RS-485 JUNCTION BOX	-	FLN3641	085	\$170.00
40 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8466	085	\$178.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	-	FKN8557	085	\$188.00
ASSY,CBL,12V DC OPEN EXTN PWR CBL	-	FKN8523	085	\$18.00
20 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8465	085	\$119.00
CABLE, TOOLBOX 3M W/ADAPTER EPP	-	FLN6457	214	\$48.00

I/O Expansion Frame

Description	Full Description	Nomenclature	APC	Price
LAN CABLE 3 METER	-	FKN8563	085	\$28.00
LAN CROSS CABLE 3 METER	-	FKN8525	085	\$27.00
ACE3600 EXPANSION POWER SUPPLY	-	FPN1654	085	\$253.00

ACE3600 EXPANSION MODULE	CPU module used with the F7510; not compatible with the main RTU models.	FLN4075	085	\$730.00
LAN CABLE 2 METER	-	FKN8562	085	\$40.00
ACE3600 EXPANSION LAN SWITCH MODULE	-	FLN4078	085	\$462.00
LAN CABLE 60CM	-	FKN8561	085	\$22.00
EXP_PWR_SUPPLY EXT POWER CABLE	-	FKN8559	085	\$48.00

Motherboards, Enclosures, and Frames

Description	Full Description	Nomenclature	APC	Price
ACE3600 NO I/O SLOTS FRAME	-	FLN4125	085	\$220.00
ACE3600 REDUNDANCY 4 I/O FRAME	-	FLN4699	085	\$425.00
38 X 38 CM METAL CHASSIS	-	FHN6794	085	\$94.00
METAL BASE FOR 0 I/O FRAME	-	FHN6816	085	\$65.00
48 X 48 CM METAL CHASSIS	-	FHN6792	085	\$120.00
HOUSING TAMPER SWITCH	-	FLN3697	085	\$100.00
ACE3600 5 I/O SLOTS FRAME	-	FLN4122	085	\$300.00
ADD: 40X40 METAL HOUSING NEMA 4& PAD LOCK	-	FHN6946	085	\$1,040.00
TWO I/O SLOT FRAME	-	FLN4303	085	\$275.00
ACE3600 8 I/O SLOTS FRAME	-	FLN4120	085	\$375.00
50X50 CM PAINTED METAL HOUSING	-	FHN6870	085	\$488.00

ADD: 50X50 METAL HOUSING NEMA 4& PAD LOCK	-	FHN6945	085	\$1,144.00
2 SLOTS PLASTIC ENCLOSURE KIT	-	FLN4111	085	\$34.00
EXPAND_TO_19"_FRAME_METAL_BACK	-	FHN7385	085	\$156.00
EXPAND TO 19" FRAME METAL BACK	Suitable for use with 0, 3, and 5 I/O slots frame. Includes the frame for mounting in a 19 in. rack and also includes 1 set of mounting brackets.	FLN4304	085	\$311.00
ACE 28X36CM METAL CHASSIS SFP	-	FLN4276	085	\$116.00
ACE3600 3 I/O SLOTS FRAME	-	FLN4123	085	\$250.00
ADD: 40X40 CM PAINTED METAL HOUSING	-	FHN6871	085	\$464.00
ACE3600 7 I/O SLOTS FRAME	-	FLN4121	085	\$350.00
METAL BASE FOR 5 I/O FRAME	-	FHN6815	085	\$85.00
METAL BASE FOR 7 I/O FRAME	-	FHN6818	085	\$90.00
3 SLOTS PLAS ENCL KIT	-	FLN4112	085	\$34.00
METAL BASE FOR 3 I/O FRAME	-	FHN6817	085	\$93.00

Battery & Power Supply

Description	Full Description	Nomenclature	APC	Price
DC PS 12V POWER CABLE	-	FKN8481	085	\$24.00
BATTERY THERMISTOR				

CABLE	-	FKN8377	085	\$36.00
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	085	\$110.00
ASSY,P/S,AC PS 100-240 V W/O CHGR_MODULE	AC power supply module only, without battery charger.	FPN1641	085	\$660.00
BATTERY POWER CABLE	Connects the battery to the power supply module. Fits 6.5Ah and 10Ah battery.	FKN8376	085	\$14.00
BATTERY 6.5 AH	Battery mounting bracket (FHN6902) and battery power cable (FKN8376) must be ordered separately.	FTN7120	085	\$178.00
P/S, 100-240VAC W/ CHGR MDL	AC power supply module only with battery charger.	FPN1903	085	\$713.00
DC PS JUNCTION BOX	-	FHN6812	085	\$12.00
AC P.S JUNCTION BOX	-	FTN7014	085	\$12.00
MOUNTING BRACKET FOR 6.5 AH BATTERY	-	FHN6902	085	\$40.00
XTL5000 ANLG DATA CBL	-	FKN8438	085	\$100.00
DC POWER CABLE FOR DUAL PS	-	FKN8406	085	\$55.00
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	085	\$80.00
DC PS 18-72V W/O CHGR	-	FPN1646	454	\$690.00
DC PS 18-72V W/ BATTERY CHARGER MODULE	18-72V DC power supply module only with battery	FPN1904	085	\$713.00

	charger.			
ASSY,P/S,AC PS 100-240 V W/ BAT CHGR KIT	-	FPN1644	085	\$748.00
BATTERY 10 AH	Battery mounting bracket (FHN6901) and battery power cable (FKN8376) must be ordered separately.	FNN7898	085	\$297.00
DC PS 18-72V PS W/ BAT CHGR	-	FPN1645	085	\$748.00
DATA CPU USB TO MOTOTRBO RAD	-	FKN8644	085	\$80.00
ASSY, PS BLANK MODULE FOR REDUNDANCY	-	FHN6861	085	\$28.00
SECONDARY DC PS 10.5- 15.5V	-	FPN1656	085	\$290.00
XTL5000 DIG DATA CBL KIT	-	FKN8432	085	\$74.00
ASSY,CBL,AC PWR CBL FOR 0 I/O SLT	-	FKN8492	085	\$26.00
12V DC PS LOW-TIER	This Option will allow an external 12V P/S to be connected through the CPU to the back plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	FPN1652	085	\$220.00
DC PS 18-72 V POWER CABLE	-	FKN8381	085	\$31.00
ASSY, CBL, AC POWER CABLE FOR DUAL PS	-	FKN8407	085	\$55.00
ASSY,P/S,AC PS 100-240 V W/O CHGR KIT	-	FPN1642	085	\$690.00
MOUNTING BRACKET FOR				

10 AH BATTERY	-	FHN6901	085	\$143.00
AC PS POWER CABLE	-	FKN8382	085	\$32.00
ACE3600 TO MOTOTRBO RADIO ANALOG CABLE	-	FKN8801A	085	\$80.00
DC POWER SUPPLY 18-72V MODULE	18-72V DC power supply module only, without battery charger.	FPN1640	085	\$690.00
DC POWER SUPPLY 12V (W/O TELKOOR)	-	FPN1643	085	\$357.00

Radios and Modems

Description	Full Description	Nomenclature	APC	Price
APX6500 450-520MHZ (A+D)	-	FUE1251A	085	\$3,000.00
XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	085	\$850.00
APX6500 700/800 MHZ (A+D)	-	FUF1201A	085	\$3,000.00
XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	085	\$850.00
XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	085	\$850.00
APX6500 136-174 MHZ (A+D)	-	FUD1041A	085	\$3,000.00
APX6500 380-470 MHZ (A+D)	-	FUE1250A	085	\$3,000.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ACT MODULE FOR	Requires RTU with Chassis or	FLN3851	085	\$615.00

ACE3600	housing.			
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Security Options

Description	Full Description	Nomenclature	APC	Price
CD,SW,ACE3600 SECURED SYS TOOL SUITE VER. 18.50	-	FVN5973	085	\$790.00

Software Licenses

Description	Full Description	Nomenclature	APC	Price
AGA 8 LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is provided separately.	FRN5901	085	\$100.00
IEC870-5-101 LICENSE	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FLN9504	085	\$100.00
DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FRN5899	214	\$100.00
3 RD PROTOCOL LICENSE	-	FRN5902	214	\$100.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time

ALARMCONT	ISR	F7502	ACE3600 MID TIER CPU, 3640	085	6
ALARMCONT	ISR	F7502	ACE3600 MID TIER CPU, 3640	085	6
ALARMCONT	ISR	F7507	ACE3600 IP GATEWAY CPU4600	085	13
ALARMCONT	ISR	F7508	ACE3600 CPU3680	085	18
ALARMCONT	ISR	F7509	ACE 3600 MAIN MODEL	085	32
ALARMCONT	ISR	F7509	ACE 3600 MAIN MODEL	085	32
ALARMCONT	ISR	F7510	ACE3600 EXPANSION CPU, POWER SUPPLY AND MOUNTING	085	41
ALARMCONT	ISR	F7510	ACE3600 EXPANSION CPU, POWER SUPPLY AND MOUNTING	085	41
ALARMCONT	ISR	FHN6792	48 X 48 CM METAL CHASSIS	085	12
ALARMCONT	MGK	FHN6794	38 X 38 CM METAL CHASSIS	085	25
ALARMCONT	MGK	FHN6794	38 X 38 CM METAL CHASSIS	085	25
ALARMCONT	ISR	FHN6802	HARD. KIT	085	32
ALARMCONT	ISR	FHN6812	DC PS JUNCTION BOX	085	37
ALARMCONT	ISR	FHN6815	METAL BASE FOR 5 I/O FRAME	085	10
ALARMCONT	ISR	FHN6816	METAL BASE FOR 0 I/O FRAME	085	4
ALARMCONT	ISR	FHN6817	METAL BASE FOR 3 I/O FRAME	085	31
ALARMCONT	ISR	FHN6818	METAL BASE FOR 7 I/O FRAME	085	21
ALARMCONT	ISR	FHN6861	ASSY, PS BLANK MODULE FOR REDUNDANCY	085	20
ALARMCONT	ISR	FHN6870	50X50 CM PAINTED METAL HOUSING	085	7
ALARMCONT	MGK	FHN6871	ADD: 40X40 CM PAINTED METAL	085	27

			HOUSING		
ALARMCONT	MGK	FHN6871	ADD: 40X40 CM PAINTED METAL HOUSING	085	27
ALARMCONT	ISR	FHN6901	MOUNTING BRACKET FOR 10 AH BATTERY	085	28
ALARMCONT	ISR	FHN6901	MOUNTING BRACKET FOR 10 AH BATTERY	085	28
ALARMCONT	ISR	FHN6902	MOUNTING BRACKET FOR 6.5 AH BATTERY	085	24
ALARMCONT	ISR	FHN6902	MOUNTING BRACKET FOR 6.5 AH BATTERY	085	24
ALARMCONT	ISR	FHN6945	ADD: 50X50 METAL HOUSING NEMA 4& PAD LOCK	085	7
ALARMCONT	ISR	FHN6946	ADD: 40X40 METAL HOUSING NEMA 4& PAD LOCK	085	28
ALARMCONT	SCB	FHN6972	ACE 3600 BLANK MODULE	085	21
ALARMCONT	SCB	FHN6972	ACE 3600 BLANK MODULE	085	21
ALARMCONT	ISR	FHN7385	EXPAND_TO_19"_FRAME_METAL_BACK	085	59
ALARMCONT	ISR	FHN7385	EXPAND_TO_19"_FRAME_METAL_BACK	085	59
ALARMCONT	ISR	FKN0040A	DATA CABLE FOR CONNECT PLUS	085	28
ALARMCONT	ISR	FKN8376	BATTERY POWER CABLE	085	10
ALARMCONT	ISR	FKN8376	BATTERY POWER CABLE	085	10
ALARMCONT	ISR	FKN8377	BATTERY THERMISTOR CABLE	085	30
ALARMCONT	ISR	FKN8377	BATTERY THERMISTOR CABLE	085	30
ALARMCONT	ISR	FKN8381	DC PS 18-72 V POWER CABLE	085	32

ALARMCONT	ISR	FKN8381	DC PS 18-72 V POWER CABLE	085	32
ALARMCONT	ISR	FKN8382	AC PS POWER CABLE	085	10
ALARMCONT	ISR	FKN8406	DC POWER CABLE FOR DUAL PS	085	12
ALARMCONT	ISR	FKN8406	DC POWER CABLE FOR DUAL PS	085	12
ALARMCONT	SCB	FKN8407	ASSY, CBL, AC POWER CABLE FOR DUAL PS	085	48
ALARMCONT	SCB	FKN8407	ASSY, CBL, AC POWER CABLE FOR DUAL PS	085	48
ALARMCONT	SCB	FKN8407	ASSY, CBL, AC POWER CABLE FOR DUAL PS	085	48
ALARMCONT	SCB	FKN8407	ASSY, CBL, AC POWER CABLE FOR DUAL PS	085	48
ALARMCONT	MGK	FKN8427	DATA CBL CPU TO RAD/ RS485	085	100
ALARMCONT	ISR	FKN8427	DATA CBL CPU TO RAD/ RS485	085	28
ALARMCONT	ISR	FKN8429	MARLIN CABLE ANTENNA MINI UHF	085	16
ALARMCONT	ISR	FKN8430	CM/EM/GM ANTENNA CABLE N TYPE	085	57
ALARMCONT	ISR	FKN8432	XTL5000 DIG DATA CBL KIT	085	21
ALARMCONT	ISR	FKN8438	XTL5000 ANLG DATA CBL	085	7
ALARMCONT	ISR	FKN8465	20 WIRE CABLE W/ TB HOLDER 3 M	085	9
ALARMCONT	ISR	FKN8465	20 WIRE CABLE W/ TB HOLDER 3 M	085	9
ALARMCONT	ISR	FKN8466	40 WIRE CABLE W/ TB HOLDER 3 M	085	17
ALARMCONT	ISR	FKN8466	40 WIRE CABLE W/ TB HOLDER 3 M	085	17
ALARMCONT	ISR	FKN8481	DC PS 12V POWER CABLE	085	24

ALARMCONT	ISR	FKN8492	ASSY,CBL,AC PWR CBL FOR 0 I/O SLT	085	28
ALARMCONT	ISR	FKN8523	ASSY,CBL,12V DC OPEN EXTN PWR CBL	085	39
ALARMCONT	ISR	FKN8525	LAN CROSS CABLE 3 METER	085	29
ALARMCONT	ISR	FKN8557	30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	085	11
ALARMCONT	ISR	FKN8559	EXP_PWR_SUPPLY EXT POWER CABLE	085	18
ALARMCONT	ISR	FKN8561	LAN CABLE 60CM	085	54
ALARMCONT	ISR	FKN8561	LAN CABLE 60CM	085	54
ALARMCONT	ISR	FKN8562	LAN CABLE 2 METER	085	54
ALARMCONT	ISR	FKN8563	LAN CABLE 3 METER	085	9
ALARMCONT	ISR	FKN8644	DATA CPU USB TO MOTOTRBO RAD	085	25
ALARMCONT	MGK	FKN8801A	ACE3600 TO MOTOTRBO RADIO ANALOG CABLE	085	25
ALARMCONT	ISR	FLN0113A	XPR5350/80 CONNECT PLUS INSTALATION KIT FOR ACE 3600	085	28
ALARMCONT	ISR	FLN0114A	APX6500 ANALOG INSTALLATION KIT FOR ACE3600	085	14
ALARMCONT	ISR	FLN0114A	APX6500 ANALOG INSTALLATION KIT FOR ACE3600	085	14
ALARMCONT	ISR	FLN1059	MOTOTRBO ANALOG RADIO INSTLN KIT	085	16
ALARMCONT	ISR	FLN1072	APX6500 DIGITAL INSTALLATION KIT	085	21
ALARMCONT	ISR	FLN1072	APX6500 DIGITAL INSTALLATION KIT	085	21
ALARMCONT	ISR	FLN3537	16 DO EE RELAY 2A	085	41
ALARMCONT	ISR	FLN3537	16 DO EE RELAY 2A	085	41

ALARMCONT	ISR	FLN3537	16 DO EE RELAY 2A	085	41
ALARMCONT	ISR	FLN3538	8 DO ML RELAY 2A	085	18
ALARMCONT	ISR	FLN3539	16 DO ML RELAY 2A	085	18
ALARMCONT	MGK	FLN3547	16 DI FAST 24V IEC T2	085	15
ALARMCONT	ISR	FLN3547	16 DI FAST 24V IEC T2	085	19
ALARMCONT	ISR	FLN3548	32 DI FAST 24V	085	32
ALARMCONT	ISR	FLN3548	32 DI FAST 24V	085	32
ALARMCONT	SCB	FLN3550	32 DI FAST 24V IEC TP2	085	5
ALARMCONT	SCB	FLN3550	32 DI FAST 24V IEC TP2	085	5
ALARMCONT	CDP	FLN3552	16 DI FAST 24V	085	5
ALARMCONT	ISR	FLN3553	16 DO / DI FET	085	38
ALARMCONT	ISR	FLN3554	32 DO / DI FET	085	18
ALARMCONT	ISR	FLN3559	16 AI +/-20MA	085	15
ALARMCONT	ISR	FLN3559	16 AI +/-20MA	085	15
ALARMCONT	CDP	FLN3560	8 AI +/-5V	085	5
ALARMCONT	MGK	FLN3560	8 AI +/-5V	085	37
ALARMCONT	ISR	FLN3560	8 AI +/-5V	085	28
ALARMCONT	ISR	FLN3561	16 AI +/-5V	085	23
ALARMCONT	ISR	FLN3566	8 AI +/-20MA	085	18
ALARMCONT	ISR	FLN3566	8 AI +/-20MA	085	18

ALARMCONT	CDP	FLN3572	16DI 4DO EE 4AI +/-20MA	085	5
ALARMCONT	CDP	FLN3572	16DI 4DO EE 4AI +/-20MA	085	5
ALARMCONT	CDP	FLN3572	16DI 4DO EE 4AI +/-20MA	085	5
ALARMCONT	ISR	FLN3573	16DI 4DO ML 4AI +/-20MA	085	55
ALARMCONT	ISR	FLN3605	8 DO EE RELAY 2A	085	7
ALARMCONT	ISR	FLN3605	8 DO EE RELAY 2A	085	7
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3637	HT750/GP320/328/PRO5150 INSTALLATION KIT	085	42
ALARMCONT	ISR	FLN3638	CDM750 INSTALLATION KIT	085	18
ALARMCONT	MGK	FLN3640	XTL5000/2500 ANALOG INSTALLATION KIT	085	100
ALARMCONT	ISR	FLN3640	XTL5000/2500 ANALOG INSTALLATION KIT	085	27
ALARMCONT	ISR	FLN3641	RS-485 JUNCTION BOX	085	19
ALARMCONT	ISR	FLN3641	RS-485 JUNCTION BOX	085	19
ALARMCONT	MGK	FLN3649	XTL5000/2500 DIGITAL INSTALLATION KIT	085	10
ALARMCONT	ISR	FLN3649	XTL5000/2500 DIGITAL INSTALLATION KIT	085	19
ALARMCONT	SCB	FLN3696	ADD-ON RADIO PORT (GRI)	085	5

ALARMCONT	SCB	FLN3696	ADD-ON RADIO PORT (GRI)	085	5
ALARMCONT	ISR	FLN3697	HOUSING TAMPER SWITCH	085	14
ALARMCONT	ISR	FLN3815	4AO / 8AI +/- 5 V MODULE	085	28
ALARMCONT	CDP	FLN3816	4AO / 8AI +/- 20 MA MODULE	085	19
ALARMCONT	CDP	FLN3817	4 AO MODULE	085	5
ALARMCONT	CDP	FLN3817	4 AO MODULE	085	5
ALARMCONT	ISR	FLN3818	PLUG-IN 4 MB SRAM	085	8
ALARMCONT	ISR	FLN3851	ACT MODULE FOR ACE3600	085	15
ALARMCONT	ISR	FLN4051	16 DI 120-230V MODULE	085	11
ALARMCONT	ISR	FLN4052	12 DO EE RELAY 120-230V MODULE	085	18
ALARMCONT	ISR	FLN4053	12 DO ML RELAY 120-230V MODULE	085	20
ALARMCONT	ISR	FLN4075	ACE3600 EXPANSION MODULE	085	18
ALARMCONT	ISR	FLN4075	ACE3600 EXPANSION MODULE	085	18
ALARMCONT	ISR	FLN4078	ACE3600 EXPANSION LAN SWITCH MODULE	085	18
ALARMCONT	ISR	FLN4078	ACE3600 EXPANSION LAN SWITCH MODULE	085	18
ALARMCONT	ISR	FLN4102A	XPR5350/80 DIGITAL INSTALATION KIT FOR ACE3600	085	24
ALARMCONT	ISR	FLN4104	ADD-ON ETHERNET 10/100 M PORT	085	9
ALARMCONT	ISR	FLN4104	ADD-ON ETHERNET 10/100 M PORT	085	9
ALARMCONT	ISR	FLN4105	ADD-ON RS-232 PORT	085	18

ALARMCONT	ISR	FLN4105	ADD-ON RS-232 PORT	085	18
ALARMCONT	ISR	FLN4106	ADD-ON ETHERNET 10M PORT	085	13
ALARMCONT	ISR	FLN4106	ADD-ON ETHERNET 10M PORT	085	13
ALARMCONT	ISR	FLN4107	ADD-ON RS 485 PORT	085	16
ALARMCONT	ISR	FLN4107	ADD-ON RS 485 PORT	085	16
ALARMCONT	ISR	FLN4109	ASSY,ACCY,MTM800 INSTALLTION KIT	085	10
ALARMCONT	ISR	FLN4109	ASSY,ACCY,MTM800 INSTALLTION KIT	085	10
ALARMCONT	ISR	FLN4111	2 SLOTS PLASTIC ENCLOSURE KIT	085	4
ALARMCONT	ISR	FLN4112	3 SLOTS PLAS ENCL KIT	085	14
ALARMCONT	ISR	FLN4120	ACE3600 8 I/O SLOTS FRAME	085	18
ALARMCONT	ISR	FLN4121	ACE3600 7 I/O SLOTS FRAME	085	63
ALARMCONT	ISR	FLN4122	ACE3600 5 I/O SLOTS FRAME	085	64
ALARMCONT	ISR	FLN4123	ACE3600 3 I/O SLOTS FRAME	085	34
ALARMCONT	ISR	FLN4123	ACE3600 3 I/O SLOTS FRAME	085	34
ALARMCONT	SCB	FLN4125	ACE3600 NO I/O SLOTS FRAME	085	5
ALARMCONT	ISR	FLN4146	8DO EE 2 FORM A SBO	085	20
ALARMCONT	ISR	FLN4276	ACE 28X36CM METAL CHASSIS SFP	085	24
ALARMCONT	ISR	FLN4303	TWO I/O SLOT FRAME	085	7
ALARMCONT	ISR	FLN4304	EXPAND TO 19" FRAME METAL BACK	085	13
ALARMCONT	ISR	FLN4699	ACE3600 REDUNDANCY 4 I/O FRAME	085	20
SYSPERIPH	ISR	FLN6457	CABLE, TOOLBOX 3M W/ADAPTER EPP	214	8

ALARMCONT	ISR	FLN9504	IEC870-5-101 LICENSE	085	20
ALARMCONT	ISR	FNN7898	BATTERY 10 AH	085	14
ALARMCONT	ISR	FNN7898	BATTERY 10 AH	085	14
ALARMCONT	RNS	FPN1640	DC POWER SUPPLY 18-72V MODULE	085	5
ALARMCONT	RNS	FPN1640	DC POWER SUPPLY 18-72V MODULE	085	5
ALARMCONT	ISR	FPN1641	ASSY,P/S,AC PS 100-240 V W/O CHGR _MODULE	085	23
ALARMCONT	ISR	FPN1641	ASSY,P/S,AC PS 100-240 V W/O CHGR _MODULE	085	23
ALARMCONT	ISR	FPN1642	ASSY,P/S,AC PS 100-240 V W/O CHGR KIT	085	64
ALARMCONT	ISR	FPN1642	ASSY,P/S,AC PS 100-240 V W/O CHGR KIT	085	64
ALARMCONT	CDP	FPN1643	DC POWER SUPPLY 12V (W/O TELKOOR)	085	5
ALARMCONT	ISR	FPN1644	ASSY,P/S,AC PS 100-240 V W/ BAT CHGR KIT	085	18
ALARMCONT	ISR	FPN1644	ASSY,P/S,AC PS 100-240 V W/ BAT CHGR KIT	085	18
ALARMCONT	ISR	FPN1645	DC PS 18-72V PS W/ BAT CHGR	085	28
ALARMCONT	ISR	FPN1645	DC PS 18-72V PS W/ BAT CHGR	085	28
ALARMCONT	ISR	FPN1646	DC PS 18-72V W/O CHGR	454	53
ALARMCONT	ISR	FPN1646	DC PS 18-72V W/O CHGR	454	53
ALARMCONT	ISR	FPN1652	12V DC PS LOW-TIER	085	22
ALARMCONT	ISR	FPN1652	12V DC PS LOW-TIER	085	22

ALARMCONT	CDP	FPN1653	24V FLOATING POWER SUPPLY	085	5
ALARMCONT	CDP	FPN1653	24V FLOATING POWER SUPPLY	085	5
ALARMCONT	ISR	FPN1654	ACE3600 EXPANSION POWER SUPPLY	085	38
ALARMCONT	ISR	FPN1903	P/S, 100-240VAC W/ CHGR MDL	085	6
ALARMCONT	ISR	FPN1904	DC PS 18-72V W/ BATTERY CHARGER MODULE	085	14
ALARMCONT	ISR	FPN1904	DC PS 18-72V W/ BATTERY CHARGER MODULE	085	14
ALARMCONT	ISR	FRN5899	DNP-3 LICENSE MASTER/SALVE - RTU	214	13
ALARMCONT	ISR	FRN5901	AGA 8 LICENSE	085	18
ALARMCONT	ISR	FRN5902	3 RD PROTOCOL LICENSE	214	15
ALARMCONT	ISR	FTN7014	AC P.S JUNCTION BOX	085	21
ALARMCONT	ISR	FTN7120	BATTERY 6.5 AH	085	21
ALARMCONT	MGK	FTN7159	20 PIN TB HOLDER KIT	085	36
ALARMCONT	MGK	FTN7159	20 PIN TB HOLDER KIT	085	36
ALARMCONT	ISR	FTN7160	40 PIN TB HOLDER KIT	085	30
ALARMCONT	ISR	FTN7160	40 PIN TB HOLDER KIT	085	30
ALARMCONT	ISR	FTN7532	30 PIN TERMINAL BLOCK HOLDER KIT	085	28
ALARMCONT	ISR	FUD1040A	XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	085	18
ALARMCONT	ISR	FUD1041A	APX6500 136-174 MHZ (A+D)	085	7
ALARMCONT	ISR	FUD1041A	APX6500 136-174 MHZ (A+D)	085	7
			XPR5350 450-512 MHZ, DIGITAL +		

ALARMCONT	ISR	FUE1077A	ANALOG + CONNECT PLUS	085	20
ALARMCONT	ISR	FUE1250A	APX6500 380-470 MHZ (A+D)	085	23
ALARMCONT	ISR	FUE1251A	APX6500 450-520MHZ (A+D)	085	15
ALARMCONT	ISR	FUF1200A	XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	085	20
ALARMCONT	ISR	FUF1201A	APX6500 700/800 MHZ (A+D)	085	24
ALARMCONT	ISR	FVN5973	CD,SW,ACE3600 SECURED SYS TOOL SUITE VER. 18.50	085	20

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JUMP TO ...

MODEL

GENERAL INFORMATION & ORDERING REQUIREMENTS

CONFIGURATION

SHIP CARD

Model

Advanced System Key Solution (ASK)

A replacement key for the original software based system key to control access to programmable fields in the system owner's Radio Service Software (RSS) or Customer Programming Software (CPS)

****Please see 'Ordering Requirements' section below for MANDATORY ORDER ENTRY REQUIREMENTS. All required information MUST be provided to proceed****

General Information & Ordering Requirements

General Information

The Master System Key Starter Kit (DVN4046B*) contains the following components:

- 1. Master System Key (DS1996L iButton 'programmed' - Qty 1):** A hardware memory element that resembles a fat watch battery. This element is programmed by Motorola Solutions. This key can not be directly used as a system key; it is used to create Advanced System keys by the *system owner*.
- 2. Advanced System Key (DS1996L iButton 'Blank' - Qty 5):** A hardware memory element that resembles a fat watch battery. This element is programmed by the system owner via their CPS System Key Programming Software and allows the *system owner* to create usable system keys. The system owner can institute rules that allow users to program radios with limited ID ranges, limited field access, or limited by time. Once the time limited keys expire, the memory element is disabled for security reasons. This key is also required to do POP25.
- 3. Advanced System Key Dongle (Qty 5):** This is a physical hardware key that needs to be connected to the computer running the CPS. These dongles are available in both a parallel and USB port version. The dongles are reusable and the Master or Advanced System Keys can be placed inside the dongle.

NOTE: The latest version of CPS must be running on the PC. This application allows programming of radios and also includes the System Key programming utility.

All Master System Keys (DVN4046B) & I-button replacements (DS1996L) include the following features:

- 64kb memory
- Unlimited lifetime battery
- Ability to reformat after expiration
- Software based expiration
- Increases number of allowable ranges from 5 to 250
- Ability to incrementally add a system to an existing key, eliminating the need to have all

master keys present at time of creation

**NOTE: DVN4046B kit and DS1996L blank iButtons are ONLY compatible with XTS/XTL 1500, 2500, 5000 and APX radios.*

Ordering Requirements

Effective immediately, the following information is MANDATORY at time of order entry:

1) **System Owner / Manager Contact Info:** Name, Email Address, Phone Number

NOTE: For 'new build' systems, where a system owner has not yet been identified, please enter the Project Manager's contact information instead.

2) **Motorola Area Sales Manager Contact Info (ASM):** Name, Email Address, Phone Number

3) **Motorola Regional Service Manager Contact Info (RSM):** Name, Email Address, Phone Number

4) **System ID (varies depending on system type):** Please provide the ACK ID (advanced conventional ID), ASK HOM ID, Motorola System ID and/or WACN ID (used for third party system requirements).

System ID format guidelines:

- 4 digit hexadecimal for System ID
- 5 digit hexadecimal for WACN ID
- The value of '0' for a conventional system

****If multiple system IDs are being ordered in a single kit, all system IDs MUST have the same owner**

5) **Authorization Form:** The Master System Key authorization form must be completed by the system owner (or project manager for 'new build' systems) and submitted with all POs. The form can be downloaded by [clicking here](#) [To edit the form please create a copy in your personal Google Drive (right click > make a copy). The master form will not be made editable]. All forms will be reviewed and validated by Motorola Solutions.

Authorization form submission details:


- If ordering via email: please email the completed form along with your PO
- If ordering via MOL: you will be contacted by Motorola Solutions to provide the completed form
- If ordering via CPQ: you will be contacted by Motorola Solutions to provide the completed form

Configuration

Advanced System Key & Accessories

Description	Full Description	Nomenclature	APC	Price
MASTER SYSTEM KEY STARTER KIT	Ships with 1 master system key DS1996L iButton, 5 blank DS1996L iButtons, 5 USB dongles. ONLY compatible with XTS/XTL 1500, 2500, 5000 and APX radios.	DVN4046B	430	\$500.00
IC,64KBIT RAM & TIME IBUTTON	Single DS1996L iButton, used with XTS/XTL 1500, 2500, 5000 and APX radios	5184054Y03	362	\$53.25
I-BUTTONS ASK REPLACEMENT DS1996	Quantity 5 blank DS1996L iButtons, used with XTS/XTL 1500, 2500, 5000 and APX radios	DVN4316	430	\$200.00
IC,4KBIT RAM & TIME IBUTTON	Single DS1994L iButton, used with MCS and MTS radios, Limited Availability for Legacy and Astro Spectra Subscribers	5184054Y01	362	\$42.00
IBUTTON FOR USB ADAPTOR	Quantity 5 blank DS1994L iButtons, Used for MCS and MTS radios, Limited Availability for Legacy and Astro Spectra Subscribers.	DVN4181	362	\$200.00
INTFC, SER, IC USB PORT ADPTR	Quantity 1 DS9490B USB Dongle. Compatible with DS1994L and DS1996L iButtons.	5185956E75	280	\$47.00
ADV'D SYSTEM KEY READER REPLACEMENT	Quantity 5 DS9490B USB Dongles. Compatible with DS1994L and DS1996L iButtons.	DVN4050	362	\$400.00

Ship Card



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Instructions

Agency Configuration

An agency deployment of PS-LTE Priority Management, IMW Location Service, IMW Presence Services and/or MVPN requires purchase and installation of the following accessories, in the quantities indicated:

FIREWALL (required):

- If a Non-Redundant configuration of Priority Management, IMW Location Services, IMW Presence Services and/or MVPN product is being deployed, Quantity 2 of the following is required.
- If a Redundant configuration of Priority Management, Location Services, Presence Services and/or MVPN product is being deployed, Quantity 4 of the following is required.

Fortinet 200 Firewall TT2589A.

For pricing, please refer to the Fortinet 200B Firewall eCAT page: [Agency and Regional Applications Firewall](#)

SWITCHES (required):

- If a Non-Redundant configuration of Priority Management, Location Services, Presence Services and/or MVPN product is being deployed, Quantity 1 of TT2757, TT05904AA, TT05905AA and TT5906AA and Quantity 1 of TT2610, TT05728AA and TT05729AA is required.
- If a Redundant configuration of Priority Management, Location Services, Presence Services and/or MVPN product is being deployed, Quantity 1 of the DDN1251 and Quantity 2 of TT2610, TT05728AA and TT05729AA is required.

Extreme 24 port switch, part numbers:

- TT2757 EXTREME NETWORKS SUMMIT 24 PORT SWITCH
- TT05904AA EXTREMEXOS ADVANCE CORE LICENSE UPGRADE
- TT05905AA 300W AC POWER SUPPLY FOR 24 PORT SWITCH
- TT05906AA POWER CORD FOR EXTREME 24 PORT SWITCH

Extreme 24 port switch bundle, part number DDN1251.

Extreme 48 port switch, part numbers:

- TT2610 48 10/100/1000BASE-T, 4 100/1000BASE-X
- TT05728AA ExtremeXOS Advanced Core License Upgrade
- TT05729AA Power Cord, 10A, NEMA 5-15P, IEC320-C13

For pricing, please refer to the Priority Management or Location Services or Presence Services or MVPN eCAT page.

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

SHIP CARD

Model

Assured Mobile Environment (AME 2000) System Solution

Ordering Information

General Information

For AME related inquiries, please contact Silvia Graback or David Horn

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

Model

American Wireless

Control Center Furniture and Accessories

Ordering Information

General Information

Total Solution Offerings - Customer Satisfaction - Log Credit

How American Wireless Control Center Solutions Benefit Your Customers

American Wireless offers a broad range of multi-dimensional dispatch control center furniture and vertical cabinets with ergonomic laminate and metal accessories, all designed to complement and support Communication Control Center installations.

American Wireless, in association with the [Winsted Corporation](#), offers a complete line of [Control Room Consoles](#) to fit the needs of the most demanding customers. Whether it is a small dispatch center or a large control room, American Wireless has the right solution for your customer's needs.

American Wireless exclusively supports customers who continue using the industry standard Motorola CENTRACOM Series furniture products.

American Wireless also provides its Legacy Line of metal furniture bays are built using a combination of 11- and 14-gauge cold-rolled steel and unitized/welded construction. The manufacturing process is in compliance with ISO-9001 standards and AS9100 certified quality. Laminate products meet or exceed the stringent NEMA L3 standards.

All American Wireless products carry a comprehensive 60-month warranty.

Prior to shipping, American Wireless Console Furniture Systems are completely assembled and staged for quality inspection and conformance to plan.

The modular cabinets are professionally packed, ready for easy field installation.

In addition to supplying all metal bay and vertical cabinet installations, American Wireless will also design and provide integrated solutions to meet any unusual requirements. American Wireless may incorporate a selection of wood, laminate and other materials to complete the necessary design requirements.

Using the latest techniques in packaging technology, American Wireless strives to ensure that the products survive long-distance shipping without damage.

Detailed plan drawings sent with the console allow for simplified cabinet placement.

American Wireless will provide and coordinate all necessary presale measurements and conceptual drawings for the customer proposal.

American Wireless offers complete on-site installation services, complimentary installation tutorials and online technical support.

Motorola and the American Wireless (formerly Donco) combined sales support have grown during the past 35 years.

With vast experience in the communications control center business, American Wireless has completed thousands of installations for a long list of satisfied clients, engineers, salespeople and dealers.

What some of our most valued and satisfied customers are saying about American Wireless

John Zaleski - Motorola Senior Account Manager Government Markets

American Wireless Inc. (*formerly Donco*) has always supplied great service and products at a fair price. My customers have always been delighted with the unique products and high quality they have received from American Wireless. I have customers that have been using these products for over 20 years. Again, thank you and keep up the great work.

Stan Rosenblatt - Motorola Senior Account Manager U.S. Federal Government Markets

The staff at American Wireless represent the epitome of working with a true business partner. Serving the dispatch center needs of our large federal law enforcement customers can be a daunting task. When we need to get it ***all*** right the first time, *including the details*, I turn to American Wireless for two simple reasons -- experience and professionalism.

Thomas Schmidt - Motorola Senior Account Manager Government Markets

Working with American Wireless for some 20 years now, supplying their products has always been an enjoyable experience. The products shipped are of high quality, and the service and response to any issues have been professional and quick. They understand the needs and demands of the public safety environment and Motorola.

Scott Martin - Motorola Senior Account Manager U.S. Federal Government Markets

The sales teams in Korea have worked closely with American Wireless on projects for the U.S. military in Korea. These include an eight-position Legacy Line console and a Giant Voice system (MOSCAD). We continue to be very pleased with their sales and technical support and the quality of products. Best of all, our customers are very satisfied with their Motorola/American Wireless solutions.

Cyril Steel - Motorola Systems Customer Support Manager U.S. Federal Government Markets

For the past 35 years, I have been involved in many communications projects that included the products manufactured by American Wireless (*formerly Donco*). The console products and accessories are well-manufactured and often custom made to satisfy your customers' requirements. When necessary, representatives of American Wireless will meet with the end user and will design a custom console system that specifically meets the requirements of your customer. From a service point of view, the installation and support services are excellent.

Mike Bennett - McCord Communications Two-Way Division Manager Federal Markets

I have worked in the communications industry with Motorola and McCord Communications for the last 35 years and have sold American Wireless (*formerly Donco*) on many occasions. Their console design, quality and value have always satisfied my customers' requirements, and they have always been very responsive to all our requests. I would highly recommend their products.

Fred Berrong - Northrop Grumman Corporation Integrated Systems Sector

American Wireless was able to design a furniture system to meet the stringent space requirements of an existing Mission Control Room that met all of the needs for keyboard, monitor, CPU, communications, and specialized display and control equipment. The fit and finish are outstanding and the area is very comfortable to the control room engineers, who must man the stations for extended periods of time during test flights. They were on time with a critical delivery date and their follow-up customer service is exceptional.

Sales Support Process Includes

- Introductory customer needs assessment
- Pre-site survey form completion
- Ergonomic evaluation and space planning
- Complimentary conceptual drawings
- Quotation – Motorola System and Infrastructure Operations (SIO)
- On-site presale survey as needed
- Installation coordination
- Detailed engineering drawings provided with equipment
- Installation tutorials and online support
- Factory gating to required delivery schedule
- Product staging and QA inspection
- Special packaging

Requirements Gathering and Proposal Information

Call the American Wireless Sales Coordination Team at info@awicom.com or call 714-542-7401 for an initial consultation, which will include the provision of system planning tools.

American Wireless console specialists will assist you in gathering information from the clients and supplying conceptual scale drawings for customer orientation and proposal generation.

The Ordering Process

Upon customer presale acceptance of the proposed console configuration, **American Wireless will provide the Motorola product anager with a firm quotation.**

American Wireless will generate a firm quotation using Motorola list (DNUP) pricing. At that time the product manager will create a Motorola DQ model number in COF. The quotation will be held firm for a period of 12 months, after which it will be subject to cancellation or re-quote.

American Wireless will establish a client quotation file and a status monitoring process with the Motorola sales team. Updates will be provided as needed.

Following receipt and logging of the potential order, **American Wireless will commence the order generation process**, which may involve a revalidation of the console configuration followed by factory gating of the order.

American Wireless conducts console system staging as an integral part of each console order. *Motorolans, channel partners, and the client are welcome to attend and preview the assembled furniture system at our manufacturing facility in California and Ontario.*

American Wireless packages the console configuration in specially assembled modules, ready for easy placement into the installation area.

American Wireless Project Commencement

Please call **1-714-542-7401** or email: info@awicom.com and our project coordination process will get you started.

- You will be put in direct contact with a control center specialist.
- An initial survey form will be sent to you by e-mail, followed by system planning tools as may be requested.
- Upon receipt of the basic information, American Wireless will contact you and commence coordination of information gathering, an on-site survey and conceptual proposal generation.
- A complete proposal package will be prepared by American Wireless with Motorola drop-ship pricing.

Tools

Literature available on the ASTRO Logging / Furniture Wiki site

<http://compass.mot-solutions.com/cgi/web/loggingsolutions>

The American Wireless information Web site at <http://www.awicom.com> contains a photo gallery and detailed product information to help guide you through the often complex process of dispatch/control center furniture design.

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[JUMP TO ...](#)
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SHIP CARD](#)

Model

eNodeB Antenna

Ordering Information

Ordering Requirements

To achieve the 2x2 MIMO with dual-polarized antennas:

- 3 antennas are required per 3-sector site
- 2 antennas are required per 2-sector site
- 1 antenna is required per single sector site

Configuration

Models

Remote Electrical Tilt Antenna

The following antennas do NOT contain a factory installed actuator:

Description	Full Description	Nomenclature	APC	Price
DUALPOL ANTENNA, 65DEG, 15DBD, 698-896 MHZ, VARIABLE TILT, LENGTH 96IN	-	TT2361	066	\$1,650.00

The following antennas contain a factory installed RET actuator:

Description	Full Description	Nomenclature	APC	Price
LNx-6515DS-A1M, DUALPOL ANTENNA, 65DEG, 15DBD, 698-896 MHZ, RET, 96.4IN	-	TT2716	066	\$1,990.00
DUALPOL ANTENNA, 85DEG, 14DBD, 698-896 MHZ, RET, 96.4IN	-	TT2663	066	\$2,222.00

DUALPOL ANTENNA, 85DEG, 12DBD, 698-896 MHZ, RET,50.9IN	-	TT2664	066	\$1,940.00
DUALPOL ANTENNA, 65DEG, 12DBD, 698-896 MHZ, RET, 48.5IN	-	TT2665	066	\$1,400.00

Note: The remote electrical tilt features requires software license and hardware. The part number are located on the eNodeB eCat pages.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	DEC	DDN2880	SINGLE COLUMN, X-POL, 1710-2690 MHZ 60 17.2 DBI RET 1-10 NO ACTUATOR	066	80
QUOTEDS	ANL	TT2361	DUALPOL ANTENNA, 65DEG, 15DBD, 698-896 MHZ, VARIABLE TILT, LENGTH 96IN	066	60
QUOTEDS	ANL	TT2663	DUALPOL ANTENNA, 85DEG, 14DBD, 698-896 MHZ, RET, 96.4IN	066	60
QUOTEDS	ANL	TT2664	DUALPOL ANTENNA, 85DEG, 12DBD, 698-896 MHZ, RET,50.9IN	066	60
QUOTEDS	ANL	TT2665	DUALPOL ANTENNA, 65DEG, 12DBD, 698-896 MHZ, RET, 48.5IN	066	60
QUOTEDS	ANL	TT2716	LNx-6515DS-A1M, DUALPOL ANTENNA, 65DEG,15DBD, 698-896 MHZ, RET, 96.4IN	066	60

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model



ASTRO® Digital APX 1500 Enhanced Mobile Subscriber

700/800 MHz

764-776 MHz (3-30 W); 851-870 MHz (3-35 W)

VHF

136-174 (1-50 W)

UHF R1

380-470 MHz (1-40 W)

Self-Quieting Spurs

VHF: 168.000MHz, 144.000MHz

UHF R1: 482.010MHz

UHF R2: 480.000MHz, 490.000MHz, 511.480MHz, 519.250MHz

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model

- 2) Mounting (D)
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Microphone
- 8) Speaker
- 9) Service

Configuration

1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX1500 7/800	-	M36URS9PW1 N	466	\$1,564.00
APX1500 VHF	-	M36KSS9PW1 N	466	\$1,564.00
APX1500 UHF1	-	M36QSS9PW1 N	466	\$1,564.00
APX1500 UHF2	-	M36SSS9PW1 N	466	\$1,564.00

2. Mounting (Required)

APX 1500 models require Dash Mount

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$125.00

Control Station Operation (Optional)

Must select a control head.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	-	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$50.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$43.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	471	\$75.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$14.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	471	\$38.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$38.50
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 144- 150.8	Corresponding kit: HAD4007	G297	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8- 162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$13.50
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$64.00
ADD: VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021	G792	471	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	**DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.** Corresponding Kit: HAE6012	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00

ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$14.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$33.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$33.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$50.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00
ADD: ANT ROOF TOP 5 dB 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$81.75

5: Operation Modes (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$650.00
ENH: SW P25 TRUNKING	-	GA01339	466	\$1,070.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$150.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This			

ADD: GROUP SERVICES	option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$150.00
ADD: One Touch/Status Msg	-	G683	471	\$75.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$450.00

6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$75.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$33.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Encryption Algorithms (Optional)

All APX 1500 Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	Required when using more than one encryption algorithm or encryption key.	W969	466	\$86.25

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B.	G308	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6160A.	G303	656	\$50.00

7: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Corresponding kit: HLN1457	G874	656	\$285.00

ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

8: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50

ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00
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Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

9: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$131.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$246.00
ADD: 5Y ESSENTIAL ACCIDENTAL				

DAMAGE	-	GA00255AC	185	\$398.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00668AA	185	\$111.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00669AA	185	\$138.00

Adapters

Description	Full Description	Nomenclature	APC	Price
AUDIO CABLE ADAPTER	-	HKN6158	706	\$49.00
ADAPTER CABLE DATA	-	HKN6159	706	\$49.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model****ASTRO® Digital APX 1500 Enhanced Mobile Subscriber****700/800 MHz**

764-776 MHz (3-30 W); 851-870 MHz (3-35 W)

VHF

136-174 (1-50 W)

UHF R1

380-470 MHz (1-40 W)

Self-Quieting Spurs

7/800: None

VHF: 153.6 MHz

UHF R1: 438.681 MHz

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

The APX 1500 has evolved to support newer technologies. Direct cloning with Legacy models will not be available.

The 7/800 model (M36URS9PW1**BN**) is ship accepted now. The UHF R1 model (M36QSS9PW1**BN**) will be ship accepted in May, 2020. The VHF model (M36KSS9PW1**BN**) will be ship accepted in June, 2020. **The UHF R1 and VHF models will remain on hold until their ship acceptance dates.**

The UHF R2 Enhanced models will be available in early 2021. For information on the current UHF R2 AN model, refer to the AN Model PCAT page.

Retrofit kits and FLASHport for the Enhanced Models will be available in Q3 2020. The

current retrofit kits and FLASHport options are not compatible with the Enhanced models.

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting (Dash Mount Only)
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Microphone
- 8) Speaker
- 9) Service

Configuration

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX1500 7/800	Enhanced Model	M36URS9PW1BN	466	\$1,564.00
APX1500 ENHANCED VHF	Enhanced Model. Shipping June 2020.	M36KSS9PW1BN	466	\$1,564.00
APX1500 UHF	Enhanced Model. Shipping May 2020.	M36QSS9PW1BN	466	\$1,564.00

2. Mounting (Required)

APX 1500 models require Dash Mount

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$125.00

Control Station Operation (Optional)

Must select a control head.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: KT000254A01	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
	Education O2			

ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Emergency Push Button	GA01056	514	\$50.00
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4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$43.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	471	\$75.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$14.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	471	\$38.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$13.50

ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$64.00
ADD: VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021	G792	471	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	**DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.** Corresponding Kit: HAE6012	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00

5: Operation Modes (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$650.00
ENH: SW P25 TRUNKING	-	GA01339	466	\$1,070.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$150.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$150.00
ADD: One Touch/Status Msg	-	G683	471	\$75.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00

ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$450.00

6. Feature Antennas (Must select one)

Note: The Enhanced APX model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.

Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$70.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$60.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$75.00
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
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<p>ADD: HW KEY SUPPLEMENTAL DATA</p>	<p>The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.</p>	<p>QA01648AA</p>	<p>0655</p>	<p>\$5.00</p>
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Encryption Algorithms (Optional)

All APX 1500 Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
<p>ADD: ADP ONLY (NON-P25 CAP COMPLIANT)</p>	<p>Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.</p>	<p>G193</p>	<p>430</p>	<p>\$0.00</p>

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
<p>ADD: MULTIKEY</p>	<p>Required when using more than one encryption algorithm or encryption key.</p>	<p>W969</p>	<p>466</p>	<p>\$86.25</p>

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price

ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B.	G308	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6160A.	G303	656	\$50.00

7: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding Kit: RMN5070	W382	656	\$169.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Corresponding kit: HLN1457	G874	656	\$285.00
	Requires PTT Option.			

ADD: VISOR MIC REMOTE MOUNT	Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

8: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

9: Service Options (Must Select One)

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$131.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$246.00
ADD: 5Y ESSENTIAL ACCIDENTAL				

DAMAGE	-	GA00255AC	185	\$398.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00668AA	185	\$111.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00669AA	185	\$138.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5

PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5

PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5

PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5

MOBILES	PGF	M36KSS9PW1BN	APX1500 ENHANCED VHF	466	25
MOBILES	PGF	M36QSS9PW1BN	APX1500 UHF	466	25
MOBILES	FSA	M36SSS9PW1 N	APX1500 UHF2	466	11
MOBILES	FSA	M36SSS9PW1 N	APX1500 UHF2	466	11
MOBILES	FSA	M36URS9PW1BN	APX1500 7/800	466	2
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems**

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 1500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as the main line item (T8288, T8289, T8290, T8291, T8292)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. Select the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. IMPORTANT: If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. ALL sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and EXISTING FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE	T8288	T8290	T8289	T8291	T8292
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	ANALOG ANALOG 3600 TRUNKING	SW P25 TRUNKING	9600 OR 3600 DIGITAL TRUNKING
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation	X	X	N/A	X	X
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: TDMA Operation QA00580	X	X	X	X	X

(Requires G806, G51, G361)					
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data W947 (Requires G806 to Operate)	X	X	X	X	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	X	X	X
ENH: SMARTZONE® Omnilink (Non-P25) G173	N/A	N/A	X	X	X
ENH: P25 9600 Baud Trunking G361	N/A	N/A	N/A	X	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	N/A
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey Operation W969	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 1500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 1500 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$0.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$518.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$86.25
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ENH: RADIO TRACE	-	G170AL	430	\$86.25
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$288.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$115.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use	G996AY	430	\$115.00

	Advanced System Key (DVN4046A).			
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$173.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$174.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$230.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$200.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,461.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,173.00
ADD:SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	GA00982AB	430	\$150.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600	-	GA00894AB	430	\$656.00

DIGITAL TRUNKING				
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$76.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$920.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTIKEY	-	W969	466	\$86.25
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$173.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$100.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,070.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
MOBILES	SCB	T8288	ANALOG CONVENTIONAL	430	15
MOBILES	SCB	T8289	SOFTWARE ANALOG 3600 BAUD	430	15
MOBILES	SCB	T8290	SOFTWARE P25 CONVENTIONAL	430	15
MOBILES	SCB	T8291	SW P25 TRUNKING	430	15
MOBILES	SCB	T8292	3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	430	15

ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	
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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems**

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 1500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) ECAT page.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as the main line item (T8288, T8289, T8290, T8291, T8292)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. Select the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. IMPORTANT: If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. ALL sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and EXISTING FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE	T8288	T8290	T8289	T8291	T8292
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	ANALOG ANALOG 3600 TRUNKING	SW P25 TRUNKING	9600 OR 3600 DIGITAL TRUNKING
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation	X	X	N/A	X	X
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: TDMA Operation QA00580	X	X	X	X	X

(Requires G806, G51, G361)					
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data W947 (Requires G806 to Operate)	X	X	X	X	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	X	X	X
ENH: SMARTZONE® Omnilink (Non-P25) G173	N/A	N/A	X	X	X
ENH: P25 9600 Baud Trunking G361	N/A	N/A	N/A	X	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	N/A
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey Operation W969	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 1500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 1500 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

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Ç Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$0.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$518.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$86.25
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ENH: RADIO TRACE	-	G170AL	430	\$86.25
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$288.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$115.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use	G996AY	430	\$115.00

	Advanced System Key (DVN4046A).			
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$173.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$174.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$230.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$200.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,461.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,173.00
ADD:SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	GA00982AB	430	\$150.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600	-	GA00894AB	430	\$656.00

DIGITAL TRUNKING				
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$76.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$920.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTIKEY	-	W969	466	\$86.25
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$173.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$100.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,070.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
MOBILES	SCB	T8288	ANALOG CONVENTIONAL	430	15
MOBILES	SCB	T8289	SOFTWARE ANALOG 3600 BAUD	430	15
MOBILES	SCB	T8290	SOFTWARE P25 CONVENTIONAL	430	15
MOBILES	SCB	T8291	SW P25 TRUNKING	430	15
MOBILES	SCB	T8292	3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	430	15

ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	
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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model



ASTRO® Digital APX 4000XH™ Portable

800/900 MHz Band

P25 Phase 2 Dual Band Capable Radio-

Updates

Announcements:

Please Note: The APX 4000XH is only offered in Canada

Ordering Information

Features

All ASTRO Digital APX 4000XH include the following features:

- GPS Software & Hardware (QA00782)
- Mission Critical Bluetooth (QA00583)
- Radio Packet Data (Q947)
- Advanced Digital Privacy (ADP) -Single Key
- Software Key (QA01749)
- Orange Housing Standard
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- Dual Microphone
- 0.5 Watt Rated Audio

- Degaussing Speaker Grille
- 2.5" Belt Clip (PMLN6086)
- CSA/IECEX Lilon Battery Standard (NNTN8750)
- Dual Band 8/900 MHz Antenna (PMAF4020)
- IP67 Standard
- Full Keypad Includes:
 - Radio Profiles
 - Unified Call List
 - Front Color Display: 2 lines of text, 2 lines of icon
 - Full Keypad: 4 x 3 alpha-numeric 3 programmable button, 4 way navigation, home and data buttons

Ordering procedure is as follows:

HAZLOC CERTIFICATION INFORMATION (CSA Only)

APX 4000XH Portable Radio when properly equipped with NNTN8750 is CANADIAN STANDARDS ASSOCIATION (CSA-157) Approved as intrinsically safe for use in Div 1, Class I , Groups A,B,C,D, And International Electrotechnical Commission Explosive (IECEX) Approved IEC60079, ZONE 1, CLASS IIA

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 4000XH 8/900 MHZ MODEL 3 PORTABLE	-	H51VCH9PW7 N	305	\$3,039.00

Options

3: Operation Mode (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 9600 BAUD TRUNKING W/	-	QA02812	426	\$2,070.00

INTEROPERABILITY				
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$650.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	This option provide P25 Trunking functionality when programmed in 9600 Trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,570.00
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,100.00

4: System Enhancement Software (Refer to ordering guide for help)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580	426	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	426	\$100.00
	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749.			

ADD: HW KEY SUPPLEMENTAL DATA	The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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5: System Enhancement Options (*Optional*)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$200.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$150.00
ENH: APX GPS ACTIVATION	Must have IV&D (Q947) enabled.	QA00782	426	\$150.00
	Please reference the Enhancement Level Reference Guide for more details. This option allows for a			

ENHANCEMENT LEVEL 1	few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the entry tier to go to a mid tier level.	QA01770	426	\$200.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$75.00
ENH: One Touch/Status Msg	-	H46	426	\$75.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$100.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$25.00

6: Algorithm Options (Optional)

Description	Full Description	Nomenclature	APC	Price

ENH: MULTIKEY	-	H869	426	\$330.00
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7: Antenna (Optional- Can Only Select One)

8: Battery (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	-	H207	426	(\$47.00)

9: Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BELT CLIP	-	H301	426	(\$10.00)

10: Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX4000XH PROGRAMING CABLE	-	Q157	426	\$75.00

11: Programming (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	-	Q53	426	\$150.00

12: Service Options (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay			

ADD: 3Y ESSENTIAL SERVICE	the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$90.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$234.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$162.00
ADD: 3Y ESSENTIAL SVC	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio			

CANADA	equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00

13: Manual (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE APX4000XH USER GUIDE CD	-	H88	470	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

14: Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	426	\$0.00

15: Test Results (Optional)

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 4500 Mobile Subscriber

700/800 MHz (3-35 Watts)
VHF - 136 -174 (1-50 Watts)
UHFR1 - 380-470 (1-40 Watts)
UHF R2 450-520 (1-45 Watts)

900MHz - 896-902 / 935-941
(1-35 Watts)

SELF-QUIETING SPURS
Frequencies (MHz)

VHF: 168.000MHz, 144.000MHz

UHF R1: 482.010MHz

*UHF R2: 480.000MHz, 490.000MHz,
511.480MHz, 519.250MHz*

Secure and Trunked Radio Systems

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model

- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Configuration

1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX4500 7/800	-	M22URS9PW1 N	471	\$1,564.00
APX4500 VHF	-	M22KSS9PW1 N	471	\$1,564.00
APX4500 UHF R1	-	M22QSS9PW1 N	471	\$1,564.00
APX4500 UHF R2	-	M22SSS9PW1 N	471	\$1,564.00
APX4500 900MHZ	-	M22WRS9PW1 N	471	\$1,564.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
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ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$297.00
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$125.00

Control Station Operation (Optional)

Must select a control head.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00
ADD: SCHOOL SERCURITY	Education O2 Emergency	GA01056	514	\$50.00

ENHANCEMENT PACKAGE	Push Button			
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	681	\$0.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$43.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$14.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$75.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$38.00

900 MHz Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 900MHZ ANT 3DB LRT 14'	Corresponding kit: RRA4935A	B925	471	\$43.00
ADD: 900MHZ ANT 3DB LRT 22'	RAF4003ARM	B926	471	\$75.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
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ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$38.50
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 144- 150.8	Corresponding kit: HAD4007	G297	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8- 162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$13.50
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$64.00
ADD: VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021	G792	471	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$25.00

ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$50.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 450- 470 MHZ	TEMPORARY: Not compatible with U2- 7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ASSEMBLY,ANTENNA ASSEMBLY,ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$58.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$14.00
ADD: ANT 3 DB ROOF TOP 470- 495 MHZ	Corresponding kit: HAE4012	G493	656	\$33.00
ADD: ANT 3 DB ROOF TOP 494- 512 MHZ	Corresponding kit: HAE4013	G494	656	\$33.00
ADD: ANT LOW PROFILE 450-512	Corresponding kit:			

MHZ	HAE6016	G510	656	\$50.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$50.00
ADD: ANT ROOF TOP 5 dB 470-494 MHz	Corresponding kit: RAE4015ARM.	GA00652	656	\$81.75

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,570.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$650.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,100.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$400.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Available with VRX only. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$250.00
	Requires P25 Digital			

ADD: DVRS PSU ACTIVATION	Trunking. If you are connecting your radio directly to a DVR then order GA00631. Incompatible with GA00631.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS	GA09012	471	\$150.00
ADD: DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011	681	\$100.00
ADD: One Touch/Status Msg	-	G683	471	\$75.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$200.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must	G996	656	\$100.00

	use Advanced System Key (DVN4046A).			
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$75.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ENH: ENHANCEMENT LEVEL 1	-	GA01770	471	\$200.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$450.00

6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$75.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$33.00

Advanced System Key (Optional)

Must Select One if Trunking is Ordered

Description	Full Description	Nomenclature	APC	Price
	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to			

ADD: HW KEY SUPPLEMENTAL DATA	enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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Encryption Algorithms (Optional)

All APX 4500 Mobile Radios ship P25 "clear (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non- FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00

ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$65.00
ADD: NO REMOTE CABLE NEEDED	-	GA00179	656	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$33.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit: HMN1089	G892	656	\$72.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$30.00

ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN7278	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: HANDSET/HANGUP COILED CABLE	Not compatible with Control Station Operation. Corresponding kit: HKN1018	G876	656	\$415.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Direct Mode Entry & Status/Message

DEKs require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$540.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$650.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$105.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$475.00

9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$165.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00
ENH: ENABLE RF MODEM	The APX mobiles do not support Site Lens or System Watch. Therefore, the APX RF Modem function does not support the legacy System Watch or Site Lens applications. The APX RF Modem supports Conventional or 9600 Trunking only. Enabling the RF Modem in conventional mode allows provisioned APX portables to pass accountability data through the portable option Q445.	G319	656	\$0.00

Documentation

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$131.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$275.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$246.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$398.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00668AA	185	\$111.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00669AA	185	\$138.00

MOTOROLA SIREN

NOTE: THE SIREN IS COMPATIBLE WITH REMOTE MOUNT APX AND XTL MOBILES WITH "O" SERIES CONTROL HEADS ONLY. THIS SIREN IS NOT COMPATIBLE WITH ANY "W" SERIES CONTROL HEADS

THE SIREN BASE MODEL TT2592, ONE CABLE AND THE SIREN MOUNTING HARDWARE TT0507 MUST ALWAYS BE ORDERED (THIS SIREN IS ORDERED AS A SEPARATE LINE ITEM, TT2592 IS THE MODEL)

DEK OPTIONS ARE AVAILABLE AS OPTIONS TO THE SUBSCRIBER AS SHOWN BELOW

Description	Full Description	Nomenclature	APC	Price
SIREN HARDWARE INSTALL KIT	-	TT05707AA	571	\$25.00
ADD: SIREN TO RADIO CABLE (21-PIN D	Spare parts part number: DDN1833	TT05900AA	571	\$70.00
WHELEN/MOTOROLA SIREN	Siren AMP- box only spare part: DDN1542 If you need the siren speaker as well, use DDN1784A	TT2592	571	\$618.00
SIREN TO DEK CABLE - O3 CONTROL HEAD ONLY	-	TT05709AA	571	\$78.00

Adapters

Description	Full Description	Nomenclature	APC	Price
AUDIO CABLE ADAPTER	-	HKN6158	706	\$49.00
ADAPTER CABLE DATA	-	HKN6159	706	\$49.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Programming and Data Cables

(Please see [CPS PART NUMBER GUIDE](#) for cable descriptions)

Description	Full Description	Nomenclature	APC	Price
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CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
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DEK/VIP

Description	Full Description	Nomenclature	APC	Price
AUDIO CABLE ADAPTER	-	HKN6158	706	\$49.00
ADAPTER CABLE DATA	-	HKN6159	706	\$49.00

Software and Services

Data Not Available

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ)	554	25

			1/4 WAVE ROOF TOP		
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6

PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8

MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5
PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH	706	14

			HANDSET KIT		
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5
MOBILES	FSA	M22KSS9PW1 N	APX4500 VHF	471	12
MOBILES	FSA	M22QSS9PW1 N	APX4500 UHF R1	471	14
MOBILES	FSA	M22SSS9PW1 N	APX4500 UHF R2	471	15
MOBILES	FSA	M22URS9PW1 N	APX4500 7/800	471	11

MOBILES	FSA	M22WRS9PW1 N	APX4500 900MHZ	471	15
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14

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JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE AND SERVICES](#)[SHIP CARD](#)**Model****ASTRO® Digital APX 4500 Enhanced Mobile Subscriber****700/800 MHz**

764-776 MHz (3-30 W); 851-870 MHz (3-35 W)

VHF

136-174 (1-50 W)

UHF R1

380-470 MHz (1-40 W)

Self-Quieting Spurs

7/800: None

VHF: 153.6 MHz

UHF R1: 438.681 MHz

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

The APX 4500 has evolved to support newer technologies like Wi-Fi. Direct cloning with Legacy models will not be available.

The 7/800 model (M22URS9PW1BN) is ship accepted now. The UHF R1 model (M22QSS9PW1BN) will be ship accepted in May, 2020. The VHF model (M22KSS9PW1BN) will be ship accepted in June, 2020. **The UHF R1 and VHF models will remain on hold until their ship acceptance dates.**

The UHF R2 and 900 MHz Enhanced models will be available in early 2021. For information on the current UHF R2 or 900 MHz AN model, refer to the AN Model PCAT page.

Retrofit kits and FLASHport for the Enhanced Models will be available in Q3 2020. The current retrofit kits and FLASHport options are not compatible with the Enhanced models.

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Configuration

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX4500 7/800 MHZ	Enhanced Model	M22URS9PW1BN	471	\$1,714.00
APX4500 UHF MHZ	Enhanced Model. Shipping May 2020.	M22QSS9PW1BN	471	\$1,714.00
APX4500 ENHANCED VHF	Enhanced Model. Shipping June 2020.	M22KSS9PW1BN	471	\$1,714.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$297.00
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$125.00

Control Station Operation (Optional)

Must select a control head.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
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ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00
ADD: SCHOOL SERCURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$50.00
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	681	\$0.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$43.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$14.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$75.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$38.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP	Corresponding kit:	G296	471	\$13.50

136-144	HAD4006			
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$13.50
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$64.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00

ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$50.00

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,570.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$650.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,100.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$400.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Available with VRX only. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$250.00
	Requires P25 Digital Trunking. If you are			

ADD: DVRS PSU ACTIVATION	connecting your radio directly to a DVR then order GA00631. Incompatible with GA00631.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS	GA09012	471	\$150.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$100.00
ADD: One Touch/Status Msg	-	G683	471	\$75.00
ADD: MULITCAST VOTING SCAN	Requires Digital Operation.	G387	656	\$200.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00

ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$75.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ENH: ENHANCEMENT LEVEL 1	-	GA01770	471	\$200.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$450.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$300.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00

6. Feature Antennas (Must select one)

Note: The Enhanced APX model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.

Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

Multifunction Antennas (Must Select One in Multifunction is Selected)

Requires Wi-Fi (GA09001)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$100.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	-	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$70.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$60.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$75.00
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI	Corresponding kit: PMAN5101			

GLASSMOUNT 2.4/5 GHZ	Requires Wi-Fi (GA09001).	GA01579AB	681	\$70.00
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00

Advanced System Key (Optional)

Must Select One if Trunking is Ordered

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Encryption Algorithms (Optional)

All APX 4500 Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$65.00
ADD: NO REMOTE CABLE NEEDED	-	GA00179	656	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00

ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$33.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit: HMN1089	G892	656	\$72.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00

ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN7278	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: HANDSET/HANGUP COILED CABLE	Not compatible with Control Station Operation. Corresponding kit: HKN1018	G876	656	\$415.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Direct Mode Entry & Status/Message

DEKs require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
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ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$540.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$650.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$105.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$475.00

9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$165.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00
ENH: ENABLE RF MODEM	The APX mobiles do not support Site Lens or System Watch. Therefore, the APX RF Modem function does not support the legacy System Watch or Site Lens applications. The APX RF Modem supports Conventional or 9600 Trunking only. Enabling the RF Modem in conventional mode allows provisioned APX portables to pass accountability data through the portable option Q445.	G319	656	\$0.00

Documentation

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service Options (Must Select One)

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$131.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$275.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$246.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$398.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00668AA	185	\$111.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00669AA	185	\$138.00

Software and Services

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25

PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6

PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8

MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5
PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6

PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5
MOBILES	FSA	M22KSS9PW1BN	APX4500 ENHANCED VHF	471	10

MOBILES	FSA	M22QSS9PW1BN	APX4500 UHF MHZ	471	5
MOBILES	FSA	M22URS9PW1BN	APX4500 7/800 MHZ	471	10
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14

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[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



ASTRO® Digital APX 6000
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 6000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7659, T7660, T7663, T7664, T7665)

2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.

3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.

4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1. Maximum qty of software upgrades is 500 per line item.

6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.

7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7659	T7660	T7664	T7663	T7665
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	DIGITAL SMARTZONE®	ANALOG SMARTZONE®	TDMA®
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation Q808 (NOTE 1)	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	X	N/A	N/A	N/A
ENH: TDMA Operation QA00580 (Requires Digital,	X	X	X	X	N/A

Smartzone, P25)					
ENH: Conventional Vote Scan Q387	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data Q947	N/A	X	X	N/A	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	N/A	N/A	X
ENH: SMARTZONE® Omnalink (Non- P25) Q173	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X	N/A	N/A
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey Operation H869	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 6000 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 6000 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® DIGITAL APX 6000

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7659	430	\$0.00
DIGITAL CONVENTIONAL	-	T7660	430	\$0.00
ANALOG SMARTZONE	-	T7663	430	\$0.00
DIGITAL SMARTZONE	-	T7664	430	\$0.00
TDMA	-	T7665	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AL	430	\$592.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$86.25
ADD: SMARTZONE OMNILINK	-	Q173BD	430	\$230.00
ENH: UPGRADE CONVENTIONAL TO SMART	Compatible with T7659 and T7660.	Q327BK	430	\$920.00
ENH: P25 9600 BAUD TRUNKING	Includes SmartZone Omnilink (Q173)	Q361AT	430	\$345.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to	QA00580AE	430	\$518.00

	be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.			
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$115.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$86.25
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$86.25
ENH: MULTICAST VOTING SCAN	-	Q387BA	430	\$230.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of	Q445AF	430	\$173.00

	using PTT button.			
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$288.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$173.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$173.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$115.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$86.25
ENH: ENHANCEMENT LEVEL 2	-	QA01771AF	430	\$230.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$28.75
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW	QA01843AB	430	\$173.00

	flashport option QA01843AB. Please contact your sales representative for further details.			
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX8000/XE and APX6000/XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000Li or APX6000/XE and SRX2200 AN Models.	QA09001AC	430	\$345.00
ADD: Adaptive Noise Suppression	Adaptive Noise Suppression is only available for FLASHport upgrade on APX6000/XE and SRX2200 BN Models. Adaptive Noise Suppression is not available for upgrade on any APX6000Li models, or on APX6000/XE and SRX2200 AN Models.	QA09006	430	\$173.00
ADVANCED WACN KEY SUPP DATA	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. A SUPPLEMENTAL ID is REQUIRED to be entered when this option is ordered. Please be sure the CORRECT SYSTEM ID is entered. If an incorrect ID is entered, FLASHport will need to be ordered to FIX this error. ADVANCED SYSTEM KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA02018AB	430	\$5.75

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947). includes MULTIKEY. Tactical OTAR is not	H04AW	430	\$403.00

	compatible with DVRs QA00631.			
ENH: MULTIKEY	-	H869CC	430	\$380.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$851.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7659	ANALOG CONVENTIONAL	430	10
PORTABLES	SCB	T7660	DIGITAL CONVENTIONAL	430	10
PORTABLES	SCB	T7663	ANALOG SMARTZONE	430	10
PORTABLES	SCB	T7664	DIGITAL SMARTZONE	430	7
PORTABLES	SCB	T7665	TDMA	430	10
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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Model

ASTRO® Digital APX 6500 Enhanced Mobile Subscriber

700/800 MHz

764-776 MHz (3-30 W); 851-870 MHz (3-35 W)

VHF

136-174 (1-50 W)

UHF R1

380-470 MHz (1-40 W)

Self-Quieting Spurs

7/800: None

VHF: 153.6 MHz

UHF R1: 438.681 MHz

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

The APX 6500 has evolved to support newer technologies like Wi-Fi, and SmartConnect, and the E5 control head has been introduced. Direct cloning with Legacy models will not be available.

The 7/800 model (M25URS9PW1**B**N) is ship accepted now. The UHF R1 model (M25QSS9PW1**B**N) will be ship accepted in May, 2020. The VHF model (M25KSS9PW1**B**N) will be ship accepted in June, 2020. **The UHF R1 and VHF models will remain on hold until their ship acceptance dates.**

The E5 Control Head will ship accept on June, 2020. Mobile radio orders with the E5 Control Head will remain on hold until the control head is ship accepted.

The UHF R2 Enhanced model will be available in early 2021. For information on the current UHF R2 AN model, refer to the AN Model PCAT page.

Retrofit kits and FLASHport for the Enhanced Models will be available in Q3 2020. The current retrofit kits and FLASHport options are not compatible with the Enhanced models.

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Please note, the APX 6500 does not support Motorcycle Configuration.

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

1. Main Model (Must Select One)

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Description	Full Description	Nomenclature	APC	Price
APX 6500 700/800 MHZ	Enhanced Model	M25URS9PW1BN	527	\$2,938.00
APX6500 ENHANCED VHF	Enhanced Model. Shipping June 2020.	M25KSS9PW1BN	527	\$2,938.00
APX6500 ENHANCED UHF R1	Enhanced Model. Shipping May 2020.	M25QSS9PW1BN	527	\$2,938.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for Remote Mount, please reference the "Remote Mount Cables" section.

The O3 dash and remote mount configurations are the same except that the dash mount configurations do not come with the 17ft extension cable, PMLN4958.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$125.00
ADD: REMOTE MOUNT MID POWER	Required for Motorcycle Operation.	G67	656	\$297.00

Motorcycle Mounting (Optional)

HMN1079 (Motorcycle Mic) and HSN4031 (Speaker) are mandatory selections with motorcycle configurations. Motorcycle mount requires the O2, O5, E5, or O7 Control Head and Remote Mount (G67). CAN cables are not compatible with motorcycle. This option includes a weatherized harness. Incompatible with DVRS MSU operation (GA00631)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00
ADD:REMOTE MOUNT MOTORCYCLE	Requires G138 (Motorcycle)	G67BA	656	\$400.00

Trunnion Screws (Optional)

The APX 6500 Enhanced model will ship with HLN6861 to accommodate a smaller, lighter form factor. If it is required to use the previous APX 6500 model trunnion, HLN7002, order GA01693,

which provides KT000053A01, screws that will fit the previous trunnion.

Description	Full Description	Nomenclature	APC	Price
ADD : LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01 Requires remote mount	GA01693	471	\$10.00

Control Station Operation (Optional)

O2, O5, E5, & O7 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: KT000254A01	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00
ADD: SCHOOL SERCURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$50.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$946.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	471	\$572.00

O5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	-	G442	656	\$432.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7	If Lights & Siren Keypad and Software is required, order	GA00805	656	\$632.00

CONTROL HEAD.	GA00806.			
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	If you plan to use this model with an O2/O5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	656	\$0.00

Dual Control Head (Optional)

The APX 6500 mobile can support up to two control heads on a single transceiver. This allows control of a single APX 6500 transceiver from two different control head locations.

Dual Control Head requires Remote Mount.

When ordering the dual control head option, only one type of control head can be selected.

Only available with O2, O5, E5, and O7 Control Heads.

The Dual Control Head Option requires an equal number of microphones, speakers, and CAN cables.

Description	Full Description	Nomenclature	APC	Price
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2, O5, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$570.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013 Incompatible with motorcycle operation.	G174	656	\$43.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014. Incompatible with motorcycle operation.	G175	656	\$75.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit number: HAF4015. Requires motorcycle operation (G138)	G335	656	\$14.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017 Incompatible with motorcycle operation.	W484	656	\$38.00
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: HAF4018 Requires motorcycle operation (G138)	G174	656	\$43.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$58.50
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$13.50

1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$64.00
ADD:VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021.	G792	656	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380- 420 MHZ	Corresponding kit: HAE6012	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450- 470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380- 520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00

Dual Radio Operation Options

The APX Dual Radio Feature offers the capability to control **TWO** (2) APX 8500, APX 7500 or APX 6500 mobile radios from **ONE** (1) O7 control head or E5 control head. APX Dual Radio allows for mixing and matching of radios across tiers (i.e. APX 8500 with APX 6500) and power levels (High Power with Mid Power).

Each radio in an APX Dual Radio system must be ordered independently.

The mobiles in a dual radio solution can be single or dual band. Both radios can be on the same or different frequency bands.

One radio must be ordered with the Primary Radio option (GA01113) and the other with the Secondary Radio option (GA01117). This will include both the SW and HW required for dual radio operation.

Although each radio must be ordered as either a Primary or Secondary radio, each radio can be configured to work as a Primary, Secondary, or a stand alone radio.

Only one speaker can be connected to the control head and it will play audio from the primary radio. A 30 ft. speaker extension cable is included on the secondary radio to connect the second speaker directly to the secondary radio. If a longer cable is needed, a 128 ft. version can be purchased from AAD (part # HKN6251)

The Dual Radio feature is incompatible with the multi-control head options.

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 CH, or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunnion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both together.	GA01113	656	\$650.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$650.00

Dual Radio Options

The Dual Radio trunnion is new to accommodate the smaller form factor of the Enhanced APX 6500. HLN7045A, offered on APX 6500 AN models, is not compatible with the Enhanced APX 6500. HLN7045B is compatible will all Enhanced APX 6500 and APX 8500 models.

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Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO AUDIO COMBINER	-	GA01116	656	\$1,200.00
ADD: DUAL RADIO STACKABLE MP TRUNNION KIT	Corresponding kit: HLN7045B	GA01115	527	\$297.00

5: Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$300.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$200.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$500.00

5D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00

5E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$500.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount (G67).	GA00631	656	\$250.00
	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631			

ADD: DVRS PSU ACTIVATION	is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$150.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$200.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$75.00

ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA00982	656	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and a encryption (not including ADP-only).	H02	481	\$75.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00580	656	\$450.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more details.	GA01771	527	\$200.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$300.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00

ADD: SMARTCONNECT	Requires either or Wi-Fi or Data Modem Tethering. Separate SVC part number must be ordered separately to activate service.	GA01630	681	\$0.00
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6. Feature Antennas (Must select one)

Note: The Enhanced APX 6500 model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.

Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

Multifunction Antennas (Must Select One in Multifunction is Selected)

Requires Wi-Fi (GA09001)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$100.00
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A02 Requires Motorcycle (G138)	GA00250	681	\$100.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	-	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$70.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$60.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$75.00

ADD: GPS ANTENNA MTCL	Corresponding kit: HAG4001. Requires Motorcycle (G138).	GA00269	656	\$75.00
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00

GPS Antenna Adaptor

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$70.00
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Encryption Algorithms (Optional)

All APX 6500 Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$799.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$599.00
ADD: DVP-XL ENCRYPTION APX7500	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$487.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
	Not compatible with ADP-			

ENH: ASTRO 25 OTAR W/ MULTIKEY	Only. Requires AES. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$740.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$350.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$150.00

7. Remote Mount Cables (17 FT STD)

Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Only for O5, E5 & O7 Control Heads.

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$15.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration.	G582	656	\$65.00

	Corresponding kit: HKN6164 (actual cable length is 128 ft)			
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

3c: Optional Data Link Manager CD. Available for download from MOL.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- MOBILES	-	QA00205	655	\$0.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$75.00
ADD:BUZZER 110MA APX	Corresponding Kit: HLN6953	B116	656	\$50.00

ADD: GCAI EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GCAI style Mic. KIT #PMKN4093A.	GA00589	656	\$30.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on O9 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$35.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the O3, 07 and O9 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$250.00
ADD: CABLE URC TO TRANSCEIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CGAI connection.	GA00260	656	\$15.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$33.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$72.00
ADD: MODEL III GCAI KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00

ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$169.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD:HANDSET/HANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswitch PTT. Kit Number: RMN5054_	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN7278_	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: HANDSET/HANGUP COILED CABLE	Not compatible with O3 CH or Control Station Operation. Corresponding Kit: HKN1018	G876	656	\$415.00
ADD: STD PALM MICROPHONE APEX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle	W22	656	\$72.00

	operation.			
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

Emergency

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$56.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$56.00

Direct Mode Entry & Status/Message (Optional)

DEKs are incompatible with the O3 Control Head (except for DEK for Whelen Siren - GA00814). They require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$540.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$475.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$650.00

ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$105.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Requires O3 CH. Corresponding kit: H1882A.	GA00812	656	\$105.00

9: Speakers (Must Select One)

Not compatible with Control Station Operation. Control Station Operation requires No Speaker Needed (G142).

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding Kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00
ADD: AUXILARY SPEAKER MOTORCYCLE	Corresponding kit: HSN6003. Must select for motorcycle operation.	B18	656	\$60.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Incompatible with O3 control head or motorcycle.	W591	656	\$165.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$25.00
ADD: DATA LINK MANAGER APP CD- MOBILES	-	QA00205	655	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service Option (Must Select One)

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$168.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$506.00

ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$222.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Programming and Data Cables

(Please see [CPS PART NUMBER GUIDE](#) for cable descriptions)

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

DEK/VIP

Description	Full Description	Nomenclature	APC	Price
AUDIO CABLE ADAPTER	-	HKN6158	706	\$49.00
ADAPTER CABLE DATA	-	HKN6159	706	\$49.00

Siren & Interface Module

Please visit the [SLIM Product Page](#)

In-Vehicle Router Based Solutions

Please visit the [In-Vehicle Router Based Solutions Product Page](#). It includes the catalog pages for Sierra Wireless' MG90, the MP70 and the RV55.

Software and Services

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ALARMCONT	MWR	DDN1776B	CABLE, HARNESS,SLIM POWER HARNESS	818	2
DATATERM	FSA	H1838	8 STATUS MESSAGE DEK KIT	656	2
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5

PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHz) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHz) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHz) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHz) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHz) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHz) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHz) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHz) 3DB ELEVATED FEED	554	6
PARTS	SCB	HAF4014	ANTENNA (762-870 MHz) 3DB ELEVATED FEED	554	6
			ANTENNA (762-870 MHz) 1/4		

PARTS	CDP	HAF4016	WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8

MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6110	CABLE, POWER, 100W	585	4
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5
PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
MOBILES	PGF	HKN6161	CABLE KIT 20' DATA	476	119
MOBILES	FSA	HKN6161	CABLE KIT 20' DATA	476	4
PARTS	CDP	HKN6164	CABLE,REMOTE MOUNT,131 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6166	CABLE, REMOTE MOUNT, 75 FT	362	4
PARTS	CDP	HKN6167B	CABLE, REMOTE MOUNT, 15M	518	10
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	PDC	HKN6170	CABLE, REMOTE MOUNT, 10 FT	362	25
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5

PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	CDP	HKN6239A	KIT, ADK1.1 CABLE WITH GCAI & DB25 CONNECTORS INCL. 1-WIRE	362	5
MOBILES	CDP	HLN1196	WILDCARD	362	5
MOBILES	FSA	HLN1196	WILDCARD	362	14
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6

PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PGF	HSN4039	EXTERNAL 13W WATER RESISTANT REMOTE MOUNT SPEAKER	706	19
PARTS	PDC	HSN4039	EXTERNAL 13W WATER RESISTANT REMOTE MOUNT SPEAKER	706	11
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5
PARTS	PGF	HSN6003B	MCYCLE WP SPEAKER	500	18
PARTS	FSA	HSN6003B	MCYCLE WP SPEAKER	500	16
MOBILES	PGF	M25KSS9PW1BN	APX6500 ENHANCED VHF	527	25
MOBILES	PGF	M25QSS9PW1BN	APX6500 ENHANCED UHF R1	527	25

MOBILES	PGF	M25URS9PW1BN	APX 6500 700/800 MHZ	527	25
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	CDP	PMLN4958B	O3 CAN 17' EXTENSION CABLE	362	6
PARTS	CDP	PMLN4958B	O3 CAN 17' EXTENSION CABLE	362	6
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14
ALARMCONT	MWR	TT2723B	SLIM KIT (MODULE+GPIO+PWR+AUDIO)	818	5



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Model



ASTRO® Digital APX 6500 Mobile Subscriber

700/800 MHz (10 – 35 Watts)

VHF - 136 -174 (10 - 50 Watts)

UHFR1 - 380-470 (10 - 40 Watts)

UHF R2 450-520 (10 - 45 Watts)

Secure and Trunked Radio Systems

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Effective April 24, 2020: The E5 Control Head will ship accept on June, 2020. Mobile radio orders with the E5 Control Head will remain on hold until the control head is ship accepted.

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Effective July 31, 2018: The APX 6500 High Power Models have been cancelled. The replacement model is the APX 8500 HP Model (M37TXS9PW1AN)

Special Note for United States - State & Local Markets:

In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Please note, the APX 6500 does not support Motorcycle Configuration.

Additional Ordering Information for Service Options

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow

programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX6500 7/800 MHZ MID POWER MOBILE	-	M25URS9PW1 N	527	\$2,438.00
APX6500 VHF MID POWER	-	M25KSS9PW1 N	527	\$2,438.00
APX6500 UHF R1 MID POWER	-	M25QSS9PW1 N	527	\$2,438.00
APX6500 UHF R2 MID POWER	-	M25SSS9PW1 N	527	\$2,438.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation. O3 Dash mount is identical to remote mount minus the 17' extension cable PMLN4958A	G66	656	\$125.00
ADD: REMOTE MOUNT MID POWER	G67 is required for Motorcycle Configuration. G67 FOR Motorcycle Remote Mount is \$400 DUP.	G67	656	\$297.00

Control Station Operation (Optional)

O2, O5, E5 & O7 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires a O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: HPN4007	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00
ADD: SCHOOL SERCURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$50.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order	G72	656	\$946.00

	GA00806.			
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	471	\$572.00

O5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	-	G442	656	\$432.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$632.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX NO O2/O7 CH NEEDED MTCL	If you plan to use this model with an O2/O5/E5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option	G88	656	\$0.00

	(G67).			
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Dual Control Head (Optional)

The APX 6500 mobile can support up to two control heads on a single transceiver. This allows control of a single APX 6500 transceiver from two different control head locations.

Dual Control Head requires Remote Mount.

When ordering the dual control head option, only one type of control head can be selected.

Only available with O2, O5, O7 Control Heads.

The Dual Control Head Option requires an equal number of microphones, speakers, and CAN cables.

Description	Full Description	Nomenclature	APC	Price
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2/O5/E5/O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$570.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$43.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$75.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$14.00

ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$38.00
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VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$58.50
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 144- 150.8	Corresponding kit: HAD4007	G297	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$13.50
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$64.00
ADD:VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021.	G792	656	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00

ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00

UHF R2

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ASSEMBLY,ANTENNA ASSEMBLY,ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$58.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$14.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$33.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$33.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$50.00

ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00
ADD: ANT ROOF TOP 5 dB 470-494 MHz	Corresponding kit: RAE4015ARM	GA00652	656	\$81.75

Dual Radio Operation Options

The APX Dual Radio Feature offers the capability to control **TWO** (2) APX8500, APX7500, APX6500, or APX6500Li mobile radios from **ONE** (1) O7, or E5 control head. APX Dual Radio allows for mixing and matching of radios across tiers (i.e. APX 8500 with APX 6500) and power levels (High Power with Mid Power).

Each radio in an APX Dual Radio system must be ordered independently.

The mobiles in a dual radio solution can be single or dual band. Both radios can be on the same or different frequency bands.

One radio must be ordered with the Primary Radio option (GA01113) and the other with the Secondary Radio option (GA01117). This will include both the SW and HW required for dual radio operation.

Although each radio must be ordered as either a Primary or Secondary radio, each radio can be configured to work as a Primary, Secondary, or a Standalone radio.

Only one speaker can be connected to the control head and it will play audio from the primary radio. A 30 ft. speaker extension cable is included on the secondary radio to connect the second speaker directly to the secondary radio. If a longer cable is needed, a 131 ft. version can be purchased from AAD (part # HKN6251)

The Dual Radio feature is incompatible with the multi-control head options.

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunnion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. If a different length is desired, the standard remote mount control head cables can	GA01113	656	\$650.00

	also be used to connect both together.			
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$650.00

Dual Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO STACKABLE MP TRUNNION	Comprised of HLN7045A and HKN6249A	GA01115	656	\$297.00
ADD: DUAL RADIO AUDIO COMBINER	-	GA01116	656	\$1,200.00

5: Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$300.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00

ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$200.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$515.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$500.00

5D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,200.00
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00

5E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$500.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount (G67).	GA00631	656	\$250.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$150.00

ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$200.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$75.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA00982	656	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and a encryption (not including ADP-only).	H02	481	\$75.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00580	656	\$450.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more	GA01771	527	\$200.00

	details.			
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Enhancement Level Reference Guide

6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$33.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$75.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Encryption Algorithms (Optional)

All APX 6500 Mobile Radios ship P25 "clear (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
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ADD: AES ENCRYPTION APX	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$799.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$599.00
ADD: DVP-XL ENCRYPTION APX7500	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$487.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Requires AES. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$740.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$350.00

ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$150.00
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7. Remote Mount Cables (17 FT STD)

Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Only for O5, E5 & O7 Control Heads.

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$15.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater that 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration. Corresponding kit: HKN6164 (actual cable length is 128 ft)	G582	656	\$65.00
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

3c: Optional Data Link Manager CD. Available for download from MOL.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-MOBILES	-	QA00205	655	\$0.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$75.00
ADD:BUZZER 110MA APX	Corresponding Kit: HLN6953	B116	656	\$50.00
ADD: GCAI EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GCAI style Mic. KIT #PMKN4093A.	GA00589	656	\$30.00
ADD:REMOTE MOUNT VIP	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren.	G322	656	\$35.00

CBL APX	Gunlock supported on O9 Control Head Only. CORRESPONDING KIT: (HKN6196B)			
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the O3, 07 and O9 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$250.00
ADD: CABLE URC TO TRANSCEIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CGAI connection.	GA00260	656	\$15.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$33.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$72.00
ADD: MODEL III GCAI KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND	Corresponding kit:			

WIRELESS RSM	RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$169.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD:HANDSET/HANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswitch PTT. Kit Number: RMN5054_	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN7278_	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: HANDSET/HANGUP COILED CABLE	Not compatible with O3 CH or Control Station Operation. Corresponding Kit: HKN1018	G876	656	\$415.00

Emergency

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$56.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$56.00

Direct Mode Entry & Status/Message (Optional)

DEKs are incompatible with the O3 Control Head (except for DEK for Whelen Siren - GA00814). They require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$540.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$475.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$650.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$105.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Requires O3 CH. Corresponding kit: H1882A.	GA00812	656	\$105.00

9: Speakers (Must Select One)

Not compatible with Control Station Operation. Control Station Operation requires No Speaker Needed (G142).

Description	Full Description	Nomenclature	APC	Price

ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding Kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. NOT compatible with O3 control head or motorcycle.	W591	656	\$165.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$25.00

ADD: DATA LINK MANAGER APP CD-MOBILES	-	QA00205	655	\$0.00
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RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$168.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$506.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$222.00

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on APX 7000 Dual Display Portable radios. Advanced Messaging is NOT supported on APX 7000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for APX Mobiles Require: (Note: some control heads are not available on all main models)

O9, O7, O5, E5, O3 or O2 Control Heads
 With O2, E5 or O5 Control Heads Require Keypad Mic (W20)
 ASTRO Digital CAI Operation (G806)
 P25 Conventional (G48)
 Packet Data Interface (W947)

OR

O9, O7, O5, E5, O3 or O2 Control Heads
 With O2, E5 or O5 Control Heads Require Keypad Mic (W20)
 ASTRO Digital CAI Operation (G806)
 SmartZone Operation (G51)
 ASTRO Project 25 Trunking Software (G361)
 Packet Data Interface (W947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit - [ASTRO25 Advanced Messaging](#)

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Programming and Data Cables

(Please see [CPS PART NUMBER GUIDE](#) for cable descriptions)

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Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

DEK/VIP

Description	Full Description	Nomenclature	APC	Price
AUDIO CABLE ADAPTER	-	HKN6158	706	\$49.00
ADAPTER CABLE DATA	-	HKN6159	706	\$49.00

Siren & Interface Module

Please visit the [SLIM Product Page](#)

In-Vehicle Router Based Solutions

Please visit the [In-Vehicle Router Based Solutions Product Page](#). It includes the catalog pages for Sierra Wireless' MG90, the MP70 and the RV55.

Software and Services

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ALARMCONT	MWR	DDN1775B	COMPUTER PERIPHERAL,SLIM POWER HARNESS	818	2

ALARMCONT	MWR	DDN1776B	CABLE, HARNESS,SLIM POWER HARNESS	818	2
DATATERM	FSA	H1838	8 STATUS MESSAGE DEK KIT	656	2
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3

FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID	706	3

			POWER) 30 & 35 WATT		
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6110	CABLE, POWER, 100W	585	4
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5
PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
MOBILES	PGF	HKN6161	CABLE KIT 20' DATA	476	119
MOBILES	FSA	HKN6161	CABLE KIT 20' DATA	476	4
PARTS	CDP	HKN6164	CABLE,REMOTE MOUNT,131 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6166	CABLE, REMOTE MOUNT, 75 FT	362	4

PARTS	CDP	HKN6167B	CABLE, REMOTE MOUNT, 15M	518	10
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	PDC	HKN6170	CABLE, REMOTE MOUNT, 10 FT	362	25
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	CDP	HKN6239A	KIT, ADK1.1 CABLE WITH GCAI & DB25 CONNECTORS INCL. 1- WIRE	362	5
MOBILES	CDP	HLN1196	WILDCARD	362	5
MOBILES	FSA	HLN1196	WILDCARD	362	14
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1

PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PGF	HSN4039	EXTERNAL 13W WATER RESISTANT REMOTE MOUNT SPEAKER	706	19
PARTS	PDC	HSN4039	EXTERNAL 13W WATER RESISTANT REMOTE MOUNT SPEAKER	706	11
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5
PARTS	PGF	HSN6003B	MCYCLE WP SPEAKER	500	18

PARTS	FSA	HSN6003B	MCYCLE WP SPEAKER	500	16
MOBILES	FSA	M25KSS9PW1 N	APX6500 VHF MID POWER	527	17
MOBILES	FSA	M25QSS9PW1 N	APX6500 UHF R1 MID POWER	527	18
MOBILES	FSA	M25SSS9PW1 N	APX6500 UHF R2 MID POWER	527	15
MOBILES	FSA	M25URS9PW1 N	APX6500 7/800 MHZ MID POWER MOBILE	527	12
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	CDP	PMLN4958B	O3 CAN 17' EXTENSION CABLE	362	6
PARTS	CDP	PMLN4958B	O3 CAN 17' EXTENSION CABLE	362	6
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5

PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	CDP	TDN6251	SPEAKER SIREN, ROUND W/CHROME & BLACK	706	2
PARTS	CDP	TDN6252	SPEAKER RECTANGULAR WITH CHROME FINISH	706	2
PARTS	CDP	TDN6253	SPEAKER UNDERHOOD WITH GRAY FINISH	706	5
PARTS	CDP	TDN6254	SPEAKER ROUND WITH GRAY FINISH	706	5
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14
ALARMCONT	MWR	TT2723B	SLIM KIT (MODULE+GPIO+PWR+AUDIO)	818	5

Update History

Starting January 1 2015. The SOFTWARE KEY (QA01749) is the default Advance System Key, it ships by default on all APX products; The HARDWARE KEY can be ordered instead by using QA01648. The DVN4046 Master Key Starter Kit is required for the Hard Key or to operate on a third-party Trunking system. The CORRECT System Owner ID will be required upon ordering the Hard Key or DVN Kit. Details can be found on the [Advanced System Keys-ASK for RSD Subscriber](#) ECAT page Be sure to enter the CORRECT SYSTEM OWNER ID when supplemental data is required. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[UPDATE HISTORY](#)

Model



ASTRO® Digital APX 6500Li Mobile Subscriber

700/800 MHz (10 – 35 Watts)

VHF - 136 -174 (10-50 Watts)

UHFR1 - 380-470 (10-40 Watts)

UHF R2 450-520 (10-45 Watts)

Secure and Trunked Radio Systems

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Special Note for United States - State & Local Markets:

In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Please note, the APX 6500Li does not support Motorcycle Configuration.

Additional Ordering Information for Service Options

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX6500 7/800 MHZ MID POWER MOBILE	-	M25URS9PW1 N	527	\$2,438.00
APX6500 VHF MID POWER	-	M25KSS9PW1 N	527	\$2,438.00

APX6500 UHF R1 MID POWER	-	M25QSS9PW1 N	527	\$2,438.00
APX6500 UHF R2 MID POWER	-	M25SSS9PW1 N	527	\$2,438.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$125.00
ADD: REMOTE MOUNT MID POWER	-	G67	656	\$297.00

Control Station Operation (Optional)

O2 & O5 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$269.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$70.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00

O5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	-	G442	656	\$432.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	Requires remote mounting option (G67 or G655)	G88	656	\$0.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$43.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$14.00

ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$75.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	656	\$38.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$58.50
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 144- 150.8	Corresponding kit: HAD4007	G297	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$13.50
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$64.00
ADD:VHF ANT WIDEBAND 136- 174 MHZ	Corresponding kit: HAD4021	G792	656	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010.	G427	656	\$55.00
ADD: ANT 5.0DB 380-420	Corresponding kit: HAE6011	G429	656	\$62.00

MHZ MAXRAD				
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013.	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$50.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ASSEMBLY,ANTENNA ASSEMBLY,ADD: 5DB GAIN ANT	Corresponding kit:	G486	656	\$58.00

494-512 MHZ	RAE4016ARB.			
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004.	G490	656	\$14.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$33.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$33.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$50.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$50.00
ADD: ANT ROOF TOP 5 dB 470-494 MHz	Corresponding kit: RAE4015ARM	GA00652	656	\$81.75

5: Operation Mode (Must Select One)

Trunking mode requires either a Software Key (QA01749 comes standard unless QA01648 is selected), or a Hardware Key (QA01648).

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,570.00
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	Q443	755	\$1,100.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$400.00
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	Q811	426	\$650.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$250.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$150.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$75.00
ADD: MULITCAST VOTING SCAN	Requires Digital Operation.	G387	656	\$200.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00

ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$75.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$450.00

6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$33.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$75.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order			

ADD: HW KEY SUPPLEMENTAL DATA	software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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Encryption Algorithms (Optional)

All APX 6500Li Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

The APX 6500Li does not support multiple hardware encryption types.

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: DES/DES-XL/DES- OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$599.00
ADD: DVP-XL ENCRYPTION APX7500	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$487.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non- FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional. Can only select one)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
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ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ADD:TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$350.00

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$65.00
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
	16.5 FT USB W/IGNITION			

ADD:USB DATA INTFC CABLE-TRK	SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$75.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$33.00
ADD: GCAI EXTENSION CABLE 2 FT	Requires GCAI style Mic. Corresponding Kit PMKN4093A.	GA00589	656	\$30.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Corresponding Kit: HKN6196B	G322	656	\$35.00
ADD: UNIVERSAL RELAY CONTROLLER	Requires URC-Transceiver Cable	GA00259	656	\$250.00
ADD: CABLE URC TO TRANSCEIVER	Requires Universal Relay Controller	GA00260	656	\$15.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Not compatible with control station operation.	G892	656	\$72.00

	Corresponding kit HMN1089A			
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit	W872	656	\$30.00

	Number: RMN5054			
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: HANDSET/HANGUP COILED CABLE	Not compatible with Control Station Operation.	G876	656	\$415.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$56.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$56.00

Direct Mode Entry & Status/Message

Require Remote Mount configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$540.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$475.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$650.00

ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$105.00
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9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary Wildcard

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$165.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00
ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$168.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$506.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$222.00

SIREN AND LIGHTS INTERFACE MODULE

(Allows for control of most light and siren systems via radio control head. Not required for Motorola Siren.)

MOTOROLA SIREN

(This siren can be connected directly to the mobile radio)

Siren and Lights Interface Module not required for this siren.

NOTE: THE NEW SIREN IS COMPATIBLE WITH APX AND XTL REMOTE MOUNT MOBILES WITH "O" SERIES CONTROL HEADS ONLY. THIS SIREN IS NOT COMPATIBLE WITH ANY "W" SERIES CONTROL HEADS.

THE SIREN BASE MODEL TT2592, CABLE TT05900 AND THE SIREN MOUNTING HARDWARE TT0507 MUST ALWAYS BE ORDERED (THIS SIREN TT2592 IS ORDERED AS A SEPARATE LINE ITEM THEN THE RADIO MODEL).

DEK OPTIONS ARE AVAILABLE AS OPTIONS TO THE SUBSCRIBER AS SHOWN BELOW.

Description	Full Description	Nomenclature	APC	Price
WHELEN/MOTOROLA SIREN	Siren AMP- box only spare part: DDN1542 If you need the siren speaker as well, use DDN1784A	TT2592	571	\$618.00
SIREN HARDWARE INSTALL KIT	-	TT05707AA	571	\$25.00
ADD: SIREN TO RADIO CABLE (21-PIN D	Spare parts part number: DDN1833	TT05900AA	571	\$70.00
SIREN TO DEK CABLE - O3 CONTROL HEAD ONLY	-	TT05709AA	571	\$78.00

Bull Horns for Sirens and Public Address

Description	Full Description	Nomenclature	APC	Price
SPEAKER SIREN, ROUND W/CHROME & BLACK	-	TDN6251	706	\$329.00
SPEAKER RECTANGULAR WITH CHROME FINISH	-	TDN6252	706	\$265.00
SPEAKER UNDERHOOD WITH GRAY				

FINISH	-	TDN6253	706	\$220.00
SPEAKER ROUND WITH GRAY FINISH	-	TDN6254	706	\$248.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Programming and Data Cables

(Please see [CPS PART NUMBER GUIDE](#) for cable descriptions)

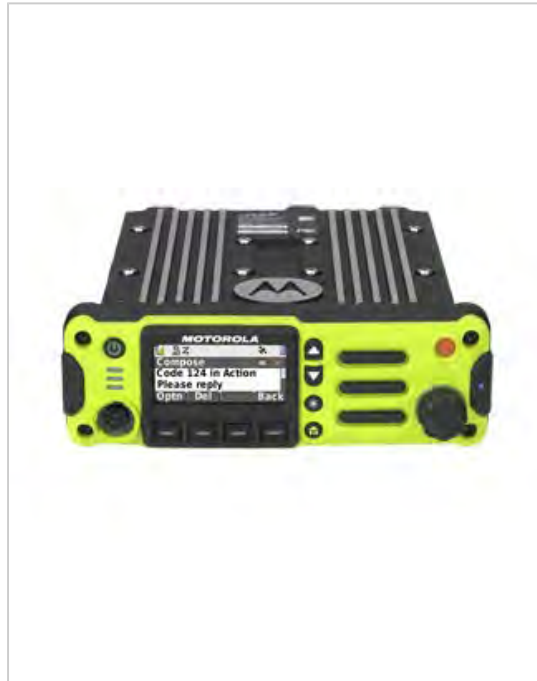
Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Software and Services

Update History

Starting January 1 2015. The SOFTWARE KEY (QA01749) is the default Advance System Key, it ships by default on all APX products; The HARDWARE KEY can be ordered instead by using QA01648. The DVN4046 Master Key Starter Kit is required for the Hard Key or to operate on a third-party Trunking system. The CORRECT System Owner ID will be required upon ordering the Hard Key or DVN Kit. Details can be found on the [Advanced System Keys-ASK for RSD Subscriber](#) ECAT page Be sure to enter the CORRECT SYSTEM OWNER ID when supplemental data is required. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.

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JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model****ASTRO® Digital APX 6500Li Enhanced Mobile Subscriber****700/800 MHz**

764-776 MHz (3-30 W); 851-870 MHz (3-35 W)

VHF

136-174 (1-50 W)

UHF R1

380-470 MHz (1-40 W)

Self-Quieting Spurs

7/800: None

VHF: 153.6 MHz

UHF R1: 438.681 MHz

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

The APX 6500Li has evolved to support newer technologies like Wi-Fi. Direct cloning with Legacy models will not be available.

The 7/800 model (M25URS9PW1BN) is ship accepted now. The UHF R1 model (M25QSS9PW1BN) will be ship accepted in May, 2020. The VHF model (M25KSS9PW1BN) will be ship accepted in June, 2020. **The UHF R1 and VHF models will remain on hold until their ship acceptance dates.**

The E5 Control Head will ship accept on June, 2020. Mobile radio orders with the E5 Control Head will remain on hold until the control head is ship accepted.

The UHF R2 Enhanced model will be available in early 2021. For information on the current UHF R2 AN model, refer to the AN Model PCAT page.

Retrofit kits and FLASHport for the Enhanced Models will be available in Q3 2020. The current retrofit kits and FLASHport options are not compatible with the Enhanced models.

Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selections:

- 1) Main Model
- 2) Mounting
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Please note, the APX 6500Li does not support Motorcycle Configuration.

Additional Ordering Information for Service Options

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 6500 700/800 MHZ	Enhanced Model	M25URS9PW1BN	527	\$2,938.00
APX6500 ENHANCED VHF	Enhanced Model. Shipping June 2020.	M25KSS9PW1BN	527	\$2,938.00
APX6500 ENHANCED UHF R1	Enhanced Model. Shipping May 2020.	M25QSS9PW1BN	527	\$2,938.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$125.00
ADD: REMOTE MOUNT MID POWER	-	G67	656	\$297.00

Trunnion Screws (Optional)

The APX 6500Li Enhanced model will ship with HLN6861 to accommodate a smaller, lighter form factor. If it is required to use the previous APX 6500 model trunnion, HLN7002, order GA01693, which provides KT000053A01, screws that will fit the previous trunnion.

Description	Full Description	Nomenclature	APC	Price
ADD : LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01 Requires remote mount	GA01693	471	\$10.00

Control Station Operation (Optional)

O2, O5, & E5 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5 or E5 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$70.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	471	\$572.00

O5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	-	G442	656	\$432.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE NO CONTROL HEAD	If you already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	681	\$0.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$43.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$14.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$75.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$38.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$13.50
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$13.50

ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$19.50
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$13.50
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$64.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	656	\$75.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$47.75

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010.	G427	656	\$55.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$62.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$110.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$25.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$25.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$50.00
ADD: ANT WIDEBAND				

380-470 MHZ MAXRA	Corresponding kit: HAE6013.	G431	656	\$58.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$50.00

5: Operation Mode (Must Select One)

Trunking mode requires either a Software Key (QA01749 comes standard unless QA01648 is selected), or a Hardware Key (QA01648).

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,570.00
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	Q443	755	\$1,100.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$400.00
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	Q811	426	\$650.00

System Enhancement Options (Optional)

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$250.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00

ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$150.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$75.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$200.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00

ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$75.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$150.00
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$450.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$300.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00

6. Feature Antennas (Must select one)

Note: The Enhanced APX 6500Li model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.

Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

Multifunction Antennas (Must Select One in Multifunction is Selected)

Requires Wi-Fi (GA09001)

Description	Full Description	Nomenclature	APC	Price
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ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$100.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	-	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$70.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$60.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$75.00
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00

GPS Antenna Adaptors (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04.	GA01576	986	\$0.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$70.00
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
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<p>ADD: HW KEY SUPPLEMENTAL DATA</p>	<p>The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.</p>	<p>QA01648AA</p>	<p>0655</p>	<p>\$5.00</p>
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Encryption Algorithms (Optional)

All APX 6500Li Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

The APX 6500Li does not support multiple hardware encryption types.

Description	Full Description	Nomenclature	APC	Price
<p>ADD: AES ENCRYPTION APX</p>	<p>Requires digital operation. P25 CAP Compliant option. Includes ADP.</p>	<p>G843</p>	<p>656</p>	<p>\$475.00</p>
<p>ADD: DES/DES-XL/DES-OFB ENCRYPTION</p>	<p>Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.</p>	<p>G625</p>	<p>656</p>	<p>\$599.00</p>
<p>ADD: DVP-XL ENCRYPTION APX7500</p>	<p>Includes ADP. Non-P25 CAP Compliant option.</p>	<p>W797</p>	<p>656</p>	<p>\$487.00</p>
<p>ADD: ADP ONLY (NON-P25 CAP COMPLIANT)</p>	<p>Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.</p>	<p>G193</p>	<p>430</p>	<p>\$0.00</p>

Multikey (Optional. Can only select one)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ADD:TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$350.00

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$65.00
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
	6 FT USB W/IGNITION SENSE			

ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$50.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$50.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$75.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$33.00
ADD:BUZZER 110MA APX	Corresponding kit: HLB6953	B116	656	\$50.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Not compatible with control station operation. Corresponding kit HMN1089A	G892	656	\$72.00
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00

ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit Number: RMN5054	W872	656	\$30.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$51.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00

ADD: HANDSET/HANGUP COILED CABLE	Not compatible with Control Station Operation.	G876	656	\$415.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$56.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$56.00

Direct Mode Entry & Status/Message

Require Remote Mount configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$540.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$475.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$650.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$105.00

9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price

ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$60.00
ADD: AUXILARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary Wildcard

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$165.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$25.00

ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
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RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10: Service (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$168.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$506.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$222.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
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CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
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Programming and Data Cables

(Please see [CPS PART NUMBER GUIDE](#) for cable descriptions)

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
			ANTENNA, VHF (144-150.8		

PARTS	RNS	HAD4007	MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
PARTS	CDP	HAD4017A	ANT ROOF MT WB VHF 146/174	554	4
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
FIXEDSTN	CDP	HAD4022A	ANTENNA 132-174 3DB GAIN	554	3
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6

PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
PARTS	CDP	HKN4191	POWER CABLE, 10 FT. (LOW/MID POWER) 30 & 35 WATT	706	3
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
			POWER CABLE, 20 FOOT TO		

MOBILES	PDC	HKN4192	12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
MOBILES	PDC	HKN4192	POWER CABLE, 20 FOOT TO 12V BATTERY	706	8
PARTS	CDP	HKN6110	CABLE, POWER, 100W	585	4
PARTS	CDP	HKN6158	AUDIO CABLE ADAPTER	706	5
PARTS	CDP	HKN6159	ADAPTER CABLE DATA	706	3
MOBILES	PGF	HKN6161	CABLE KIT 20' DATA	476	119
MOBILES	FSA	HKN6161	CABLE KIT 20' DATA	476	4
PARTS	CDP	HKN6164	CABLE,REMOTE MOUNT,131 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6165	CABLE, REMOTE MOUNT, 115 FT	362	5
PARTS	CDP	HKN6166	CABLE, REMOTE MOUNT, 75 FT	362	4
PARTS	CDP	HKN6167B	CABLE, REMOTE MOUNT, 15M	518	10
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	CDP	HKN6169B	CABLE, REMOTE MOUNT, 5M	362	6
PARTS	PDC	HKN6170	CABLE, REMOTE MOUNT, 10 FT	362	25
			CABLE CH,		

PARTS	PDC	HKN6184C	PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
MOBILES	CDP	HLN1196	WILDCARD	362	5
MOBILES	FSA	HLN1196	WILDCARD	362	14
PARTS	CDP	HLN1457	HANDSET/HANGUP (HANGUP CUP)	706	2
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN5113	EMERGENCY FOOT SWITCH	706	3
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	CDP	HLN6042	MOBILE DESK TRAY	706	6
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6
PARTS	CDP	HSN4032B	MCS EXT SPKR 13W	706	6

PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PARTS	PDC	HSN4038	EXTERNAL 7.5 WATT WATER RESISTANT REMOTE MOUNT SPEAKER	706	8
PORTABLES	CDP	HSN4040A	EXTERNAL WATER RESISTANT SPEAKER 15 WATTS	706	5
PARTS	PGF	HSN6003B	MCYCLE WP SPEAKER	500	18
PARTS	FSA	HSN6003B	MCYCLE WP SPEAKER	500	16
MOBILES	PGF	M25KSS9PW1BN	APX6500 ENHANCED VHF	527	25
MOBILES	PGF	M25QSS9PW1BN	APX6500 ENHANCED UHF R1	527	25
MOBILES	PGF	M25URS9PW1BN	APX 6500 700/800 MHZ	527	25
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
PARTS	PGF	PMKN4033A	CABLE, MOBILE MIC EXTENSION, 10FT	706	31
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL	0655	

			DATA		
PARTS	PGF	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	70
PARTS	CDP	RAD4002ARB	ANTENNA VHF 1/4 WAVE	554	15
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	CDP	RAD4004ARB	ANTENNA VHF 1/4 WAVE	554	1
PARTS	PGF	RAD4005ARB	ANTENNA VHF 1/4 WAVE	554	70
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PORTABLES	CDP	RLN5926A	PUSH BUTTON PTT	706	5
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	PDC	RMN5070A	AS. SPECTRA & XTL5000 DESKTOP MIC	706	3
PARTS	CDP	TDN6251	SPEAKER SIREN, ROUND W/CHROME & BLACK	706	2
PARTS	CDP	TDN6252	SPEAKER RECTANGULAR WITH CHROME FINISH	706	2
PARTS	CDP	TDN6253	SPEAKER UNDERHOOD WITH GRAY FINISH	706	5
PARTS	CDP	TDN6254	SPEAKER ROUND WITH GRAY FINISH	706	5
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14

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[CONFIGURATION](#)

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Model



ASTRO® Digital APX 7000/APX 7000XE
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 7000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management ECAT](#) page.

Ordering Requirements

1. **Specify** the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7549, T7550, T7551, T7552, T7553, T7554)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7549	T7550	T7551	T7552	T7553	T7554	T7627
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	ANALOG SMARTNET®	DIGITAL SMARTNET®	DIGITAL SMARTZONE®	ANALOG SMARTZONE®	TDMA®
OPERATION MODES (List as sub items)							
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	N/A	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)							
ENH: Upgrade Conventional to SMARTNET® Q326AU	X	X	N/A	N/A	N/A	N/A	N/A
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	X	N/A	N/A	N/A	N/A	N/A
ENH: Upgrade SMARTNET® to SMARTZONE® Q327BJ	N/A	N/A	X	X	N/A	N/A	N/A
ENH: TDMA Operation QA00580	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENH: Conventional Vote Scan Q387	X	X	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)							
ENH: Radio Packet Data Q947	N/A	X	N/A	N/A	X	N/A	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	N/A	N/A	X	N/A	X
ENH: SMARTZONE® Omnalink (Non-P25) Q173	N/A	N/A	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	N/A	N/A	X	N/A	N/A
ENH: Enable Dual Band Operation QA00579	X	X	X	X	X	X	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	X	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub							

items)							
ADD: Multikey Operation H869	X	X	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 7000 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 7000 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

[ASTRO® DIGITAL APX 7000](#)

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7549	430	\$0.00
ANALOG SMARTNET	-	T7551	430	\$0.00
DIGITAL SMARTNET	-	T7552	430	\$0.00
DIGITAL SMARTZONE	-	T7553	430	\$0.00
DIGITAL CONVENTIONAL	-	T7550	430	\$0.00
ANALOG SMARTZONE	-	T7554	430	\$0.00
TDMA	-	T7627	430	\$0.00

Options

Operating

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE DUAL BAND OPERATION	-	QA00579AB	430	\$1,150.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AK	430	\$592.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	Compatible with T7549 and T7550	Q327BH	430	\$920.00

ENH: UPGRADE CONVENTIONAL TO SMARTNET	-	Q326AU	430	\$575.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00
ENH: SMARTZONE OMNILINK (NON-P25)	-	Q173AY	430	\$230.00
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$86.25
ENH: P25 9600 BAUD TRUNKING	-	Q361AP	430	\$345.00
ENH: TDMA OPERATION	Requires Q808 (Digital), Q327 (Smartzone), Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AB	430	\$518.00
ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7551 and T7552	Q327BJ	430	\$460.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$115.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$173.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW	QA01843AB	430	\$173.00

	flashport option QA01843AB. Please contact your sales representative for further details.			
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$173.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AB	430	\$173.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947BB	430	\$288.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AG	430	\$28.75
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$115.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$230.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$851.00
ENH: MULTIKEY	-	H869BX	430	\$380.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$172.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Accessories

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time

SYSPERIPH	SCB	T7549	ANALOG CONVENTIONAL	430	51
SYSPERIPH	SCB	T7550	DIGITAL CONVENTIONAL	430	6
SYSPERIPH	SCB	T7551	ANALOG SMARTNET	430	8
SYSPERIPH	SCB	T7552	DIGITAL SMARTNET	430	5
SYSPERIPH	SCB	T7553	DIGITAL SMARTZONE	430	7
SYSPERIPH	SCB	T7554	ANALOG SMARTZONE	430	5
PORTABLES	SCB	T7627	TDMA	430	8
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

MODEL



Motorola APX™ All Band Console
VHF(136 -174MHz), UHF R1(380-470MHz), UHF R2(450-512MHz), 700/800 MHz

Conventional, Secure and Trunked Radio Systems

UPDATES

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

NEW FOR 2020: Wi-Fi Connectivity is now orderable on the APX ALL BAND CONSOLETTTE (Note: only 3rd party SMA WIFI antennas)

For Flashport please see APX 8500 Mobile Page (Pull down Menu-Flashport): https://www.motorolasolutions.com/en_us/products/two-way-radios/project-25-radios/mobile-radios/apx8500.html#productcat

NEW FOR 2019:

LAUNCHING the APX ALL NEW BAND CONSOLETTTE

ORDERABLE AS ALL BAND, DUAL BAND OR SINGLE BAND (OPTION DRIVEN)

ORDERING INFORMATION

Ordering Sequence

Here is an example of a **APX ALL BAND CONSOLETTTE L37TSS9PW1AN** APCO P25 Trunking Equipped Radio

LINE ITEM	QTY	MAIN LINE ITEM	DESCRIPTION	Comments:
1A	1	GA05509	DEL:UHF BAND	Delete Frequency Bands (Optional: Can select a Maximum of TWO)
1B	1	G806	SOFTWARE ASTRO DIGITAL CAI OPERATION	Select Operation Mode
1C	1	G51	SMARTZONE OPERATION	Select System Enhancement Software
1D	1	G361	ASTRO PROJECT 25 TRUNKING SOFTWARE	Select An Optional System Enhancement Software
1E	1	L999	Limited Front Panel W/Clock/VU Meter	Select Front Panel Hardware
1F	1	W382	CNTRL Station Palm Mic GCAI APX	Select Paddle Microphone
1G	1	CA01598	AC Line Cord US	Select AC Line Cord
1H	1	CA01942	DC Cord	Select DC Power Cord

NOTE: LINK TO CANCELLATION NOTICES:

<https://batchat.motorolasolutions.com/home/ls/community/north-america-sales/post/6254201979142144>

<https://batchat.motorolasolutions.com/home/ls/community/north-america-sales/post/5082467590602752>

<https://batchat.motorolasolutions.com/home/ls/community/north-america-sales/post/4527648614252544>

<https://batchat.motorolasolutions.com/home/ls/community/north-america-sales/post/5647246155186176>

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ALL BAND CONSOLETTTE	APX ALL BAND CONSOLETTTE	L37TSS9PW1 N	681	\$8,040.00

Options

Delete Frequency Bands (Optional. Can select a Maximum of Two)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800MHZ BAND	Delete 7/800 MHz Band	GA05507	681	(\$800.00)
DEL: DELETE VHF BAND	Delete VHF Band	GA05508	681	(\$800.00)
DEL: DELETE UHF BAND	Delete UHF Band	GA05509	681	(\$800.00)

Operation Mode (Must Select One)

Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$515.00
ENH: P25 TRUNKING SOFTWARE APX	Requires G51 & G806. Internally generate G173. APX digital radios require Advanced System Keys (ASK-DVN4046A) to be configured to operate on a trunking system.	G361	656	\$300.00
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,500.00

Digital Trunking

(SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,500.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$200.00
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$515.00

Digital Conventional P25

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OP				

APX	Incompatible with G241.	G806	681	\$515.00
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$800.00

Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,500.00
ENH: SOFTWARE ASTRO READY (ANALOG) APX	Not compatible with G806 or G173; Not compatible with Encryption options G298, G851, G843. G625 is not compatible unless G48 is ordered. Mutually exclusive to G806.	G241	681	\$0.00

Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ASTRO READY (ANALOG) APX	Not compatible with G806 or G173; Not compatible with Encryption options G298, G851, G843. G625 is not compatible unless G48 is ordered. Mutually exclusive to G806.	G241	681	\$0.00
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$800.00

Systems Enhancements Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$200.00
ENH: OVER THE AIR PROVISIONING	Compatible with P25 Trunking OR ASTRO Conventional only; There is NO Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A). Single unit POP25 with batch programming for trunking configuration coming in future.	G996	656	\$100.00
	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25			

ADD: ENHANCED DATA	Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$450.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Mobile Personal Accountability SW	G445	571	\$150.00
ADD: WI-FI CAPABILITY CONSOLETTTE	-	GA09001	681	\$420.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	-	GA09007	681	\$0.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
APX MOBILE RADIO AUTHENTICATION	APX Mobile Radio Authentication	GA01767	656	\$100.00
ADD: DIGITAL TONE SIGNALING	Digital Tone Signaling	GA09000	656	\$150.00
ADD: FPP & CLONE APX	FPP & Clone APX	G53	656	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and a encryption (not including ADP-only).	H02	481	\$75.00
ADD: FRONT PANEL PROGRAMMING (FEDERAL)	Front Panel Programming (FEDERAL)	GA00243	656	\$150.00

Advance System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required	QA01648AA	0655	\$5.00

	to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.			
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Encryption Algorithms (Optional)

All Band Consolettes ship P25 "clear (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM).

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION APX7500	Analog 25 Khz Only supported in radios shipped past June 1, 2010.	W797	656	\$487.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	G851 is NOT compatible with G843 and G625. W969 Multi-key required for use of more than 1 key. Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010. AES and DES-OFB Operation Require Digital (G806).	G851	656	\$799.00
ADD: AES ENCRYPTION APX	Requires P25 operation.	G843	656	\$475.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010.	G625	656	\$599.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	-	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	REQUIRED when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multi-key (W969)and Trunking OTAR. Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$740.00
ADD: MULTI SYSTEM OTAR	-	GA01620	656	\$150.00

Amplifier

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Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Desktop Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: LIMITED FRONT PANEL W/CLOCK/VU	LIMITED FRONT PANEL W/CLOCK/VU	L998	761	\$480.00
ADD: FULL FP W/05/KEYPAD/CLOCK/VU	FULL FP W/05/KEYPAD/CLOCK/VU	L999	761	\$789.00

Manual

Description	Full Description	Nomenclature	APC	Price
ADD: NO USER/INSTALL CD NEEDED	NO USER/INSTALL CD NEEDED	GA00237	656	\$0.00
ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Microphones

Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$169.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00

Power Cord(s)

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD BS 1363 PLUG-UK	AC Line Cord BS 1363 PLUG-UK	CA01600	761	\$0.00
ADD: AC LINE CORD US	AC Line Cord US	CA01598	761	\$0.00
ADD: AC LINE CORD AS3112 PLUG-AUSTI	AC Line Cord AS3112 PLUG-AUSTI	CA01602	761	\$0.00
ADD: DC CORD	DC Cord	CA01942	761	\$55.00
ADD: AC LINE CORD CEE7/16 PLUG-EURO	AC Line Cord CEE7/16 PLUG-EURO	CA01599	761	\$0.00

Test Results

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Printed Test Results APEX	G799	656	\$10.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	-	GA00250	681	\$100.00

MOUNT RACKS

Description	Full Description	Nomenclature	APC	Price
APX CONSOLETTA RACK MOUNT KIT	APX Consolette Rack Mount Kit	HKN6233C	761	\$200.00
APX CONSOLETTA WALL MOUNT BRACKET KIT	APX Consolette Wall Mount Bracket Kit	HKN6243A	761	\$60.00
5FT GCAI EXTENSION CABLE	5FT GCAI Extension Cable	RKN4167A	706	\$44.00

MULTIPLEXER

PURPOSE OF MULTIPLEXER: THIS DEVICE WILL ALLOW THE "SPLITTING" OF MULTIBAND FREQUENCY COMING OUT OF THE APX8500 CONSOLETTA TO BE USED WITH EXISTING ANTENNAS THAT ARE ALREADY IN PLACE. THIS WILL ALLOW CUSTOMERS THE OPTION TO RE-USE THEIR EXISTING SINGLE/DUAL BAND ANTENNAS INSTEAD OF HAVING TO ORDER AND INSTALL NEW MULTIBAND ANTENNAS.

PART NUMBER OF THE KIT: H1926B

Description	Full Description	Nomenclature	APC	Price
MULTIPLEXER QMA APX CONSOLETTA	-	H1926	681	\$290.00

SOFTWARE & SERVICES

Service Options & Warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 3Y ESSENTIAL SERVICE	The Essential Service is a prepaid service that includes coverage for internal and external components damaged due to a manufacturer's defect.	G78	185	\$168.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Essential service with Accidental Damage includes device repair under Essential services, plus coverage for accidental damage to the device.	GA00249AB	185	\$328.00
ADD: STD WARRANTY - NO ESSENTIAL	Provides no extended repair coverage after the standard warranty period expires	GA05100	185	\$0.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AD	185	\$506.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$268.00
ADD: 3Y ESSENTIAL SVC CAN DEALER	-	GA01271	185	\$157.00
ADD: 5Y ESSENTIAL SVC CAN				

DEALER	-	GA01272	185	\$222.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$185.00

UPDATE HISTORY

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
MOBILES	FSA	HKN6233C	APX CONSOLETTA RACK MOUNT KIT	761	15
MOBILES	FSC	HKN6243A	APX CONSOLETTA WALL MOUNT BRACKET KIT	761	16
MOBILES	FSA	L22WRS9PW1 N	APX CONSOLETTA 900	761	6
MOBILES	FSA	L30KSS9PW1 N	APX CONSOLETTA VHF	761	17
MOBILES	FSA	L30QSS9PW1 N	APX CONSOLETTA UHF R1 MP	761	24
MOBILES	FSA	L30SSS9PW1 N	APX CONSOLETTA UHF R2 MP	761	18
MOBILES	FSA	L30TSS9PW1 N	APX CONSOLETTA DUAL BAND	761	40
MOBILES	FSA	L30URS9PW1 N	APX CONSOLETTA 7/800	761	17

MOBILES	FSA	L37TSS9PW1 N	ALL BAND CONSOLETTTE	681	16
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
FIXEDSTN	CDP	RKN4167A	5FT GCAI EXTENSION CABLE	706	2

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

APX™ All Band Consolette

Ordering Information

APX™ Consolette ships standard with Packet Data (W947) and Software Key (QA01749).

CPS Information

****Please note that a NEW version of CPS (RVN5224) is required for initial customer orders for this product. See the Accessories page for details.****

Configuration

START: Enter "APX8500-CON" on your sales order/quote with required quantity and launch the configurator.

I. MODEL

Description	Full Description	Nomenclature	APC	Price
ALL BAND CONSOLETTTE	-	L37TSS9PW1 N	681	\$8,040.00

II. GENERAL OPTIONS

Delete Frequency Band (optional)

APX™ Consolette ships standard with all frequency bands activated unless the Delete Band options are ordered. THERE IS NO NEED TO ORDER FREQUENCY BAND OPTIONS. For radios ordered with Delete Band options, additional bands can be purchased aftermarket as FLASHport® upgrades.

A maximum of two frequency bands may be deleted.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800MHZ BAND	-	GA05507	681	(\$800.00)
DEL: DELETE VHF BAND	-	GA05508	681	(\$800.00)

DEL: DELETE UHF BAND	-	GA05509	681	(\$800.00)
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Desktop Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00
ADD: LIMITED FRONT PANEL W/CLOCK/VU	-	L998	681	\$480.00
ADD: FULL FP W/05/KEYPAD/CLOCK/VU	-	L999	761	\$789.00

Operation Mode (must select one)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
ENH: ASTRO DIGITAL CAI OP APX	-	G806	681	\$515.00

System Enhancement Software (must select one)

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION	-	G48	656	\$800.00
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,500.00

HW Key Supplemental Data (optional)

APX™ radios ships standard with SW Key Supplemental Data QA01749AA. It can be replaced with HW Key by selecting the below option.

Description	Full Description	Nomenclature	APC	Price
	SYSTEM ID is required to be			

ADD: HW KEY SUPPLEMENTAL DATA	entered as supplemental data for this option. The format of the data is HEX.	QA01648AA	0655	\$5.00
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System Enhancement Options (optional)

The below options availability depends on the operation mode and system enhancement SW selection.

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OMNILINK	-	G173	656	\$200.00
ENH: P25 TRUNKING SOFTWARE APX	-	G361	656	\$300.00
ADD: MULITCAST VOTING SCAN	-	G387	656	\$200.00
ADD: TDMA OPERATION APX	-	GA00580	656	\$450.00
ADD: ENHANCED DATA	-	QA03399	656	\$150.00
ADD: GROUP SERVICES	-	GA09008	656	\$150.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	-	G445	571	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	-	H02	481	\$75.00
ADD: SEQUENTIAL SERIAL NUMBER	-	QA06898AA	0655	\$100.00
ADD: DIGITAL TONE SIGNALING	-	GA09000	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ENH: OVER THE AIR PROVISIONING	-	G996	656	\$100.00
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00
APX MOBILE RADIO AUTHENTICATION	Requires Trunking	GA01767	656	\$100.00
ASSEMBLY,OPTION,INT:OPTIONAL	-	G857	656	\$0.00

EMERGENCY TONE APEX				
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Microphone (must select one)

Microphone selection is available only for a Full Front Panel configuration (when L999AE is selected)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION DESK GCAI MIC	-	W382	656	\$169.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	-	GA01354	656	\$500.00
ADD:GATEWAY RSM	-	GA01438	656	\$125.00
ADD:GATEWAY RSM AND WIRELESS RSM	-	GA01439	656	\$392.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Power Cord (must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD US	-	CA01598	761	\$0.00
ADD: AC LINE CORD BS 1363 PLUG-UK	-	CA01600	761	\$0.00
ADD: AC LINE CORD CEE7/16 PLUG-EURO	-	CA01599	761	\$0.00

DC Power Cord (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DC CORD	-	CA01942	761	\$55.00

Extended Dispatch Operation (optional)

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Description	Full Description	Nomenclature	APC	Price
ENH: EXTENDED DISPATCH APX CONSOLETTTE	-	GA00469	761	\$500.00

Data CD (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- MOBILES	-	QA00205	655	\$0.00

RF PRE-AMP (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	-	W12	471	\$66.00

Hardware Algorithm/Security (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX	-	G843	656	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	-	G851	656	\$799.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	G625	656	\$599.00
ADD: DVP-XL ENCRYPTION APX7500	-	W797	656	\$487.00

Multikey (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	-	W969	656	\$330.00

ENH: ASTRO 25 OTAR W/ MULTIKEY	-	G298	656	\$740.00
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User Manual (optional)

G657AL User Guide CD option is included as standard.

Description	Full Description	Nomenclature	APC	Price
ADD: NO USER/INSTALL CD NEEDED	-	GA00237	656	\$0.00

Radio Test Results/ Rated Audio Printout (optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APX	-	G799	681	\$10.00

JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

**ASTRO® Digital APX Portable/Mobile Firmware
FLASHport®**
Upgrades VHF, UHF and 800 MHz. Bands
Secure/Conventional/Trunked Radio Systems

Updates

NOTE: These upgrades ONLY provide latest firmware to APX mobiles and portables.

Ordering Information

General Information

The ASTRO Digital APX Firmware upgrades allow customers to upgrade their software to the latest firmware version available. NOTE: Latest CPS version will be required. This can be downloaded through MOL.

Ordering Requirements

1. Order APX Firmware upgrade kit- T7757/T7756. Each upgrade kit will provide CD-ROM that will give the latest firmware version available for APX product line only.
2. Select the *desired* algorithm software upgrade option.
 - The option for mobiles (GA00771) or for portables (QA02912)
 - Specify the number of software upgrades required each dongle can hold 500 refreshes.

The following example will provide a single dongle with firmware upgrades for twenty (20) fielded APX PORTABLE RADIOS.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T7757	APX PORTABLE REFRESH
1a	20	QA02912AA	ADD:APX PORTABLE SOFTWARE REFRESH

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
APX MOBILE REFRESH	-	T7756	656	\$0.00
APX PORTABLE REFRESH	-	T7757	430	\$0.00

Options

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD:APX PORTABLE SOFTWARE REFRESH	-	QA02912	430	\$86.25
ADD:APX MOBILE SOFTWARE REFRESH	-	GA00771	656	\$86.25

Accessories

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7756	APX MOBILE REFRESH	656	10
PORTABLES	SCB	T7757	APX PORTABLE REFRESH	430	10

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

NEW CONTROL HEAD

Model



APX KITS

Ordering Information

General Information

There are 2 sections to this page

SECTION 1: Kits to Convert Your Existing Control Head from Dash Mount to Remote Mount, or Remote Mount to Dash Mount

SECTION 2: New Control Head Kits

Note; When ordering please assure you select the proper model or option based on your APX vintage.

1. Classic APX
2. Enhanced APX (Will be available Q3 2020)
3. APX 8500 MP

Configuration

SECTION 1: Kits to Convert Your Existing Control Head from Dash Mount to Remote Mount, or Remote Mount to Dash Mount

- Kits that convert a Dash Mount Control Head to a Remote Mount configurations require selecting a CAN cable option selection from below (excluding O3 CH, which does not use a CAN cable).
- Kits that change Remote to Dash take no options.

O2 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
O2 REMOTE TO O2 DASH MOUNT	Not Applicable to APX 8500	H1879	656	\$159.00
O2 DASH TO O2 REMOTE MOUNT	Not Applicable to the APX 8500	H1877	656	\$325.00
8500 O2 RM TO DM	Only applicable to the APX 8500	H1923	656	\$160.00
8500 O2 DM TO RM	Only applicable to the APX 8500	H1920	656	\$325.00

O3 Control Head Conversion Requirements

In order to take an O3 Control Head from a Dash Mount to a Remote Mount, a single cable, PMLN4959, is required.

Description	Full Description	Nomenclature	APC	Price
O3 ACCESSORY CABLE	Required to convert an O3 Control Head from Dash Mount to Remote Mount	PMLN4959A	362	\$149.00

O5 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
O5 RM TO O5 DM MIDPWR NOCH	-	H1848	656	\$159.00
O5 DM TO O5 RM MP RETROFIT KIT	-	H1853D	500	\$325.00
8500 O5 RM TO DM	-	H1924	656	\$160.00

8500 O5 DM TO RM	-	H1921	656	\$325.00
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O7 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
O7 REMOTE TO O7 DASH MOUNT	-	H1880	656	\$159.00
O7 DASH TO O7 REMOTE MOUNT	-	H1878	656	\$325.00
8500 O7 RM TO DM	-	H1925	656	\$160.00
8500 O7 DM TO RM	-	H1922	656	\$325.00

XTL Conversion Kits

Only M5 Control Head Kits are Supported

Description	Full Description	Nomenclature	APC	Price
O5/M5 Remote to O5/M5 Dash Retrofit Kit	Encrypted Radios will require a new sip 30 Sec is PHLN6919C 3 Day is PHLN6918C	H1817	514	\$160.00
XTL O5 OR M5 DASH TO REMOTE MOUNT RETROFIT KIT	Encrypted Radios will require a new sip 30 Sec is PHLN6919C 3 Day is PHLN6918C	H1818C	500	\$400.00

New Control Head

SECTION 2: New Control Heads

Guidelines for Ordering a New Control Head

High Power Radios Cannot Support Dash Mount Configurations Due to Safety Reasons

Dash Mount Configurations Require that One Option Be Requested For Each Type (4)
Power Cable

Accessory Cable
Microphone
Speaker
Remote Mount Configurations Require that One Option Be Requested For Each Type (6)
Power Cable
Accessory Cable
Microphone
Speaker
Transceiver Interface Board (TIB)
CAN Cable

Main Model (Must Select One Main Model and One Mounting Option)

O2 Control Head

Available for all APX Mobiles. APX 1500 is Dash Mount Only.

Description	Full Description	Nomenclature	APC	Price
O2 CH	-	H1900	656	\$492.00
O2 GRN CH	-	H1901	656	\$527.00

O2 Mounting Options

APX 1500 is Dash Mount Only

Description	Full Description	Nomenclature	APC	Price
ADD: O2 DASH MOUNT	-	GA01283	656	\$125.00
ADD: O2 REMOTE CHIB	-	GA01276	656	\$125.00
ADD: 8500 O2 DM	-	GA01583	656	\$160.00

O3 Control Head Main Model

Available on APX 8500, APX 7500 & APX 6500 Only

Description	Full Description	Nomenclature	APC	Price
O3 CH	-	H1902	656	\$946.00
O3 LS CH	Model has Light & Siren key pad printing to help facilitate integrated controls	H1903	656	\$996.00

O3 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500 Only

Description	Full Description	Nomenclature	APC	Price
ADD: O3 DASH OR NO MOUNT	-	GA01284	656	\$0.00
ADD: O3 REMOTE MOUNT	-	GA01300	656	\$125.00

O5 Control Head Main Models

Available on the APX 8500, APX 7500 & APX 6500/Li Models Only

Description	Full Description	Nomenclature	APC	Price
O5 CH	-	H1904	656	\$432.00

O5 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500/Li Models Only

Description	Full Description	Nomenclature	APC	Price
ADD: O5 DASH MOUNT	-	GA01285	656	\$125.00
ADD: O5 REMOTE CHIB	-	GA01277	656	\$125.00
ADD: 8500 O5 DM	-	GA01584	656	\$160.00

O7 Control Head Main Model

Available on the APX 8500, APX 7500 & APX 6500/Li Models Only

Description	Full Description	Nomenclature	APC	Price
O7 LS CH	Model has Light & Siren key pad printing to help facilitate integrated controls	H1906	656	\$682.00
O7 CH	-	H1905	656	\$632.00

O7 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500/Li Models Only

Description	Full Description	Nomenclature	APC	Price
ADD: O7 DASH MOUNT	-	GA01286	656	\$125.00
ADD: O7 REMOTE CHIB	-	GA01278	656	\$125.00
ADD: 8500 O7 DM	-	GA01585	656	\$160.00

Power Cable Options

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO PWR CBL	-	GA01301	656	\$0.00
ADD: PWR CBL MP RADIO DASH	-	GA01288	656	\$15.00
ADD: PWR CBL MP RADIO REMOTE	-	GA01289	656	\$35.00
ADD: PWR CBL HP RADIO REMOTE	-	GA01287	656	\$35.00

Accessory Cable

Must Select One

Description	Full Description	Nomenclature	APC	Price
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ADD: NO ACCESSORY CABLE	-	GA01297	656	\$0.00
ADD: O3 AcCESSORY CABLE	-	GA01295	656	\$90.00
ADD: ACDESSORY CABLE	-	GA01296	656	\$30.00

Microphone

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$72.00

Speaker

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILARY SPKR 7.5 WATT	Corresponding kit: HSN4031.	B18	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$60.00
ADD: NO SPEAKER NEEDED	-	G142	656	\$0.00

TIB Options

Only required when Remote Mount Option is selected, or if an O3 Control Head is being ordered. If the radio is currently configured for Remote Mount, select GA01282, No TIB, since you already have a TIB.

Dash Mount Models will not allow a TIB to be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE TIB	-	GA01282	656	\$0.00
ADD: APX MP REMOTE TIB	-	GA01281	656	\$175.00
ADD: 8500 MP TIB	-	GA01586	656	\$175.00

CAN Cable Selection

Only required when Remote Mount Option is selected. Not applicable to an O3 Control Head.

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE CABLE NEEDED	-	GA00179	656	\$0.00
ADD: REMOTE MOUNT CABLE ? 3 METERS (10 FT)	Corresponding kit: HKN6170	G618	514	\$10.00
ADD: REMOTE MOUNT CABLE 17 FT	Corresponding kit: HKN6169	G628	514	\$15.00
ADD: REMOTE MOUNT CABLE 30 FEET	Corresponding kit: HKN6168	G610	514	\$25.00

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**ASTRO® Digital APX (7500, 7000, 6500, 6000, 4000, 3000)
FLASHport®
KVL 3000/KVL 3000PLUS MACE PCMCIA
Upgrades
Secure/Conventional/Trunked Radio
Systems**

Updates

PRODUCT HAS BEEN CANCELLED, EFFECTIVE SEPTEMBER 30, 2015

An Alternative Flashport Upgrade is available via the KVL 4000, order part #: T7936

See Corresponding Price Page for more details: [LINK](#)

Ordering Information

General Information

The ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) FLASHport Motorola Advanced Crypto Engine (MACE) upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded MACE based encrypted ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) without having to replace the MACE. ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) upgrade kit (T7556) includes one PCMCIA card and one Subscriber MACE Upgrade Manual.

Ordering Requirements

1. Order APX PCMCIA Motorola Advanced Crypto Engine (MACE) upgrade kit (T7556). Each upgrade kit consists of a single PCMCIA card that can upgrade up to 100 individual

MACE based ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000).

2. Select the *desired* algorithm software upgrade option.

- Only one (1) encryption algorithm type can be ordered per upgrade kit.
- Specify the number of software upgrades required.
- Each individual MACE based ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.
- The algorithm software options must be ordered in equal number and can not exceed 100 per upgrade kit option.

3. The ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) FLASHport MACE upgrade requires the use of a key loading device (KVL 3000 or KVL 3000 Plus) and a PCMCIA card to deliver the new software to the MACE. When upgrading the MACE module with AES Encryption, a KVL 3000 Plus is required to FLASH upgrade the module (KVL 3000 does not support AES).

The following example will provide an upgrade card to upgrade twenty (20) fielded MACE based ASTRO Digital APX Radio (7500, 7000, 6500, 6000, 4000, 3000) with the AES algorithm.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T7556	APX PCMCIA Motorola Advanced Crypto Engine (MACE) UPGRADE
1a	20	CA00182AR	ADD: AES Encryption Software

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
APX PCMCIA ENCRYPTION UPGRADE CARD	-	T7556	526	\$125.00

Options

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AL	655	\$560.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$633.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$689.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$86.25

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SYSPERIPH	SCB	T7556	APX PCMCIA ENCRYPTION UPGRADE CARD	526	8

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

APX Personnel Accountability



Incident Command

Ordering Information

General Information

Personnel safety and accountability is a top concern for incident commanders on the fireground. Ensuring firefighter safety and accountability is crucial and incident commanders must have the ability to quickly identify who is on the scene, the status of their personnel, and be able to quickly initiate evacuation alert messages. Motorola's APX Personnel Accountability solution leverages the robustness of the APX radio and the reliability of our ASTRO radio systems to provide first responders with the most powerful accountability device available in public safety today.

In providing the Personnel Accountability solution, Motorola has partnered with Systems Definition, Inc. (SDI), one of the innovating leaders and provider of the APX Personnel Accountability Application (APAA) client and server software and the web-based EasyStaff software used for radio identification and ride lists.

The Personnel Accountability feature (Q445) is available in the following models of APX radios:

APX 8000

- APX 8000 XE
- APX 7000
- APX 7000XE
- APX 6000
- APX 6000XE
- APX 4000

The Personnel Accountability solution is available for public safety users who either operate on an ASTRO trunked radio network or on a conventional talk-around channel at an incident scene. Trunked radio users must have their ASTRO radio networks upgraded to the 7.17 system release or later. Conventional radio users must only have the APX series radios with the Personnel Accountability option.

Features

The following features provide incident commanders with improved situational awareness and enable them to better manage their responders on the incident scene.

Instant Accountability

As soon as a responder turns their radio to a designated channel or talkgroup, they're accounted for on the incident commander screen.

Personnel Identification

Know exactly who is carrying the radio by integrating with an existing roster application or through the use of the EasyStaff website.

PTT Identification

See exactly who's talking on the Accountability client screen, every time they transmit.

Immediate Mayday Indication

Instantly identify on the Accountability client if a responder activates their orange Emergency/Mayday button.

Mission Critical Tactical Alerts

Immediately send one of 16 different customizable Tactical Alert messages to all responders or to individuals on scene. Alerts are received by the APX radio even if the radio is currently in a voice or data call.

Tactical Alert Acknowledgments

Each responder hits a button on their radio to instantly acknowledge that they received the Tactical Alert from command. The button on the radio can be the PTT button or optionally be the one-dot button on the side of the APX radio or RSM.

Battery Level Monitoring

Monitor the amount of battery power left in each responder's radio before they have lost the ability to communicate. For trunked Accountability users, Battery Level Monitoring requires the use of the Intelligent Middleware application.

Unit Assignments

Use the Accountability client to record the assignments given to each unit as they arrive.

Channel Change Indication

Know if a responder changed to a different channel or talkgroup while on the fireground.

Power Down Indication

Identify if a responder turned their radio off while at the incident.

Radio Polling

'Ping' a responder's radio to make sure it is still in range and on the proper channel or talkgroup.

Talkgroup Change/Dynamic Regrouping

Incident Commanders can bump a responder's radio to the proper talkgroup without the responder's involvement. This is especially handy for responders who forget to switch over from the dispatch talkgroup to the designated fireground talkgroup. This capability is only available for trunked Accountability users.

Dispatcher Monitoring

Enable dispatchers to see the same information the incident commander sees using the same Accountability client application cohabed on the MCC7500/7100 Consoles. This gives more flexibility to incident commanders and an extra set of eyes and ears on the fireground. This capability is only available for trunked Accountability users.

Configuration

Ordering Requirements

Ordering the solution:

NOTE: This information is provided at a system level. For more product level details, please refer to each of the individual product pages.

Step 1 - Complete Questionnaire

- In order to get a formal quote for the Accountability solution, please fill out the questionnaire below with your customer's information. This will start the process.
- Please return completed Questionnaire to Mark Krizik for processing.

- Once a quote is generated from Systems Definition, Inc. (SDI), the Accountability application provider, you will be invited to a conference call to go over the quote details.
- [Link to Questionnaire](#)

Step 2 - Add MSI Hardware

Once a quote has been provided by SDI, the pre-sale team will need to include additional components to provide a full proposal to the customer. The following is a summary of the hardware items required for a Personnel Accountability solution.

For Conventional Personnel Accountability users:

APX Portable Radios

The APX portable radios must include at a minimum the ASTRO Digital Common Air Interface (Q806) and the Personnel Accountability (Q445) options. Optional features that compliment the Personnel Accountability solution include the XE Remote speaker Mic or the XE 500 Remote Speaker Mic.

Incident Commander Vehicles - RF Modem

The incident commander vehicles that will be running the APX Personnel Accountability Application (APAA) must have a Windows PC (e.g. Panasonic Toughbook laptop, Microsoft Surface tablet, etc.) connected to a dedicated APX radio to be used as the RF Modem. The radio is used to monitor all Accountability signaling on the fireground conventional channel. For vehicle installations, the APX mobile radio is recommended. As an option, if the Department desires a configuration that lets them operate outside the vehicle, an APX portable may be used as the RF modem in conjunction with the tablet PC. The RF modem capability is part of the baseline code of the APX radio and no special options are required. However, at a minimum, the APX radio must have the ASTRO Digital Common Air Interface (Q806) option included. Also, a Motorola USB data cable is required to connect the APX radio to the laptop or tablet. For mobile installation the 16-foot USB cable is recommended. For portable applications, the standard Motorola USB APX Data Cable is required. If multiple fireground conventional channels are to be monitored at the same time, an RF Modem is required to be interfaced to the Accountability client for each channel.

Incident Commander Vehicles - Futurecom Digital Vehicular Repeater (DVR)

As an option, conventional Personnel Accountability users can utilize a digital Vehicular Repeater to extend their APX portable radio communications capability. The DVR supports the ability to pass Personnel Accountability signaling information between the Accountability client connected to the RF Modem and the APX portable radio. Please refer to the Digital Vehicular Repeater price pages to specify a DVR per the customer requirements.

For Trunked Personnel Accountability users:

APX Portable Radios

The APX portable radios must include all of the necessary options required to allow the APX radio to communicate on the customer's trunked radio system, in addition to the Personnel Accountability (Q445) option. If the Personnel Accountability solution is to include the optional Battery Level Monitoring capability (which requires use of IMW), then the APX radio should be equipped with the Enhanced Data option (QA03399), if available on the customer's system.

Classic IV&D data capability may be used for Battery Level Monitoring of the APX radio, but it is not recommended. Optional features that compliment the Personnel Accountability solution include the Man Down option (QA01843). Optional Accessories that complement the Personnel Accountability solution include the XE Remote Speaker Mic or the XE 500 Remote Speaker Mic.

Incident Commander Vehicles - Control Channel Radio

The incident commander vehicles that will be running the APX Personnel Accountability Application (APAA) in a trunked radio system must have a Windows PC (e.g. Panasonic Toughbook laptop, Microsoft Surface tablet, etc.) connected with a DEDICATED APX radio to be used as the Control Channel Radio. This radio is used to monitor all Accountability signaling on the Control Channel of the trunked radio system. For vehicle installations, the APX mobile radio is recommended. As an option, if the Department desires a configuration that lets them operate outside the vehicle, a APX portable may be used as the Control Channel Radio in conjunction with a tablet PC. The Control Channel capability is part of the baseline code of the APX radio and no special options are required. However, at a minimum, the APX radio must include all of the necessary options require to allow the APX radio to communicate on the customer's trunked radio system. Also, a Motorola USB data cable is required to connect the APX radio to the laptop or tablet. For mobile installations, the 16-foot USB cable is recommended. For portable applications, the standard Motorola USP APX Data Cable is required. The Control Channel radio is not required for APAA clients running on an MCC7500/7100 dispatch console PC. The Control Channel Radio can operate either as an RF Modem when fireground operations are on a conventional channel or as a Control Channel Radio if fireground operations are on a trunking talkgroup. If multiple fireground talkgroups are to be monitored at the same time, only one Control Channel radio is needed to be interfaced to the Accountability client.

Incident Commander Vehicles - Data Radio to Accountability Server

For incident commander vehicles that will be running the APAA client, a data connection is required between the vehicle and the Accountability Server located in the Customer Enterprise Network (CEN). This data connection can be provided by the ASTRO IV&D data capability or through an existing broadband data connection such as a 4G/LTE capability on the Windows PC. The broadband data connection is recommended if the customer already has one in place, otherwise, the IV&D capability can be used, if available on the system. If IV&D capability is required, a DEDICATED APX radio must be provided for this purpose as the Accountability application requires constant data connectivity to the Accountability server during use of the APAA application. A dedicated Data talkgroup must also be provided as the data connection cannot be pulled into voice traffic while servicing the Accountability application. For IV&D use, the APX radio must include all of the necessary options required to allow the APX radio to communicate via IV&D on the customer's trunked radio system. The data connection to the Accountability server cannot utilize the Enhanced Data channels. An IV&D or broadband data radio is not required for APAA clients running on an MCC7500/7100 dispatch console PC.

Incident Commander Vehicles - Futurecom Digital Vehicular Repeater (DVR)

As an option, trunked Personnel Accountability users can utilize a Digital Vehicular Repeater to extend their APX portable radio communications capability. The DVR now supports the ability to pass Personnel Accountability signaling information between the trunked radio system and the APX portable radio. Please refer to the Digital Vehicular repeater price pages to specify a DVR per the customer requirements.

Accountability Server - Hardware

The Personnel Accountability server application is designed to run on the Enablement (CEN) server which is sourced by Motorola. If customers already have this server, then it does not need to be specified. If this server is not already in place, then the T8399A server must be specified as well as the DVN4395A option for VMWare.

Description	Full Description	Nomenclature	APC	Price
CEN SERVER	-	T8399	877	\$15,000.00
SOFTWARE,VMWARE VSPHERE 6.X FDN 2 CPU SW	-	DVN4359	877	\$0.00

Intelligent Middleware - Hardware

For customers that require the Intelligent Middleware application, a separate server may be required. Refer to the Intelligent Middleware price pages for specifications on the Intelligent Middleware hardware.

Customer Enterprise Network - Hardware

For customers that do not have an existing CEN network attached to their ASTRO system, the proper networking equipment must be specified. No CEN hardware is included with the Personnel Accountability solution. It assumes a CEN network is already in place.

Step 3 - Add SDI and Motorola Software

The software components needed for a Personnel Accountability solution are a combination of software and licenses from both Systems Definition, Inc. (SDI) and Motorola. The following is a summary of the software items required for a Personnel Accountability solution.

For Conventional Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA MIXED MODE CONVENTIONAL SYSTEM LICENSE	-	TT3031	708	\$100.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00

For Trunked Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA SERVER SOFTWARE LICENSE	-	TT3029	708	\$24,705.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00
INFORMATION ASSURANCE LICENSE FOR APAA SERVER	-	TT3108	708	\$18,300.00
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

****IMW SENSOR****

Step 4 - Add SDI and Motorola Services

Each deployment of the Personnel Accountability solution involves a certain degree of services and support. The following items are to be taken into consideration when providing a customer a Personnel Accountability quote.

**** SIX PART NUMBERS TBD ****

Step 5 - Add SDI and Motorola Maintenance and Support or Software Upgrade Agreement

Customers can choose to purchase a Maintenance and Support agreement or enter into a Software Upgrade Agreement for the Personnel Accountability solution and the Intelligent Middleware application if they do not already have one. The following items are offered.

**** THREE PART NUMBERS TBD ****

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® Radio Management

Device Management Service Offer (DMSO)

Ordering Information

We are evolving ala carte Device Services and Radio Management towards the broader goal of enabling Device Management solutions. With that progress comes a comprehensive Device Management Service Offer (DMSO) with the following advantages:

- Coverage for device maintenance & configuration
- Essential, Advanced, and Premier offers meeting customer needs from self-maintained to MSI-managed
- Better Management of Agency Costs
- The opportunity for an OPEX operating model to better meet agency budgets
- More robust radio inventory operations
- Remote hosting & MyView Portal provide radio inventory repository with attributes and radio status

With the availability of the Device Management Service Offer, Radio Management (RM) will now be offered solely through a DMSO Plan. Please refer to the following sites for information on DMSO:

- [DMSO Catalog Page](#)
- [DMSO MSI Page](#)

Contacts for RM-DMSO Sales Support:

- Sue Doheny : mobile (708) 878-0527 // Email: sue.doheny@motorolasolutions.com

Radio Management (RM) is a suite of software application that provides the ability to efficiently manage your large fleet of ASTRO APX radios - through one central database with support of multiple programming interface including WiFi, Over-the-Air LMR and USB.

Key Update:

- APX RM Legacy Radio License (CapEx) is no longer available for new customers starting January 2019
- Grandfather upgrade support for existing RM customers extended until January 2022
- Only add on legacy Radio license (CapEx) are available for existing RM CapEx customers (\$100/license, no discount permitted)
- The 100 free trial licenses does not count toward an existing RM legacy customer, additional licenses must have been purchased prior to January 2019 in order to be able to be considered grandfathered - in addition to purchase add-on licenses.
- APX Advanced Service Package now offered with flexible configurations including; RM

- tools, on-site set-up/training, hosting and hardware repair
- Reduced APX Advanced Service Package pricing; 25% lower list price
- Fleet volume pricing discounts will apply to APX Service Packages
 - *Standard Discount (up to 2500 Units)* 15%
 - *Medium Deployment Pricing (2500 to 5000 Units)* 25%
 - *Large Deployment Pricing (5000 to 10000 Units)* 35%
 - *Enterprise Pricing (10,000+ Units)* Custom Quote

Features

Radio Management (RM) can help reduce fleet programming time and improve overall radio asset management. Radio Management allows:

- Manage and track radio codeplugs through a central database
- Make changes to a shared codeplug template and push to multiple radios
- Manage and update radios without taking them out of service
- Schedule programming updates to radios ahead of time

Effective with the launch of 7.18 system release, the below software are available for purchase:

- 3 year download-only Radio Management software subscription (HKVN4621A-List \$299). Radio Management software is available for download through your Motorola Online account. Only one subscription per MOL account is needed.
- Hardcopy DVD of current Radio Management software release (RVN5306). The DVD is \$75 each and must be ordered with each release. DVDs will NOT be automatically shipped with each release. **Please note that a current Radio Management software subscription (HKVN4621A) is also required to purchase the DVD**

Announcement reference:

<https://converge.motorolasolutions.com/community/marketing/americas-marketing/projects/weekly-news-and-announcements-north-america-marketing-and-sales/blog/2018/02/08/apx-a718-software-subscription-update-effective-2918>

RADIO MANAGEMENT APPLICATION LICENSES

Add-on licenses for existing legacy CapEx customers only:

- **ON-LINE DELIVERY METHOD:** This is for customers that would like to receive their Radio Management licenses electronically from the Motorola Solutions Radio Management license system. This method will deliver an email with the Radio Management Entitlement ID for the purchased Radio Management Application licenses that can be used on the Radio Management Client to download and activate the license entitlements. You will need to supply an email address at time of order for this delivery method. License entitlements will be delivered to the email address provided.
- **OFF-LINE DELIVERY METHOD:** This is for customer networks that may not have internet access. This method will deliver a CD with the Radio Management Entitlement ID files for the purchased Radio Management licenses as well as an email confirmation. You will need to supply an email address and a computer Host ID for the Radio Management Server at time of order for this delivery method. See Host ID Help link for additional information.

Ordering Requirements

- **Specify** the Radio Management **license delivery method** model number (on-line or off-line) as the main line item. The Delivery Method model number should only be ordered

as quantity 1.

- **Specify** the associated Radio Management **license option** corresponding to the chosen delivery method as the sub-items. All Radio Management license options should be equal to the number of radios to be managed. Radio Management comes with 100 licenses at no charge. If you will be managing more than 100 radios, the number of licenses being purchased should not include the first 100 (i.e. 1000 radios to be managed = 900 licenses to be purchased).
- **IMPORTANT:** Be sure to include an email address to which the Radio Management License Entitlement ID will be sent
- **IMPORTANT:** For off-line delivery method only, be sure to include the Host ID of the Radio Management Server that will manage the Radio Management licenses. See Host ID Help link for additional information.

Description	Full Description	Nomenclature	APC	Price
RADIO MANAGEMENT ONLINE	This is for customers that would like to receive their Radio Management licenses electronically from the Motorola Solutions Radio Management license system. This method will deliver an email with the Radio Management Entitlement ID for the purchased Management Application licenses that can be used on the Radio Management Client to download and activate the license entitlements. You will need to supply an email address at time of order for this delivery method. Specify the model number as the main line item. The model number should only be ordered as quantity 1.	T7914	430	\$0.00
RADIO MANAGEMENT OFFLINE	This is for customer networks that may not have internet access. This method will deliver an email with the Radio Management Entitlement ID for the purchased Radio Management Application licenses along with a CD containing the same for backup purposes. You will need to supply an email address and a computer Host ID at time of order for this delivery method. Specify the model number as the main line item. The model number should only be ordered as quantity 1.	T7913	430	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO MANAGEMENT LICENSES ONLINE	-	UA00049AA	430	\$100.00
ADD: RADIO MANAGEMENT LICENSES OFFLINE	-	UA00048AA	430	\$100.00

Helpful Resources:

- [Radio Management Spec Sheet](#)
- [Sales and Marketing Video](#)
- [Sales Overview Video](#)
- [Value of Radio Management](#)
- [Radio Management Ordering Guide](#)
- [Host ID Help](#)
- [Radio Management System Minimum Requirements](#)
- [Job Processor Deployment Guide](#)
- [Radio Management Deployment Guide](#)
- [Radio Management Product Bulletin](#)
- [FAQ's](#)
- [Radio Management Quick Start Guide Offline](#)
- [Radio Management Quick Start Guide Online](#)
- [Radio Management Video Tutorial](#)
- [Radio Management Demo Webinar- Video](#)

LEARNING MANAGEMENT SERVICES TRAINING RESOURCES

- [Radio Management Demo Webinar- Video](#)
- [Radio Management Video Tutorial](#)
- [RM Training via Motorola Learning Management System](#)
 - AST2003 Radio Management Overview (Online Overview)
 - RDS2017.00 Radio Management Workshop (Classroom Course)

Configuration

The following describes the recommended set of hardware platforms support based on Radio Management application testing. These are optional hardware kits, as Radio Management application is designed to operate on standard commercial off-the-shelf hardware. The hardware list below includes standard drop ship item setups used for common Motorola Solutions product lines and may not be exclusive for Radio Management installation. These hardware orders do not ship with a pre-installed Radio Management software. A customer is required to visit Motorola On-Line or MyView to access, download and follow supported installation procedures. The hardware listed below also do not ship with the hardened Operating System image and does not meet IA compliancy. For IA compliant related procedures, it's

recommended to reference the Radio Management System Planner for all hardening and softening procedures.

MODELS

HARDWARE

All-In-One Configuration

Description	Full Description	Nomenclature	APC	Price
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,845.00

Servers

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT WINDOWS SERVER	Recommended for Medium-sized Radio Fleets. 1 TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER3	571	\$10,355.00
RACK MOUNT WINDOWS SERVER	Recommended for Large Radio Fleets. 2TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 2x8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER4	571	\$12,515.00

Job Processors

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DVD-RW/USB Kit	DSSUBSERVER1	571	\$6,498.00
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DL360 GEN9 E5-2630V3 KIT, 8GB 1RX4 PC4-2133P-R KIT, DVD-RW/USB Kit	DSSUBSERVER2	571	\$8,643.00

Radio Management Clients / Device Programmers

Description	Full Description	Nomenclature	APC	Price
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,845.00
WINDOWS LAPTOP	-	DSSUBLAPTOP	571	\$1,156.00

Monitors

Non Touch Models

Touch Models

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
MULTI PORT USB HUB	7 port USB 2.0 hub	DSH7USBHUB	571	\$85.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
PORTABLE PROGRAMMING CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. APX7000 / APX6000 ONLY or NOT Compatible ON APX4000 PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios (APX7000/6000/4000/Li/3000)	PMKN4012B	037	\$77.00

Ship Card

[DOWNLOAD AS CSV](#)

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	PCW	DSH7USBHUB	MULTI PORT USB HUB	571	15
QUOTEDS	PCW	DSSUBDESKTOP	WINDOWS DESKTOP	571	15
QUOTEDS	PCW	DSSUBLAPTOP	WINDOWS LAPTOP	571	15
QUOTEDS	PCW	DSSUBSERVER1	RACK MOUNT WINDOWS SERVER	571	20
QUOTEDS	PCW	DSSUBSERVER2	RACK MOUNT WINDOWS SERVER	571	20
QUOTEDS	PCW	DSSUBSERVER3	RACK MOUNT WINDOWS SERVER	571	20
QUOTEDS	PCW	DSSUBSERVER4	RACK MOUNT WINDOWS SERVER	571	20
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
PORTABLES	SCB	T7913	RADIO MANAGEMENT OFFLINE	430	5
PORTABLES	SCB	T7914	RADIO MANAGEMENT ONLINE	430	8

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**Motorola APX
Transportable Station**

Ordering Information

Note:

- This product is delivered **UNASSEMBLED**. The radio and its components (which are ordered separately) must be assembled/tested with the Transportable Station by the end user.
- Compatible with APX 7500/6500/4500 Mid-Power Mobiles (*ordered separately*)
- Compatible with O2, O3, O5, and O7 Control Heads (*ordered separately*)
- Compatible with 7.5 watt detachable speaker (*HSN4038A ordered separately*)
- Compatible with magnetic low profile antenna (*PAN6003A ordered separately*)
- Supports Dual Band Operation

General Information

The APX™ Transportable Station is a highly versatile, lightweight, rugged, rapid deployment product. It can be deployed as a temporary base station (law enforcement command posts, military deployment, surveillance operations, emergency response teams, fire fighting support). It can also be installed in vehicles when mobile installation without permanent installation is a requirement (rental car) or when mobile covert communication is desired.

The unit is packaged in a lightweight, horizontal, black powder coated, lockable aluminum suitcase. This product provides customers with the versatility of a “Jump and Run” communications package and the flexibility of a semi-fixed or transportable RF station.

It utilizes a standard mid-power APX 7500/6500/4500 mobile, O2/O3/O5/O7 control head, mobile antenna and a mobile speaker (**all ordered separately**). Two RF ports are available to support dual band. Audio ports are also available for headset, headphone and record operation. Record operation is only supported on the O3 CH configuration.

The APX Transportable Station operates with 110/220VAC or 12VDC power input. The suitcase is equipped with a "mouse-hole" exit for cable routing outside the case, allowing for covert closed case operation.

NOTE: For the O2 CH configuration the speaker cable between the transceiver and the control head must be detached during installation.

Features

APX Transportable Station Features

- Carbide Black Powder Coated Aluminum Case 7" tall x 13" deep x 21"wide
- Combination Locking Case
- AC Power Supply Auto Switching 85-250VAC (49-61 Hz)
- AC Power Cable (110VAC)
- 12VDC Vehicle Accessory Power Cable Included

- Closed Case Covert Operation
- Accessory Storage Pouch
- Optional 13' O3 Microphone extension cable(APX7500/6500 mobiles only)

Control Panel Includes

- AC and DC Power Receptacles
- Type "UHF" Female SO 239 Antenna Connectors
- Mobile Radio Mount
- Speaker Receptacle

- Headset Jack (6-pin Hirose)
- Headphone Jack (1/4" Audio Jack)
- Tape Recorder Jack with Plug (Mini-XLR 5 pin)
- Microphone Clip

This case also has a mouse hole exit for cable routing outside the case, allowing for closed case operation.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
RADIOS SALES MODEL,APX TRANSPORTABLE STATION	-	P2096	570	\$3,200.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: O3 CORD EXTENSION 17 FEET	(APX7500/6500 mobiles only)	H143	570	\$50.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSA	P2096	RADIOS SALES MODEL,APX TRANSPORTABLE STATION	570	27

JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

ASTRO® Digital APX 900™ Portable Series

Updates

No updates at this time.

Ordering Information

General Information

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: Only the accessories listed below have been certified to operate with the APX 900 portable series radios

The APX 900 contains an internal GPS antenna therefore a separate external GPS antenna is not needed.

Configuration

Antennas

Description	Full Description	Nomenclature	APC	Price
VHF STUBBY ANTENNA 11CM(136-	UL Approved	PMAD4093A	555	\$11.00

147MHZ)				
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved	PMAD4088B	555	\$21.50
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved	PMAD4094A	555	\$11.00
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved	PMAD4095A	555	\$11.00
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved	PMAE4022B	555	\$10.25
UHF STUBBY ANT (420-445MHZ) 4.5CM	-	PMAE4094B	555	\$12.00
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved	PMAE4100A	555	\$29.00
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved	PMAE4102A	837	\$29.00
ANTENNA, STUBBY,700/800 MHZ 9CM	UL Approved	PMAF4022A	555	\$29.00
ANTENNA COAXIAL WHIP 896-941 MHZ	UL Approved	NAF5088B	555	\$35.75
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	-	NAF5080	555	\$35.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$135.00
BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$146.00
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00
BATT IMPRES LIION TIA4950 HE DENS IP68 2900T	UL Approved	PMNN4489A	453	\$180.00
BATT IMPRES LIION LOW VOLT IP68 3000T	-	PMNN4493A	453	\$135.00

BATT IMPRES LIION IP68 2100T	-	PMNN4491B	453	\$110.00
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Chargers

Description	Full Description	Nomenclature	APC	Price
VEHICULAR CHARGER	-	NNTN7616D	785	\$418.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFC E UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00
CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA	-	PMPN4284A	785	\$655.00
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$76.00

IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
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Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00

IMPRES Battery Fleet Management Software can be downloaded [here](#)

Programming Cables

Description	Full Description	Nomenclature	APC	Price
PORTABLE PROGRAMMING CABLE	Used to program the radio with Customer Programming Software and Tuner Software	PMKN4012B	037	\$77.00
PROGRAMMING, TEST & ALIGNMENT CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible with ALL APX Portable Radios (APX7000/6000/4000/Li/3000)	PMKN4013C	261	\$103.00
CABLE, DATA,APX900 CLONING CABLE	-	PMKN4197A	837	\$77.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2"	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$12.00

2.5 INCH SWIVEL BELT LOOP	-	PMLN5610A	271	\$12.00
3.0 INCH SWIVEL BELT LOOP	-	PMLN5611A	271	\$12.00
HARD LEATHER CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5838A	271	\$51.00
HARD LEATHER CARRY CASE WITH 3 IN SWIVEL BELT LOOP - FULL KEYPAD	-	PMLN5840A	271	\$62.00
NYLON CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5844A	271	\$26.00
2.5-INCH BELT CLIP	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$13.00
HARD LEATHER CARRY CASE WITH 2.5 IN SWIVEL BELT LOOP - FKP	-	PMLN5842A	271	\$60.00

Dust Cover

Description	Full Description	Nomenclature	APC	Price
DUST COVER ASSEMBLY	-	15012157001	362	\$18.25

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE EARSET - D-SHELL	UL Approved	PMLN5096A	742	\$63.50
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk	PMLN5101A	742	\$251.00

CORE ULTRA-LITE HEADSET	UL Approved	PMLN5102A	742	\$88.50
HEAVY DUTY HEADSET PMLN5275C	UL Approved	PMLN5275C	742	\$534.00
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. UL Approved	RMN5058A	742	\$92.75

Bluetooth Accessories

Description	Full Description	Nomenclature	APC	Price
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows the user to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces.	NNTN8296A	742	\$180.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00
FLEXIBLE-FIT SWIVEL EARPIECE W/ BOOM MIC, MULTIPACK	-	PMLN7203A	742	\$41.00

MOTOTRBO BLUETOOTH ACCESSORY KIT W/NA POWER SUPPLY	-	RLN6500A	742	\$99.00
ASSY,ACCY,WIRELESS ACCY KIT, STD PR	-	NNTN8127B	742	\$112.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off- The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip (NNTN8457A)	NNTN8434A	742	\$515.00
ASSEMBLY,ACCESSORY,WRLSS ACCY KIT, STD PAIR, 12 IN CBL	-	NNTN8125C	742	\$239.00

Bluetooth Replacement Parts

Description	Full Description	Nomenclature	APC	Price
EARPIECE W/12" CABLE	Replacement cable for NTN2570C	NTN2572A	742	\$156.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the- Ear earpiece	NTN8821	115	\$46.00

COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	IMPRES RSM with NON- Threaded Audio Jack, Orange Button. Noise Cancelling (IP54). NOT INTENDED FOR FIRE MARKETS. UL Approved	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1- Programmable Button, Windporting (IP57). UL Approved	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	IMPRES RSM with NON- Threaded Audio Jack, Windporting (IP55)	PMMN4069A	372	\$133.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68).	HMN4101B	372	\$330.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4103B	372	\$345.00
	IMPRES Display RSM with Audio Jack, Channel Selector, Volume			

IMPRES RSM DSPLY W JACK, W CHNL	Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4104B	372	\$454.00
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Earpieces and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved	AARLN4885	742	\$25.75
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk. Lightweight earpiece that picks up sound through bone conduction.	PMLN5653A	742	\$399.00
EAR RCVR W/COIL CBL&3.5MM PLUG	UL Approved	WADN4190B	742	\$44.25
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: HMN4101, HMN4103, HMN4104.	RMN5116A	742	\$340.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote	RLN6424B	742	\$80.00

	Speaker Mics ONLY. UL Approved			
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
D-SHELL RX-ONLY EARPIECE (3.5MM)	UL Approved	PMLN4620B	742	\$19.50
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00
DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB	5080384F72	742	\$117.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00

Surveillance Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige,			

<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3.5mm Threaded *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.</p>	<p>BDN6668</p>	<p>742</p>	<p>\$135.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.</p>	<p>BDN6670</p>	<p>742</p>	<p>\$150.00</p>
<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.</p>	<p>BDN6729</p>	<p>742</p>	<p>\$114.00</p>

EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6731	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6732	742	\$150.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. UL Approved	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. UL Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. UL Approved	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. UL Approved	PMLN6130A	742	\$126.00
IMPRES 2 WIRE SURVEILLANCE - BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. UL Approved	PMLN6127A	742	\$108.00
	IMPRES 2-Wire			

IMPRES 2 WIRE W/TRANS TUBE BLK	Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6129A	742	\$122.00
IMPRES 3 WIRE W/ TRANS TUBE- BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6123A	742	\$178.00
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$73.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR- 50/PAK	-	RLN6282A	742	\$45.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB	5080384F72	742	\$117.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC				

DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$73.00
ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$65.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter.	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter.	ZMN6032	742	\$143.00

3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter	ZMN6031	742	\$177.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6726	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6727	742	\$43.25
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. UL Approved	PMLN6124A	742	\$178.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	RLN5313B	742	\$55.50

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	15012157001	DUST COVER ASSEMBLY	362	6
ACCESSORY	CDP	15012157001	DUST COVER ASSEMBLY	362	6
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372	3
PARTS	PGF	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	57
PARTS	CDP	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	2
PARTS	RNS	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	0
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10

PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32

PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1

PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607	4
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607	4
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5

FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	CDP	NAF5088B	ANTENNA COAXIAL WHIP 896-941 MHZ	555	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785	9
ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785	9
ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785	9
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2

FIXEDSTN	CDP	NNTN7869B	ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	742	14
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8125C	ASSEMBLY,ACCESSORY,WRLSS ACCY KIT, STD PAIR, 12 IN CBL	742	3
FIXEDSTN	CDP	NNTN8127B	ASSY,ACCY,WIRELESS ACCY KIT, STD PR	742	7
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453	1
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453	1
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453	1
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453	2
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453	2
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453	2
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785	5
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785	5
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785	5
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11

FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8434A	COMPLETELY DISCREET WRLS SURVEILLANCE KIT	742	3
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372	3
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785	8
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785	8
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115	2
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115	10
FIXEDSTN	CDP	PMAD4088B	VHF WIDEBAND ANTENNA (136- 174MHZ)	555	1
			VHF STUBBY ANTENNA 11CM(136-		

ACCESSORY	CDP	PMAD4093A	147MHZ)	555	45
FIXEDSTN	CDP	PMAD4094A	VHF STUBBY ANTENNA 11CM(147-160MHZ)	555	4
FIXEDSTN	CDP	PMAD4095A	VHF STUBBY ANTENNA 11CM(160-174MHZ)	555	1
DATATERM	PGF	PMAE4022B	DMR UHF WHIP ANTENNA(403-470MHZ)	555	25
ACCESSORY	RNS	PMAE4094B	UHF STUBBY ANT (420-445MHZ) 4.5CM	555	66
ACCESSORY	CDP	PMAE4094B	UHF STUBBY ANT (420-445MHZ) 4.5CM	555	66
ACCESSORY	CDP	PMAE4100A	ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	555	2
ACCESSORY	RNS	PMAE4102A	ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	837	25
ACCESSORY	CDP	PMAF4022A	ANTENNA, STUBBY,700/800 MHZ 9CM	555	2
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
PORTABLES	PDC	PMKN4013C	PROGRAMMING, TEST & ALIGNMENT CABLE	261	61
PORTABLES	PDC	PMKN4013C	PROGRAMMING, TEST & ALIGNMENT CABLE	261	61
PORTABLES	CDP	PMKN4107A	DISPLAY RSM EXT CABLE	372	23
PORTABLES	CDP	PMKN4112A	DRSM INTERFACE CABLE NEXUS M- 4	372	5

PORTABLES	CDP	PMKN4113A	DRSM INTERFACE CABLE HIROSE F-	372	5
ACCESSORY	PGF	PMKN4197A	CABLE, DATA,APX900 CLONING CABLE	837	18
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271	10
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271	10
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271	10
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271	10
PARTS	CDP	PMLN5096A	CORE EARSET - D-SHELL	742	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23

ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5610A	2.5 INCH SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	PMLN5610A	2.5 INCH SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	PMLN5611A	3.0 INCH SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	PMLN5611A	3.0 INCH SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
FIXEDSTN	PDC	PMLN5838A	HARD LEATHER CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	271	4
FIXEDSTN	CDP	PMLN5840A	HARD LEATHER CARRY CASE WITH 3 IN SWIVEL BELT LOOP - FULL KEYPAD	271	2
FIXEDSTN	CDP	PMLN5840A	HARD LEATHER CARRY CASE WITH 3 IN SWIVEL BELT LOOP - FULL KEYPAD	271	2
FIXEDSTN	CDP	PMLN5842A	HARD LEATHER CARRY CASE WITH 2.5 IN SWIVEL BELT LOOP - FKP	271	1
FIXEDSTN	CDP	PMLN5844A	NYLON CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	271	1
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE- BGE	742	4

FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7

FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271	4
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271	4
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271	4
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
FIXEDSTN	PDC	PMLN7203A	FLEXIBLE-FIT SWIVEL EARPIECE W/ BOOM MIC, MULTIPACK	742	15
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
ACCESSORY	CDP	PMMN4099B	IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	372	15
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453	5
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453	5

FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453	5
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453	15
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453	15
FIXEDSTN	CDP	PMNN4489A	BATT IMPRES LIION TIA4950 HE DENS IP68 2900T	453	1
FIXEDSTN	CDP	PMNN4491A	BATT IMPRES LIION IP68 2100T	453	5
FIXEDSTN	CDP	PMNN4491B	BATT IMPRES LIION IP68 2100T	453	4
FIXEDSTN	CDP	PMNN4493A	BATT IMPRES LIION LOW VOLT IP68 3000T	453	5
FIXEDSTN	PDC	PMPN4174A	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	785	4
ACCESSORY	CDP	PMPN4284A	CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100- 240VAC US/NA	785	4
ACCESSORY	CDP	PMPN4284A	CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100- 240VAC US/NA	785	4
ACCESSORY	RNS	PS000042A11	POWER SUPPLY ADAPTOR,POWER- WALL CUBE,AC,DC,SWITCH MODE, 5W, 100 V - 2	785	25
ACCESSORY	PGF	PS000042A11	POWER SUPPLY ADAPTOR,POWER- WALL CUBE,AC,DC,SWITCH MODE, 5W, 100 V - 2	785	25
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
			SMALL CUSTOM EARPIECE, RIGHT		

PORTABLES	SCB	RLN4760	EAR	742	5
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4

PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PARTS	CDP	RLN4919	EARWAX GUARDS 5 PACK	742	5
PARTS	PDC	RLN4919	EARWAX GUARDS 5 PACK	742	63
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372	5
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
ACCESSORY	CDP	RLN4941AXL	REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	3
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9

FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785	3
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785	3
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR- 50/PAK	742	4
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR- 50/PAK	742	4
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80

FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742	4
FIXEDSTN	CDP	RLN6500A	MOTOTRBO BLUETOOTH ACCESSORY KIT W/NA POWER SUPPLY	742	28
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4

PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742	5
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742	5
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476	1
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476	1
PARTS	CDP	ZMN6039	SPKR MIC W XLOAD EARPIECE	742	15

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 900™ Portable Series

P25 Phase 2 Single Band Capable Radio

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Ordering Information

Standard Features

All ASTRO Digital APX 900 models include the following features:

- Single Microphone
 - 0.5 Watt Rated Audio
 - 3 Programmable Side Buttons
 - Dual Knob Function
 - Orange programmable button
 - IP68 environmental specifications
 - 2" belt clip (PMLN4651)
 - Standard Li-Ion 2100 mAh Battery (PMNN4491)
 - Antenna Dependent on Frequency Band (7/800 MHz: NAF5080, 900 MHz: NAF5088, VHF: PMAD4088, UHF: PMAE4022)
 - NOTE: Charger must be purchased separately (Single Unit Charger: PMPN4174A)
 - 12 month standard warranty
- Low Battery Alert Tone
 - Radio profiles
 - Unified call list
 - Front color display: 4 lines of text, 1 line of icons
 - Limited keypad: Backlight keypad with 3 soft keys, 4 direction navigation key, home and data buttons
 - Full keypad: Backlight keypad with 3 soft keys, 4 direction navigation key, 4X3 keypad, home and data buttons and full DTMF keypad

The APX 900 ships standard with GPS Activation (QA00782), Radio Packet Data (Q947), Operations Critical Wireless Bluetooth (QA00583), Enhanced Noise Suppressor (QA09006), and Software (SW) Key Supplemental Data (QA01749). The APX 900 contains an internal GPS antenna and therefore a separate external GPS antenna is not needed.

Regulatory Information

Band	FCC ID	Industry Canada
7/800 MHz	AZ489FT7096	109U-89FT7096
900 MHz	AZ489FT7100	109U-89FT7100
VHF	AZ489FT7098	109U-89FT7098
UHF1	AZ489FT7097	109U-89FT7097
UHF2	AZ489FT7099	109U-89FT7099

Configuration

Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 900 7/800 MHZ MODEL 2 PORTABLE	-	H92UCF9PW6 N	837	\$1,597.00

APX 900 7/800 MHZ MODEL 3 PORTABLE	-	H92UCH9PW7 N	837	\$1,803.00
APX 900 900 MHZ MODEL 2	-	H92WCF9PW6 N	837	\$1,597.00
APX 900 900 MHZ MODEL 3	-	H92WCH9PW7 N	837	\$1,803.00
APX 900 VHF MODEL 2 PORTABLE	-	H92KDF9PW6 N	837	\$1,597.00
APX 900 VHF MODEL 3 PORTABLE	-	H92KDH9PW7 N	837	\$1,803.00
APX 900 UHFR1 MODEL 2 PORTABLE	-	H92QDF9PW6 N	837	\$1,597.00
APX 900 UHFR1 MODEL 3 PORTABLE	-	H92QDH9PW7 N	837	\$1,803.00
APX 900 UHFR2 MODEL 2 PORTABLE	-	H92SDF9PW6 N	837	\$1,597.00
APX 900 UHFR2 MODEL 3 PORTABLE	-	H92SDH9PW7 N	837	\$1,803.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,070.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$350.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM			

SUPPLEMENTAL DATA	OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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System Enhancement Options (Optional)

All APX 900 Radios ship P25 "clear" with QA05751 unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D (Q947). Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	426	\$100.00
ADD: TDMA OPERATION	Requires P25 Trunking (QA04096). A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	426	\$450.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: MULTIKEY	-	H869	837	\$75.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required.	QA03399	656	\$150.00

ADD: GROUP SERVICES	<p>Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging.</p> <p>This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature (requires digital).</p>	QA09008	655	\$150.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation (QA04096)	QA01767	426	\$100.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ENH: CONVENTIONAL VOTE SCAN	-	Q387AT	430	\$230.00
ENH: AES 256 SW ENCRYPTION	<p>P25 CAP Compliant option. Includes ADP. AES Encryption can NOT be field upgraded. Highly recommended to be purchased up front if needed.</p>	QA06653	837	\$325.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	<p>Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.</p>	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00

Antenna Selection (Optional)

The APX 900 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5080,

900 MHz: NAF5088, VHF: PMAD4088, UHF: PMAE4022)

The APX 900 contains an internal GPS antenna and therefore a separate external GPS antenna is not needed

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (PMAF4022A)	This option will delete the standard antenna (NAF5080) and add 1/4 wave 7/800 stubby antenna (PMAF4022)	H122	837	\$9.00
ALT: VHF STUBBY ANTENNA (136-147MHZ) (PMAD4093A)	This option will delete the standard antenna (PMAD4088) and add 136-147 MHz stubby antenna (PMAD4093)	QA06786	837	\$9.00
ALT: VHF STUBBY ANTENNA (147-160MHZ) (PMAD4094A)	This option will delete the standard antenna (PMAD4088) and add 147-160 MHz stubby antenna (PMAD4094)	QA06787	837	\$9.00
ALT: VHF STUBBY ANTENNA (160-174MHZ) (PMAD4095A)	This option will delete the standard antenna (PMAD4088) and add 160-174 MHz stubby antenna (PMAD4095)	QA06788	837	\$9.00
ALT: UHFR1 STUBBY ANTENNA (380-480 MHZ) (PMAE4100)	This option will delete the standard antenna (PMAE4022) and add 380-470 MHz stubby antenna (PMAE4100)	QA06796	837	\$9.00
ALT: UHFR2 STUBBY ANTENNA (450-520 MHZ) (PMAE4102)	This option will delete the standard antenna (PMAE4094) and add 450-527 MHz stubby antenna (PMAE4102)	QA06797	837	\$9.00
ALT: UHFR2 WHIP ANTENNA (450-520 MHZ) (PMAE4094)	This option will delete the standard antenna (PMAF4022) and adds	QA06795	837	\$9.00

	450-527 MHz antenna (PMAE4049)			
DEL: DELETE STANDARD ANTENNA (NAF5080)	Deletes standard antenna: NAF5080 (7/800 MHz), NAF5088 (900 MHz), PMAD4088 (VHF), PMAE4022 (UHF)	H112LW	837	(\$10.00)

Battery Selection (Optional)

The APX 900 ships standard with an IMPRES Li-Ion 2100 mAh battery (PMNN4491)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRESS LI-ION 3000MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion 3000 MAH (PMNN4493)	QA06765	837	\$85.00
ALT: IMPRESS LI-ION TIA 2900MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion TIA 2900 MAH (PMNN4489)	QA06766	837	\$100.00
DEL: DELETE BATTERY (PMNN4491)	Deletes standard battery (PMNN4491)	H207	837	(\$47.00)

Belt Clip Selection (Optional)

The APX 900 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	This option deletes the standard belt clip (PMLN4651) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$12.00
DEL: DELETE STANDARD BELT CLIP	Deletes standard belt clip (PMLN4651)	H301	426	(\$10.00)

Data Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
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ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software (PMKN4013C)	Q157	655	\$75.00
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Service Package Selection (Must Select One)

The APX 900 ships standard with a 12 month warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$90.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$234.00
	Provides 5 years of hardware coverage beginning at time of			

ADD: 5Y ESSENTIAL SERVICE	shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$162.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$134.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$185.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-PORT	-	QA00205	837	\$0.00
ADD: CDROM USER GUIDE	-	H88CE	837	\$25.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	837	\$0.00

Packaging Selection (Optional)

The APX 900 ships standard with bulk packaging

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	837	\$0.00

Software & Services

FLASHport®

All ASTRO Digital APX 900 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio).

Project 25 Encryption

The APX 900 does NOT support any hardware encryption. It does however support AES software encryption (QA06653). AES software encryption CANNOT be field upgraded, therefore it is highly recommended to purchase AES software encryption upfront. AES software encryption can interoperate with a radio with AES hardware Encryption. Both encryption methods require a KVL to load the keys into the radio. As long as the keys match then the radio is able to encrypt and decrypt the voice and data.

Global Positioning Satellite (GPS)

The personnel outdoor location tracking GPS feature enables a dispatcher to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around or above the user. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

*GPS Performance may be degraded when the radio is worn against the body and/or against the body within a vehicle

NOTE Limitations of Use:

- GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:
 - Underground locations (tunnels, subways, etc.)
 - Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
 - Under metal or concrete roof structures
 - Urban canyons (between tall buildings or under dense tree coverage)

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. In any emergency situation, the location should always be verbally reported to the dispatcher.

The APX 900 contains an internal GPS antenna therefore a separate external GPS antenna is not needed.

RFID Enabled Volume Knob

RFID enabled volume knobs (36012032001) are available as an accessory. See RFID Solution Partner list for information on partners that can provide customers with scanner hardware and back end asset management solutions.

Self-Quieting Spurs

7/800 MHz Frequencies	900 MHz Frequencies	VHF Frequencies	UHFR1 Frequencies	UHFR2 Frequencies
767.950		138.000	384.000	451.200
768.000		139.200	410.400	456.000
772.800		144.000	420.000	460.800
770.000		148.800	422.400	470.400
856.800		150.000	460.800	475.200
863.025		153.600	480.000	480.000
864.000		156.000		484.800

		158.400		489.600
		163.200		499.200
		168.000		501.600
		172.800		504.000
				508.800
				513.600
				518.400
				519.250

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H92KDF9PW6 N	APX 900 VHF MODEL 2 PORTABLE	837	18
PORTABLES	FSC	H92KDF9PW6 N	APX 900 VHF MODEL 2 PORTABLE	837	18
PORTABLES	FSC	H92KDH9PW7 N	APX 900 VHF MODEL 3 PORTABLE	837	1
PORTABLES	FSC	H92KDH9PW7 N	APX 900 VHF MODEL 3 PORTABLE	837	1
PORTABLES	FSC	H92QDF9PW6 N	APX 900 UHFR1 MODEL 2 PORTABLE	837	2
		H92QDF9PW6	APX 900 UHFR1 MODEL 2		

PORTABLES	FSC	N	PORTABLE	837	2
PORTABLES	FSC	H92QDH9PW7 N	APX 900 UHFR1 MODEL 3 PORTABLE	837	7
PORTABLES	FSC	H92QDH9PW7 N	APX 900 UHFR1 MODEL 3 PORTABLE	837	7
PORTABLES	FSC	H92SDF9PW6 N	APX 900 UHFR2 MODEL 2 PORTABLE	837	4
PORTABLES	FSC	H92SDF9PW6 N	APX 900 UHFR2 MODEL 2 PORTABLE	837	4
PORTABLES	FSC	H92SDH9PW7 N	APX 900 UHFR2 MODEL 3 PORTABLE	837	40
PORTABLES	FSC	H92SDH9PW7 N	APX 900 UHFR2 MODEL 3 PORTABLE	837	40
PORTABLES	FSC	H92UCF9PW6 N	APX 900 7/800 MHZ MODEL 2 PORTABLE	837	12
PORTABLES	FSC	H92UCF9PW6 N	APX 900 7/800 MHZ MODEL 2 PORTABLE	837	12
PORTABLES	FSC	H92UCH9PW7 N	APX 900 7/800 MHZ MODEL 3 PORTABLE	837	4
PORTABLES	FSC	H92UCH9PW7 N	APX 900 7/800 MHZ MODEL 3 PORTABLE	837	4
PORTABLES	FSC	H92WCF9PW6 N	APX 900 900 MHZ MODEL 2	837	2
PORTABLES	FSC	H92WCF9PW6 N	APX 900 900 MHZ MODEL 2	837	2
PORTABLES	FSC	H92WCH9PW7 N	APX 900 900 MHZ MODEL 3	837	2
PORTABLES	FSC	H92WCH9PW7 N	APX 900 900 MHZ MODEL 3	837	2

APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 900
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Updates

No updates at this time

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 900 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- **Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle**

Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied

- **Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have**

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as the main line item (T8523A, T8525A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. Select the desired System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
6. "FLASH upgrades are not discountable"

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 900 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Canada personnel refer to Section A under CANADA ONLY information.

AES 256 SW Encryption is not available via Flashport

ASTRO® DIGITAL APX 900 price pages are accessible through the select list pulldown above.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
P25 CONVENTIONAL	-	T8523	430	\$0.00

P25 TRUNKING	-	T8524	430	\$0.00
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Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	-	QA00580AE	430	\$518.00
ENH: P25 DIGITAL CONVENTIONAL TO P25 DIGITAL TRUNKING FLP	-	QA03216AG	837	\$720.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	-	G996AX	430	\$115.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$115.00
ADD: ENHANCED DATA	-	QA03399AB	430	\$173.00
ADD: GROUP SERVICES FLP	-	QA09008	430	\$173.00
ENH: APX GPS ACTIVATION	-	QA00782	426	\$150.00
ENH: MULTIKEY	-	H869CC	430	\$380.00
ADD: MISSION CRITICAL GEOFENCING FLP	-	QA09012AB	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00

Misc

Description	Full Description	Nomenclature	APC	Price
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ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T8523	P25 CONVENTIONAL	430	11
PORTABLES	SCB	T8524	P25 TRUNKING	430	5
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

ASTRO® Digital APX 900™ Portable Series

UL Approved Accessories

Updates

No updates at this time

Ordering Information

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

Note: Only the accessories listed below have been UL Approved to operate with the APX 900 portable series radios

LMR Device for HAZLOC is certified by UL to standards ANSI/TIA 4950 and CAN/CSA C22.2 NO. 157-92. Classification Rating Class I, Division 1, Groups C, D; Class II Group E, F, G; Class III and Class I, Division 2, Groups A, B, C, D. T3C. Tamb = -25 °C to +60 °C. Intrinsically Safe Sécurité Intrinsèque when used with Motorola Solutions Battery PMNN4489, 7.4 V.

Configuration

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES LIION TIA4950 HE DENS IP68 2900T	UL Approved with APX 900	PMNN4489A	453	\$180.00

Antennas

Description	Full Description	Nomenclature	APC	Price
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved with APX 900	PMAD4088B	555	\$21.50
VHF STUBBY ANTENNA 11CM(136-147MHZ)	UL Approved with APX 900	PMAD4093A	555	\$11.00
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved with APX 900	PMAD4094A	555	\$11.00
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved with APX 900	PMAD4095A	555	\$11.00
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved with APX 900	PMAE4022B	555	\$10.25
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved with APX 900	PMAE4100A	555	\$29.00
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved with APX 900	PMAE4102A	837	\$29.00
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	UL Approved with APX 900	NAF5080	555	\$35.00

Headsets

Description	Full Description	Nomenclature	APC	Price
HEAVY DUTY HEADSET PMLN5275C	UL Approved with APX 900	PMLN5275C	742	\$534.00
CORE L/W HEADSET	UL Approved with APX 900	RMN5058A	742	\$92.75
CORE ULTRA-LITE HEADSET	UL Approved with APX 900	PMLN5102A	742	\$88.50

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	UL Approved with APX 900	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	UL Approved with APX 900	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	UL Approved with APX 900	PMMN4069A	372	\$133.00

Surveillance Kits

Description	Full Description	Nomenclature	APC	Price
IMPRES 3 WIRE W/ TRANS TUBE- BLK	UL Approved with APX 900	PMLN6123A	742	\$178.00
IMPRES 3 WIRE W/ TRANS TUBE- BGE	UL Approved with APX 900	PMLN6124A	742	\$178.00
IMPRES 2 WIRE SURVEILLANCE - BLK	UL Approved with APX 900	PMLN6127A	742	\$108.00
IMPRES 2 WIRE SURVEILLANCE- BGE	UL Approved with APX 900	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK	UL Approved with APX 900	PMLN6129A	742	\$122.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	UL Approved with APX 900	PMLN6130A	742	\$126.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	UL Approved with APX 900	RLN5313B	742	\$55.50

Earpieces

Description	Full Description	Nomenclature	APC	Price

1 WIRE SURVEILLANCE KIT-BLACK	UL Approved with APX 900	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	UL Approved with APX 900	PMLN6126A	742	\$41.25
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN4941A	742	\$71.00
EAR RCVR W/COIL CBL&3.5MM PLUG	UL Approved with APX 900	WADN4190B	742	\$44.25
RX ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN6424B	742	\$80.00
CORE EARSET - D-SHELL	UL Approved with APX 900	PMLN5096B	607	\$63.50
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved with APX 900	AARLN4885	742	\$25.75

Misc

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCY ADPT 3.5MM W/PTT	UL Approved with APX 900	BDN6783B	742	\$73.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3

FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	CDP	NAF5088B	ANTENNA COAXIAL WHIP 896-941 MHZ	555	5
FIXEDSTN	CDP	PMAD4088B	VHF WIDEBAND ANTENNA (136- 174MHZ)	555	1
ACCESSORY	CDP	PMAD4093A	VHF STUBBY ANTENNA 11CM(136- 147MHZ)	555	45
FIXEDSTN	CDP	PMAD4094A	VHF STUBBY ANTENNA 11CM(147- 160MHZ)	555	4
FIXEDSTN	CDP	PMAD4095A	VHF STUBBY ANTENNA 11CM(160- 174MHZ)	555	1
DATATERM	PGF	PMAE4022B	DMR UHF WHIP ANTENNA(403- 470MHZ)	555	25
ACCESSORY	CDP	PMAE4100A	ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	555	2
ACCESSORY	RNS	PMAE4102A	ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	837	25
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4

PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742	4
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2

FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3

FIXEDSTN	CDP	PMNN4489A	BATT IMPRES LIION TIA4950 HE DENS IP68 2900T	453	1
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 1000
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Updates

No updates at this time

Ordering Information

GENERAL INFORMATION

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 1000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. **For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.**

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as the main line item (T8279A, T8280A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. Select the desired System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. IMPORTANT: If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable. [CLICK HERE](#) for available cables.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 1000 radios.

Software Prices BELOW DO NOT include field programming.

FCC INFORMATION

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Canada personnel refer to Section A under CANADA ONLY information.

[ASTRO® DIGITAL APX 1000](#)

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
P25 CONVENTIONAL	-	T8279	430	\$0.00
P25 TRUNKING	-	T8280	430	\$0.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$518.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,173.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$288.00

ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$115.00
ENH: MULTIKEY	-	H869CC	430	\$380.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ADD: MISSION CRITICAL				

GEOFENCING FLP	-	QA09012AB	430	\$173.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$115.00

Misc

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T8279	P25 CONVENTIONAL	430	15
PORTABLES	SCB	T8280	P25 TRUNKING	430	15
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

ASTRO® Digital APX 1000™ Portable Series

Updates

No updates at this time

Ordering Information

General Information

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)[APX Accessory & Energy Catalog](#)[Battery Warranty](#)[Battery Storage, Handling & Care Tips](#)

NOTE: Only the accessories listed below have been certified to operate with the APX 1000 portable series radios

Configuration

Antennas

Description	Full Description	Nomenclature	APC	Price
700/800- GPS ANTENNA	-	NAF5085A	555	\$45.00
UHF (380-520) GPS ANTENNA	-	PMAE4065A	555	\$21.00

ANT,HLCL,136MHZ MIN,1.577GHZ M	-	NAR6593A	555	\$38.00
ANT 1/4 WAVE 7/800 STUBBY	-	NAR6595A	555	\$29.00
UHF1 GPS STUBBY ANTENNA	-	FAF5259A	555	\$60.00
UHFR2 GPS STUBBY ANTENNA	-	FAF5260A	555	\$60.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$146.00
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$135.00
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00

Chargers

Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	-	PMPN4174A	785	\$76.00
ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	-	WPLN4212B	785	\$495.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	-	RLN5382C	785	\$95.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	-	NLN7967	785	\$21.00
INSERT, UNIVERSAL MUC	-	NNTN8170A	785	\$207.00
INSERT, UNIVERSAL SUC	-	NNTN8169A	453	\$45.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	-	NNTN7392	785	\$250.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	-	NNTN7677A	291	\$159.00
CHARGR INTRFCE UNT GEN1 IMPRES SUC	-	NNTN8045A	129	\$75.00

Programming Cables

Description	Full Description	Nomenclature	APC	Price
PROGRAMMING, TEST & ALIGNMENT CABLE	-	PMKN4013C	261	\$103.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	-	PMLN6085A	271	\$60.00
2.75" SWL D-STUD BELT LOOP	-	PMLN7229A	271	\$21.00
BELT CLIP 2"	-	PMLN4651A	271	\$12.00
2.5-INCH BELT CLIP	-	PMLN7008A	271	\$13.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
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IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	-	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	-	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	-	PMMN4069A	372	\$133.00

Remote Speaker Microphone Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$58.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$58.00
D-SHELL RX-ONLY EARPIECE (3.5MM)	-	PMLN4620B	742	\$19.50
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RX/TX BOOMLESS TEMPLE TRANSDUC	-	RMN5116A	742	\$340.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN6424B	742	\$80.00

FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$117.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5080370E97	742	\$29.25
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00
DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	-	3075336B17	372	\$90.00
IMPRES RSM REPL COIL CORD	-	RLN6075	372	\$85.00

Ear Microphones

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MIC	-	PMLN5653A	742	\$399.00
EARGUARD	-	0180300E25	742	\$68.00
EARHOLDER SMALL BLK	-	0180358B32	742	\$20.00
EARHOLDER MEDIUM BLK	-	0180358B33	742	\$19.00
EARHOLDER LARGE BLK	-	0180358B34	271	\$20.00
EARHOLDER MEDIUM CLR	-	0180358B36	742	\$20.00
EARHOLDER LARGE CLR	-	0180358B37	742	\$20.00

Surveillance Kits

Description	Full Description	Nomenclature	APC	Price
1 WIRE SURVEILLANCE KIT-BLACK	-	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	-	PMLN6126A	742	\$41.25

IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$108.00
IMPRES 2 WIRE SURVEILLANCE-BGE	-	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$122.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$126.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	-	PMLN6123A	742	\$178.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	-	PMLN6124A	742	\$178.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	-	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	-	ZMN6039	742	\$190.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	-	ZMN6031	742	\$177.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	-	ZMN6032	742	\$143.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	-	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6726	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6727	742	\$43.25
RECEIVE ONLY EARPIECE, BEIGE W/EXTENDED WEAR COMFORT EARPIECE(NTN8371)	-	RLN5314	742	\$54.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	-	BDN6729	742	\$114.00
EARPIECE, MIC & PTT COMBINED W/EXTRA	-	BDN6669	742	\$118.00

LOUD EARPIECE - BEIGE (2 WIRE)				
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	-	BDN6731	742	\$118.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	-	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	-	BDN6730	742	\$135.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	-	BDN6670	742	\$150.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	-	BDN6732	742	\$150.00

Surveillance Kits Replacement Parts

Description	Full Description	Nomenclature	APC	Price
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	-	NNTN8457A	372	\$30.00
DISCREET EARPIECE KIT	-	RLN4921	372	\$275.00
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$73.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$117.00

SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE EARSET - D-SHELL	-	PMLN5096A	742	\$63.50
CORE ULTRA-LITE HEADSET	-	PMLN5102A	742	\$88.50
HEAVY DUTY HEADSET	-	PMLN5275A	742	\$485.00
NEXT GEN BTH HEADSET GCAI	-	PMLN6852A	742	\$330.00
AUDIO ACCESSORY-HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	-	PMLN6853	742	\$443.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	-	PMLN7466A	742	\$330.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	-	PMLN7467A	742	\$443.00
IMPRES TEMPLE TRANSDUCER	-	PMLN5101A	742	\$251.00

Hearing Protection

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Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Ship Card

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Product Type	FC	Nomenclature	Description	APC
PARTS	RNS	0180300E25	EARGUARD	742
PARTS	CDP	0180300E25	EARGUARD	742
PARTS	DCH	0180358B32	EARHOLDER SMALL BLK	742
PARTS	PGF	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	CDP	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B34	EARHOLDER LARGE BLK	271
PARTS	DCH	0180358B36	EARHOLDER MEDIUM CLR	742
PARTS	DCH	0180358B37	EARHOLDER LARGE CLR	742
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372

PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
PARTS	CDP	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
PARTS	RNS	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742

PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742

PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555

COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHF2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHF2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHF2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555

PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453

FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMKN4013C	PROGRAMMING, TEST & ALIGNMENT CABLE	261
PORTABLES	PDC	PMKN4013C	PROGRAMMING, TEST & ALIGNMENT CABLE	261
PORTABLES	CDP	PMKN4107A	DISPLAY RSM EXT CABLE	372
PORTABLES	CDP	PMKN4112A	DRSM INTERFACE CABLE NEXUS M-4	372
PORTABLES	CDP	PMKN4113A	DRSM INTERFACE CABLE HIROSE F-	372
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271

PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	CDP	PMLN5096A	CORE EARSET - D-SHELL	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742
PARTS	CDP	PMLN5102A	CORE ULTRA-LITE HEADSET	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742

FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
ACCESSORY	CDP	PMLN6852A	NEXT GEN BTH HEADSET GCAI	742
ACCESSORY	CDP	PMLN6852A	NEXT GEN BTH HEADSET GCAI	742

FIXEDSTN	CDP	PMLN6853	AUDIO ACCESSORY-HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	742
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
ACCESSORY	CDP	PMLN7229A	2.75" SWL D-STUD BELT LOOP	271
ACCESSORY	CDP	PMLN7229A	2.75" SWL D-STUD BELT LOOP	271
ACCESSORY	CDP	PMLN7466A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	742
ACCESSORY	CDP	PMLN7466A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	742
ACCESSORY	CDP	PMLN7466A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	742
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742
FIXEDSTN	PDC	PMLN7560A	REC ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	PDC	PMLN7560A	REC ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	PDC	PMLN7560A	REC ONLY EARPIECE W/TRANSLUCENT	742

			TUBE	
FIXEDSTN	PDC	PMLN7560A	REC ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
FIXEDSTN	PDC	PMPN4174A	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	785
PARTS	CDP	RLN4919	EARWAX GUARDS 5 PACK	742
PARTS	PDC	RLN4919	EARWAX GUARDS 5 PACK	742

FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372
PARTS	CDP	RLN4921	DISCREET EARPIECE KIT	372
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742

PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785

FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476
PARTS	CDP	ZMN6039	SPKR MIC W XLOAD EARPIECE	742

JUMP TO ...

[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE & SERVICES](#)[SHIP CARD](#)

Model



ASTRO® Digital APX 1000™ Portable Series
P25 Phase 2 Single Band Capable Radio

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Ordering Information

Standard Features

All ASTRO Digital APX 1000 models include the following features:

- Dual Microphone
- 0.5 Watt Rated Audio
- 3 Programmable Side Buttons
- Continuous Rotary Multi-Function Knob
- Orange Programmable Button
- IP54 Environmental Specifications
- 2" Belt Clip (PMLN4651)
- GPS (QA00782)
- Intelligent Lighting
- Low Battery Alert Tone
- Noise Cancellation Software
- Radio Profiles
- Unified Call List
- Front Color Display: 2 lines of text, 2

- Standard Li-Ion 1900 mAh Battery (NNTN8128)
 - Antenna Dependent on Frequency Band (7/800 MHz: NAF5085, 900 Mhz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)
 - NOTE: Charger must be purchased separately
 - 12 Month Standard Manufacturer's Warranty
 - NOTE: Additional services package is required with purchase
- lines of icons
 - No Keypad: Backlight keypad with 3 soft keys
 - Limited Keypad: Backlight keypad with 3 soft keys, 4 direction navigation key, home and data buttons
 - Full Keypad: Backlight keypad with 3 soft keys, 4 direction navigation key, 3X4 keypad, home and data buttons and full DTMF keypad

UL Battery option (QA00582) available only on 900 MHz dual knob model (H84WCF9PW6AN + QA04865)

Regulatory Information

Band	FCC ID
7/800 MHz	AZ489FT7057
900 MHz	AZ489FT5861
VHF	AZ489FT3834
UHFR1	AZ489FT4917
UHFR2	AZ489FT4920

Configuration

Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 1000 7/800 MHZ MODEL 1.5 PORTABLE	-	H84UCD9PW5 N	837	\$1,391.00
APX 1000 7/800 MHZ MODEL 2 PORTABLE	-	H84UCF9PW6 N	837	\$1,597.00
APX 1000 7/800 MHZ MODEL 3	-	H84UCH9PW7	837	\$1,803.00

PORTABLE		N		
APX 1000 900MHZ MODEL 2	-	H84WCF9PW6 N	837	\$1,597.00
APX 1000 VHF MODEL 1.5 PORTABLE	-	H84KDD9PW5 N	837	\$1,391.00
APX 1000 VHF MODEL 2 PORTABLE	-	H84KDF9PW6 N	837	\$1,597.00
APX 1000 VHF MODEL 3 PORTABLE	-	H84KDH9PW7 N	837	\$1,803.00
APX 1000 UHF R1 MODEL 1.5 PORTABLE	-	H84QDD9PW5 N	837	\$1,391.00
APX 1000 UHFR1 MODEL 2 PORTABLE	-	H84QDF9PW6 N	837	\$1,597.00
APX 1000 UHFR1 MODEL 3 PORTABLE	-	H84QDH9PW7 N	837	\$1,803.00
APX 1000 UHF R2 MODEL 1.5 PORTABLE	-	H84SDD9PW5 N	837	\$1,391.00
APX 1000 UHF R2 MODEL 2 PORTABLE	-	H84SDF9PW6 N	837	\$1,597.00
APX 1000 UHF R2 MODEL 3 PORTABLE	-	H84SDH9PW7 N	837	\$1,803.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 CONVENTIONAL	-	QA04097	837	\$350.00
ENH: P25 TRUNKING	-	QA04096	837	\$1,070.00

Knob Configuration (Optional)

7/800, VHF, UHFR1, UHFR2 and 900 MHz models ship standard with a single multi function

knob (no option required).

The 900 MHz model also offers the option for dual knob configuration. If dual knob configuration is desired on the 900 MHz model you must select QA04865.

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL CONTROL ENHANCEMENT	Only available on 900 MHz model	QA04865	426	\$100.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

System Enhancement Selection (Optional)

All APX 1000 radios ship P25 “clear” with QA05751 unless the ADP option (Q667) is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25/OTAP requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To use in the field POP25 programming must use the Advanced System Key	G996	426	\$100.00

	(DVN4046A).			
ADD: TDMA OPERATION	Requires P25 Trunking (QA04096). A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	426	\$450.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: MULTIKEY	-	H869	837	\$75.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required	QA03399	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature (requires digital)	QA09008	655	\$150.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (QA04096)	QA01767	426	\$100.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
	Customers who require compliance with DHS			

ADD: NO ADP FOR P25 CAP	Project 25 CAP Encryption Requirements and who require a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$75.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Antenna Selection (Optional)

The APX 1000 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5085, 900 MHz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)

Description	Full Description	Nomenclature	APC	Price
ALT: VHF STUBBY ANTENNA (147-160MHZ) (PMAD4094A)	This option will delete the standard antenna (NAR6593) and add 147-160 MHz stubby antenna (PMAD4094)	QA06787	837	\$9.00
ALT: VHF STUBBY ANTENNA (160-174MHZ) (PMAD4095A)	This option will delete the standard antenna (NAR6593) and add 160-174 MHz stubby antenna (PMAD4095)	QA06788	837	\$9.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option will delete the standard antenna (PMAE4065) and add 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	426	\$55.00
	This option will delete the			

ALT: UHFR2 WHIP ANTENNA (450-520 MHZ) (PMAE4094)	standard antenna (PMAE4065) and add 420-445 MHz stubby antenna (PMAE4094)	QA06795	837	\$9.00
ALT: UHFR1 STUBBY ANTENNA (380-480 MHZ) (PMAE4100)	This option will delete the standard antenna (PMAE4065) and add 380-470 MHz stubby antenna (PMAE4100)	QA06796	837	\$9.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option will delete the standard antenna (PMAE4065) and add 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	426	\$55.00
ALT: UHFR2 STUBBY ANTENNA (450-520 MHZ) (PMAE4102)	This option will delete the standard antenna (PMAE4065) and add 450-527 MHz stubby antenna (PMAE4102)	QA06797	837	\$9.00
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	This option will delete the standard antenna (NAF5085) and add 1/4 wave 7/800 MHz stubby antenna (NAR6595)	H122	426	\$24.00
DEL: DELETE STANDARD ANTENNA	Deletes standard antenna: NAF5085 (7/800 MHz), PMAF4008 (900 MHz), NAR6593 (VHF), PMAE4065 (UHFR1/R2)	H112	426	(\$10.00)

Battery Selection (Optional)

The APX 1000 ships standard with an IMPRES Li-Ion 1900 mAh battery (NNTN8128)

UL Approval available ONLY on the 900 MHZ dual knob model 2 black model (H84WCF9PW6AN)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option will delete the standard battery (NNTN8128) and add IMPRES Li-Ion 2350 mAh	QA02749	426	\$85.00

	(PMNN4424)			
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This option will delete the standard battery (NNTN8128) and add IMPRES Li-Ion 2800 mAh (PMNN4448)	QA04146	837	\$100.00
ALT: IMPRES LI-ION 2500MAH UL/DELTA T BATTERY (NNTN8560A)	This option deletes the standard battery (NNTN8128) and adds IMPRES Li-Ion 2500 mAh UL/Delta T battery (NNTN8560). *Available on the two knob 900 MHz configuration only (QA04865 + H84WCF9PW6AN)	QA00582	411	\$130.00
DEL: DELETE BATTERY	Deletes standard battery (NNTN8128)	H207	426	(\$47.00)

Belt Clip Selection (Optional)

The APX 1000 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	Deletes standard belt clip (PMLN4651) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$12.00
DEL: DELETE STANDARD BELT CLIP	Deletes standard belt clip (PMLN4651)	H301	426	(\$10.00)

Data Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios.	Q157	655	\$75.00

Service Package Selection (Must Select One)

The APX 1000 ships standard with a 12 month manufacturer's warranty. NOTE: Additional services package is required with purchase.

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	<p>Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	H885BK	185	\$90.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	<p>Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	HA00022AB	185	\$234.00
ADD: 5Y ESSENTIAL SERVICE	<p>Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola</p>	Q887	185	\$162.00

	designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.			
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$134.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$185.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX1000 CD-ROM	-	H88	837	\$25.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	RFID Volume knob for single knob configuration (QA04526AD). Knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$25.00
ADD: RFID KNOB	RFID Volume knob for dual knob configuration (900 MHz only) (QA04526AE). Knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$25.00

Packaging Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	This option deletes the standard bulk packaging option and adds single unit packaging.	H842	426	\$0.00

Software & Services

FLASHport®

All ASTRO Digital APX 1000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio).

Global Positioning Satellite (GPS)

The personnel outdoor location tracking GPS feature enables a dispatcher to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around or above the user. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

*GPS Performance may be degraded when the radio is worn against the body and/or against the body within a vehicle

NOTE Limitations of Use:

- GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:
 - Underground locations (tunnels, subways, etc)
 - Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
 - Under metal or concrete roof structures
 - Urban canyons (between tall buildings or under dense tree coverage)

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. In any emergency situation, the location should always be verbally reported to the dispatcher.

RFID Enabled Volume Knob

RFID enabled volume knobs are available as an accessory. See RFID Solution Partner list for information on partners that can provide customers with scanner hardware and back end asset management solutions.

Self-Quieting Spurs

7/800 MHz Frequencies	900 MHz Frequencies	VHF Frequencies	UHF Frequencies
767.9500	896-901	144.0000	384.0000
772.8000	935-940	147.4500	385.0200
856.8000	940.800	156.0000	393.2125
863.0250		168.0000	407.8625
		172.0250	417.7875
			431.9875

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H84KDD9PW5 N	APX 1000 VHF MODEL 1.5 PORTABLE	837	6
PORTABLES	FSC	H84KDD9PW5 N	APX 1000 VHF MODEL 1.5 PORTABLE	837	6
PORTABLES	FSC	H84KDF9PW6 N	APX 1000 VHF MODEL 2 PORTABLE	837	27
PORTABLES	FSC	H84KDF9PW6 N	APX 1000 VHF MODEL 2 PORTABLE	837	27
PORTABLES	FSC	H84KDH9PW7 N	APX 1000 VHF MODEL 3 PORTABLE	837	8
PORTABLES	FSC	H84KDH9PW7 N	APX 1000 VHF MODEL 3 PORTABLE	837	8
PORTABLES	PGF	H84QDD9PW5 N	APX 1000 UHF R1 MODEL 1.5 PORTABLE	837	8
PORTABLES	PGF	H84QDD9PW5 N	APX 1000 UHF R1 MODEL 1.5 PORTABLE	837	8
PORTABLES	FSC	H84QDF9PW6 N	APX 1000 UHFR1 MODEL 2 PORTABLE	837	1
PORTABLES	FSC	H84QDF9PW6 N	APX 1000 UHFR1 MODEL 2 PORTABLE	837	1
PORTABLES	FSC	H84QDH9PW7 N	APX 1000 UHFR1 MODEL 3 PORTABLE	837	3

PORTABLES	FSC	H84QDH9PW7 N	APX 1000 UHFR1 MODEL 3 PORTABLE	837	3
PORTABLES	FSC	H84SDD9PW5 N	APX 1000 UHF R2 MODEL 1.5 PORTABLE	837	4
PORTABLES	FSC	H84SDD9PW5 N	APX 1000 UHF R2 MODEL 1.5 PORTABLE	837	4
PORTABLES	FSC	H84SDF9PW6 N	APX 1000 UHF R2 MODEL 2 PORTABLE	837	2
PORTABLES	FSC	H84SDF9PW6 N	APX 1000 UHF R2 MODEL 2 PORTABLE	837	2
PORTABLES	FSC	H84SDH9PW7 N	APX 1000 UHF R2 MODEL 3 PORTABLE	837	28
PORTABLES	FSC	H84SDH9PW7 N	APX 1000 UHF R2 MODEL 3 PORTABLE	837	28
PORTABLES	FSC	H84UCD9PW5 N	APX 1000 7/800 MHZ MODEL 1.5 PORTABLE	837	2
PORTABLES	FSC	H84UCD9PW5 N	APX 1000 7/800 MHZ MODEL 1.5 PORTABLE	837	2
PORTABLES	FSC	H84UCF9PW6 N	APX 1000 7/800 MHZ MODEL 2 PORTABLE	837	4
PORTABLES	FSC	H84UCF9PW6 N	APX 1000 7/800 MHZ MODEL 2 PORTABLE	837	4
PORTABLES	PGF	H84UCH9PW7 N	APX 1000 7/800 MHZ MODEL 3 PORTABLE	837	34
PORTABLES	PGF	H84UCH9PW7 N	APX 1000 7/800 MHZ MODEL 3 PORTABLE	837	34
PORTABLES	FSC	H84WCF9PW6 N	APX 1000 900MHZ MODEL 2	837	2
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	



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[ORDERING INFORMATION](#)

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Model



ASTRO® Digital APX 1000™ Portable Series

P25 Phase 2 Single Band Capable Radio

UHF Band

Updates

- Please Note: Effective January 16th, all quotes should include at minimum the 3 year Service from the Start Lite option.
- Effective May 02, 2016, APX 1000 for user guides, manuals and other product information, please visit motorolasolutions.com and search for this product using the name or manual number. To add a manual, please order H88.
- Effective February 22nd, 2016, the APX 1000 will ship standard with GPS Activation (QA00782). GPS requires Q947 (already included standard) and Q806 in order to operate.
- Effective February 22nd, 2016, APX 1000 Radio Sales Model Price will increase by \$150

Ordering Information

Features

All ASTRO Digital APX 1000 models include the following features:

- Dual Microphone
- 0.5 Watt Rated Audio
- 3 Programmable Side Buttons
- Continuous rotary multi-function knob
- 2" Belt Clip
- Orange Programmable Button
- Low Battery Alert Tone
- Noise Cancellation Software
- IP54 Environmental Specifications

- Standard Li-Ion 1900 mAh Battery (NNTN8128)
- Antenna (Dependent on Frequency Band and Type)
- Intelligent Lighting

ASTRO Digital APX 1000 No-Keypad, Limited Keypad and Full Keypad with Single Display Model also includes:

- Radio Profiles
- Unified Call List
- Front Color Display: 2 lines of text, 2 lines of icon
- No Keypad - Backlight keypad 3 soft keys
- Limited Keypad - Backlight keypad 3 soft keys, 4 direction navigation key, 3x4 keypad, Home and Data Buttons
- Full Keypad - Backlight keypad 3 soft keys, 4 direction navigation key, 3x4 keypad, Home and Data Buttons and Full DTMA keypad

* Must purchase Software to ENABLE.

* All APX1000 Portable Radios ship standard with SW ADP Privacy

* All ASTRO Digital APX 1000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

New RFID enabled volume knobs (QA04526) available for portable radios. See RFID Enabled Volume Knob section below for more information. See RFID Solution Partner link below for information on partners that can provide customers with scanner hardware and back end asset management solutions.

****NOTE: APX Portable and Mobile Radios ship standard with the Software Key (QA01749). The Hardware Key (QA01648) is available as an alternative option to purchase. The System ID is required to be entered as supplemental data when ordering the Hardware Key (QA01648). It is CRITICAL that the CORRECT SYSTEM ID is entered when placing the order as this will impact the radios' ability to operate on the intended system. If an incorrect System ID is entered, a FLASHport upgrade will be required in order to fix this error. The Master Key Start-Up Kit (DVN4046) is required to use the Hardware Key (QA01648) or to operate on a third-party trunking system if the customer does not already possess one, or if theirs has expired. Please [CLICK HERE](#) for further details regarding the DVN4046 Kit.

[Advanced System Key](#)

General Information

The ASTRO Digital APX 1000 Portable Line offers **three** different radio hardware models:

Hardware Model	Modes	Alphanumeric Display Lines/Characters	Keypad
ASTRO APX 1000 No Keypad (3 soft keys only)	512	14 (front)	3 Soft Keys

ASTRO APX 1000 Limited Keypad	512	14 (front)	3 Soft Keys 4 Navigation keys Home and Data Buttons
ASTRO APX 1000 Full Keypad	512	14 (front)	3 Soft Keys 4 Navigation keys Home and Data Buttons Full DTMF Keypad

Operating Modes

ASTRO Digital APX 1000 Radio Models are capable of operating in four different voice communication modes:

- Normal Analog (clear voice)
- 9.6 KB ASTRO 25 Digital (Both clear & coded voice)
- 9.6KB 12.5kHz 2 slot digital TDMA (Both clear & coded voice).

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of APCO 25 Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) will be part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

Flashport AFTERMARKET UPGRADES

The ASTRO Digital APX 1000 Portable Series Radios are part of the Flashport Program. This means that ASTRO Digital APX 1000 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The ASTRO Digital APX 1000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

[Launching in early 2015, there will be a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, a new online method will be supported in Radio Management \(RM\).](#) For more information, please refer to the APX 1000 FLASHport page.

RADIO MANAGEMENT

Radio Management (RM) is a suite of software applications shipping with the APX Customer Programming Software (CPS) that provides the ability to manage your entire fleet of ASTRO APX radios through one central database.

Radio Management (RM) can help reduce fleet programming time and improve overall radio asset management. Radio Management allows:

- Manage and track radio codeplugs through a central database
- Make changes to a shared codeplug template and push to multiple radios
- Manage and update radios without taking them out of service

- Schedule programming updates to radios ahead of time

NOTE: Radio Management is available only with Customer Programming Software Release 7.12, version R08.02.00 and later and can only be used with ASTRO® Digital APX radios.

For more details regarding Radio Management and the Ordering Process, please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

Ordering procedure is as follows:

<u>Steps</u>	<u>Required Options</u>	<u>Comments</u>
		APX Digital Portable Radio-
		a. H84QDD9PW5AN
		b. H84QDF9PW6AN
		c. H84QDH9PW7AN
1	APX 1000 UHFR1MHz Main Model	a. H84SDD9PW5AN
		b. H84SDF9PW6AN
		c. H84SDH9PW7AN
2	Operation Mode	a. QA04096- ENH: P25 Trunking
		b. QA04097- ENH: P25 Conventional
		a. G996- ADD: Programming Over P25 (OTAP)
		b. QA00580- ADD: TDMA Operation
4	System Enhancement Software (Optional)	c. QA09000- ADD: Digital Tone Signalling
		d. H869- ADD: Multikey
		e. QA03399- ADD: Enhanced Data

1. Order the APX 1000 Portable Series as the main line item.

- Each hardware model MUST be ordered with one operation mode.
- Default battery is Li-Ion 1900mAh
- Default 2" belt clip
- Default Antenna is the single appropriate antenna for your RF configuration.
- *Note - APX Radio ships with 12 month standard warranty.*

Common Software Features Supported By

H38 "P25 Trunking"		
	ASTRO P25 Digital	TDMA

	Project 25 (9600 Baud)	TDMA OPERATION
RADIO WIDE FEATURES		
<i>Maximum Modes</i>		
ASTRO Digital APX 1000 Limited Keypad	512	512
ASTRO Digital APX 1000 Full Keypad	512	512
Analog and Digital Operation	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes
Secure Capable	Yes (Digital Only)	Yes (Digital Only)
Real Time Clock	Yes	Yes
Surveillance Mode	Yes	Yes
Keypad Lock	Yes	Yes
Radio Lock	Yes	Yes
Smart Battery	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes
Time Out Timer	Yes	Yes
FLASHport	Yes	Yes
ANALOG CONVENTIONAL FEATURES		
Conventional Features are additional radio wide features beyond those specified above.		
CSQ/PL/DPL	Yes	Yes
Dual Priority Channel Scan	Yes	Yes
Adaptive Power Control	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes
Smart PTT	Yes	Yes
Monitor	Yes	Yes
DTMF Tone Generation	Yes	Yes
DTMF Signaling	Future	Future
Quick-Call Signaling	Future	Future
DIGITAL CONVENTIONAL SIGNALING FEATURES		
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).		
Unaddressed Voice Call (Dispatch Call)	Yes	Yes
Talk Group Call	Yes	Yes
Group Call Alert™	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes
Selective Call Decode (Individual Voice Call)	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes
Call Alert Encode/Decode	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes
Telephone Interconnect	Yes	Yes

Selective Radio Inhibit	Yes	Yes
Radio Check	Yes	Yes
Status/Message	Yes	Yes
Trunking Type II Only Features		
Maximum Number of Trunked Systems-20	Yes	Yes
Talkgroup Calls	Yes	Yes
PTT ID	Yes	Yes
Call Alert Encode/Decode	Yes	Yes
Analog/Digital Dual Mode Scan	Yes	Yes
Failsoft by Talkgroup	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes
Selective Radio Inhibit	Yes	Yes
Priority Monitor Scan	Yes	Yes
Dynamic Regrouping	Yes	Yes
Status/Message	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes
Reprogram Request	Yes	Yes

SmartZone		
	ASTRO Digital	TDMA
	Project 25 (9600 Baud)	Project 25 (TDMA Operation)
Trunking Type II Only Features		
Voice on Control	-	-
SmartZone Automatic Site Registration	Yes	Yes
SmartZone RSSI Operation	Yes	Yes
SmartZone Preferred Site	Yes	Yes
SmartZone Forced Site Search	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the APX 1000 portable series. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital APX 1000 portables to Zone Operation radios.

For the Non-keypad, Limited keypad and Full Keypad radios there is a maximum of 50 zones, with 512 channels per zone.

PROJECT 25 ENCRYPTION

The APX1000 does **not** support any Hardware Encryption (*such as AES, DES...*)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option*

ASTRO Advanced Messaging Solution (ASM)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

Ordering ASTRO Text Messaging for APX 1000 Portable Requires:

1. APX 1000 Radio
2. P25 Digital Conventional (QA04097)

OR

1. APX 1000 Radio
2. 9600 Digital Trunking (QA04096)

NOTE: *There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Please order Digital Operation to receive Text Messaging ability as Packet Data is a standard feature on APX Portable and Mobile Radios. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -*

Advanced Messaging Solution

UHF1	Frequency (MHz)
1	384.0000
2	385.0200
3	393.2125
4	407.8625
5	417.7875

6	431.9875
7	442.3625

*within +/-25kHz of the specified frequency

CPS INFORMATION

****Please note that a NEW version of CPS (RVN5224) is required for initial customer orders for this product. This new version of CPS is required for the APX radio shipments. ****

How to order RVN5224 through COF:

1. Sign and return the Software License Agreement
2. Order the software part number
3. New releases on disk will be automatically sent for a three-year period.

A downloadable version of the CPS will be available for the Q1 SER 2015 Release

Order HKVN4289A in MOL

- Provide Email Address
- Sign and return the Software License Agreement
- License is valid for 3 years
- Reminder to renew license will be sent to the provided Email Address

FCC Information

Frequency Range (MHz)	Emission Designator Rule Part 90
380 - 406	11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E
406.1 - 454, 456 - 470	11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W

[Advanced System Key](#)

[APX Series Sales Presentation](#)

[APX Family Brochure](#)

[RSA](#)

[RSA Comprehensive](#)

[Portable Accessory Catalog](#)

[RFID Solution Partner Information](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 1000 UHF R1 MODEL 1.5 PORTABLE	-	H84QDD9PW5 N	837	\$1,391.00
APX 1000 UHFR1 MODEL 2 PORTABLE	-	H84QDF9PW6 N	837	\$1,597.00
APX 1000 UHFR1 MODEL 3 PORTABLE	-	H84QDH9PW7 N	837	\$1,803.00
APX 1000 UHF R2 MODEL 1.5 PORTABLE	-	H84SDD9PW5 N	837	\$1,391.00
APX 1000 UHF R2 MODEL 2 PORTABLE	-	H84SDF9PW6 N	837	\$1,597.00
APX 1000 UHF R2 MODEL 3 PORTABLE	-	H84SDH9PW7 N	837	\$1,803.00

2: Operation Mode *(Must Select One)*

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,070.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$350.00

3: System Enhancement Software *(Must Select One)*

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

4: System Enhancement Options *(Not Required)*

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have	G996	426	\$100.00

	IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)			
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580	426	\$450.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: MULTIKEY	-	H869	837	\$75.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$100.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00

5: Algorithm

Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00

6: Antenna

Description	Full Description	Nomenclature	APC	Price

DEL: DELETE STANDARD ANTENNA	Deletes the standard antenna. 7/800-NAF5085, VHF-NAR6593, UHFR1/R2-PMAE4065.	H112	426	(\$10.00)
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	-	QA02017	426	\$55.00

7: Battery

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	Kit(PMNN4424) Non-FM & Non-UL	QA02749	426	\$85.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This Battery Option does NOT provide UL or FM Compliance	QA04146	837	\$100.00
DEL: DELETE BATTERY	-	H207	426	(\$47.00)

8: Belt Clip (s)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	426	\$12.00
DEL: DELETE STANDARD BELT CLIP	-	H301	426	(\$10.00)

9: Data Cable (s)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

10: Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery	H885BK	185	\$90.00

	service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.			
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$162.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$234.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$134.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$185.00

11: Manual

Description	Full Description	Nomenclature	APC	Price

ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX1000 CD- ROM	-	H88	837	\$25.00

12: Test Results

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

13: RFID Enabled Volume Knob

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX4000/APX2000/APX1000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios as follows:	QA04526	426	\$25.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	PGF	H84QDD9PW5 N	APX 1000 UHF R1 MODEL 1.5 PORTABLE	837	8
PORTABLES	PGF	H84QDD9PW5 N	APX 1000 UHF R1 MODEL 1.5 PORTABLE	837	8
PORTABLES	FSC	H84QDF9PW6 N	APX 1000 UHFR1 MODEL 2 PORTABLE	837	1
PORTABLES	FSC	H84QDF9PW6 N	APX 1000 UHFR1 MODEL 2 PORTABLE	837	1
PORTABLES	FSC	H84QDH9PW7 N	APX 1000 UHFR1 MODEL 3 PORTABLE	837	3

PORTABLES	FSC	H84QDH9PW7 N	APX 1000 UHFR1 MODEL 3 PORTABLE	837	3
PORTABLES	FSC	H84SDD9PW5 N	APX 1000 UHF R2 MODEL 1.5 PORTABLE	837	4
PORTABLES	FSC	H84SDD9PW5 N	APX 1000 UHF R2 MODEL 1.5 PORTABLE	837	4
PORTABLES	FSC	H84SDF9PW6 N	APX 1000 UHF R2 MODEL 2 PORTABLE	837	2
PORTABLES	FSC	H84SDF9PW6 N	APX 1000 UHF R2 MODEL 2 PORTABLE	837	2
PORTABLES	FSC	H84SDH9PW7 N	APX 1000 UHF R2 MODEL 3 PORTABLE	837	28
PORTABLES	FSC	H84SDH9PW7 N	APX 1000 UHF R2 MODEL 3 PORTABLE	837	28
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

JUMP TO ...

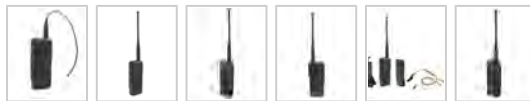
MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model



**ASTRO® Digital APX 3000
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems**

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 3000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) catalog page.

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7997A, T7991A, T7992A, T7993A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. IMPORTANT: If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable. [CLICK HERE](#) for available cables.

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 3000 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 3000 radios.

Software Prices BELOW DO NOT include field programming.

	T7997A	T7991A	T7992A	T7993A
	9600 AND 3600 SINGLE SYSTEM DIGITAL TRUNKING	DIGITAL CONVENTIONAL	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	TDMA®
OPERATION MODES (List as sub items)				

ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	N/A	N/A	N/A	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Upgrade Conventional to SMARTZONE® Q327BH	x	X	N/A	N/A
ENH: TDMA Operation QA00580 (Requires Digital, Smartzone, P25)	X	X	X	N/A
ENH: Conventional Vote Scan Q387	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)				
ENH: Radio Packet Data Q947	x	X	X	X
ENH: Programming Over P25 (OTAP) G996	x	X	X	X
ENH: SMARTZONE® Omnalink (Non-P25) Q173	X	N/A	X	X
ENH: P25 9600 Baud Trunking Q361	N/A	X	X	N/A
ENH: Enable Internal GPS Operation QA00782	Requires Digital	X	X	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)				

ADD: Multikey Operation H869	X	X	X	X

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL	-	T7991	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7992	430	\$0.00
TDMA	-	T7993	430	\$0.00
9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T7997	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,173.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$86.25
	Requires Q808/Q806 (Digital),			

ENH: TDMA OPERATION	Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$518.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00
ADD: APX GEOFENCE PORT FPL	Requires QA00782(GPS), and QA03399 (ENHANCED DATA).	QA04447AB	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$115.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$86.25
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$288.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00

ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$173.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$115.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$173.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$173.00
	Digital (Q806/G806),			

ADD: ENHANCED DATA	Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
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Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY AND OTAR	-	H868BM	430	\$851.00
ENH: MULTIKEY	-	H869CC	430	\$380.00
ENH: TACTICAL REKEY	Requires IV&D (Q947). includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$403.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$851.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	QA01770AG	430	\$230.00
REMOVAL OF SINGLE SYSTEM TRIGGER (QA02811)	-	QA03217AA	430	\$0.00
ADD: BASIC DEVICE COLLABORATION SOF	-	QA03176AJ	430	\$173.00
ENH: DIGITAL CONVENTIONAL TO 9600 AND 3600 TRUNKING WITH INTEROP	-	QA03015AF	430	\$1,748.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7991	DIGITAL CONVENTIONAL	430	15
PORTABLES	SCB	T7992	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	430	18
PORTABLES	SCB	T7993	TDMA	430	10
PORTABLES	SCB	T7997	9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	430	15
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

APX 3000 & APX 4000 Product Series Radios

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone which has been designed specifically for harsh conditions for the fireground. And the APX Mission Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: many of the below categories contain hyperlinks. External links need to be opened in a New Tab or New Window

Configuration

2-Way Radio Accessories

Adapters

Description	Full Description	Nomenclature	APC	Price
APX FPP HW KEY (DONGLE)	-	NNTN7526	655	\$37.00
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$73.00

Antennas - APX 3000

Description	Full Description	Nomenclature	APC	Price
ANT,HLCL,136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136- 174 MHz	NAR6593A	555	\$38.00
UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380- 520MHz	PMAE4065A	555	\$21.00
DRIBBLE ANTENNA 764- 870MHZ + GPS	Dribble antenna, 700/800 MHz - 764-870 MHz, GPS	PMAF4006A	555	\$100.00
700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$45.00
ANTENNA, FLEXIBLE, 380- 520MHZ + GPS	Flexible antenna UHF - 380- 520 MHz, GPS	PMAE4080A	536	\$100.00
DRIBBLE ANTENNA 136- 174MHZ + GPS	Dribble antenna, VHF - 136- 174 MHz, GPS	PMAD4125	536	\$100.00

Antennas - APX 4000

Description	Full Description	Nomenclature	APC	Price
ANT,HLCL,136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136- 174 MHz	NAR6593A	555	\$38.00
UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380- 520MHz	PMAE4065A	555	\$21.00
UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$60.00

700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$45.00
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00
UHFR2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$60.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00
BATT IMP FM LI ION 2300M2350T	-	NNTN8129AR	453	\$152.00
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$135.00
BATT IMP STD LI ION 1250M 1300T	ONLY compatible with APX 3000 series radios	NNTN8305AR	453	\$115.00
BATT IMPRES LIION TIA4950 IP67 2500T	-	NNTN8560A	453	\$175.00
BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$146.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00

INSERT, UNIVERSAL MUC	Only compatible with XTS Multi Unit Chargers	NNTN8170A	785	\$207.00
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	PMPN4174A is a CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$76.00
INSERT, UNIVERSAL SUC	Only compatible with XTS Single Unit Chargers	NNTN8169A	453	\$45.00
VEHICULAR CHARGER	-	NNTN7616D	785	\$418.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00
CHARGR INTRFCE UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00

Bluetooth Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$700.00
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push- To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00
Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y- adapter and retention hook	NNTN8385A	742	\$100.00
2-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8298A	742	\$50.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00
	Kit includes: Wireless			

COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip: (NNTN8457A)	NNTN8434A	742	\$515.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$350.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,100.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
EARTIPS, REPLACEMENT	Replacement eartips for NNTN8294A, NNTN8295A or NNTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.15

WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.50
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$156.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over- the-Ear earpiece	NTN8821	115	\$46.00
COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	Pack of 10 adapters	NNTN8737A	742	\$401.00
DISCREET EARPIECE KIT	Phonak Phonito Intra Ear Receiver	RLN4921	372	\$275.00
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$73.00

Belt Clips

Description	Full Description	Nomenclature	APC	Price
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BELT CLIP 2"	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$12.00
2.5-INCH BELT CLIP	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$13.00

Carrying Solutions - APX 3000

Description	Full Description	Nomenclature	APC	Price
APX3000 COVERT CARRY HOLSTER	-	PMLN6327A	271	\$30.00

Carrying Solutions - APX 4000

Description	Full Description	Nomenclature	APC	Price
APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	ONLY compatible with the APX 4000 one-knob configuration	PMLN6085A	271	\$60.00
APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$12.00
APX2000/4000 TWO-KNOB, SWIVEL, LEATHER CARRY CASE	ONLY compatible with the APX 4000 two-knob configuration	PMLN7182A	271	\$66.00

CommPort

Description	Full Description	Nomenclature	APC	Price
COMMPORT APX W/ PALM PTT	-	RLN6480A	742	\$419.00
COMMPORT APX w/ SNAP-ON-SIDE PTT	-	RLN6483A	742	\$429.00
COMMPORT APX w/ RING PTT	-	RLN6482A	742	\$429.00
COMMPORT APX W/ RADIO ADAPTER PTT	-	RLN6481A	742	\$419.00

COMMPORT APX W/ BODY PTT	-	RLN6484A	742	\$513.00
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CommPort Replacement Items

Description	Full Description	Nomenclature	APC	Price
CLIP COLLAR	-	4285838B01	115	\$5.50
REPLACEMENT CABLE FOR NTN1625 & NTN1722	-	NKN6508	115	\$34.50
CLIP BELT	-	4202006A01	271	\$20.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	-	NKN6510	115	\$53.00
REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	-	NKN6512	115	\$60.25
REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	-	NKN6525	115	\$75.00
EAR MIC ASSEMBLY	-	NTN8819B	115	\$291.00
COMMPORT REPLACE REMOTE PTT BODY	-	NNTN4188	115	\$180.00
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00

Earpieces

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Description	Full Description	Nomenclature	APC	Price
EARHOLDER MEDIUM BLK	-	0180358B33	742	\$19.00
EARHOLDER SMALL BLK	-	0180358B32	742	\$20.00
EARHOLDER MEDIUM CLR	-	0180358B36	742	\$20.00
EARHOLDER LARGE CLR	-	0180358B37	742	\$20.00
EARHOLDER LARGE BLK	-	0180358B34	271	\$20.00
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$399.00
EARGUARD	-	0180300E25	742	\$68.00
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00
RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN6424BXL	742	\$120.00

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
HEAVY DUTY HEADSET PMLN5275C	-	PMLN5275C	742	\$534.00
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk. FM	PMLN5101A	742	\$251.00

	Certified and UL Approved			
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00

Hearing Protection

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Heavy Duty Headsets by 3M Peltor

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating:	RLN6477A	742	\$269.00

	24 dB			
HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-the-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN5135A	742	\$440.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062,	RMN4055B	742	\$110.00

	PMMN4069 or PMMN4084			
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$284.00

Public Safety Microphones (PSMs) - APX 3000 ONLY

Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$164.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
	IMPRES RSM with Volume Toggle Switch, Orange			

APX IMPRES RSM W/VOL, IP57	Button and 1-Programmable Button, Windporting (IP57). FM Approved and UL Approved	PMMN4065A	372	\$107.00
IMPRES RSM DELTA-T,	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083A	742	\$125.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	IMPRES Windporting RSM with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4101B	372	\$330.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$325.00

<p>IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54</p>	<p>IMPRES RSM with NON-Threaded Audio Jack, Orange Button. FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS</p>	<p>PMMN4062A</p>	<p>372</p>	<p>\$129.00</p>
<p>IMPRES RSM DSPLY W JACK, NO CHNL</p>	<p>IMPRES Display RSM with Audio Jack, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved</p>	<p>HMN4103B</p>	<p>372</p>	<p>\$345.00</p>
<p>ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW</p>	<p>APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply</p>	<p>RLN6554A</p>	<p>372</p>	<p>\$300.00</p>
<p>PLUS RSM NC IP54 THRD 3.5MM JACK RX</p>	<p>IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS</p>	<p>PMMN4084A</p>	<p>742</p>	<p>\$95.00</p>
<p>MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP</p>	<p>APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER</p>	<p>RLN6544A</p>	<p>372</p>	<p>\$250.00</p>
	<p>IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-</p>			

IMPRES RSM DSPLY W JACK, W CHNL	Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4104B	372	\$454.00
IMPRES RSM, 3.5MM AUDIO JACK	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55). FM Approved	PMMN4069A	372	\$133.00

Remote Speaker Microphones (RSMs) Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$7.90
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
BATT STD LIION 1800T	Wireless RSM Battery, 1800mA Lilon	PMNN4461A	453	\$65.00
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber eartips	67009254001	742	\$9.95
CHR STD DUC EXT US/NA/JPN/TAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$65.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00

DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$340.00
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$72.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5080370E97	742	\$29.25
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00

Surveillance Kits (Wired)

Description	Full Description	Nomenclature	APC	Price
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter	ZMN6032	742	\$143.00
3-WIRE SURVEILLANCE KIT WITH	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series			

MICROPHONE & PTT COMBINED, BEIGE	require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6031	742	\$177.00
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6038	476	\$149.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker	BDN6670	742	\$150.00

	<p>Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
BATT STD LIION 1800T	<p>Wireless RSM Battery, 1800mA Lilon</p>	PMNN4461A	453	\$65.00
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6732	742	\$150.00
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6730	742	\$135.00

<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6668</p>	<p>742</p>	<p>\$135.00</p>
	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783</p>			

<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>
<p>IMPRES 2 WIRE W/TRANS TUBE BLK</p>	<p>IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved</p>	<p>PMLN6129A</p>	<p>742</p>	<p>\$122.00</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6664</p>	<p>742</p>	<p>\$41.25</p>
	<p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece,</p>			

<p>RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6727</p>	<p>742</p>	<p>\$43.25</p>
<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>	<p>BDN6729</p>	<p>742</p>	<p>\$114.00</p>
	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved</p>			

EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25
1 WIRE SURVEILLANCE KIT- BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE - BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$108.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5313B	742	\$55.50
IMPRES 3 WIRE W/ TRANS TUBE- BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6124A	742	\$178.00
1 WIRE SURVEILLANCE KIT- BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button,	PMLN6130A	742	\$126.00

Surveillance (Wired) Accessory Replacement Parts

Description	Full Description	Nomenclature	APC	Price
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00

Tactical Kit - Only compatible with APX 4000

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	-	PMLN6766A	742	\$377.00
ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	-	PMLN6767A	742	\$182.00
ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	-	PMLN6827A	742	\$234.00

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Product Type	FC	Nomenclature	Description	APC
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795
PARTS	RNS	0180300E25	EARGUARD	742
PARTS	CDP	0180300E25	EARGUARD	742
PARTS	DCH	0180358B32	EARHOLDER SMALL BLK	742
PARTS	PGF	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	CDP	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B34	EARHOLDER LARGE BLK	271
PARTS	DCH	0180358B36	EARHOLDER MEDIUM CLR	742

PARTS	DCH	0180358B37	EARHOLDER LARGE CLR	742
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372
PARTS	CDP	4285838B01	CLIP COLLAR	115
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
PARTS	CDP	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
PARTS	RNS	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742

PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742

PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742

PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372

FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115
PARTS	CDP	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115
PARTS	PDC	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115

PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115
PORTABLES	CDP	NKN6525	REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	115
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	372
PARTS	CDP	NNTN4188	COMMPORT REPLACE REMOTE PTT BODY	115
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
SYSPERIPH	CDP	NNTN7526	APX FPP HW KEY (DONGLE)	655
ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785
ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785

ACCESSORY	CDP	NNTN7616D	VEHICULAR CHARGER	785
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742

FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742
FIXEDSTN	CDP	NNTN8298A	2-WIRE EARBUD,116CM CORD,BLACK	742
FIXEDSTN	CDP	NNTN8299A	EARTIPS, REPLACEMENT	742
ACCESSORY	CDP	NNTN8305AR	BATT IMP STD LI ION 1250M 1300T	453
ACCESSORY	CDP	NNTN8305AR	BATT IMP STD LI ION 1250M 1300T	453
FIXEDSTN	CDP	NNTN8361A	EARTIPS, BULK REPLACEMENT	742
FIXEDSTN	PDC	NNTN8385A	Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	742
FIXEDSTN	CDP	NNTN8434A	COMPLETELY DISCREET WRLS SURVEILLANCE KIT	742
FIXEDSTN	CDP	NNTN8442A	MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	742
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453

FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453
FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453
FIXEDSTN	PDC	NNTN8737A	COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	742
FIXEDSTN	PDC	NNTN8737A	COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	742
FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742
PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115
PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115
PORTABLES	CDP	PMAD4125	DRIBBLE ANTENNA 136-174MHZ + GPS	536
PORTABLES	CDP	PMAD4125	DRIBBLE ANTENNA 136-174MHZ + GPS	536
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555

PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
FIXEDSTN	CDP	PMAE4080A	ANTENNA, FLEXIBLE, 380-520MHZ + GPS	536
FIXEDSTN	CDP	PMAE4080A	ANTENNA, FLEXIBLE, 380-520MHZ + GPS	536
FIXEDSTN	CDP	PMAF4006A	DRIBBLE ANTENNA 764-870MHZ + GPS	555
FIXEDSTN	CDP	PMAF4006A	DRIBBLE ANTENNA 764-870MHZ + GPS	555
PORTABLES	CDP	PMKN4107A	DISPLAY RSM EXT CABLE	372
PORTABLES	CDP	PMKN4112A	DRSM INTERFACE CABLE NEXUS M-4	372
PORTABLES	CDP	PMKN4113A	DRSM INTERFACE CABLE HIROSE F-	372
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271
			APX 7000 2.5" REPLACEMENT SWIVEL BELT	

FIXEDSTN	CDP	PMLN5407	LOOP	271
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6088A	HEADBAND HEADSET W/ NEXUS JACK	742
FIXEDSTN	CDP	PMLN6095A	IN-LINE PTT ADAPTER, GCAI	742
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742

FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742
FIXEDSTN	CDP	PMLN6246A	WIRELESS POD SWIVEL CLIP	742
FIXEDSTN	CDP	PMLN6327A	APX3000 COVERT CARRY HOLSTER	271
FIXEDSTN	CDP	PMLN6327A	APX3000 COVERT CARRY HOLSTER	271
PARTS	CDP	PMLN6716A	CHR STD TRVL EXT REGION	785
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742

FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742
FIXEDSTN	CDP	PMLN7120A	CHR STD DUC EXT US/NA/JPN/TAIWAN	785
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372

FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
PARTS	CDP	PMNN4461A	BATT STD LIION 1800T	453
FIXEDSTN	CDP	PMPN4027A	PWR SUPPLY, SMPS, MICRO USB-NA	785

FIXEDSTN	PDC	PMPN4174A	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	785
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742

PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372
PARTS	CDP	RLN4921	DISCREET EARPIECE KIT	372
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
ACCESSORY	CDP	RLN4941AXL	REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742
FIXEDSTN	CDP	RLN5314B	RECEIVE ONLY SURV KIT(BEIGE)/NOISE	742
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742

PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
ACCESSORY	CDP	RLN6424BXL	RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742
FIXEDSTN	CDP	RLN6480A	COMMPORT APX W/ PALM PTT	742
FIXEDSTN	CDP	RLN6481A	COMMPORT APX W/ RADIO ADAPTER PTT	742
FIXEDSTN	CDP	RLN6482A	COMMPORT APX w/ RING PTT	742
FIXEDSTN	CDP	RLN6483A	COMMPORT APX w/ SNAP-ON-SIDE PTT	742
FIXEDSTN	CDP	RLN6484A	COMMPORT APX W/ BODY PTT	742

FIXEDSTN	CDP	RLN6489A	COVERT PACK-N-GO KIT	742
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742
FIXEDSTN	CDP	RLN6501A	COVERT PACK-N-GO KIT, ADVANCED	742
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372
PARTS	CDP	RMN4055B	RX ONLY HDBND HDST 3.5MM RT ANGLE P	742
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742

PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742
ACCESSORY	CDP	RMN5135A	AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	742
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785
FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA	476

			LOUD	
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476
PARTS	CDP	ZMN6039	SPKR MIC W XLOAD EARPIECE	742

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 3000™ Portable Radio
P25 Phase 2 Single Band Capable Radio

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

APX Device Service Options and Pricing Change

As of May 5, 2018, Service from the Start has become Essential Services to fit within our expanding services portfolio.

To learn more about these changes please review the [U.S. Change Notification](#) or [Canadian Change Notification](#).

Ordering Information

Standard Features

All ASTRO Digital APX 3000 models include the following features:

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

- On/Off Switch
- 2 Programmable Buttons (1 top & 1 side)
- IP67 Environmental Specifications
- Two (2) Ultra Slim IMPRES Li-Ion 1250 mAh Batteries (NNTN8305)
- Ultra Slim Carry Holster (PMLN6327)
- 3-Wire Surveillance Kit, Beige (PMLN6124)
- Antenna dependent on frequency band (7/800: NAF5085, UHF: PMAE4065, VHF: NAR6593)
- Standard 12 month warranty
- ADP Privacy - ships standard with single key
- Radio Packet Data (Q/W947)
- Software Key (QA01749)
- Conventional Operation (H35)
- ASTRO Digital Operation (Q806)
- Integrated Bluetooth (QA00583)
- Multicast Voting (Q387)
- Programmable Voice Announcements
- Integrated GPS (QA00782)
- Mandown Hardware Capable (Requires software QA01843)

Regulatory Information

Band	FCC ID
7/800 MHz	AZ489FT5860
VHF	AZ489FT3830
UHFR1	AZ489FT4911
UHFR2	AZ489FT4912

Configuration

Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX COVERT 7/800 MHZ MODEL 1 PORTABLE	-	H59UCD9PW4 N	536	\$2,717.00
APX COVERT VHF MHZ MODEL 1 PORTABLE	-	H59KGD9PW4 N	536	\$2,717.00

APX COVERT UHFR1 MHZ MODEL 1 PORTABLE	-	H59QDD9PW4 N	536	\$2,717.00
APX COVERT UHFR2 MHZ MODEL 1 PORTABLE	-	H59SDD9PW4 N	536	\$2,717.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00580AH: TMDA Operation, QA00583AJ: BlueTooth , Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02591	536	\$2,565.00
ENH: ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02592	536	\$2,356.00
ENH: SOFTWARE TRUNKING 9600 BAUD OR 3600 BAUD	Includes H38BZ: SmartZone Operation, QQ02811AF: P25 9600 or 3600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM:	QA02756	536	\$1,856.00

	Trunked Radio Trace/ Remote Monitor. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key			
ENH: ENH: SOFTWARE P25 CONVENTIONAL	Includes H35CA: Conventional Operation, Q806BV: ASTRO Digital CAI Operation, QA00583AJ: BlueTooth, Q387BF: Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02593	536	\$1,165.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
	Compatible with P25 Trunking and Conventional Operation. POP25 requires			

ADD: PROGRAMMING OVER P25 (OTAP)	AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	536	\$100.00
ENH: ONE TOUCH/STATUS MSG	-	H46	536	\$75.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947	536	\$250.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	536	\$100.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770	536	\$200.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$150.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$100.00
ENH: TACTICAL RADIO / STUN/KILL	A keypad is required on the radio to reverse the Stun command in the field. If using a radio with a limited or no keypad, the radio will need to be hooked into a computer with CPS to reverse the Stun/Kill setting. This feature REQUIRES IV&D (Q947) AND Digital Encryption AES (Q629) or DES, DES-XL, DES-OFB (Q625) to operate. Tactical Stun Kill is not compatible with DVRs (QA00631)	H02	536	\$75.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: SITE SELECTABLE				

ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: ENHANCED DATA	Requires Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361)	QA03399	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$150.00
ADD: GROUP SERVICES	-	QA09008	655	\$150.00

Algorithm Selection (Optional)

All APX 3000 Mobile Radios ship P25 “clear” with QA05751 unless an encryption option is ordered.

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	-	H797	536	\$487.00
ADD: TACTICAL REKEY WITH MULTIKEY	Requires IV&D (Q947) AND Digital Encryption AES (Q629) or DES, DES-XL, DES-OFB (Q625) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs (QA00631)	H04	536	\$350.00
ENH: MULTIKEY	-	H869	536	\$330.00
ADD: AES/DES,DES-XL,DES-OFB	-	Q15	536	\$799.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Incompatible with the H04 option since Tactical OTAR is included with the Q498 option. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	536	\$740.00

ENH: DES,DES-XL,DES-OFB ENCRYPTION	-	Q625	536	\$599.00
ENH: AES ENCRYPTION	-	Q629	536	\$475.00

Antenna Selection (Optional)

The APX 3000 ships with a standard antenna dependent on frequency (7/800: NAF5085, UHF: PMAE4065, VHF: NAR6593)

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800 MHz FLEXIBLE ANTENNA	This option deletes the standard antenna (NAF5085) and replaces it with 7/800 MHz flexible dribble antenna (PMAF4006)	QA03192	536	\$40.00
ADD: VHF FLEXIBLE ANTENNA	This option deletes the standard antenna (NAR6593) and replaces it with 136-174 MHz flexible GPS dribble antenna (PMAD4125)	QA03194	536	\$40.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	536	\$55.00
ADD: UHF GPS FLEXIBLE ANTENNA	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-520 MHz GPS antenna (PMAE4080)	QA03193	536	\$40.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AN) deletes the standard antenna (PMAE4065) and replaces it with 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	536	\$55.00

Battery Selection (Optional)

The APX 3000 ships standard with two (2) 1250 mAh IMPREs Li-Ion Batteries (NNTN8305) and one (1) ultra slim carry holster (PMLN6327). You can exchange the two (2) batteries and holster

for one (1) of the batteries below that come standard with the 2" belt clip.

Description	Full Description	Nomenclature	APC	Price
DEL: BATTERY	This option deletes the standard batteries (NNTN8305AR - qty 2)	H207	536	(\$47.00)
ALT: SLIM LI-ION IMPRES 2000MAH (NNTN8128)	This option deletes the standard batteries and holster (NNTN83505AR - qty2) and adds IMPRES Li-Ion 2000 mAh battery (NNTN8128BR)	QA03163	536	\$0.00
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option deletes the standard batteries and holster (NNTN83505AR - qty2) and adds IMPRES Li-Ion 2350 mAh battery (PMNN4424AR)	QA02749	536	\$85.00

Belt Clip Selection (Optional)

The APX 3000 ships standard with two (2) 1250 mAh IMPRES Li-Ion batteries (NNTN8305) and one (1) ultra slim carry holster (PMLN6327). If you choose to exchange the two (2) batteries and one (1) carry holster for one (1) of the batteries above, you can also exchange the 2" belt clip (PMLN4651) for the 2.5" belt clip (PMLN7008) below.

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	536	\$12.00

Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX PROGRAMMING CABLE	Includes programming, test and alignment cable (PMKN4013C) This is a GCAI cable at radio interface and USB connection at other end for computer programming. Please note that the PMKN4012A is NOT compatible with the APX 3000	Q157	536	\$75.00

Wired/Wireless Accessory Bundle Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MCW ACCESSORY BUNDLE PACK 1	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296), one Mission Critical Wireless push-to-talk pod (NNTN2571) and one Mission Critical Wireless Key Fob (PMLN6233)	QA03276	742	\$500.00
ADD: MCW ACCESSORY BUNDLE PACK 2	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and two Mission Critical Wireless push-to-talk pods (NNTN2571) to power the earbud headphones	QA03277	742	\$400.00
ADD: MCW ACCESSORY BUNDLE PACK 3	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and one Mission Critical Wireless push-to-talk pod (NNTN2571) to power the earbud headphones	QA03278	742	\$289.00
ALT: IMPRES 3-WIRE SURVEILLANCE KIT - BLACK	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124) and includes an IMPRES 3-wire surveillance kit in black (PMLN5111A)	QA03178	536	\$0.00
DEL: IMPRES 3_WIRE SURVEILLANCE KIT	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124)	QA04448	591	(\$65.00)

Service Package Selection (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$90.00

ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$234.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$162.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$134.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$185.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,APX3000 UG CDROM	-	H88	536	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Test Results Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	536	\$0.00

Software & Services

FLASHport®

All ASTRO Digital APX 3000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent

upon remaining within the current RF capabilities of the radio).

Global Positioning Satellite (GPS)

The personnel outdoor location tracking GPS feature enables a dispatcher to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around or above the user. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

*GPS Performance may be degraded when the radio is worn against the body and/or against the body within a vehicle

NOTE Limitations of Use:

- GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:
 - Underground locations (tunnels, subways, etc)
 - Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
 - Under metal or concrete roof structures
 - Urban canyons (between tall buildings or under dense tree coverage)

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. In any emergency situation, the location should always be verbally reported to the dispatcher.

Project 25 Encryption

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital APX3000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital APX 3000 radio will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the ASTRO Digital APX 3000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital APX 3000 radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the encryption algorithms:

- The DES-OFB and AES encryption algorithms offered are compliant with digital Project 25 standards and do not support analog encryption operation
- ASTRO digital CAI (Q806) is required to operate the DES-OFB and AES encryption

When used in CAI mode, the non-OFB encryption will not be Project 25 compliant

Encryption algorithms can be ordered later via FLASHport

FIPS 140-2 Compliance

Encryption modules equipped with AES are 140-2 compliant. Details regarding the certification and copies of the relevant certificates can be obtained on the NIST website: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>

Further information regarding FIPS 140-2 compliance can also be found here: <http://csrc.nist.gov/groups/STM/cmvp/index.html>

ASTRO Text Messaging Service

ASTRO text messaging service will NOT be available on APX 3000 portable radios

Self-Quieting Spurs

7/800 MHz Frequencies	UHFR1 Frequencies	UHFR2 Frequencies	VHF Frequencies
767.9500	383.9750	453.6000	143.9950
772.8000	384.0850	466.9400	147.4500
856.8000	393.2125	487.2000	155.9950
859.2000	395.9750	491.5200	167.9850
860.1500	396.0875		172.0300
863.0250	407.9750		
	415.8375		
	419.9750		
	432.0000		
	442.3600		
	440.0000		
	454.7250		

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H59KGD9PW4 N	APX COVERT VHF MHZ MODEL 1 PORTABLE	536	3
PORTABLES	FSC	H59QDD9PW4 N	APX COVERT UHFR1 MHZ MODEL 1 PORTABLE	536	23
PORTABLES	FSC	H59SDD9PW4 N	APX COVERT UHFR2 MHZ MODEL 1 PORTABLE	536	9
PORTABLES	FSC	H59UCD9PW4 N	APX COVERT 7/800 MHZ MODEL 1 PORTABLE	536	2
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

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JUMP TO ...

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Ordering Information

General Information

Model



**ASTRO® Digital APX 4000
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems**

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 4000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHport USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios.

Ordering Requirements

1. **Specify** the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7904A, T7905A, T7906A, T7907A, T7909A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

Software Prices **BELOW DO NOT** include field programming.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7904	430	\$0.00
ANALOG 3600 TRUNKING	-	T7905	430	\$0.00
DIGITAL CONVENTIONAL	-	T7906	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7907	430	\$0.00

TDMA	-	T7909	430	\$0.00
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Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,461.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$656.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$403.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,173.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$920.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75

ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$288.00
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$115.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$86.25
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$115.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$173.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$173.00

ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$173.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$173.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$28.75
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$86.25
ADD: ENHANCED DATA	-	QA03399AB	430	\$173.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770AG	430	\$230.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will	QA00580AE	430	\$518.00

	still REQUIRE a DVN4046 to be purchased.			
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ENH: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52AK	430	\$173.00
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$230.00
ENH: TACTICAL RADIO SOFTWARE	-	H02AH	430	\$86.25

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947). includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$403.00
ENH: MULTIKEY	-	H869CC	430	\$380.00

MISC

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	T7904	ANALOG CONVENTIONAL	430	10
PORTABLES	FSC	T7905	ANALOG 3600 TRUNKING	430	10
PORTABLES	FSC	T7906	DIGITAL CONVENTIONAL	430	10
PORTABLES	FSC	T7907	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	430	10
PORTABLES	FSC	T7909	TDMA	430	10
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 4000™ Portable Series
P25 Phase 2 Single Band Capable Radio

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

**Effective April 29, 2019 you will no longer need to manually select option 'QA04865: Two Knob Configuration' when ordering the APX 4000 model. This option will automatically generate on every model as an internal option.

Ordering Information

Standard Features

All ASTRO Digital APX 4000 models include the following features:

- Two knob configuration (QA04865)
- Dual Microphone
- 0.5 Watt Rated Audio
- 3 Programmable Side Buttons
- Orange Programmable Button
- Integrated GPS Hardware Capable
- Integrated Bluetooth Hardware Capable
- IP67 Environmental Specifications
- 2" Belt Clip (PMLN4651)
- Standard IMPRES Li-Ion 1900 mAh Battery (NNTN8128)
- Antenna Dependent on Frequency Band (7/800 MHz: NAF5085, 900 MHz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)
- NOTE: Charger must be purchased seperately
- 12 month standard warranty
- Low Battery Alert Tone
- Noise Cancellation Software
- Intelligent Lighting
- Unified Call List
- Radio Profiles
- Front Color Display: 2 lines of text, 2 lines of icon
- Limited Keypad: Backlight keypad with 3 soft keys, 4 direction keys, home and data buttons
- Full Keypad: Backlight keypad with 3 soft keys, 4 direction key, 4X3 full DTMF keypad, home and data buttons

The APX 4000 ships standard with Two knob configuration (QA04865), GPS Activation (QA00782), Radio Packet data (W/Q947), Mission Critical Bluetooth (QA00583) and Software Key (QA01749).

Regulatory Information

Band	FCC ID
7/800 MHz	AZ489FT7049
900 MHz	AZ489FT5864
VHF	AZ489FT3828
UHFR1	AZ489FT4905
UHFR2	AZ489FT4910

Configuration

Model (Must Select One)

**Effective April 29, 2019 you will no longer need to manually select option 'QA04865: Two Knob Configuration' when ordering the APX 4000 model. This option will automatically generate on every model as an internal option.

Description	Full	Nomenclature	APC	Price
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	Description			
APX 4000 7/800 MHZ MODEL 2 PORTABLE	-	H51UCF9PW6 N	426	\$1,963.00
APX 4000 7/800 MHZ MODEL 3 PORTABLE	-	H51UCH9PW7 N	426	\$2,392.00
APX 4000 900 MHZ MODEL 2 PORTABLE	-	H51WCF9PW6 N	426	\$1,963.00
APX 4000 900 MHZ MODEL 3 PORTABLE	-	H51WCH9PW7 N	426	\$2,392.00
APX 4000 VHF MHZ MODEL 2 PORTABLE	-	H51KDF9PW6 N	426	\$1,963.00
APX 4000 VHF MHZ MODEL 3 PORTABLE	-	H51KDH9PW7 N	426	\$2,392.00
APX 4000 UHFR1 MHZ MODEL 2 PORTABLE	-	H51QDF9PW6 N	426	\$1,963.00
APX 4000 UHFR1 MHZ MODEL 3 PORTABLE	-	H51QDH9PW7 N	426	\$2,392.00
APX 4000 UHFR2 MODEL 2 PORTABLE	-	H51SDF9PW6 N	426	\$1,963.00
APX 4000 UHF R2 MODEL 3 PORTABLE	-	H51SDH9PW7 N	426	\$2,392.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,100.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$650.00
	This option provides P25 trunking functionality when			

ENH: 3600 OR 9600 TRUNKING BAUD SIN	programmed in 9600 trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,570.00
ENH: ANALOG CONVENTIONAL	-	QA02829	426	\$400.00

System Enhancement Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 trunking and conventional operation. POP25 requires AES encryption for ASTRO conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming user must use Advanced System Key (DVN4046A).	G996	426	\$100.00
ADD: TDMA OPERATION	Requires P25 trunking. A software key (QA01749), hardware key (QA01648) or WACN Key (QA02018) is required. The hardware or WACN key will still require a DVN4046 to be purchased.	QA00580	426	\$450.00
ADD: HW KEY SUPPLEMENTAL DATA	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key (QA01749). The hardware key (QA01648) can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$200.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$75.00
ENH: One Touch/Status Msg	-	H46	426	\$75.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation	QA01767	426	\$100.00
ENHANCEMENT LEVEL 1	-	QA01770	426	\$200.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$150.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$100.00
ADD: APX Personnel Accountability	-	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required	QA03399	656	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$25.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3 only	Q53	426	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3 only	Q52	426	\$150.00

(FEDERAL)				
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	-	H02	481	\$75.00
ADD: GROUP SERVICES	-	QA09008	655	\$150.00

Encryption Algorithm Options (Optional)

All APX 4000 Radios ship P25 “clear” (QA05751 will internally generate) unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: TACTICAL REKEY WITH MULTIKEY	Requires IV&D (Q947). Incompatible with MDC/ASTRO P25 OTAR with Multikey (H869). Tactical OTAR is not compatible with DVRs (QA00631).	H04	426	\$350.00
ENH: MULTIKEY	-	H869	426	\$330.00
ENH: AES ENCRYPTION	P25 CAP Compliant option. Includes ADP.	Q629	426	\$475.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who require a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00

Antenna Selection (Optional)

The APX 4000 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5085, 900 MHz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	This option deletes the standard 7/800 antenna (NAF5085) and adds 1/4 wave 7/800 stubby antenna (NAR6595)	H122	426	\$24.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AJ) deletes the standard UHF antenna (PMAE4065) and adds 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	426	\$55.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AL) deletes the standard UHF antenna (PMAE4065) and adds 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	426	\$55.00
ALT: ANTENNA, WHIP, 700-800MHZ	This option deletes the standard 7/800 antenna (NAF5085) and adds 7/800 antenna (PMAF4040)	QA07978	426	\$32.00
DEL: DELETE STANDARD ANTENNA	This option deletes the standard antenna: 7/800 MHz (NAF5085), 900 MHz (PMAF4008), VHF (NAR6593), UHF (PMAE4065)	H112	426	(\$10.00)

Battery Selection (Optional)

The APX 4000 ships standard with an IMPRES Li-Ion 1900 mAh battery (NNTN8128)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH	This option deletes the standard battery (NNTN8128) and adds	QA02749	426	\$85.00

(PMNN4424)	2350 mAh Li-Ion battery (PMNN4424AR) *Not compatible with H499			
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This option deletes the standard battery (NNTN8128) and adds 2800 mAh Li-Ion battery (PMNN4448AR) *Not compatible with H499	QA02750	426	\$100.00
ALT: IMPRES LI-ION 2500MAH RUGGED UL (NNTN8560)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *Requires rugged option (H499) *UL Certified / Delta T	QA04934	411	\$50.00
ALT: IMPRES LI-ION 2500MAH UL/DELTA T BATTERY (NNTN8560A)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *UL Certified / Non-Delta T	QA00582	411	\$130.00
DEL: DELETE BATTERY	This option deletes the standard battery (NNTN8128)	H207	426	(\$47.00)

Rugged Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	*Non-UL / Delta T requires H499 only *UL Certified / Delta T requires H499 AND QA04934	H499	411	\$250.00

Belt Clip Selection (Optional)

The APX 4000 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT	This option deletes the standard			

CLIP	belt clip (PMLN4651A) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$12.00
DEL: DELETE STANDARD BELT CLIP	This option deletes the standard belt clip (PMLN4651A)	H301	426	(\$10.00)

Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software	Q157	655	\$75.00

Reflective Label (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: REFLECTIVE LABEL	-	QA04776	411	\$10.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$25.00

Service Package Selection (Must Select One)

The APX 4000 ships standard with a 12 month warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$90.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$234.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$162.00

ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$134.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$185.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-PORTABLES	-	QA00205	655	\$0.00
ADD: USER GUIDE APX4000/2000 CD-ROM	-	H88	426	\$25.00

Packaging Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	APX4000 ships standard with bulk packaging. If you require single unit packaging please select this option.	H842	426	\$0.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

Software & Services

FLASHport®

All ASTRO Digital APX 4000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent

upon remaining within the current RF capabilities of the radio).

Project 25 Encryption

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital APX4000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital APX 4000 radio will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the ASTRO Digital APX 4000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital APX 4000 radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The AES encryption algorithms offered are compliant with digital Project 25 standards and do not support analog encryption operation
- ASTRO Digital CAI (Q806) is required to operate the AES encryption
- Encryption algorithms can be added after the fact using the KVL

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification and copies of the relevant certificates can be obtained on the NIST website (<http://csrc.nist.gov/groups/STM/cmvp/validation.html>)

Hazardous Location

APX 4000 portable radios with the 2 knob option (QA04865) when properly equipped with QA00582AJ or QA04934AA are Underwriter's Laboratory (UL/CSA) approved. APX 4000 (two knob) is UL certified to standards TIA4950. CAN/CSA C22.2 NO. 157-92. Div 1, Class I, Groups C, D, Class II groups E, F, G, Class III.

Global Positioning Satellite (GPS)

The personnel outdoor location tracking GPS feature enables a dispatcher to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around or above the user. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

*GPS Performance may be degraded when the radio is worn against the body and/or

against the body within a vehicle

NOTE Limitations of Use:

- GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:
- Underground locations (tunnels, subways, etc)
- Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
- Under metal or concrete roof structures
- Urban canyons (between tall buildings or under dense tree coverage)

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. In any emergency situation, the location should always be verbally reported to the dispatcher.

Self-Quieting Spurs

7/800 MHz Frequencies	900 MHz Frequencies	VHF Frequencies	UHF Frequencies
NIL	940.8000	144.0000	454.6500
		147.4500	455.9750
		156.0000	456.0750
		168.0000	456.1750
		172.0250	456.2000
			466.9375
			468.1750
			480.075
			487.200
			503.800
			504.075
			512.000

			516.088
			519.250

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H51KDF9PW6 N	APX 4000 VHF MHZ MODEL 2 PORTABLE	426	8
PORTABLES	FSC	H51KDH9PW7 N	APX 4000 VHF MHZ MODEL 3 PORTABLE	426	31
PORTABLES	FSC	H51QDF9PW6 N	APX 4000 UHFR1 MHZ MODEL 2 PORTABLE	426	2
PORTABLES	FSC	H51QDH9PW7 N	APX 4000 UHFR1 MHZ MODEL 3 PORTABLE	426	3
PORTABLES	FSC	H51SDF9PW6 N	APX 4000 UHFR2 MODEL 2 PORTABLE	426	4
PORTABLES	FSC	H51SDH9PW7 N	APX 4000 UHF R2 MODEL 3 PORTABLE	426	4
PORTABLES	FSC	H51UCF9PW6 N	APX 4000 7/800 MHZ MODEL 2 PORTABLE	426	3
PORTABLES	FSC	H51UCH9PW7 N	APX 4000 7/800 MHZ MODEL 3 PORTABLE	426	5
PORTABLES	FSC	H51WCF9PW6 N	APX 4000 900 MHZ MODEL 2 PORTABLE	426	1
PORTABLES	FSC	H51WCH9PW7 N	APX 4000 900 MHZ MODEL 3 PORTABLE	426	4

APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

APX 4000XH Radios

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

Configuration

Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA, WHIP,ANTENNA, WHIP,800-900MHZ	-	PMAF4020A	555	\$45.00

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK,LITHIUM ION,BATTERY PACK, IMPRES LIION CSA157 IP67 2050T	-	NNTN8750A	453	\$224.00

Battery Charger

Not CSA Approved

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
INSERT, UNIVERSAL MUC	Only compatible with XTS Multi Unit Chargers	NNTN8170A	785	\$207.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00
INSERT, UNIVERSAL SUC	Only compatible with XTS Single Unit Chargers	NNTN8169A	453	\$45.00

Carrying Solutions

Audio Accessories

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00

Remote Speaker Microphones (RSM)

Ship Card

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Product Type	FC	Nomenclature	Description	APC
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795
PARTS	RNS	0180300E25	EARGUARD	742
PARTS	CDP	0180300E25	EARGUARD	742
PARTS	DCH	0180358B32	EARHOLDER SMALL BLK	742
PARTS	PGF	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	CDP	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B33	EARHOLDER MEDIUM BLK	742
PARTS	DCH	0180358B34	EARHOLDER LARGE BLK	271
PARTS	DCH	0180358B36	EARHOLDER MEDIUM CLR	742
PARTS	DCH	0180358B37	EARHOLDER LARGE CLR	742
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372
PARTS	CDP	4285838B01	CLIP COLLAR	115
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742
PARTS	PGF	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742

PARTS	CDP	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
PARTS	RNS	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372

FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115
PARTS	CDP	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115
PARTS	PDC	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115
PORTABLES	CDP	NKN6525	REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	115

PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	372
PARTS	CDP	NNTN4188	COMMPORT REPLACE REMOTE PTT BODY	115
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785
SYSPERIPH	CDP	NNTN7526	APX FPP HW KEY (DONGLE)	655
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129

FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
ACCESSORY	PDC	NNTN8128BR	BATT IMP STD LI ION 1900M 2000T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8129AR	BATT IMP FM LI ION 2300M2350T	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8169A	INSERT, UNIVERSAL SUC	453
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
FIXEDSTN	CDP	NNTN8170A	INSERT, UNIVERSAL MUC	785
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
PARTS	PDC	NNTN8525A	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	785
FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453
FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453
FIXEDSTN	CDP	NNTN8560A	BATT IMPRES LIION TIA4950 IP67 2500T	453
FIXEDSTN	CDP	NNTN8750A	BATTERY PACK,LITHIUM ION,BATTERY PACK, IMPRES LIION CSA157 IP67 2050T	453
PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115

PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555
FIXEDSTN	CDP	PMAF4020A	ANTENNA, WHIP,ANTENNA, WHIP,800-900MHZ	555
PORTABLES	CDP	PMKN4107A	DISPLAY RSM EXT CABLE	372
PORTABLES	CDP	PMKN4112A	DRSM INTERFACE CABLE NEXUS M-4	372
PORTABLES	CDP	PMKN4113A	DRSM INTERFACE CABLE HIROSE F-	372
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	PGF	PMLN4651A	BELT CLIP 2"	271
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742

ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6085A	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	271
FIXEDSTN	CDP	PMLN6088A	HEADBAND HEADSET W/ NEXUS JACK	742
FIXEDSTN	CDP	PMLN6095A	IN-LINE PTT ADAPTER, GCAI	742
PARTS	CDP	PMLN6716A	CHR STD TRVL EXT REGION	785
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	PDC	PMLN7008A	2.5-INCH BELT CLIP	271
FIXEDSTN	CDP	PMLN7120A	CHR STD DUC EXT US/NA/JPN/TAIWAN	785
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	PGF	PMLN7182A	APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	271
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372

FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	CDP	PMNN4424AR	BATT IMP LI ION 2300M 2350T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
FIXEDSTN	PGF	PMNN4448AR	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	453
PARTS	CDP	PMNN4461A	BATT STD LIION 1800T	453
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
			RECEIVE ONLY EARPIECE W/TRANSLUCENT	

PORTABLES	CDP	RLN4941A	TUBE	742
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742
FIXEDSTN	CDP	RLN6480A	COMMPORT APX W/ PALM PTT	742
FIXEDSTN	CDP	RLN6481A	COMMPORT APX W/ RADIO ADAPTER PTT	742
FIXEDSTN	CDP	RLN6482A	COMMPORT APX w/ RING PTT	742
FIXEDSTN	CDP	RLN6483A	COMMPORT APX w/ SNAP-ON-SIDE PTT	742
FIXEDSTN	CDP	RLN6484A	COMMPORT APX W/ BODY PTT	742
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742

FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742
FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372
PARTS	CDP	RMN4055B	RX ONLY HDBND HDST 3.5MM RT ANGLE P	742
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742
ACCESSORY	CDP	RMN5135A	AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	742

PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742
FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785
FIXEDSTN	CDP	WPLN4212B	ACCESSORY,ACCESSORY,CHARGER,IMPRES MUC - US/NA PLUG	785

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[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



ASTRO® Digital APX 4500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 4500 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

- 1. Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T8009A, T8010A, T8011A, T8012A)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
- 3. Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.

4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1. Maximum qty of software upgrades is 500 per line item.

6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.

7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable. [CLICK HERE](#) for available cables

	T8009A	T8010A	T8011A	T8012A
	<i>ANALOG CONVENTIONAL</i>	<i>ANALOG 3600 TRUNKING</i>	<i>DIGITAL CONVENTIONAL</i>	<i>9600 OR 3600 TRUNKING</i>
OPERATION MODES (List as sub items)				
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	X	N/A	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	N/A	X	N/A
ENH: TDMA Operation QA00580 (Requires Digital, Smartzone, P25)	X	X	X	X
ENH: Conventional Vote Scan Q387	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub				

items)				
ENH: Radio Packet Data Q947	Requires Digital	Requires Digital	X	X
ENH: Programming Over P25 (OTAP) G996	Requires Digital	Requires AES	X	X
ENH: SMARTZONE® Omnilink (Non-P25) Q173	N/A	X	N/A	X
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X	X
ENH: Enable Internal GPS Operation QA00782	Requires Digital	Requires Digital	X	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)				
ADD: Multikey Operation H869	X	X	X	X

- Normal Analog (clear voice)

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 4500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 4500 radios.

Software Prices **BELOW DO NOT** include field programming.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8009	430	\$0.00

ANALOG 3600 TRUNKING	-	T8010	430	\$0.00
DIGITAL CONVENTIONAL	-	T8011	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T8012	430	\$0.00

Radio Management Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,173.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,461.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$920.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$656.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	GA00893AA	430	\$403.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000AB	430	\$173.00

ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering and DVRS PSU. Available with VRX only. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$288.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631. Incompatible with GA00631.	QA00631AC	430	\$115.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$173.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$173.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$115.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$86.25
ENH: MLTCST VOTNG SCAN- SPECTRA	Requires Digital Operation.	G387AE	430	\$230.00

ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires P25 9600 Trunking	GA01767AJ	430	\$115.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital Operation.	G445AB	430	\$173.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AW	430	\$115.00
ENH: RADIO TRACE	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170AL	430	\$86.25
ADD:SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$150.00
ENH: UPGRADE TO TDMA	Requires P25 9600 Trunking	GA00580AC	430	\$518.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$173.00
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$230.00

Advanced System Key

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The software key (QA01749) is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75

Multikey

Algorithm upgrades require a KVL and cannot be ordered through FLASHport

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION	Required when DES Encryptions, or when AES and DVP are ordered together.	W969BL	430	\$380.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
MOBILES	SCB	T8009	ANALOG CONVENTIONAL	430	15
MOBILES	SCB	T8010	ANALOG 3600 TRUNKING	430	15
MOBILES	SCB	T8011	DIGITAL CONVENTIONAL	430	15
MOBILES	SCB	T8012	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	430	15
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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[MODELS](#)[UPDATES](#)[CONFIGURATION](#)[SOFTWARE AND SERVICES](#)[SHIP CARD](#)

Models



**APX™ 6000 P25 Portable
Radio P25 Phase 2 Single
Band Capable Radio**

Updates

Announcements

- **Effective March 5th, 2020:** All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.
- **PMNN4547 IMPRES 2 LIION 3100 MAH** will be available as an option, **QA07577 or QA07578**, on the APX 6000. This battery is slightly larger and will require a new holster, **PMLN7901**. This holster is now the standard carry holster for the Models 2.5 and Models 3.5 and will fit all of the current batteries in the portfolio. The legacy holster, **PMLN5709** is no longer available
- Battery options **QA05574** and **QA06305**, which provided for **NNTN8930**, will no longer be available.
- The new standard 7/800 MHz whip antenna on the APX6000 will be **PMAF4040** instead of **NAF5085**. **PMAF4040** is has a slightly thinner and more flexible form

- factor. PMAF4040A supports GPS operation.
- High Cap Battery NNTN8921 (QA05575 & QA06304) has been replaced by NNTN4753 (QA07576 & QA07739)

Ordering Information

Standard Features

All ASTRO Digital APX 6000 models include the following features:

- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio (Requires QA09006 to enable)
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 Battery (PMNN4485)
- IP68 (2m, 2hr)
- Single-Band Antenna (dependent on model/frequency selected)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$2,705.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,026.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$3,455.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98KGD9PW5BN	481	\$2,705.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98KGF9PW6BN	481	\$3,026.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98KGH9PW7BN	481	\$3,455.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98QDD9PW5BN	481	\$2,705.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98QDF9PW6BN	481	\$3,026.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98QDH9PW7BN	481	\$3,455.00
APX6000 UHFR2 MODEL 1.5 PORTABLE	-	H98SDD9PW5BN	481	\$2,705.00

APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,026.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$3,455.00

Operation Modes (Mandatory)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	481	\$300.00
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$500.00

2D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$500.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	IF AN INTRINSICALLY SAFE SOLUTION IS REQUIRED THEN PLEASE SEE THE 'UL' REPLACEMENT QA06305 &	H499	481	\$150.00

	QA06304.			
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$25.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$25.00

RFID Enabled Volume Knob *(Optional)*

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	<p>Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE).</p> <p>See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.</p>	QA04526	655	\$25.00

System Enhancement Options *(Optional)*

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	481	\$100.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000Li, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or	QA00580	481	\$450.00

	WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.			
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$100.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$200.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$75.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$75.00
ADD: FRONT PANEL	Compatible with Model 3.5 Radios only. Requires FPP HW dongle	Q53	481	\$150.00

PROGRAMMING & CLONING	(NNTN7526A)to be purchased.			
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$200.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE.	QA01833	481	\$25.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now	QA09008	655	\$150.00

	also do Over the Air Firmware Updates with this feature. (requires digital)			
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000Li models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$150.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$75.00

ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011	681	\$100.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if	QA01648AA	0655	\$5.00

	required to operate/program on a trunking system. Not compatible with conventional.			
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Algorithm Types (Optional)

All APX 6000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option	H797	481	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	481	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	481	\$330.00

ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$350.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	For APX6000/Li/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$18.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$24.00
ALT: UHFR1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$24.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$24.00

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
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ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$165.00
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	Requires H499 to be selected. This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07739	673	\$75.00
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07577	481	\$135.00
ALT: BATT IMPRES 2 LIION TIA4950 R IP68 3100T	Requires H499 to be selected. This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07578	481	\$75.00

Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/Li AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/Li & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$100.00
ALT: LI-ION IMPRES 2	This option will delete the standard battery and replace it with	QA05571	655	\$115.00

IP68 4850 MAH	IMPRESS 2 LIION 4850MAH (PMNN4487).			
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$135.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	0481	\$0.00
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$29.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in.. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$12.00

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
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ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
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Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,APX 7K/6K USER CDROM	-	H88	655	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$10.00

Software and Services

Wi-Fi

APX 6000 supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware

refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 6000.

Out of the Box WiFi Provisioning

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#)

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 6000, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF R1 Frequencies	UHF R2 Frequencies
768	136.8	384	456
775.2	144	396.8	480

866.4	153.6	403.2	493.545
	156	410.4	501.6
	160	422.4	511.805
	164.515	438.68	
	168	441.6	
	172.8	443.52	
		444.8	
		448	
		456	
		460.8	
		469.12	

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H301CN	DEL: DELETE BELT CLIP/ BASIC CARRY	0481	
PORTABLES	FSC	H98KGD9PW5BN	APX6000 VHF MHZ MODEL 1.5 PORTABLE	481	4
PORTABLES	FSC	H98KGF9PW6BN	APX6000 VHF MHZ MODEL 2.5 PORTABLE	481	7

PORTABLES	FSC	H98KGH9PW7BN	APX6000 VHF MHZ MODEL 3.5 PORTABLE	481	4
PORTABLES	FSC	H98QDD9PW5BN	APX6000 UHF R1 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98QDF9PW6BN	APX6000 UHF R1 MODEL 2.5 PORTABLE	481	12
PORTABLES	FSC	H98QDH9PW7BN	APX6000 UHF R1 MODEL 3.5 PORTABLE	481	23
PORTABLES	FSC	H98SDD9PW5BN	APX6000 UHFR2 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98SDF9PW6BN	APX6000 UHF R2 MODEL 2.5 PORTABLE	481	15
PORTABLES	FSC	H98SDH9PW7BN	APX6000 UHF R2 MODEL 3.5 PORTABLE	481	4
PORTABLES	FSC	H98UCD9PW5BN	APX6000 7/800 MHZ MODEL 1.5 PORTABLE	481	3
PORTABLES	FSC	H98UCF9PW6BN	APX6000 700/800 MODEL 2.5 PORTABLE	481	5
PORTABLES	FSC	H98UCH9PW7BN	APX6000 700/800 MODEL 3.5 PORTABLE	481	3
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

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[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES

APX 6000, 6000XE, 6000Li, 7000, 7000XE & SRX 2200 Product Series Radio

Updates

NOTE: otherwise stated please assume any accessories are compatible with all of the products listed above

IMPRES BATTERY INTENT TO CANCEL:

Effective August 2016, the following models of IMPRES batteries have been cancelled:

- Batteries: PMNN4403B, NNTN7038B, NNTN7034B
- The IMPRES batteries and chargers will transition to IMPRES 2

Click [here](#) to view cancelled XE RSM models

Click [here](#) to view the Intent to Cancel Notification

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone which has been designed specifically for harsh conditions for the fireground. And the APX Mission Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class

technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: many of the below categories contain hyperlinks. External links need to be opened in a New Tab or New Window

Configuration

2-Way Radio Accessories

Adapters

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$73.00
APX FPP HW KEY (DONGLE)	-	NNTN7526	655	\$37.00

Antennas

Description	Full Description	Nomenclature	APC	Price
APX PSM 700/800MHZ ANTENNA	This antennas is tested and certified to work with the PSM on the APX 6000/XE/Li and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in.. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band): UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not	PMAF4002	372	\$12.00

	route to the radio's antenna			
UHF2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$60.00
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00
UHF (380-520) /7-800 GPS	-	PMAS4001A	555	\$31.00
APX 7000 GPS STUBBY ANTENNA	This antenna is needed when a user has a Public Safety Microphone attached to the radio and still requires GPS capability. Attaches to the APX radio directly and is only used when the radio is operating in a single band configuration of UHF or 700/800 MHz.	NAG4000	555	\$18.00
UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380-520MHz	PMAE4065A	555	\$21.00
700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$45.00
UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$60.00
ANT,HLCL,136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136-174 MHz	NAR6593A	555	\$38.00
VHF (136-174), UHF (380-520), GPS ANTENNA	-	PMAT4001A	555	\$44.00
ANT VHF 7/800/GPS	Dual Band Antenna for VHF frequency range & 7/800 frequency range. Includes GPS. 200mm in length.	NAR6594A	555	\$75.00

Batteries

Description	Full Description	Nomenclature	APC	Price
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IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
BATT IMP FM R LI ION 2300M 2350T BLK	***This Impress 2300MAH Lithium Ion battery is both FM certified and Ruggedized PLUS (submersible). The battery is offered in a small form factor. It is the standard battery offered with the XE(eXtrEme) radio products.*** Dimensions (HxWxD): 3.07 in. x 2.34 in. x 1.65 in.	NNTN8092	453	\$163.00
BATT IMPRES 2 LIION R IP68 4850T	-	PMNN4487	453	\$189.00
BATT IMPRES 2 LIION R IP68 2550T	-	PMNN4485	453	\$146.00
BATT IMPRES 2 LIION R IP68 3400T	-	PMNN4486	453	\$163.00
BATT IMPRES 2 LIION R IP68 5100T	-	PMNN4494	453	\$198.00
BATT IMP FM RUGGEDIZED LIION 4100M 4300T BLK	Dimensions (HxWxD) 5.12 in. x 2.34 in. x 1.65 in.	NNTN7033A	453	\$204.00
BATTERY PACK,LITHIUM ION,APX TIA4950 STD BATTERY	UL Intrinsically Safe battery, Li-Ion 2350 mAh	NNTN8930	453	\$178.00
BATT IMPRES 2 LIION TIA4950 R IP68 4500T	UL Intrinsically Safe High Capacity Battery, Li-Ion 4500 mAh	NNTN8921	453	\$204.00
	Motorola now makes batteries to an even more stringent military standard for customers who require a			

BATT IMP FM R NIMH 2000M 2200T BLK	higher level of submersibility protection - MIL-STD-810E, Method 512.3 Immersion, which are referred to as Ruggedized PLUS. Dimensions (HxWxD) 5.07 in. x 2.34 in. x 1.57 in.	NNTN7035	453	\$171.00
CLAMSHELL BATTERY	-	PMNN4439A	453	\$104.00

Batteries - SRX 2200

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY,BATTERY,BATT R LI ION 2900M 3100T MILITARY BRN	-	NNTN8182B	453	\$150.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
CHR IMP DISP DUC EXT US/NA/CA/LA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	-	NNTN8844A	785	\$1,375.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$165.00
APX CHARGER INSERT ADAPTER FOR XTS SINGLE-UNIT	Only 1 SUC insert will ship. Only work in Single Unit Chargers. Requires charger	NNTN7687A	785	\$45.00

CHARGER	containing Software Version 3.4 or greater.			
APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	Six inserts will ship in one package. Only work in Multi Unit Chargers. Requires charger containing Software Version 3.4 or greater.	NNTN7686A	785	\$207.00
CHR IMPR VEH ADAPT INT	-	NNTN8527A	785	\$1,540.00

Battery Chargers - SRX 2200

Description	Full Description	Nomenclature	APC	Price
CHR STD MUC EXT US/NA/CA/LA	-	NNTN8185A	785	\$1,200.00
CHR IMPR VEH ADAPT INT	-	NNTN8527A	785	\$1,540.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
CHARGR INTRFCE UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00

FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
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Bluetooth Mission Critical Wireless

Note: requires QA00583 to be ordered in the APX radio in order to enable Bluetooth software

Description	Full Description	Nomenclature	APC	Price
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$700.00
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip: (NNTN8457A)	NNTN8434A	742	\$515.00

2-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8298A	742	\$50.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,100.00
Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y-adapter and retention hook	NNTN8385A	742	\$100.00
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$350.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	Pack of 10 adapters	NNTN8737A	742	\$401.00
DISCREET EARPIECE KIT	Phonak Phonito Intra Ear Receiver	RLN4921	372	\$275.00
NECKLOOP FOR DISCREET	-	RLN4920A	372	\$73.00

EARPIECE KIT				
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
EARTIPS, REPLACEMENT	Replacement eartips for NNTN8294A, NNTN8295A or NNTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.15
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.50
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$156.00

Belt Clips / Belt Loops / Radio Straps

Description	Full Description	Nomenclature	APC	Price
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
2.5" PLASTIC BELT CLIP ATTACHMENT	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$12.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$12.00
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$12.00
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$12.00
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Carrying Solutions - APX 6000

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$55.00

APX6000 CC 3 FIX BL 4200MAH	-	PMLN5660B	271	\$69.00
APX6000 CC 2.75 SWL BL 4200MAH	-	PMLN5659B	271	\$74.00
CARRY POUCH, SRX	-	NNTN8269A	372	\$55.00

Carrying Solutions - APX 6000XE

Description	Full Description	Nomenclature	APC	Price
APX6000XE 2.75SWBL2900,2300&2150MAH	-	PMLN5875	271	\$65.00
APX6000XE CC 3 FIX BL 4200MAH	-	PMLN5879A	271	\$62.00
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$55.00
APX6000XE CC 2.75 SWL BL 4200MAH	-	PMLN5877A	271	\$65.00
APX6000XE 3 FIXBL 2900,2300&2150MAH	-	PMLN5876A	271	\$62.00

Carrying Solutions - APX 7000

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$55.00
LEATHER CASE 2.75 SWL BL 4200MAH	-	PMLN5327C	795	\$67.00
LEATHER CASE 2.75 SWL BL 2100MAH ?	-	PMLN5330C	271	\$67.00
APX 7000 CARRY HOLDER	-	PMLN5331	271	\$29.00
APX7000 N. CARRY CASE WITH 3" FIX BELT LOOP-NNTN7035/6/7/7573 BAT	-	PMLN5328	795	\$49.00
	This carry case is a special design			

CARRY ACCESSORY-CASE,APX7000 FIRE	requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY000222A01	271	\$56.00
APX 7000 L. CARRY CASE W/3" FIX BELT LOOP-NNTN7035/6/7/NNTN7573 BAT	-	PMLN5329	795	\$69.00
NYLON CASE 3 FIX BL 4200MAH	-	PMLN5325C	271	\$50.00
LEATHER CASE 3 FIX BL 4200MAH	-	PMLN5326C	271	\$69.00
LEATHER CASE 3 FIX BL 2500MAH ?	-	PMLN5323C	271	\$67.00
CARRY ACCESSORY-CASE,APX CLAMSHELL CARRY CASE	-	PMLN6712A	271	\$60.00
APX FLIP CARRY CASE	-	PMLN5560B	271	\$75.00
LEATHER CASE 2.75 SWL BL 2500MAH	-	PMLN5324C	271	\$65.00

Carrying Solutions - SRX 2200

Description	Full Description	Nomenclature	APC	Price
CARRY POUCH, SRX	-	NNTN8269A	372	\$55.00

CommPort

Description	Full Description	Nomenclature	APC	Price
CARRY POUCH, SRX	-	NNTN8269A	372	\$55.00
COMMPORT APX W/ BODY PTT	-	RLN6484A	742	\$513.00
COMMPORT APX W/ RADIO ADAPTER PTT	-	RLN6481A	742	\$419.00

COMMPORT APX W/ PALM PTT	-	RLN6480A	742	\$419.00
COMMPORT APX w/ SNAP-ON-SIDE PTT	-	RLN6483A	742	\$429.00
COMMPORT APX w/ RING PTT	-	RLN6482A	742	\$429.00

Carrying Solutions - APX 7000XE

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$55.00
APX7000XE CC 3 FIX BL 4200 MAH	-	NNTN8114A	271	\$62.00
APX7000XE CC 3 FIX BL 4200MAH	-	NNTN8116A	271	\$62.00
APX7000XE CC 2.75 SWLBL2900/2150MAH	-	NNTN8111B	271	\$65.00
APX7000XE CC 2.75 SWL BL 4100MAH	-	NNTN8113A	271	\$65.00
APX7000XE CC 3 FIX BL 2900/2150MAH	-	NNTN8112A	271	\$62.00
CARRY ACCESSORY-CASE,APX7000 FIRE	This carry case is a special design requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY000222A01	271	\$56.00
APX7000XE UNIVERSAL CARRY HOLDER	This is the standard carry case for the Model 3.5 (Dual Display/Keypad) version of the APX7000XE radio.	PMLN6102A	271	\$29.00

Description	Full Description	Nomenclature	APC	Price
CARRY POUCH, SRX	-	NNTN8269A	372	\$55.00
COMMPORT APX W/ BODY PTT	-	RLN6484A	742	\$513.00
COMMPORT APX W/ RADIO ADAPTER PTT	-	RLN6481A	742	\$419.00
COMMPORT APX W/ PALM PTT	-	RLN6480A	742	\$419.00
COMMPORT APX w/ SNAP-ON-SIDE PTT	-	RLN6483A	742	\$429.00
COMMPORT APX w/ RING PTT	-	RLN6482A	742	\$429.00

CommPort Replacement Items

Description	Full Description	Nomenclature	APC	Price
CLIP BELT	-	4202006A01	271	\$20.00
COMMPORT REPLACE REMOTE PTT BODY	-	NNTN4188	115	\$180.00
CLIP COLLAR	-	4285838B01	115	\$5.50
REPLACEMENT CABLE FOR NTN1625 & NTN1722	-	NKN6508	115	\$34.50
REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	-	NKN6512	115	\$60.25
REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	-	NKN6510	115	\$53.00
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
COMMPORT EAR STRAP (PACK	-	NTN8988A	115	\$17.25

OF 10)				
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	-	NKN6525	115	\$75.00
EAR MIC ASSEMBLY	-	NTN8819B	115	\$291.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
EARGUARD	-	0180300E25	742	\$68.00
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$399.00
EARHOLDER LARGE BLK	-	0180358B34	271	\$20.00
EARHOLDER LARGE CLR	-	0180358B37	742	\$20.00
EARHOLDER MEDIUM CLR	-	0180358B36	742	\$20.00
EARHOLDER SMALL BLK	-	0180358B32	742	\$20.00
EARHOLDER MEDIUM BLK	-	0180358B33	742	\$19.00

Headsets

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Description	Full Description	Nomenclature	APC	Price
AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	-	PMLN7467A	742	\$443.00
CORE L/W HEADSET	Lightweight Over- the-Head Headset single muff with in- line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
HEAVY DUTY HEADSET PMLN5275C	-	PMLN5275C	742	\$534.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off- The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to- talk. FM Certified and UL Approved	PMLN5101A	742	\$251.00

Hearing Protection

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Heavy Duty Headsets by 3M Peltor

Description	Full Description	Nomenclature	APC	Price
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00

HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-the-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$284.00
AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN5135A	742	\$440.00

Public Safety Microphones (PSMs) - APX 6000 & 7000

Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$164.00
	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume			

PSM IP55 WITH 3.5MM JACK RX 24IN	Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00

Remote Speaker Microphones (RSMs) - SRX 2200

Remote Speaker Microphones (RSMs) - APX 6000, 6000XE, 6000Li, 7000, and 7000XE

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	IMPRES RSM with NON-Threaded Audio Jack, Orange Button. FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062A	372	\$129.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$300.00
APX IMPRES RSM W/VOL, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57). FM Approved and UL Approved	PMMN4065A	372	\$107.00

AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Black	NNTN8575ABLK	372	\$538.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER	RLN6544A	372	\$250.00
IMPRES RSM, 3.5MM AUDIO JACK	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55). FM Approved	PMMN4069A	372	\$133.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Green	NNTN8575A	372	\$538.00
IMPRES RSM DELTA-T,	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083A	742	\$125.00
	IMPRES RSM with Audio Jack, Volume Control, 2-			

IMPRES RSM NO DSPLY W JACK, NO CHNL	Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4101B	372	\$330.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4104B	372	\$454.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4103B	372	\$345.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	IMPRES Windporting RSM with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
	IMPRES RSM with			

IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	Dual microphone noise cancellation technology, Volume Control, 1- Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$325.00
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Remote Speaker Microphones (RSMs) Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5080370E97	742	\$29.25
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$72.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
BATT STD LIION 1800T	Wireless RSM Battery, 1800mA Lilon	PMNN4461A	453	\$65.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$340.00
CHR STD DUC EXT US/NA/JPN/TAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$65.00

DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$90.00
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$175.00
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber eartips	67009254001	742	\$9.95
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$7.90
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00
RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN6424BXL	742	\$120.00

Surveillance Kits (Wired)

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Description	Full Description	Nomenclature	APC	Price
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6732</p>	<p>742</p>	<p>\$150.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE WITH MICROPHONE &</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000</p>			

PTT SEPARATE - BLACK (3 WIRE)	<p>require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6730	742	\$135.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	<p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	BDN6727	742	\$43.25
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio</p>	BDN6729	742	\$114.00

	<p>adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	BDN6726	742	\$41.25
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455</p>	BDN6664	742	\$41.25

	<p>adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6668</p>	<p>742</p>	<p>\$135.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>

	adapter. FM Approved.			
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$41.25
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6031	742	\$177.00
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter	ZMN6032	742	\$143.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
	3-Wire Receive-Only Surveillance Kit with			

<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6670</p>	<p>742</p>	<p>\$150.00</p>
<p>2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD</p>	<p>3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.</p>	<p>ZMN6038</p>	<p>476</p>	<p>\$149.00</p>
<p>SPKR MIC W XLOAD EARPIECE</p>	<p>3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter</p>	<p>ZMN6039</p>	<p>742</p>	<p>\$190.00</p>
<p>IMPRES 2 WIRE SURVEILLANCE - BLK</p>	<p>IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved</p>	<p>PMLN6127A</p>	<p>742</p>	<p>\$108.00</p>
<p>RECEIVE NLY SURV KIT (BLACK) /NOISE</p>	<p>1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783</p>	<p>RLN5313B</p>	<p>742</p>	<p>\$55.50</p>

	adapter.			
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$126.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6124A	742	\$178.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6123A	742	\$178.00

Surveillance (Wired) Accessory Replacement Parts

Description	Full Description	Nomenclature	APC	Price
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50

MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50

Tactical Kit

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	-	PMLN6827A	742	\$234.00
ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	-	PMLN6767A	742	\$182.00
ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	-	PMLN6766A	742	\$377.00

APX Vehicular Adaptor

The APX Vehicular Adaptor (APX VA) is compatible with APX 6000, APX 6000Li, APX 6000XE and SRX 2200 radios. VHF NOT supported.

For ordering information, compatible accessories and specifications of the APX VA please click [here](#)

Description	Full Description	Nomenclature	APC	Price
CHR IMPR VEH ADAPT INT	-	NNTN8527A	785	\$1,540.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795	4
PARTS	RNS	0180300E25	EARGUARD	742	25
PARTS	CDP	0180300E25	EARGUARD	742	5
PARTS	DCH	0180358B32	EARHOLDER SMALL BLK	742	15
PARTS	PGF	0180358B33	EARHOLDER MEDIUM BLK	742	100
PARTS	CDP	0180358B33	EARHOLDER MEDIUM BLK	742	5
PARTS	DCH	0180358B33	EARHOLDER MEDIUM BLK	742	15
PARTS	DCH	0180358B34	EARHOLDER LARGE BLK	271	15
PARTS	DCH	0180358B36	EARHOLDER MEDIUM CLR	742	15
PARTS	DCH	0180358B37	EARHOLDER LARGE CLR	742	15
FIXEDSTN	CDP	30009402001	RSM REPLACEMENT CABLE	372	5
FIXEDSTN	CDP	30009402002	RSM REPLACEMENT CABLE ASSEMBLY	372	5
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372	3
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	CDP	4285838B01	CLIP COLLAR	115	15
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	2
PARTS	RNS	5080370E97	REPLACEMENT RUBBER	742	0

			EARTIPS, CLEAR		
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	63
PARTS	PGF	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	57
PARTS	CDP	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	2
PARTS	RNS	5080384F72	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	742	0
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742	25
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742	5
FIXEDSTN	CDP	AY000222A01	CARRY ACCESSORY- CASE,APX7000 FIRE	271	1
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5

PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK	742	4

			(SINGLE WIRE)		
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1

PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4
FIXEDSTN	CDP	GMLN5261A	PHONITO NANO EARPIECE - BEIGE	607	4

FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607	4
FIXEDSTN	CDP	GMLN5262A	PHONITO NANO EARPIECE - BROWN	607	4
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555	8
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555	8
FIXEDSTN	CDP	NAF5085A	700/800- GPS ANTENNA	555	8
FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2

FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555	1
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555	1
FIXEDSTN	CDP	NAR6593A	ANT,HLCL,136MHZ MIN,1.577GHZ M	555	1
FIXEDSTN	CDP	NAR6594A	ANT VHF 7/800/GPS	555	5
FIXEDSTN	CDP	NAR6594A	ANT VHF 7/800/GPS	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115	2
PARTS	CDP	NKN6508	REPLACEMENT CABLE FOR NTN1625 & NTN1722	115	2
PARTS	CDP	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115	2
PARTS	PDC	NKN6510	REPLACEMENT PALM PTT CABLE FOR NTN1624 & NTN1723	115	56
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115	3
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115	3
PARTS	CDP	NKN6512	REPLACEMENT RING PTT CABLE FOR NTN1663 & NTN1724	115	3

PORTABLES	CDP	NKN6525	REPLACEMENT SNAP ON SIDE PTT CABLE FOR NTN1736 & NTN1737	115	1
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372	6
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	372	6
PARTS	CDP	NNTN4188	COMMPORT REPLACE REMOTE PTT BODY	115	1
PORTABLES	PDC	NNTN7033A	BATT IMP FM RUGGEDIZED LIION 4100M 4300T BLK	453	25
PORTABLES	PDC	NNTN7033A	BATT IMP FM RUGGEDIZED LIION 4100M 4300T BLK	453	25
FIXEDSTN	CDP	NNTN7035	BATT IMP FM R NIMH 2000M 2200T BLK	453	2
FIXEDSTN	RNS	NNTN7035	BATT IMP FM R NIMH 2000M 2200T BLK	453	25
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3

FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
SYSPERIPH	CDP	NNTN7526	APX FPP HW KEY (DONGLE)	655	3
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7686A	APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	785	6
FIXEDSTN	CDP	NNTN7686A	APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	785	6
FIXEDSTN	CDP	NNTN7686A	APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	785	6
FIXEDSTN	CDP	NNTN7687A	APX CHARGER INSERT ADAPTER FOR XTS SINGLE-UNIT CHARGER	785	3
FIXEDSTN	CDP	NNTN7687A	APX CHARGER INSERT ADAPTER FOR XTS SINGLE-UNIT CHARGER	785	3
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8092	BATT IMP FM R LI ION 2300M	453	5

			2350T BLK		
FIXEDSTN	CDP	NNTN8092	BATT IMP FM R LI ION 2300M 2350T BLK	453	5
FIXEDSTN	CDP	NNTN8111B	APX7000XE CC 2.75 SWLBL2900/2150MAH	271	5
FIXEDSTN	CDP	NNTN8111B	APX7000XE CC 2.75 SWLBL2900/2150MAH	271	5
FIXEDSTN	CDP	NNTN8112A	APX7000XE CC 3 FIX BL 2900/2150MAH	271	3
FIXEDSTN	CDP	NNTN8112A	APX7000XE CC 3 FIX BL 2900/2150MAH	271	3
FIXEDSTN	CDP	NNTN8113A	APX7000XE CC 2.75 SWL BL 4100MAH	271	15
FIXEDSTN	RNS	NNTN8113A	APX7000XE CC 2.75 SWL BL 4100MAH	271	25
FIXEDSTN	CDP	NNTN8114A	APX7000XE CC 3 FIX BL 4200 MAH	271	5
FIXEDSTN	RNS	NNTN8114A	APX7000XE CC 3 FIX BL 4200 MAH	271	25
FIXEDSTN	CDP	NNTN8116A	APX7000XE CC 3 FIX BL 4200MAH	271	25
FIXEDSTN	RNS	NNTN8116A	APX7000XE CC 3 FIX BL 4200MAH	271	25
FIXEDSTN	CDP	NNTN8182B	ASSEMBLY,BATTERY,BATT R LI ION 2900M 3100T MILITARY BRN	453	10
FIXEDSTN	CDP	NNTN8182B	ASSEMBLY,BATTERY,BATT R LI ION 2900M 3100T MILITARY BRN	453	10
FIXEDSTN	CDP	NNTN8182B	ASSEMBLY,BATTERY,BATT R LI ION 2900M 3100T MILITARY BRN	453	10
FIXEDSTN	CDP	NNTN8185A	CHR STD MUC EXT US/NA/CA/LA	785	38
FIXEDSTN	CDP	NNTN8269A	CARRY POUCH, SRX	372	3

FIXEDSTN	CDP	NNTN8269A	CARRY POUCH, SRX	372	3
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8298A	2-WIRE EARBUD,116CM CORD,BLACK	742	5
FIXEDSTN	CDP	NNTN8299A	EARTIPS, REPLACEMENT	742	5
FIXEDSTN	CDP	NNTN8361A	EARTIPS, BULK REPLACEMENT	742	3
FIXEDSTN	PDC	NNTN8385A	Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	742	6
FIXEDSTN	CDP	NNTN8434A	COMPLETELY DISCREET WRLS SURVEILLANCE KIT	742	3
FIXEDSTN	CDP	NNTN8442A	MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	742	4
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK,	372	3

			BULK REPLACEMENT		
FIXEDSTN	CDP	NNTN8527A	CHR IMPR VEH ADAPT INT	785	6
FIXEDSTN	CDP	NNTN8575A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN	372	25
FIXEDSTN	CDP	NNTN8575ABLK	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK	372	6
FIXEDSTN	PDC	NNTN8737A	COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	742	3
FIXEDSTN	PDC	NNTN8737A	COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	742	3
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	785	6
FIXEDSTN	CDP	NNTN8921	BATT IMPRES 2 LIION TIA4950 R IP68 4500T	453	5
FIXEDSTN	CDP	NNTN8921	BATT IMPRES 2 LIION TIA4950 R IP68 4500T	453	5
FIXEDSTN	CDP	NNTN8921	BATT IMPRES 2 LIION TIA4950 R IP68 4500T	453	5
FIXEDSTN	RNS	NNTN8930	BATTERY PACK,LITHIUM ION,APX TIA4950 STD BATTERY	453	5
FIXEDSTN	RNS	NNTN8930	BATTERY PACK,LITHIUM ION,APX TIA4950 STD BATTERY	453	5

FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742	5
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115	2
PARTS	CDP	NTN8819B	EAR MIC ASSEMBLY	115	2
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115	2
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115	10

PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555	3
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555	3
PORTABLES	PDC	PMAE4065A	UHF (380-520) GPS ANTENNA	555	3
FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
PORTABLES	CDP	PMAT4001A	VHF (136-174), UHF (380-520), GPS ANTENNA	555	1
PORTABLES	CDP	PMAT4001A	VHF (136-174), UHF (380-520), GPS ANTENNA	555	1
PORTABLES	CDP	PMKN4107A	DISPLAY RSM EXT CABLE	372	23
PORTABLES	CDP	PMKN4112A	DRSM INTERFACE CABLE NEXUS M-4	372	5
PORTABLES	CDP	PMKN4113A	DRSM INTERFACE CABLE HIROSE F-	372	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
PARTS	CDP	PMLN5101A	IMPRES TEMPLE TRANSDUCER	742	5
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23

ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
FIXEDSTN	CDP	PMLN5323C	LEATHER CASE 3 FIX BL 2500MAH ?	271	3
FIXEDSTN	CDP	PMLN5323C	LEATHER CASE 3 FIX BL 2500MAH ?	271	3
FIXEDSTN	CDP	PMLN5324C	LEATHER CASE 2.75 SWL BL 2500MAH	271	4
FIXEDSTN	CDP	PMLN5324C	LEATHER CASE 2.75 SWL BL 2500MAH	271	4
FIXEDSTN	CDP	PMLN5325C	NYLON CASE 3 FIX BL 4200MAH	271	5
FIXEDSTN	CDP	PMLN5326C	LEATHER CASE 3 FIX BL 4200MAH	271	10
FIXEDSTN	CDP	PMLN5326C	LEATHER CASE 3 FIX BL 4200MAH	271	10
FIXEDSTN	CDP	PMLN5327C	LEATHER CASE 2.75 SWL BL 4200MAH	795	3
FIXEDSTN	CDP	PMLN5327C	LEATHER CASE 2.75 SWL BL 4200MAH	795	3
FIXEDSTN	CDP	PMLN5330C	LEATHER CASE 2.75 SWL BL 2100MAH ?	271	2
FIXEDSTN	CDP	PMLN5330C	LEATHER CASE 2.75 SWL BL 2100MAH ?	271	2
FIXEDSTN	CDP	PMLN5331	APX 7000 CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5331	APX 7000 CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6

FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5560B	APX FLIP CARRY CASE	271	3
FIXEDSTN	CDP	PMLN5560B	APX FLIP CARRY CASE	271	3
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
ACCESSORY	CDP	PMLN5653A	BONE CONDUCTION EAR MIC	742	4
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5875	APX6000XE 2.75SWBL2900,2300&2150MAH	271	6
FIXEDSTN	CDP	PMLN5875	APX6000XE 2.75SWBL2900,2300&2150MAH	271	6

FIXEDSTN	CDP	PMLN5876A	APX6000XE 3 FIXBL 2900,2300&2150MAH	271	5
FIXEDSTN	CDP	PMLN5876A	APX6000XE 3 FIXBL 2900,2300&2150MAH	271	5
FIXEDSTN	CDP	PMLN5877A	APX6000XE CC 2.75 SWL BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5877A	APX6000XE CC 2.75 SWL BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5879A	APX6000XE CC 3 FIX BL 4200MAH	271	1
FIXEDSTN	CDP	PMLN5879A	APX6000XE CC 3 FIX BL 4200MAH	271	1
FIXEDSTN	CDP	PMLN5880A	APX6000XE UNIV C HOLDER	271	3
FIXEDSTN	CDP	PMLN5880A	APX6000XE UNIV C HOLDER	271	3
FIXEDSTN	CDP	PMLN6088A	HEADBAND HEADSET W/ NEXUS JACK	742	3
FIXEDSTN	CDP	PMLN6095A	IN-LINE PTT ADAPTER, GCAI	742	2
FIXEDSTN	CDP	PMLN6102A	APX7000XE UNIVERSAL CARRY HOLDER	271	3
FIXEDSTN	CDP	PMLN6102A	APX7000XE UNIVERSAL CARRY HOLDER	271	3
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE- BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE- BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE- BLK	742	2
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE- BGE	742	4

FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1

FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6246A	WIRELESS POD SWIVEL CLIP	742	2
FIXEDSTN	CDP	PMLN6712A	CARRY ACCESSORY-CASE,APX CLAMSHELL CARRY CASE	271	4
FIXEDSTN	CDP	PMLN6712A	CARRY ACCESSORY-CASE,APX CLAMSHELL CARRY CASE	271	4
PARTS	CDP	PMLN6716A	CHR STD TRVL EXT REGION	785	8
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5

ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
FIXEDSTN	CDP	PMLN7120A	CHR STD DUC EXT US/NA/JPN/TAIWAN	785	3
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM	372	25

			JACK IP54		
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
FIXEDSTN	CDP	PMNN4439A	CLAMSHELL BATTERY	453	2
FIXEDSTN	CDP	PMNN4439A	CLAMSHELL BATTERY	453	2
PARTS	CDP	PMNN4461A	BATT STD LIION 1800T	453	4
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68	453	6

			3400T		
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
FIXEDSTN	CDP	PMPN4027A	PWR SUPPLY, SMPS, MICRO USB- NA	785	1
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72

ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372	5
FIXEDSTN	CDP	RLN4920A	NECKLOOP FOR DISCREET EARPIECE KIT	372	5

PARTS	CDP	RLN4921	DISCREET EARPIECE KIT	372	3
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
ACCESSORY	CDP	RLN4941AXL	REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	3
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742	2
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742	2
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
FIXEDSTN	CDP	RLN5314B	RECEIVE ONLY SURV KIT(BEIGE)/NOISE	742	15
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785	3
FIXEDSTN	CDP	RLN5382C	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	785	3
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6

PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
ACCESSORY	CDP	RLN6424BXL	RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	7
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6480A	COMMPORT APX W/ PALM PTT	742	19
FIXEDSTN	CDP	RLN6481A	COMMPORT APX W/ RADIO ADAPTER PTT	742	5

FIXEDSTN	CDP	RLN6482A	COMMPORT APX w/ RING PTT	742	5
FIXEDSTN	CDP	RLN6483A	COMMPORT APX w/ SNAP-ON-SIDE PTT	742	5
FIXEDSTN	CDP	RLN6484A	COMMPORT APX W/ BODY PTT	742	4
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6489A	COVERT PACK-N-GO KIT	742	5
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742	4
FIXEDSTN	CDP	RLN6501A	COVERT PACK-N-GO KIT, ADVANCED	742	15
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5

FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372	7
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372	8
PARTS	CDP	RMN4055B	RX ONLY HDBND HDST 3.5MM RT ANGLE P	742	20
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742	5
PARTS	CDP	RMN5058A	CORE LW HEADSET	742	7
PARTS	CDP	RMN5058A	CORE LW HEADSET	742	7
PARTS	CDP	RMN5058A	CORE LW HEADSET	742	7
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742	5
ACCESSORY	CDP	RMN5135A	AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	742	4
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
			EAR RCVR W/COIL CBL&3.5MM		

PORTABLES	CDP	WADN4190B	PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742	5
PORTABLES	CDP	ZMN6031	3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	742	5
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6032	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	742	4
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476	1
PARTS	CDP	ZMN6038	2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	476	1
PARTS	CDP	ZMN6039	SPKR MIC W XLOAD EARPIECE	742	15

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Models



APX™ 6000Li P25
Portable Radio P25 Phase
2 Single Band Capable
Radio



Updates

Announcements

Effective March, 2018:

- **PMNN4547 IMPRES 2 LIION 3100 MAH** will be available as an option, **QA07577**, on the APX 6000Li. This battery is slightly larger and will require a new holster, **PMLN7901**. This holster is now the standard carry holster for the Models 2.5 and Models 3.5 and will fit all of the current batteries in the portfolio. The legacy holster, **PMLN5709** is no longer available
- Battery options **QA05574**, which provided for **NNTN8930**, will no longer be available.
- The new standard 7/800 MHz whip antenna on the APX6000Li will be **PMAF4040** instead of **NAF5085**. **PMAF4040** is has a slightly thinner and more flexible form factor.

Ordering Information

Standard Features

All ASTRO Digital APX 6000Li models include the following features:

- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 Battery (PMNN4485)
- Single-Band Antenna (dependent on model/frequency selected)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

APX 6000Li Limitations

- No Infrastructure OTAR Capability
- No Delta T (H499)
- No Color Housing (Yellow/H64 or Green/QA01427)
- No Multiple Encryption Algorithms (not including ADP) such as AES and DES
- No 3600/9600 Interoperability Option
- No Enhanced Level 2 Option Available

No WiFi (QA09001) Option Available

- No Audio Adaptive Engine (QA09006) Option Available

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$2,705.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,026.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$3,455.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98KGD9PW5BN	481	\$2,705.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98KGF9PW6BN	481	\$3,026.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98KGH9PW7BN	481	\$3,455.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98QDD9PW5BN	481	\$2,705.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98QDF9PW6BN	481	\$3,026.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98QDH9PW7BN	481	\$3,455.00
APX6000 UHFR2 MODEL 1.5	-	H98SDD9PW5BN	481	\$2,705.00

PORTABLE				
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,026.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$3,455.00

APX 6000Li Operation Packages (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: 9600 TRUNKING OR 3600 DIGITAL TRUNKING	When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	755	\$1,570.00
ENH: LI DIGITAL CONVENTIONAL	-	Q811	755	\$650.00
ENH: LI ANALOG CONVENTIONAL	-	QA02829	755	\$400.00
ENH: LI ANALOG 3600 TRUNKING	-	Q443	755	\$1,100.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back	QA04526	655	\$25.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$100.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000Li, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$100.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$200.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
	Enables DVRS Enhanced			

ADD: DVRS PSU ACTIVATION	PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$75.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$75.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Model 3.5 Radios only. Requires FPP HW dongle (NNTN7526A)to be purchased.	Q53	481	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE.	QA01833	481	\$25.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361	QA09008	655	\$150.00

	for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)			
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$75.00

System Key Software

Description	Full Description	Nomenclature	APC	Price
	The SOFTWARE KEY is the default Advance System Key option that ships standard on all			

ADD: HW KEY SUPPLEMENTAL DATA	APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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Algorithm Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES .	H797	481	\$487.00
ENH: DES,DES-XL,DES- OFB ENCRYPTION	Compatible with Analog 25kHz/DES-OFB Digital 12.5kHz Only. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	Q625	481	\$599.00
ENH: AES ENCRYPTION	ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	Q629	481	\$475.00
ADD: AES/DES-XL/DES- OFB ENCRYPTION	-	Q15	481	\$799.00

Multikey Types (Optional)

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Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	481	\$330.00
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$350.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	For APX6000/Li/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$18.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$24.00
ALT: UHFR1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$24.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$24.00

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH	QA07577	481	\$135.00

	(PMNN4547).			
ALT: LI-ION IMPRES 2 4500 MAH UL/CSA (NNTN8921A)	This option will delete the standard battery and replace it with LIION IMPRES 4500MAH (NNTN8921).	QA05575	655	\$165.00

Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/Li AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/Li & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$100.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$115.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$135.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner	Q157	655	\$75.00

	Software. Compatible on ALL APX Portable Radios			
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Belt Clips (*Optional-Can Only Select One*)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	0481	\$0.00
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$29.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in.. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$12.00

Packaging (*Optional*)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound	H885BK	185	\$90.00

	shipping via Motorola's normal shipping methods. No discounts are allowed on this option.			
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	<p>Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios.</p> <p>Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	HA00022AB	185	\$234.00
ADD: 5Y ESSENTIAL SERVICE	<p>Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	Q887	185	\$162.00
	<p>Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios.</p> <p>Comprehensive coverage starts from the first day the radio is put into use and last for</p>			

ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,APX 7K/6K USER CDROM	-	H88	655	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$10.00
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Software and Services

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 6000, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF R1 Frequencies	UHF R2 Frequencies
768	136.8	384	456
775.2	144	396.8	480
866.4	153.6	403.2	493.545
	156	410.4	501.6
	160	422.4	511.805
	164.515	438.68	
	168	441.6	
	172.8	443.52	
		444.8	
		448	

		456	
		460.8	
		469.12	

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H301CN	DEL: DELETE BELT CLIP/ BASIC CARRY	0481	
PORTABLES	FSC	H98KGD9PW5BN	APX6000 VHF MHZ MODEL 1.5 PORTABLE	481	4
PORTABLES	FSC	H98KGF9PW6BN	APX6000 VHF MHZ MODEL 2.5 PORTABLE	481	7
PORTABLES	FSC	H98KGH9PW7BN	APX6000 VHF MHZ MODEL 3.5 PORTABLE	481	4
PORTABLES	FSC	H98QDD9PW5BN	APX6000 UHF R1 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98QDF9PW6BN	APX6000 UHF R1 MODEL 2.5 PORTABLE	481	12
PORTABLES	FSC	H98QDH9PW7BN	APX6000 UHF R1 MODEL 3.5 PORTABLE	481	23
PORTABLES	FSC	H98SDD9PW5BN	APX6000 UHFR2 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98SDF9PW6BN	APX6000 UHF R2 MODEL 2.5 PORTABLE	481	15

PORTABLES	FSC	H98SDH9PW7BN	APX6000 UHF R2 MODEL 3.5 PORTABLE	481	4
PORTABLES	FSC	H98UCD9PW5BN	APX6000 7/800 MHZ MODEL 1.5 PORTABLE	481	3
PORTABLES	FSC	H98UCF9PW6BN	APX6000 700/800 MODEL 2.5 PORTABLE	481	5
PORTABLES	FSC	H98UCH9PW7BN	APX6000 700/800 MODEL 3.5 PORTABLE	481	3
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

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JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model**

ASTRO® Digital APX 6000Li
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

**Ordering Information****General Information**

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 6000Li radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- **Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle**
- **Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied**
- **Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have**

NOTE: Radio Management must be deployed to manage your fleet of APX radios before

you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7813A, T815A, T816A, T817A, T818A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

	T7816A	T7817A	T7818A	T7815A	T7813A
	ANALOG CONVENTIONAL	ANALOG 3600 TRUNKING	DIGITAL CONVENTIONAL	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	TDMA®
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	X	N/A	N/A	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					

ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	N/A	X	N/A	N/A
ENH: TDMA Operation QA00580 (Requires Digital, Smartzone, P25)	X	X	X	X	N/A
ENH: Conventional Vote Scan Q387	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data Q947	Requires Digital	Requires Digital	X	X	X
ENH: Programming Over P25 (OTAP) G996	Requires Digital	Requires AES	X	X	X
ENH: SMARTZONE® Omnilink (Non-P25) Q173	N/A	X	N/A	X	X
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X	X	N/A
ENH: Enable Internal GPS Operation QA00782	Requires Digital	Requires Digital	X	X	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 6000Li price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 6000Li radios.

Software Prices **BELOW DO NOT** include field programming.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
TDMA	-	T7813	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7815	430	\$0.00
ANALOG CONVENTIONAL	-	T7816	430	\$0.00
ANALOG 3600 TRUNKING	-	T7817	430	\$0.00
DIGITAL CONVENTIONAL	-	T7818	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$920.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$403.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,461.00

ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$656.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,173.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$518.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price

ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$115.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$86.25
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$86.25
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$173.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$288.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$173.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$173.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is	QA01648AC	430	\$5.75

	required to fix the error.			
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$115.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$86.25
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$28.75
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$173.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947). includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$403.00
ENH: MULTIKEY	-	H869CC	430	\$380.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7813	TDMA	430	4
PORTABLES	SCB	T7815	9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	430	19
PORTABLES	SCB	T7816	ANALOG CONVENTIONAL	430	9
PORTABLES	SCB	T7817	ANALOG 3600 TRUNKING	430	10
PORTABLES	SCB	T7818	DIGITAL CONVENTIONAL	430	6
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE AND SERVICES](#)[SHIP CARD](#)

Model



**ASTRO® Digital APX 6000XE™ Portable Series
P25 Phase 2 Single Band Capable Radio**

Updates

Announcements

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Effective March, 2018: PMNN4547 IMPRES 2 LIION 3100 MAH will be the new standard battery for the APX 6000XE. This battery is slightly larger and will require a new holster, PMLN7902. This holster is now the standard carry holster for the Models 2.5 and Models 3.5 and will fit all of the current batteries in the portfolio. The legacy holster, PMLN5880 is no longer available.

Effective February, 2018:The new standard 7/800 MHz whip antenna on the APX 6000XE will be PMAF4040 instead of NAF5085. PMAF4040 has a slightly thinner and more flexible form factor. PMAF4040 supports GPS operation.

Ordering Information

Ordering Guide

Standard Features

All ASTRO Digital APX 6000XE models include the following features:

- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Extreme 1-Sided Noise Reduction (QA01833)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio (Requires QA09006 to enable)
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 TIA4950 Battery (PMNN4547)
- MIL-STD Delta-T, IP68 (2 m, 4 hr)
- Single-Band Antenna (dependent on model/frequency selected)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

Additional Ordering Information for Service Options

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$2,705.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,026.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$3,455.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98KGD9PW5BN	481	\$2,705.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98KGF9PW6BN	481	\$3,026.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98KGH9PW7BN	481	\$3,455.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98QDD9PW5BN	481	\$2,705.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98QDF9PW6BN	481	\$3,026.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98QDH9PW7BN	481	\$3,455.00

APX6000 UHFR2 MODEL 1.5 PORTABLE	-	H98SDD9PW5BN	481	\$2,705.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,026.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$3,455.00

2: XE Housing (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ENH: APX6000XE RUGGED RADIO	<p>This option will pull in the XE (extreme) control top with larger knobs and a display for fire users.</p> <p>The carry cases are different for this radio so be sure to choose the right APX6000XE case if you do not want to use the plastic carry holder that ships std with the Model 2 and 3 radios. This option will also pull in a UL battery (PMNN4547) and will include radio UL certification. The QA02006 option includes Delta-T standard.</p>	QA02006	756	\$800.00

Operation Modes (Must Select One)

3A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a	Q361	481	\$300.00

	trunking system.			
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00

3B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00

3C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$500.00

3D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,200.00

3E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$500.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$25.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$25.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	<p>Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE).</p> <p>See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.</p>	QA04526	655	\$25.00

System Enhancement Options (*Optional*)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$100.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000Li, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$100.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$200.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not	QA00631	655	\$100.00

	connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.			
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$75.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$75.00
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$173.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	470	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$200.00
	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for			

ADD: GROUP SERVICES	Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$75.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order	QA09001	579	\$300.00

	Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.			
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000Li models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$150.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$100.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is	QA01648AA	0655	\$5.00

	entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.			
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Algorithm Types(Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option	H797	481	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	481	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	481	\$330.00
	This feature REQUIRES IV&D (Q947) AND Digital Encryption ?			

ADD: TACTICAL REKEY WITH MULTIKEY	AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$350.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Incompatible with the H04 option since Tactical OTAR is included with the Q498 option. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$18.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	Length: 3.93 in.	H122	481	\$24.00
ALT: UHFR1 GPS STUBBY ANTENNA (FAF5259A)	UHF R1 Models Only	QA02017	481	\$24.00
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	UHF R2 Models Only	QA02017	481	\$24.00

Battery (Optional - Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT	This option will delete the standard battery and replace it			

IMPRES 2 LIION 4600MAH	with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$165.00
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Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/Li AN/BN Models, or the standard LIION IMPRES 2 LIION 3100MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/Li & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$100.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$115.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$135.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	0481	\$0.00
ADD: APX6000XE BASIC CARRY HOLDER	This NEW APX6000XE carry holder will ship std on Model 2 and Model 3 radios.	QA00779	481	\$29.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in.. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$12.00

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
	Upgrades the standard warranty period to a full three			

ADD: 3Y ESSENTIAL SVC CANADA	(3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00

Documentation *(Optional)*

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,APX 7K/6K USER CDROM	-	H88	655	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$10.00

Software and Services

Wi-Fi

APX 6000XE supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via

CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 6000XE.

Out of the Box WiFi Provisioning

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#)

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 6000XE, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

Self-Quieting Spurs

700/800 Models	7/800 Frequencies	VHF Frequencies	UHF R1 Frequencies	UHF R2 Frequencies
700 MHz	768	136.8	384	456
800 MHz	775.2	144	396.8	480

	866.4	153.6	403.2	493.545
		156	410.4	501.6
		160	422.4	511.805
		164.515	438.68	
		168	441.6	
		172.8	443.52	
			444.8	
			448	
			456	
			460.8	
			469.12	

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H301CN	DEL: DELETE BELT CLIP/ BASIC CARRY	0481	
PORTABLES	FSC	H98KGD9PW5BN	APX6000 VHF MHZ MODEL 1.5 PORTABLE	481	4
PORTABLES	FSC	H98KGF9PW6BN	APX6000 VHF MHZ MODEL 2.5 PORTABLE	481	7
PORTABLES	FSC	H98KGH9PW7BN	APX6000 VHF MHZ MODEL 3.5	481	4

			PORTABLE		
PORTABLES	FSC	H98QDD9PW5BN	APX6000 UHF R1 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98QDF9PW6BN	APX6000 UHF R1 MODEL 2.5 PORTABLE	481	12
PORTABLES	FSC	H98QDH9PW7BN	APX6000 UHF R1 MODEL 3.5 PORTABLE	481	23
PORTABLES	FSC	H98SDD9PW5BN	APX6000 UHFR2 MODEL 1.5 PORTABLE	481	16
PORTABLES	FSC	H98SDF9PW6BN	APX6000 UHF R2 MODEL 2.5 PORTABLE	481	15
PORTABLES	FSC	H98SDH9PW7BN	APX6000 UHF R2 MODEL 3.5 PORTABLE	481	4
PORTABLES	FSC	H98UCD9PW5BN	APX6000 7/800 MHZ MODEL 1.5 PORTABLE	481	3
PORTABLES	FSC	H98UCF9PW6BN	APX6000 700/800 MODEL 2.5 PORTABLE	481	5
PORTABLES	FSC	H98UCH9PW7BN	APX6000 700/800 MODEL 3.5 PORTABLE	481	3
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model



ASTRO® Digital APX 6000
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 6000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- **Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle**
- **Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied**
- **Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have**

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management ECAT page](#).

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7659, T7660, T7663, T7664, T7665)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. Select the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1. Maximum qty of software upgrades is 500 per line item.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and EXISTING FLASHcode.
7. FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE	T7659	T7660	T7664
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	DIGITAL SMARTZONE®
OPERATION MODES (List as sub items)			
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	N/A	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)			
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	X	N/A
ENH: TDMA Operation QA00580 (Requires Digital, Smartzone, P25)	X	X	X

ENH: Conventional Vote Scan Q387	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)			
ENH: Radio Packet Data Q947	N/A	X	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	N/A
ENH: SMARTZONE® Omnilink (Non- P25) Q173	N/A	N/A	X
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)			
ADD: Multikey Operation H869	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 6000 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 6000 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® DIGITAL APX 6000

Models

Description	Nomenclature
ANALOG CONVENTIONAL	T7659
DIGITAL CONVENTIONAL	T7660
ANALOG SMARTZONE	T7663

DIGITAL SMARTZONE	T7664
TDMA	T7665

Configuration

Data Not Available

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 6500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Updates

Effective April 24th, 2020: The APX 6500 has evolved to support newer technologies like Wi-Fi, and SmartConnect. **FLASHport for the BN models will be available in Q3 2020.**

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 6500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade

documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. **For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.**

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7694, T7695, T7696, T7697, T7698)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1. Maximum qty of upgrades is 500 for each line item.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7694	T7695	T7697	T7696	T7698
<i>OPERATION MODES (List as sub items)</i>	<i>ANALOG CONVENTIONAL</i>	<i>DIGITAL CONVENTIONAL</i>	<i>DIGITAL SMARTZONE®</i>	<i>ANALOG SMARTZONE®</i>	<i>TDMA®</i>

ENH: ASTRO® Digital CAI Operation G808 (NOTE 1)	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: Upgrade to SMARTZONE® G347AP	X	X	N/A	N/A	N/A
ENH: TDMA Operation QA00580 (Requires G806, G51, G361)	X	X	X	X	N/A
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data W947 (Requires G806 to Operate)	X	X	X	X	X
ENH: Programming Over P25 (OTAP) G996	Requires Digital	Requires AES	X	X	X
ENH: SMARTZONE® Omnalink (Non- P25) G173	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking G361	N/A	N/A	X	N/A	N/A
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List					

as sub items)					
ADD: Multikey Operation W969	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 6500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 6500 radios.

Software Prices **BELOW DO NOT** include field programming.

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7694	430	\$0.00
DIGITAL CONVENTIONAL	-	T7695	430	\$0.00
ANALOG SMARTZONE	-	T7696	430	\$0.00
DIGITAL SMARTZONE	-	T7697	430	\$0.00
TDMA	-	T7698	430	\$0.00

Online Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price

ADD: ASTRO DIGITAL CAI OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AE	430	\$592.00
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking, G347. Compatible with T8422, T8423, T8424 models.	G173AN	430	\$230.00
ENH: ASTRO P25 TRUNKING SOFTWARE	Includes G173 (Omnalink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AK	430	\$345.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$518.00
ENH: UPGRADE TO SMARTZONE	Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	G347AS	430	\$920.00

Dual Radio Operation

Description	Full Description	Nomenclature	APC	Price
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the O7 control head. Does not include the cables needed to complete the solution.	GA01058	430	\$650.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$173.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$288.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631AC	430	\$115.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$173.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00

ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$173.00
ENH: RADIO TRACE	-	G170AL	430	\$86.25
ENH: MULTICAST VOTNG SCAN	Requires Digital Operation.	G387AF	430	\$230.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$115.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires P25 9600 Trunking	GA01767AJ	430	\$115.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital	G445AB	430	\$173.00
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$115.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$86.25
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$173.00
ENH: ENHANCEMENT LEVEL 2	-	GA01771AE	430	\$230.00
	The SOFTWARE KEY is the default Advance System Key option that ships standard on			

ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$288.00
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$76.00

Advanced System Key

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75

Multikey

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION	-	W969BL	430	\$380.00
ADD: TACTICAL OTAR	includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AX	430	\$403.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	G298AV	430	\$851.00

ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$172.00
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Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7694	ANALOG CONVENTIONAL	430	15
PORTABLES	SCB	T7695	DIGITAL CONVENTIONAL	430	15
PORTABLES	SCB	T7696	ANALOG SMARTZONE	430	15
PORTABLES	SCB	T7697	DIGITAL SMARTZONE	430	15
PORTABLES	SCB	T7698	TDMA	430	15
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[SOFTWARE & SERVICES](#)

Model



ASTRO® Digital APX 6500 Mobile Subscriber
700/800 MHz (10 – 35 Watts)
VHF - 136 -174 (10-50, 25 - 100 Watts)
UHFR1 - 380-470 (10-40, 25 -110 Watts)
UHF R2 450-520 (10-45 Watts)

Secure and Trunked Radio Systems

Ordering Information

Features

Standard Features

- Up to 870 Channels
- Available in Single-Band Operation
- Trunking Standards supported:

Clear or digital encrypted ASTRO® 25 Trunked Operation
Capable of SmartZone®, SmartZone Omnilink, SmartNet®

- Analog MDC-1200 and Digital APCO P25 Conventional System Configurations
- Narrow and wide bandwidth digital receiver
(6.25kHz/12.5kHz/25kHz)
- Embedded digital signaling (ASTRO and ASTRO 25)
- Integrated GPS capable*
- Intelligent lighting
- Radio profiles
- Unified Call List
- Meets applicable MIL-specs 810C, D, E, F and G

- Ships standard IP54
- Utilizes Windows XP and Vista Customer Programming Software (CPS)
- Supports USB Communications
- Built in FLASHport™ support
- Re-use of most XTL™ accessories
- Standard ADP
- Voice Announcements

**Features is dependant on a specific ordered option (GA00229).*

Optional Features

- Enhanced Encryption Capability
- Programming over Project 25 (POP25)
- Text Messaging
- Over the Air Re-Key (OTAR)
- Tactical Over the Air Re-Key (OTAR)
- Radio Trace
- Trunked One Touch Button
- Radio Authentication
- 12 character RF ID asset tracking

FLASHport®

All ASTRO Digital APX 6500 Mobiles are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

******NOTE: The APX 6500 digital radios require either a SOFTWARE KEY (QA01749) OR HARDWARE KEY (QA01648) to be ordered to operate/program on a trunking system. IF QA01648- HARDWARE KEY is ORDERED, SUPPLEMENTAL DATA is required to be entered. Also, an Advanced System Keys (ASK- DVN4046) will be required to be ordered. ******

******NOTE: The APX 6500 digital radios require Advanced System Keys (ASK) to be configured to operate/program on a trunking system.**

[Advanced System Key](#)

FCC Information

Band/Model	Power Output	FCC Certification	Emissions	Applicable Rules
700 MHz: 764-776 MHz 794-806 MHz 800 MHz: 806-824 MHz 851-870 MHz	700 MHz: 3.5 - 30 Watts 800 MHz: 3.5 - 35 Watts	AZ492FT5858	8K10F1D, 8K10F1E, 8K10F1W,11K0F3E, 16K0F3E, 20K0F1E	22 (800 MHz Band ONLY), 90
VHF: 136 - 174 MHz	10 – 50 Watts	AZ492FT3824	8K10F1D, 8K10F1E, 8K10F1W,11K0F3E, 16K0F3E, 20K0F1E	22, 80, 90

25 – 100 Watts	AZ492FT3821			
UHF R1: 380 - 470 MHz	10 - 40 Watts	AZ492FT4894	8K10F1D, 8K10F1E, 8K10F1W,11K0F3E, 16K0F3E, 20K0F1E	22,74, 90, 90.210
25 - 110 Watts	AZ492FT4897			
UHF R2: 450 - 520 MHz	15 - 45 Watts	AZ495FT4896	8K10F1D, 8K10F1E, 8K10F1W,11K0F3E, 16K0F3E, 20K0F1E	22,74, 90, 90.210

Except for Itinerant and low-power incident channels.

** Itinerant & Low-Power Incident Channels (Old Band Plan)

Channel Number	Frequency Range (MHz)
1 - 2	764 - 764.075
949 - 960	775.925 - 776
961 - 972	794 - 794.075
1909 - 1920	805.925 - 806

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

General Information

Operating Modes

ASTRO Digital APX 6500 Radio Models are capable of operating in four different voice communication modes:

- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6 KB ASTRO 25 Digital (both Clear and Coded voice)
- 9.6KB 12.5kHz 2 slot digital TDMA (both clear and coded voice).
 - Will be capable of APCO25 Phase 2 functionality in future software releases.
 - Normal Analog (clear voice)

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of APCO 25 Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) will be part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital APX 6500 Mobile Series Radios are part of the FLASHport Program. This means that ASTRO Digital APX 6500 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The ASTRO Digital APX 6500 Mobile can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

Here is an example of a Mid Power APCO P25 Trunking Equipped Radio (Dash Mount w/ O5 control head)

1	M25URS9PW1 N	ASTRO APX 6500 SINGLE BAND 7/800	Comments
1A	G806	SOFTWARE ASTRO DIGITAL CAI OPERATION	Select Operation Mode
1B	G51	SMARTZONE OPERATION	Select System Enhancement Software
1C	G361	ASTRO PROJECT 25 TRUNKING SOFTWARE	Select an Optional System Enhancement Software
1D	QA01749	ADVANCED SYSTEM KEY - SOFTWARE	Select and Advanced System Key Option
1E	G442	O5 CONTROL HEAD	Select Control Head Hardware
1F	G444	CONTROL HEAD SOFTWARE	Select Control Head Software

1G	G66	DASH MOUNT	Select Mounting Type
1H	G174	ANTENNA 3DB LOW-PROFILE 764-870MHZ	Select Antenna
1I	W22	PALM MICROPHONE	Select Microphone
1J	B18	AUXILARY SPKR SPECTRA 7.5 WATT	Select Speaker

Order the APX 6500 Mobile Series as the main line item.

- You must choose an Operation Mode
- You must choose an System Enhancement Software package
- You must choose an Advanced System Key option if Smartzone Operation is selected.
- A control head must be selected or no control head needed must be selected.
- Control Head Software must be selected
- All Mid Power radios must choose mounting type. High Power radios include a quick release remote mount trunion.
- A antenna selection is required for all radios. G89, no antenna needed, is a valid antenna selection.
- You must choose a microphone selection. G90, no microphone needed, is a valid microphone selection.
- You must choose a speaker selection. G142, no speaker needed, is a valid speaker selection.
- Note - APX Radios ship with 12 month standard warranty.

Software & Services

Common Software Features Supported By

G51 "SmartZone"

	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)	"TDMA" (GA00580AA)
	<i>Non- Project 25 (3600 Baud)</i>	<i>Non- Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>TDMA OPERATION</i>
RADIO WIDE FEATURES				
Maximum Modes				

ASTRO Digital APX 6500	870	870	870	870
Analog and Digital Operation	Yes	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	Yes	Yes (Digital Only)	Yes (Digital Only)	Yes (Digital Only)
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround				

Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
DTMF Signaling	Future	Future	Future	Future
Quick-Call Signaling	Future	Future	Future	Future
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (G806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes

Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Acknowledgement	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Manual Phone Number Entry	Dual Display Only	Yes	Yes	Yes
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes
Radio Check	MDC-1200 Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID *Included	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes
Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes	Yes

Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Future	Future
Reprogram Request	Yes	Yes	Yes	Yes
G51 "SmartZone"				
	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/Q361)	"TDMA" (GA00580AA)
		Non- Project 25 (3600 Baud)	Project 25 (9600 Baud)	Project 25 (TDMA Operation)
Trunking Type II Only Features				
SmartZone Automatic Site Registration	Yes	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the APX 6500 Mobile series. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

PROJECT 25 ENCRYPTION

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital APX6500 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital APX 6500 radio will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. ASTRO Digital APX 6500 radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The DES-OFB and AES encryption algorithms offered are compliant with digital Project 25 standards and does not support analog encryption operation.
- **Requires** the ASTRO Digital CAI (G806) to operate the DES-OFB and AES encryption.

If ordering a Dual Encryption:

- The non-OFB encryption (XL versions) can be operated in either analog, or CAI digital mode, but will not be Project 25 compliant.
- **Requires** the Multikey (W969).

When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.

- Encryption Algorithms can be ordered later via Flash Port.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on the NIST website at: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>.

Further information regarding FIPS 140-2 certification may be found using the following link - FIPS 140-2 Crypto Module Validation Program (CMVP) <http://csrc.nist.gov/groups/STM/cmvp/index.html>

ASTRO Text Messaging Service

ASTRO Text Messaging Service is available on the ASTRO 25 APX 6500 mobile radios with the O5 control head (single and dual-control head) and O3 control head. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text

Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers.

For full Text Messaging functionality, including freeform text messaging and addressing, must order O3 Control Head or O5 Control Head with Keypad Microphone. O5 Control Head without the Keypad Microphone supports Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio.

Ordering requirements for APX 6500 Mobile:

- Requires O5 Control Head (G442) or O3 Control Head (G72)
- Full functionality including free form messaging requires the Keypad Microphone (W20) for O5 Control Head
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (G51)
- ASTRO Project 25 Trunking 9600 Software (G361)
- Packet Data Interface (W947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.) It is possible to the user to determine their own location (latitude/longitude) through the use of the location menu.

Ordering GPS for APX 6500 Mobile Requires:

- Enable Internal GPS Operation (GA00782)
- Packet Data Interface (W947)

NOTE:

The GPS feature uses radio signals from earth orbiting satellites, to establish the location co-ordinates maximizing your view of clear. Unobstructed sky is essential for optimum performance. When adequate signals from multiple satellites are not available, (usually because you cannot establish a wide area view of the sky), the GPS feature WILL NOT WORK. Such situations include but are not limited to:

- Underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover

VHF SELF-QUIETING SPURS

Frequencies (MHz)
168.000MHz

Note: There are no self-quieting spurs for 700/800 MHz.

CPS INFORMATION

****Please note that a NEW version of CPS (RVN5224) is required for initial customer orders for this product. This new version of CPS is required for the APX radio shipments. ****

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® Digital APX 6500Li
FLASHport® Aftermarket Upgrades

Updates

Effective April 24th, 2020: The APX 6500Li has evolved to support newer technologies like Wi-Fi. **FLASHport for the BN models will be available in Q3 2020.**

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 6500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7894A, T7895A, T7896A, T7897A, T7899A)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1. Maximum qty of software upgrades is 500 per line item.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable. [CLICK HERE](#) for available cables

	T7894A	T7895A	T7896A	T7897A	T7899A
	ANALOG CONVENTIONAL	ANALOG 3600 TRUNKING	DIGITAL CONVENTIONAL	9600 OR 3600 TRUNKING	TDMA®
OPERATION					

MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	X	N/A	N/A	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	N/A	X	N/A	N/A
ENH: TDMA Operation QA00580 (Requires Digital, Smartzone, P25)	X	X	X	X	N/A
ENH: Conventional Vote Scan Q387	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data Q947	Requires Digital	Requires Digital	X	X	X
ENH: Programming Over P25 (OTAP) G996	Requires Digital	Requires AES	X	X	X
ENH: SMARTZONE® Omnilink (Non-P25) Q173	N/A	X	N/A	X	X
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X	X	N/A
ENH: Enable Internal GPS Operation QA00782	Requires Digital	Requires Digital	X	X	X
ENCRYPTION ENHANCEMENT OPTIONS					
(List as sub items)					
ADD: Multikey Operation H869	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 6500li price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 6500li radios.

Software Prices **BELOW DO NOT** include field programming.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
-------------	------------------	--------------	-----	-------

ANALOG CONVENTIONAL	-	T7894	430	\$0.00
ANALOG 3600 TRUNKING	-	T7895	430	\$0.00
9600 OR 3600 DIGITAL TRUNKING	-	T7897	430	\$0.00
DIGITAL CONVENTIONAL	-	T7896	430	\$0.00

Operation Upgrade Options

Can only select 1

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$920.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	GA00893AA	430	\$403.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,461.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$656.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$86.25
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$115.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$115.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ENH: RADIO TRACE	-	G170AL	430	\$86.25
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$288.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$173.00

ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$518.00
ADD: DVRS MSU ACTIVATION APX MOBILE	-	GA00631AB	430	\$288.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$173.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Mutually exclusive with DVRS MSU (GA00631).	GA09011AB	430	\$115.00
ADD: MOT VML DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545.	GA01545AC	430	\$29.00
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$76.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	-	G445AB	430	\$173.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION	-	W969BL	430	\$380.00

Online Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	T7894	ANALOG CONVENTIONAL	430	10
PORTABLES	FSC	T7895	ANALOG 3600 TRUNKING	430	10
PORTABLES	FSC	T7896	DIGITAL CONVENTIONAL	430	10
PORTABLES	FSC	T7897	9600 OR 3600 DIGITAL TRUNKING	430	10
PORTABLES	FSC	T7899	TDMA	430	10
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[SHIP CARD](#)

Model



Motorola APX™ Single Band Consolelette
VHF(136 -174MHz), UHF R1(380-470MHz), UHF R2(450-512MHz), 700/800 MHz, AND 900 (896-902 MHz) (935-941 MHz)

Conventional, Secure and Trunked Radio Systems

FOR MULTI-BAND OPERATION PLEASE SEE APX ALL BAND CONSOLELETTE PCAT PAGE.

Updates

NEW 2/2020: With the release of the Motorola APX™ All Band Consolelette in June 2019, we are canceling all Single Band Consolelettes in June 2020 (with the exception of the Single Band 900MHz Consolelette). Please note that the Motorola APX™ All Band Consolelette can be ordered as a single band in any band except 900MHz.

The following list specifies the APX™ Single Band Consolelettes to be canceled in June 2020:

- L30KSS9PW1BN - VHF(136 -174MHz)
- L30QSS9PW1AN - UHF1 (380-470MHz)
- L30SSS9PW1AN - UHF2(450-512)
- L30URS9PW1AN - 700/800 MHz

DHS

Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

The SOFTWARE KEY (QA01749) is the default Advance System Key, it ships by default on all APX products; The HARDWARE KEY can be ordered instead by using QA01648. The DVN4046 Master Key Starter Kit is required for the Hard Key or to operate on a third-party Trunking system. The CORRECT System Owner ID will be required upon ordering the Hard Key or DVN Kit. Be sure to enter the CORRECT SYSTEM OWNER ID when supplemental data is required. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.

Starting Q1 SER 2015, CPS will be available to purchase as either a Download-Only 3-Year Subscription (Part Number HKVN4289, \$299) or DVD/Download 3-Year Subscription (RVN5224, \$399). Order details below in CPS Information Section

W947 IV&D is no longer an orderable option it now comes by default on all APX mobiles

Ordering Information

Features

Standard APX Console Features.

		APX Console	
FEATURES		Full Feature Front Panel L999AA	Limited Feature Front Panel L998AA
Front Panel Functionality	Local Control head Supported	√	NO
	GCAI Paddle Mic Supported	√	NO
	Internal Local Speaker	√	NO
	Clock	√	√
	VU Meter	√	√
	Auxillary Display	√	√
	Numeric Keypad and Programmable Buttons	√	NO
	External Keyload Port	√	√
	External Programming Port(s)	√	√
	External IV&D Port	√	√
	Tactical OTAR Port	√	√
	Control Head ON/OFF Switch	√	NO
	MCD5000 IP Deskset System Supported	√	√
	TRC with Wireline	√	√
	E & M with Wireline	√	√
	ACIM with Wireline	√	√
Rear Panel Functionality	APCO Interface	√	√
	Crosspatch Interface	√	√
	Crossmute Interface	√	√
	Recorder	√	√
	Auxillary Audio Jack	√	√
	Auxillary External Mobile Speaker	√	√
	Dual Headset Interfaces	√	NO
	General Purpose Inputs/Outputs	√	√
	Emergency Footswitch	√	√
	Power Supply with Battery Revert	√	√
	AC Power ON/OFF Switch	√	√
	Intermittent Duty Cycle (EIA/TIA)	√	√
	Service without lid removal	√	√
	APX CPS/Flashport programming	√	√
	Console Codeplug Configuration Programming	√	√
	Mobile supported	√	√
	Signalling types: Analog (including MDC), ASTRO Conventional, Type II Trunking, APCO Trunking (including F2)	√	√
	Modes of operation (Conventional, Smartnet, Smartzone, Omni-Link)	√	√
	HW Encryption, Multi-key, SW Encryption, OTAR	√	√
General	MC3000/DGT9000 Supported	NO	NO
	SB9600/SBEP	NO	NO
	Dispatcher Headset Interface (2	√	NO
	Gooseneck Mic and PTT Footswitch	√	NO
	Control Heads Supported	√	NO
	GCAI mics supported	√	NO
	Internal local speaker	√	NO
	Clock	√	√
	VU Meter	√	√
	Auxiliary Display	√	√

Numeric Keypad and Programmable Buttons	√	NO
Over-the-air Alert Tones	√	NO
Keyloading	√	√
IV&D data supported	√	√
Tactical OTAR	√	√

EXTENDED OPTION GA00469	<p>DESCRIPTION – This option enables Extended Dispatch functionality from a Console (e.g. MCC7500) via the Console when the Console is configured for <u>ACIM</u> control. The Extended Dispatch functions are only supported on <u>Conventional</u> channels.</p> <p>DECODE FUNCTIONALITY</p> <ul style="list-style-type: none"> · Emergency Alarm - A subscriber unit can send an emergency alarm over-the-air at any time. The Console will send any received Emergency Alarms to the Console. With the Extended Dispatch option the corresponding ACK from the Console is transmitted by the Console over-the-air back to the specified subscriber on Conventional channels only. · Status Update - A subscriber unit can send a status update over-the-air at any time. The Console will send any received Status Updates to the Console. With the Extended Dispatch option the corresponding ACK from the Console is transmitted by the Console over-the-air back to the specified subscriber on Conventional channels only. · Message Update - A subscriber unit can send a message update over-the-air at any time. The Console will send any received Message Updates to the Console. With the Extended Dispatch option the corresponding ACK from the Console is transmitted by the Console over-the-air back to the specified subscriber on Conventional channels only. 	
	<p>ENCODE FUNCTIONALITY</p> <ul style="list-style-type: none"> · Status Request - Allows the Console user the ability to remotely determine a specific subscriber's status via the Console on Conventional channels only. · Radio Enable/Disable - Allows the Console user the ability to make unusable (Inhibit) a specific subscriber and correspondingly restore a unit to normal operation (Un-Inhibit) via the Console on Conventional channels only. · Radio Check - Allows the Console user the ability to remotely ping a specific subscriber via the Console on Conventional channels only. · Remote Monitor - Allows the Console user the ability to remotely put a specific subscriber into transmit mode via the Console on Conventional channels only. · Emergency Alarm ACK - The corresponding ACK from the Console is transmitted by the Console over-the-air back to the specified subscriber on Conventional channels only. <p>NOTE: CALL ALERT ENCODE – The Console is able to encode outbound Call Alerts from the Console (via ACIM) on both Conventional and P25 Trunking channels. The Extended Dispatch option is <u>NOT</u> required for Call Alert Encode.</p>	√

Standard Transceiver APX™ Mobile Features

Up to 1250 Channels	
Trunking Standards supported: Clear or digital encrypted ASTRO® 25 Trunked Operation, Capable of SmartZone®, SmartZone Omnilink, SmartNet®	Narrow and wide bandwidth digital receiver: (6.25kHz/12.5kHz/25kHz)
Analog MDC-1200 and Digital APCO P25 Conventional System Configurations	Embedded digital signaling (ASTRO and ASTRO 25)
Seamless wideband scan	Intelligent lighting on Full Feature Front Panel with 05 Control Head Display.
Radio profiles	Unified Call List
Utilizes Windows XP and Vista Customer Programming Software (CPS)	Supports USB Communications
Built in FLASHport™ support	Standard Advanced Digital Privacy
Voice Announcements	

Optional Features

- Enhanced Encryption Capability
- Programming over Project 25 (POP25)
- Text Messaging
- Over the Air Re-Key (OTAR)

FLASHport®

All ASTRO Digital APX™ Consolette are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

General Information

Operating Modes

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6 KB ASTRO 25 Digital (both clear and coded voice)
- 9.6KB 12.5kHz 2 slot digital TDMA (both clear and coded voice).
• Will be capable of APCO25 Phase 2 functionality in future software releases.

G51 "SMARTNET"/"SMARTZONE"

"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)	"TDMA" (GA00580AA)	
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)	TDMA OPERATION
RADIO WIDE FEATURES				
<i>Maximum Modes</i>				
ASTRO Digital	1250	1250	1250	1250
Analog and Digital Operation	Yes	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	Yes	Yes (Digital Only)	Yes (Digital Only)	Yes (Digital Only)
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				

Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
DTMF Signaling	Future	Future	Future	Future
Quick-Call Signaling	Future	Future	Future	Future
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes
Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Acknowledgement	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Manual Phone Number Entry	Dual Display Only	Yes	Yes	Yes
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes
Radio Check	MDC-1200 Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes

Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID <i>*Included</i>	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes
Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Future	Future
Reprogram Request	Yes	Yes	Yes	Yes

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of APCO 25 Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) will be part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital APX Console Series Radios are part of the FLASHport Program. This means that ASTRO Digital APX Console hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The ASTRO Digital APX Console can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

G51 "SMARTNET"/ "SmartZone"

	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)	"TDMA" (GA00580AA)
	<i>Non-Project 25 (3600 Baud)</i>	<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>TDMA OPERATION</i>

RADIO WIDE FEATURES				
Maximum Modes				
ASTRO Digital	1250	1250	1250	1250
Analog and Digital Operation	Yes	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	Yes	Yes (Digital Only)	Yes (Digital Only)	Yes (Digital Only)
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
DTMF Signaling	Future	Future	Future	Future
Quick-Call Signaling	Future	Future	Future	Future

DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes
Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Acknowledgement	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Manual Phone Number Entry	Dual Display Only	Yes	Yes	Yes
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes
Radio Check	MDC-1200 Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID *Included	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes

Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Future	Future
Reprogram Request	Yes	Yes	Yes	Yes

G51 "SmartZone"

	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)	"TDMA" (QA00580AA)
		<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>Project 25 (TDMA Operation)</i>
Trunking Type II Only Features				
SmartZone Automatic Site Registration	Yes	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the APX Console series. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

PROJECT 25 ENCRYPTION

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure

communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the ASTRO Digital either as a factory installed option or separate from the radio for later field installation. ASTRO Digital functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The DES-OFB and AES encryption algorithms offered are compliant with digital Project 25 standards and does not support analog encryption operation.
- **Requires** the ASTRO Digital CAI (G806) to operate the DES-OFB and AES encryption.

If ordering a Dual Encryption:

- The non-OFB encryption (XL versions) can be operated in either analog, or CAI digital mode, but will not be Project 25 compliant.
- **Requires** the Multikey (W969).

When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.

- Encryption Algorithms can be ordered later via Flash Port.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on the NIST website at: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>.

Further information regarding FIPS 140-2 certification may be found using the following link - FIPS 140-2 Crypto Module Validation Program (CMVP) <http://csrc.nist.gov/groups/STM/cmvp/index.html>

ASTRO Text Messaging Service

ASTRO Text Messaging Service is available on the ASTRO 25 APX Console radio with the Full Front Panel O5 Keypad/Clock/WU. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers.

Ordering requirements for APX Console:

- Requires Option L999 Full Feature O5 Control Head Front Panel. Full functionality including free form messaging.
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (G51)
- ASTRO Project 25 Trunking 9600 Software (G361)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

FCC Information

Band/Model	Power Output	FCC Certification	Emissions	Applicable Rules
700 MHz: 764-776 MHz 794-806 MHz	700 MHz: 3.5 - 30 Watts	AZ492FT5858	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22 (800 MHz Band ONLY), 90
800 MHz: 806-824 MHz 851-870 MHz	800 MHz: 3.5 - 35 Watts			
VHF: 136 - 174 MHz	10 – 50 Watts	AZ492FT3824	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 80, 90
			8K10F1D,	

UHF R1: 380 - 470 MHz	10 - 40 Watts	AZ492FT4894	8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 74, 90, 90.210
UHF R2: 450 - 520 MHz	15 - 45 Watts	AZ495FT4896	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 74, 90, 90.210
VHF: 136 - 174 MHz 700 MHz: 764-776 MHz 794-806 MHz 800 MHz: 806-824 MHz 851-870 MHz	VHF: 10 - 50 Watts 700 MHz: 3.5 - 30 Watts 800 MHz: 3.5 - 35 Watts	AZ492FT7037	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22 (VHF and 800 MHz ONLY), 80 (VHF ONLY), 90

Except for Itinerant and low-power incident channels.

** Itinerant & Low-Power Incident Channels (Old Band Plan)

Channel Number	Frequency Range (MHz)
1 - 12	764 - 764.075
949 - 960	775.925 - 776
961 - 972	794 - 794.075
1909 - 1920	805.925 - 806

VHF SELF-QUIETING SPURS

Frequencies (MHz)
168.000MHz

Note: There are no self-quieting spurs for 700/800 MHz.

CPS INFORMATION

****Please note that a NEW version of CPS (RVN5224) is required for initial customer orders for this product. This new version of CPS is required for the APX radio shipments. ****

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

NOTE: LINK TO CANCELLATION NOTICES:

<https://converge.motorolasolutions.com/community/sales/government-commercial-markets-sales/blog/2018/09/21/lifecycle-support-notice-apx-700-800-vhf-dual-band-console>

<https://converge.motorolasolutions.com/community/sales/government-commercial-markets-sales/blog/2018/10/22/apx-vhf-single-band-console-update>

https://www.google.com/url?q=https://converge.motorolasolutions.com/community/sales/government-commercial-markets-sales/blog/2018/12/19/lifecycle-support-notice-apx-uhf-vhf-dual-band-apx-console&sa=D&source=hangouts&ust=1554485729702000&usg=AFQjCNEXaILB20dquan5osktjRp_SHcl2Q

Configuration

NOTE: LINK TO CANCELLATION NOTICES:

<https://converge.motorolasolutions.com/community/sales/government-commercial-markets-sales/blog/2018/09/21/lifecycle-support-notice-apx-700-800-vhf-dual-band-consolette>

Models

Description	Full Description	Nomenclature	APC	Price
APX CONSOLETTTE 900	-	L22WRS9PW1 N	761	\$4,554.00
APX CONSOLETTTE UHF R1 MP	-	L30QSS9PW1 N	761	\$4,554.00
APX CONSOLETTTE VHF	-	L30KSS9PW1 N	761	\$4,554.00
APX CONSOLETTTE UHF R2 MP	-	L30SSS9PW1 N	761	\$4,554.00
APX CONSOLETTTE 7/800	-	L30URS9PW1 N	761	\$4,554.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	G806	656	\$515.00
ENH: SW ASTRO READY (ANALOG)	NOT COMPATIBLE with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$800.00
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
SW KEY SUPPLEMENTAL DATA	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749	655	\$0.00
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,500.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$200.00

ENH: P25 TRUNKING SOFTWARE APX	When ordering this option G51 & G806 MUST be ordered. G173 is included at 'NO CHARGE.'	G361	656	\$300.00
ENH: OVER THE AIR PROVISIONING	Compatible with P25 Trunking OR ASTRO Conventional only; There is NO Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A). Single unit POP25 with batch programming for trunking configuration coming in future.	G996	656	\$100.00
ENH: EXTENDED DISPATCH APX CONSOLETTTE	This option enables the extended dispatch functionality on Conventional Channels ONLY.	GA00469	761	\$500.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	W947	656	\$250.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$200.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$450.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: DIGITAL TONE SIGNALING	-	GA09000	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: FRONT PANEL PROGRAMMING (FEDERAL)	-	GA00243	656	\$150.00
APX MOBILE RADIO AUTHENTICATION	-	GA01767	656	\$100.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION APX7500	Analog 25 Khz Only supported in radios shipped past June 1, 2010.	W797	656	\$487.00
ADD: LOCALIZED ENABLED ENCRYPTION	-	GA01175	656	\$750.00
	G851 is NOT compatible with G843 and G625.			

ADD: AES/DES-XL/DES-OFB ENCRYPTION	W969 Multi-key required for use of more than 1 key. Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010. AES and DES-OFB Operation Require Digital (G806).	G851	656	\$799.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multi-key (W969)and Trunking OTAR. Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$740.00
ADD: MULTIPLE KEY ENCRYPTION OPERATION	REQUIRED when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ADD: AES ENCRYPTION APX	Requires P25 operation.	G843	656	\$475.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010.	G625	656	\$599.00
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Desktop Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: LIMITED FRONT PANEL W/CLOCK/VU	-	L998	761	\$480.00
ADD: FULL FP W/05/KEYPAD/CLOCK/VU	-	L999	761	\$789.00

Manual

Description	Full Description	Nomenclature	APC	Price
ADD: NO USER/INSTALL CD NEEDED	-	GA00237	656	\$0.00

Microphones

Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$169.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00

Power Cord(s)

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD BS 1363 PLUG-UK	-	CA01600	761	\$0.00
ADD: AC LINE CORD US	-	CA01598	761	\$0.00
ADD: AC LINE CORD AS3112 PLUG-AUSTI	-	CA01602	761	\$0.00
ADD: DC CORD	-	CA01942	761	\$55.00

RF Modem

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE RF MODEM	The APX mobiles do not support Site Lens or System Watch. Therefore, the APX RF Modem function does not support the legacy System Watch or Site Lens applications. The APX RF Modem supports Conventional or 9600 Trunking only. Enabling the RF Modem in conventional mode allows provisioned APX portables to pass accountability data through the portable option Q445.	G319	656	\$0.00

Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SVC CAN DEALER	-	HA00070	185	\$125.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	GA00318	185	\$319.00
ADD: 5Y ESSENTIAL SVC CAN DEALER	-	HA00071	185	\$175.00
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	G78	185	\$168.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
APX MOBILE RADIO AUTHENTICATION	-	GA01767	656	\$100.00
ADD: 5Y ESSENTIAL SVC CAN DEALER	-	GA01272	185	\$222.00

Warranty

Description	Full Description	Nomenclature	APC	Price
ADD: STD WARRANTY - NO ESSENTIAL	Provides no extended repair coverage after the standard warranty period expires	GA05100	185	\$0.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	The Comprehensive option adds an extra layer of protection for situations when accidents happen: Chemical, liquid and physical damage coverage. No discounts are allowed on this option.	GA00255AD	185	\$506.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$268.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	GA00318	185	\$319.00
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	G78	185	\$168.00
ADD: 5Y ESSENTIAL SVC CAN DEALER	-	GA01272	185	\$222.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$185.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00

Manual(s)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Test Results

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00

Accessories

Cable(s)

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Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Mount Racks

Description	Full Description	Nomenclature	APC	Price
APX CONSOLETTA RACK MOUNT KIT	-	HKN6233C	761	\$200.00
APX CONSOLETTA WALL MOUNT BRACKET KIT	-	HKN6243A	761	\$60.00
5FT GCAI EXTENSION CABLE	-	RKN4167A	706	\$44.00

Software and Services

CPS (Customer Programing Software) Informaton

CPS 3-Year Subscription Update

Starting Q1 SER 2015, in addition to the traditional 3 Year DVD CPS software subscription (RVN5224 - List \$399), we will offer a download-only 3 Year CPS software subscription (HKVN4289A, - List \$299) which will provide access to CPS software through your Motorola Online account. Only one subscription per MOL account is needed. The original price of \$375 for RVN5224 will increase to \$399 on July 1, 2015.

How to order DVD CPS Subscription (RVN5224) through COF:

1. Sign and return the Software License Agreement
2. Order the software part number (RNN5224)
3. New releases on disk will be automatically sent for a three-year period.

How to order Download-Only CPS Subscription (HKVN4289A) through MOL:

1. Call [1-800-422-4210](tel:1-800-422-4210), option 4 (MOL Support Team) to request an MOL account or to add a CPS subscription to an existing account.
2. Sign and return the Software License Agreement through MOL
3. Order HKVN4289A
4. Provide a valid email address; as the 3 year subscription period ends subscription renewal reminders will be sent to this email address.

CPS downloads are only available for North America; downloadable CPS for all other regions is currently in development.

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5

PARTS	PDC	HKN6184C	CABLE CH, PROGRAMMING,USB	261	5
MOBILES	FSA	HKN6233C	APX CONSOLETTTE RACK MOUNT KIT	761	15
MOBILES	FSC	HKN6243A	APX CONSOLETTTE WALL MOUNT BRACKET KIT	761	16
MOBILES	FSA	L22WRS9PW1 N	APX CONSOLETTTE 900	761	6
MOBILES	FSA	L30KSS9PW1 N	APX CONSOLETTTE VHF	761	17
MOBILES	FSA	L30QSS9PW1 N	APX CONSOLETTTE UHF R1 MP	761	24
MOBILES	FSA	L30SSS9PW1 N	APX CONSOLETTTE UHF R2 MP	761	18
MOBILES	FSA	L30TSS9PW1 N	APX CONSOLETTTE DUAL BAND	761	40
MOBILES	FSA	L30URS9PW1 N	APX CONSOLETTTE 7/800	761	17
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA06397AA	DEL: GPS ACTIVATION APX	0655	
FIXEDSTN	CDP	RKN4167A	5FT GCAI EXTENSION CABLE	706	2

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

[CONFIGURATION](#)

Model



ASTRO® Digital APX 7500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems



Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 7500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management ECAT](#) page.

Ordering Requirement

1. **Specify** the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7558, T7559, T7560, T7561, T7562, T7563, T7656)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.



Dual Band Operation GA00579	X	X	X	X	X	X	X	X	
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	N/A	N/A	N/A	X	
ENCRYPTION ENHANCEMENT OPTIONS									
(List as sub items)									
ADD: Multikey Operation W969	X	X	X	X	X	X	X	X	

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 7500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 7500 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

☞ Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Data Not Available

Ship Card

Data Not Available

Configuration

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 7500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems



Updates

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 7500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

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Ordering Requirement

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2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE							
	T7558	T7559	T7560	T7561	T7562	T7563	T7656
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	ANALOG SMARTNET®	DIGITAL SMARTNET®	DIGITAL SMARTZONE®	ANALOG SMARTZONE®	TDMA®
OPERATION MODES (List as sub items)							
ENH: ASTRO® Digital CAI Operation G808 NOTE 1	X	N/A	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)							
ENH: Upgrade to SMARTNET® G344AD	X	X	N/A	N/A	N/A	N/A	N/A
ENH: Upgrade to SMARTZONE® G347AP	X	X	X	X	N/A	N/A	N/A
ENH: TDMA Operation QA00580 (Requires G806, G51, G361)	X	X	X	X	X	X	N/A
SYSTEM ENHANCEMENT OPTIONS (List as sub items)							

ENH: Radio Packet Data W947 (Requires G806 to Operate)	X	X	X	X	X	X	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	N/A	N/A	N/A	N/A	X
ENH: SMARTZONE® Omnilink (Non- P25) G173	N/A	N/A	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking G361	N/A	N/A	N/A	N/A	X	N/A	N/A
ENH: Enable Dual Band Operation GA00579	X	X	X	X	X	X	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	N/A	N/A	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)							
ADD: Multikey Operation W969	X	X	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 7500 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 7500 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7558	430	\$0.00
DIGITAL CONVENTIONAL	-	T7559	430	\$0.00
ANALOG SMARTNET	-	T7560	430	\$0.00
DIGITAL SMARTNET	-	T7561	430	\$0.00

DIGITAL SMARTZONE	-	T7562	430	\$0.00
ANALOG SMARTZONE	-	T7563	430	\$0.00
TDMA	-	T7656	430	\$0.00

Options

Operating

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE MULTIBAND	-	GA00579AB	430	\$690.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	G808AD	430	\$592.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OMNILINK	-	G173	430	\$230.00
ENH: UPGRADE TO SMARTNET MOBILE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartnet.	G346	430	\$575.00
ENH: UPGRADE TO SMARTZONE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartzone.	G347AP	430	\$920.00
ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7560 and T7561. Upgrades mobile from Smartnet to Smartzone.	G347AR	430	\$460.00
ENH: ASTRO P25 TRUNK SOFTWARE	includes G/Q173 (Omnalink)	G361AJ	430	\$345.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AB	430	\$518.00
ADD: DVRS MSU ACTIVATION APX MOBILE	-	GA00631AB	430	\$288.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: MLTCST VOTNG SCAN-SPECTRA	-	G387AE	430	\$230.00
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (G947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AW	430	\$115.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AB	430	\$173.00
ENH: EXTENDED DISPATCH APX CONSOLETTTE	This option enables the extended dispatch functionality on Conventional Channels ONLY.	GA00469AB	430	\$575.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires G361.	GA01767AH	430	\$115.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AW	430	\$288.00

Software

Description	Full Description	Nomenclature	APC	Price

ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$76.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION P25 AND MDC OTAR	-	G298AU	430	\$851.00
ENH: MULTI KEY OPERATION	-	W969BJ	430	\$380.00
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$172.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	-	G445AB	430	\$173.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00
ENH: APX DUAL RADIO SOFTWARE FLP	-	GA01058	430	\$650.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7558	ANALOG CONVENTIONAL	430	4
PORTABLES	SCB	T7559	DIGITAL CONVENTIONAL	430	9
PORTABLES	SCB	T7560	ANALOG SMARTNET	430	14
PORTABLES	SCB	T7561	DIGITAL SMARTNET	430	14
PORTABLES	SCB	T7562	DIGITAL SMARTZONE	430	7
PORTABLES	SCB	T7563	ANALOG SMARTZONE	430	7
PORTABLES	SCB	T7656	TDMA	430	6
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[HAZLOC APPROVED ACCESSORIES \(DIV 2\)](#)

[SHIP CARD](#)

Model



APX™ 8000 P25 All-Band Portable Radio

700/800 MHz

VHF

UHF R1 & UHF R2



Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Effective September, 2018: The APX 8000 models, when ordered with battery options PMNN4504 or PMNN4505 are listed by UL to non-incendive standards: ISA 12.12.01-2015 and CAN/CSA C22.2 No. 213-15 as safe for use in Class I, Division 2, Groups A,B,C,D; Class II, Division 2, Groups F,G; Class III, Division 2 Hazardous (Classified) Locations. Non-Incendive (Non Incendiaire).

The APX 8000 models must be ordered with either QA05594, QA05595, QA07571 or QA07573 alternative battery options in order to be certified by UL for "Div 2."

Ordering Information

Ordering Guide

Standard Features

All ASTRO Digital APX 8000 models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- One Touch/Status Message (H46)
- Radio Trace/Remote Monitor (H43)
- Enhanced Zone Bank (QA01768)

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 Battery (PMNN4486)
- IP68 (2 m, 2 hr)
- All-Band Antenna (KT000026A01)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW5 N	579	\$5,777.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$5,983.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW7 N	579	\$6,292.00

Operation Mode (*Must Select One*)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or	H38	655	\$1,500.00

	WACN KEY will still REQUIRE a DVN4046 to be purchased.			
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	H38	655	\$1,500.00

OPERATION	HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.			
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2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr). Will provide "APX 8000R" nameplate. If a UL Div 2 Battery is required, please order QA07571 or QA07573.	H499	655	\$150.00
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$25.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$25.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)

System Enhancement Options (Optional)

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Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Now requires a pin # not a dongle.	Q53	655	\$150.00

ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ENH: TACTICAL RADIO STW-	Tactical Stun Kill Requires AES, Not compatible with	H02	481	\$75.00

STUN/KILL	DVR MSU QA00631.			
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (WiFi)	GA09011	681	\$100.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is	QA01648AA	0655	\$5.00

	entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.			
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Algorithm Types(Optional)

All APX 8000 Radios ship P25 “clear” (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Multikey is required for use of more than one key. Includes ADP. To be P25 CAP Compliant, must be ordered with AES.	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	655	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15AJ	0655	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price

ENH: MULTIKEY	Required when using more than one encryption algorithm or encryption key	H869	655	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)

Battery (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the Li-Ion IMPRES 2 3400mAh (PMNN4486) standard battery for APX 8000 and APX7000/L. The option will delete the IMPRES Lilon 3400mAh standard battery (PMNN4504) for APX 8000XE.	H207EY	0655	\$0.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$115.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$135.00

UL Div 2 Batteries (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
	This option will delete the			

ALT: BATT IMPRES 2 LIION DIV2 3400	standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504).	QA05594	579	\$130.00
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$145.00
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 3400	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504). Requires H499.	QA07571	579	\$50.00
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505). Requires H499.	QA07573	579	\$75.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)

ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$29.00
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Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio			

CANADA	equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00
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Documentation *(Optional)*

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$25.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
UNIVERSAL HOLDER FOR STD MODELS	-	PMLN7901A	271	\$32.00

Software and Services

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000XE all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP

Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

WI-FI

APX 8000 supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to "MyNetwork" and security type will be set to "None".
- c. The default state of Wi-Fi will be "on".

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to "MyNetwork" (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000 P25 Portable Radios are part of the FLASHport Program. This means that APX 8000 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades. The APX 8000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies
768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4
		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6
		518.2

HazLoc Approved Accessories (Div 2)

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX 8000.

Description	Model
Remote Speaker Microphone with Jack	HMN4101B
Display Remote Speaker Microphone with Jack	HMN4103B
Display Remote Speaker Microphone with Jack and Channel Selector	HMN4104B
Secondary Audio Accessory for Display Remote Speaker Microphone	RLN6424B
XE RSM with High Temperature Cable	NNTN8575A
XE RSM Black with High Temperature Cable	NNTN8575ABLK
IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, Black	PMLN6129A
Receive-Only Earpiece with Translucent Tube, 3.5 mm Jack, Short Coiled Cable	RLN4941A
Remote Speaker Microphone, IMPRES Wind porting IP55 3.5 mm Jack	PMMN4099A
1 Wire Receive-only Surveillance Kit with Translucent Tube, Black, Requires BDN6783	RLN5313B
Temple transducer	RMN5116A
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
Remote Speaker Microphone	PMMN4106B
Remote Speaker Microphone	PMMN4106ABLK
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
IMPRESS 2 Wire with Translucent Tube Black	PMLN7565A
IMPRES ANC RSM UL/Long CBL/NEX/3.5	PMMN4102B

IMPRES ANC RSM UL/Long CBL/NEX/3.5/Green	PMMN4102BGRN
IMPRES OMNI RSM Long CBL/NEX/3.5	PMMN4113A
Earpiece, ENH ATEX 3.5mm Earpiece with Translucent Tube	PMLN7188B
Remote Speaker Microphone, IP68	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW5 N	APX 8000 ALL BAND PORTABLE MODEL 1.5	579	7
PORTABLES	FSC	H91TGD9PW6 N	APX 8000 ALL BAND PORTABLE MODEL 2.5	579	5
PORTABLES	FSC	H91TGD9PW7 N	APX 8000 ALL BAND PORTABLE MODEL 3.5	579	4
ACCESSORY	PDC	PMLN7901A	UNIVERSAL HOLDER FOR STD MODELS	271	8

APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	

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[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES
For APX 8000 Radios

Updates

NOTE: only the accessories listed below have been certified with APX 8000 radios

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone which has been designed specifically for harsh conditions for the fireground. And the APX Mission Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: many of the below categories contain hyperlinks. External links need to be opened in a New Tab or New Window

Configuration

2-Way Radio Accessories

Antennas

Description	Full Description	Nomenclature	APC	Price
APX 7000 GPS STUBBY ANTENNA	This antenna is needed when a user has a Public Safety Microphone attached to the radio and still requires GPS capability. Attaches to the APX radio directly and is only used when the radio is operating in a single band configuration of UHF or 700/800 MHz.	NAG4000	555	\$18.00
UHF2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$60.00
UHF (380-520) /7-800 GPS	-	PMAS4001A	555	\$31.00
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00
UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$60.00
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00
APX PSM 700/800MHZ ANTENNA	This antennas is tested and certified to work with the PSM on the APX 6000/XE/Li and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in.. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band): UHF frequencies- RF will not route to the PSM antenna port; RF will	PMAF4002	372	\$12.00

	route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna			
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Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION R IP68 5100T	-	PMNN4494	453	\$198.00
BATT IMPRES 2 LIION R IP68 3400T	-	PMNN4486	453	\$163.00
BATT IMPRES 2 LIION R IP68 4850T	-	PMNN4487	453	\$189.00
BATT IMPRES 2 LIION R IP68 2550T	-	PMNN4485	453	\$146.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	NNTN8844A contains USA power cord. If needed please order one of the power cords listed below.	NNTN8844A	785	\$1,375.00
CHR IMP DISP DUC EXT US/NA/CA/LA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$165.00
CHARGER,CHR IMP VEH EXT NA/EU KIT	-	NNTN7624C	785	\$472.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	-	NNTN8863A	785	\$187.00

Battery Fleet Management

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Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFCE UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00

IMPRES Battery Fleet Management Software can be downloaded [here](#).

Bluetooth Mission Critical Wireless

Note: requires Bluetooth option to be ordered in the APX radio

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
WIRELESS 2.0 COMMPORT IC	Mission Critical Wireless			

MODULE	Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$350.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$700.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,100.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00

EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$156.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00

Belt Clips / Belt Loops / Radio Straps

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT, FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00
CARRY ACCESSORY-BELT CLIP, KIT, BELT CLIP STUD (PACK OF 5)	-	NNTN8749A	372	\$75.00

3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$12.00
APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$12.00
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$12.00
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00
2.5" PLASTIC BELT CLIP ATTACHMENT	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$12.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$50.00
APX6000 CC 3 FIX BL 4200MAH	-	PMLN5660B	271	\$69.00
BREAKAWAY CHEST PACK	-	RLN4570A	271	\$54.25
APX6000 CC 2.75 SWL BL 4200MAH	-	PMLN5659B	271	\$74.00
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
ACCESSORY KIT,MOLDED NYLON CARRY CASE	-	PMLN6802A	271	\$55.00

W/SWIVEL				
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. * (HT750, HT1250, HT1250?LS+ & HT1550? XLS - not compatible with UHF models)	HLN6602	271	\$38.00

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX	RMN5132A	742	\$147.00

	radios require RSM: PMMN4062, PMMN4069 or PMMN4084			
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	-	RMN4057	742	\$131.00

Hearing Protection

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50

ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
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Public Safety Microphones (PSMs)

Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
	IMPRES Display RSM with Audio Jack, Channel Selector, Volume			

IMPRES RSM DSPLY W JACK, W CHNL	Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4104B	372	\$454.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4103B	372	\$345.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2- Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4101B	372	\$330.00
IMPRES RSM DELTA-T,	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083A	742	\$125.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00
	IMPRES Windporting RSM			

AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1- Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$325.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1- Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$300.00
"AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	-	PMMN4106B	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	-	PMMN4106BLK	372	\$616.00
XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	-	PMMN4107A	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	-	PMMN4107ABLK	372	\$550.00

Remote Speaker Microphones (RSMs) Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$340.00
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$90.00
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$175.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5080370E97	742	\$29.25
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber eartips	67009254001	742	\$9.95
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$7.90
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00

RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00
RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN6424BXL	742	\$120.00

Surveillance Kits (Wired)

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5313B	742	\$55.50
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$108.00
1 WIRE SURVEILLANCE	1-Wire Receive-only earpiece,	PMLN6126A	742	\$41.25

KIT-BIEGE	beige. FM Approved			
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$126.00

Surveillance (Wired) Accessory Replacement Parts

Description	Full Description	Nomenclature	APC	Price
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
REPLACEMENT EAR TIPS, CLEAR- 50/PAK	-	RLN6282A	742	\$45.25
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50

Tactical Kit

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	-	PMLN6767A	742	\$182.00
ACCESSORY KIT,TACTICAL BOOMLESS				

TEMPLE TRANSDUCER	-	PMLN6766A	742	\$377.00
ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	-	PMLN6827A	742	\$234.00
ACCESSORY KIT,TACTICAL EAR MICROPHONE	-	PMLN6829A	742	\$325.00
ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	-	PMLN6830A	742	\$52.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795	4
FIXEDSTN	CDP	30009402001	RSM REPLACEMENT CABLE	372	5
FIXEDSTN	CDP	30009402002	RSM REPLACEMENT CABLE ASSEMBLY	372	5
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372	3
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	2
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	0

PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	63
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742	25
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742	5
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
FIXEDSTN	CDP	AY000223A01	CARRY ACCESSORY- STRAP,WITH BUTTON BACK HOLDER	271	4
FIXEDSTN	CDP	AY000229A01	CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	271	14
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3

PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	CDP	KT000026A01	KIT, ANTENNA, ALL-BAND, 20CM	555	5
FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2
FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372	6
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION,	372	6

			3.5MM THRD JACK		
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11

FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8361A	EARTIPS, BULK REPLACEMENT	742	3
FIXEDSTN	CDP	NNTN8442A	MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	742	4
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372	3
FIXEDSTN	CDP	NNTN8749A	CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	372	3
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	785	6
FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7

FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7
FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742	5
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115	2
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115	10

FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
			1 WIRE SURVEILLANCE KIT-		

FIXEDSTN	CDP	PMLN6125A	BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7

FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6246A	WIRELESS POD SWIVEL CLIP	742	2
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10
FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3

ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
FIXEDSTN	CDP	PMMN4106B	"AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	372	6
FIXEDSTN	CDP	PMMN4106BBLK	APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	372	5
			XE500 REMOTE SPEAKER		

FIXEDSTN	CDP	PMMN4107A	MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
FIXEDSTN	CDP	PMPN4027A	PWR SUPPLY, SMPS, MICRO USB-NA	785	1
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5

PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4

PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
ACCESSORY	CDP	RLN4941AXL	REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	3
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
FIXEDSTN	CDP	RLN5314B	RECEIVE ONLY SURV KIT(BEIGE)/NOISE	742	15
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6

PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
ACCESSORY	CDP	RLN6424BXL	RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	7
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
			ACCESSORY KIT,FIREMAN'S		

FIXEDSTN	CDP	RLN6487A	RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6489A	COVERT PACK-N-GO KIT	742	5
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742	4
FIXEDSTN	CDP	RLN6501A	COVERT PACK-N-GO KIT, ADVANCED	742	15
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372	7
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372	8
			RX ONLY HDBND HDST 3.5MM RT		

PARTS	CDP	RMN4055B	ANGLE P	742	20
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742	5
PARTS	CDP	RMN4057	RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	742	4
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY- HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**ASTRO® Digital APX 8000/XE
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems**



Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 8000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios.

Ordering Requirements

1. **Specify** the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T8549, T8550, T8553, T8554, T8627)

2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.

3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.

4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.

6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.

7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T8549	T8550	T8553	T8554	T8627
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	DIGITAL SMARTZONE®	ANALOG SMARTZONE®	TDMA®
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					
ENH: Upgrade Conventional to SMARTNET® Q326AU	X	X	N/A	N/A	N/A
ENH: Upgrade Conventional to SMARTZONE® Q327BH	X	X	N/A	N/A	N/A

ENH: Upgrade SMARTNET® to SMARTZONE® Q327BJ	N/A	N/A	N/A	N/A	N/A
ENH: TDMA Operation QA00580	N/A	N/A	N/A	N/A	N/A
ENH: Conventional Vote Scan Q387	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Radio Packet Data Q947	N/A	X	X	N/A	X
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	X	N/A	X
ENH: SMARTZONE® Omnilink (Non-P25) Q173	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking Q361	N/A	N/A	X	N/A	N/A
ENH: Enable Dual Band Operation QA00579	X	X	X	X	X
ENH: Enable Internal GPS Operation QA00782	N/A	X	X	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey Operation H869	X	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the APX 8000/XE price pages.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO® Digital APX 8000/XE radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® DIGITAL APX 8000 and ASTRO® DIGITAL APX 8000XE price pages are accessible through the select list pulldown above.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8549	430	\$0.00
DIGITAL CONVENTIONAL	-	T8550	147	\$0.00
DIGITAL SMARTZONE	-	T8553	430	\$0.00
ANALOG SMARTZONE	-	T8554	430	\$0.00
TDMA	-	T8627	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AK	430	\$592.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$86.25
ENH: SMARTZONE OMNILINK	-	Q173AY	430	\$230.00

(NON-P25)				
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	Compatible with T7549 and T7550	Q327BH	430	\$920.00
ENH: P25 9600 BAUD TRUNKING	-	Q361AP	430	\$345.00
ENH: TDMA OPERATION	Requires Q808 (Digital), Q327 (Smartzone), Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AB	430	\$518.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$115.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$230.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$173.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered	QA01648AC	430	\$5.75

	instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.			
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$115.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX8000/XE and APX6000/XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000Li or APX6000/XE and SRX2200 AN Models.	QA09001AC	430	\$345.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$173.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales	QA01843AB	430	\$173.00

	representative for further details.			
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AB	430	\$173.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011AB	430	\$115.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

ADD Frequency Bands

Description	Full Description	Nomenclature	APC	Price
ENH: 7/800 MHZ BAND FLP	-	QA00569AL	430	\$1,000.00
ENH: VHF MHZ BAND FLP	-	QA00570AN	430	\$1,000.00
ENH: UHF MHZ BAND FLP	-	QA09002AC	430	\$1,000.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869BX	430	\$380.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$851.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$172.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$173.00

Software License

Description	Full Description	Nomenclature	APC	Price

ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T8549	ANALOG CONVENTIONAL	430	2
PORTABLES	SCB	T8550	DIGITAL CONVENTIONAL	147	14
PORTABLES	SCB	T8553	DIGITAL SMARTZONE	430	8
PORTABLES	SCB	T8554	ANALOG SMARTZONE	430	17
PORTABLES	SCB	T8627	TDMA	430	5
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[SHIP CARD](#)

Model



APX™ 8000H P25 All-Band Portable Radio

700/800 MHz

VHF

UHF R1 & UHF R2



Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

HAZARDOUS LOCATION

The APX 8000H will ship standard with PMNN4547. The APX 8000H is certified by Underwriters' Laboratory when properly equipped with the standard battery, PMNN4547. There is no option to delete this battery on this model.

When equipped with Motorola Battery PMNN4547, the APX 8000H models are certified as intrinsically safe for use in ANSI/TIA 4950-A ; Classification Rating Class I, Division 1, Groups C, D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B,

C, D; T3C. Tamb = -25° C to +60° T3C.

Canada Customers: When equipped with Motorola Battery PMNN4547, the APX 8000H models are certified as intrinsically safe for use in CAN/CSA C22.2 NO. 157-92; Classification Rating Class I, Division 1, Group D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° T3C.

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000H all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$6,683.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$6,992.00

Operation Mode (*Must Select One*)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in	H38	655	\$1,500.00

OPERATION	trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.			
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED			

ADD: SMARTZONE OPERATION	to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00
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2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2 m, 4 hr) testing. Will provide "APX 8000HR" nameplate.	H499	655	\$150.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
	Requires Q806, H38,			

ADD: TDMA OPERATION	Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A)to be purchased.	Q53	655	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$150.00
ADD: SITE SELECTABLE	-	QA00982	656	\$150.00

ALERT FOR P25 TRUNKING				
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00
	Enables Wi-Fi capability in the radio. Supports codeplug updates,			

ADD: WIFI CAPABILITY	firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$100.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Algorithm Types(Optional)

All APX 8000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES. Non-P25 CAP Compliant option.	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP	Q15AJ	0655	\$799.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)

Battery (Optional- Can Only Select One)**HAZLOC Approved**

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07739	673	\$75.00
ADD: BATT IMPRES 2 LIION TIA4950 IP68	Requires H499 This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$165.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder, PMLN7901.	H301	655	(\$10.00)

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00

Documentation (Optional)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00
ADD: APX8000H USER GUIDE	-	H88	673	\$25.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
UNIVERSAL HOLDER FOR STD MODELS	-	PMLN7901A	271	\$32.00

Software and Services

WI-FI

APX 8000H supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000H.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000H, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000H P25 Portable Radios are part of the FLASHport Program. This means that APX 8000H hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades. The APX 8000H portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000H.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies

768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4
		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6
		518.4

HazLoc Approved Accessories

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX 8000H.

Description	Model
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
OTH headset	PMLN7467A
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
1-Wire Surveillance Kit-BLK	PMLN7561A

1-Wire Surveillance Kit-BGE	PMLN7562A
IMPRES 2-Wire Surveillance-BLK	PMLN7563A
IMPRES 2-Wire Surveillance-BGE	PMLN7564A
IMPRES 2-Wire with Transparent Tube BLK	PMLN7565A
IMPRES 2-Wire with Transparent Tube BGE	PMLN7566A
IMPRES 3-Wire with Transparent Tube BLK	PMLN7567A
IMPRES 3-Wire with Transparent Tube BGE	PMLN7568A
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5 mm	PMMN4102B
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5/Green	PMMN4102BGRN
IMPRES OMNI Remote Speaker Microphone Long Cable/NEX/ 3.5 mm	PMMN4113A
Earpiece, ENH ATEX 3.5 mm Earpiece with Transparent Tube	PMLN7188B
Remote Speaker Microphone	PMMN4099A
Remote Speaker Microphone, High Impact Green	PMMN4106B
Remote Speaker Microphone	PMMN4106BBLK
Surveillance Kit	PMLN6123A
Surveillance Kit	PMLN6124A
Earpiece	PMLN6125A
Earpiece	PMLN6126A
Surveillance Kit	PMLN6127A
Surveillance Kit	PMLN6128A
Surveillance Kit	PMLN6129A

Surveillance Kit	PMLN6130A
Earpiece	BDN6666A
Earpiece	BDN6668A
Earpiece	BDN6726A
Earpiece	BDN6727A
Earpiece	BDN6728A
Earpiece	BDN6729A
Earpiece	BDN6730A
Earpiece	BDN6731A
Earpiece	BDN6732A
Remote Speaker Microphone	NNTN8235A
Remote Speaker Microphone	NNTN8236A
Remote Speaker Microphone	PMMN4040A
Remote Speaker Microphone	PMMN4062A
Remote Speaker Microphone	PMMN4065A
Remote Speaker Microphone	PMMN4069A
Earpiece	PMLN4620B
Earset	PMLN5096B
Headset	PMLN5275C
Headset	PMLN6853A

Earpiece	RLN4941A
Public Safety Microphone	PMMN4059B
Public Safety Microphone	PMMN4060B
Public Safety Microphone	PMMN4061B
Surveillance Kit	RLN5313B
Earbud	RLN4885B
Audio Accessory Adaptor, 3.5 mm, with PTT	BDN6783B
Remote Speaker Microphone	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Remote Speaker Microphone	PMMN4024A
Remote Speaker Microphone	PMMN4025A
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B
Headset, Headband	RMN5137B
Headset, Neckband	RMN5138B
Headset, Hard Hat Attach Mounted	RMN5139B
Remote Speaker Microphone	PMMN4106D
Remote Speaker Microphone	PMMN4107C
Remote Speaker Microphone	PMMN4106CBLK
Remote Speaker Microphone	PMMN4107BBLK

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
			RECEIVE ONLY EARPIECE		

PARTS	CDP	BDN6727	WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1

PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW5 N	APX 8000 ALL BAND PORTABLE MODEL 1.5	579	7
PORTABLES	FSC	H91TGD9PW6 N	APX 8000 ALL BAND PORTABLE MODEL 2.5	579	5
PORTABLES	FSC	H91TGD9PW7 N	APX 8000 ALL BAND PORTABLE MODEL 3.5	579	4
PORTABLES	FSC	H91TGD9PW8 N	APX 8000H ALL BAND PORTABLE MODEL 2.5	673	45

PORTABLES	FSC	H91TGD9PW9 N	APX 8000H ALL BAND PORTABLE MODEL 3.5	673	45
FIXEDSTN	CDP	NNTN8235A	SRX REMOTE SPEAKER MIC (IP57)	372	5
FIXEDSTN	CDP	NNTN8236A	SRX IMPRES REMOTE SPEAKER MIC	372	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2

FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1

FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6853	AUDIO ACCESSORY- HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	742	3
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM EARPIECE W/TRAN TUBE	372	25
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM EARPIECE W/TRAN TUBE	372	25
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
ACCESSORY	PDC	PMLN7901A	UNIVERSAL HOLDER FOR STD MODELS	271	8
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12

PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
			IMPRES RSM, NOISE CANC.		

FIXEDSTN	PGF	PMMN4062A	EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
ACCESSORY	CDP	PMMN4099B	IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	372	15
ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102BGRN	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5/GREEN	372	9
ACCESSORY	CDP	PMMN4106CBLK	XE500 BLACK HOSUING, CHANNEL KNOB, XTREME TEMPERATURE CABLE	372	6
FIXEDSTN	CDP	PMMN4107A	XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8

ACCESSORY	PGF	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	20
ACCESSORY	RNS	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	25
APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
ACCESSORY	CDP	RMN5137B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79A-97	742	4
ACCESSORY	CDP	RMN5138B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79B-97	742	4
ACCESSORY	CDP	RMN5139B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79P3E-	742	3



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[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[SHIP CARD](#)

Model



APX™ 8000H with SRX Enhancement P25 All-Band Portable Radio

700/800 MHz

VHF

UHF R1 & UHF R2

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

HAZARDOUS LOCATION

The APX 8000H will ship standard with PMNN4547. The APX 8000H is certified by Underwriters' Laboratory when properly equipped with the standard battery, PMNN4547. There is no option to delete this battery on this model.

When equipped with Motorola Battery PMNN4547, the APX 8000H models are certified as intrinsically safe for use in ANSI/TIA 4950-A ; Classification Rating Class I, Division 1, Groups C, D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B,

C, D; T3C. Tamb = -25° C to +60° T3C.

Canada Customers: When equipped with Motorola Battery PMNN4547, the APX 8000H models are certified as intrinsically safe for use in CAN/CSA C22.2 NO. 157-92; Classification Rating Class I, Division 1, Group D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° T3C.

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000H all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

Ordering Information

[Ordering Guide](#)

Standard Features

All ASTRO Digital APX 8000H models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Radio Stun/Kill (H02)
- Night Vision Goggle Profile
- Programming Over P25 (OTAP)
- One Touch/Status Message (H46)
- Radio Trace/Remote Monitor (H43)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- **BLACK IMPRES 2 Battery (PMNN4547)**
- All-Band Antenna (KT000026A01)
- Coyote Brown Housing

- Enhanced Zone Bank (QA01768)
- SRX Control Top
- Covert Motorola Medallion
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad
- MIL-STD Delta-T, IP68 submersion (2m, 4hr)

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

APX 8000H with the SRX Enhancement Package must be ordered with the following options: QA02590 (SRX Enhancement Package)

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$6,683.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$6,992.00

1B: SRX Enhancement Package (*Must Select for APX 8000H with SRX Enhancement*)

Description	Full Description	Nomenclature	APC	Price
ENH: SRX ENHANCEMENT PACKAGE	Provides for Radio Stun/Kill, Night Vision Goggle Profile, OTAP and the Coyote Brown Housing.	QA02590	673	\$575.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a	H38	655	\$1,500.00

	DVN4046 to be purchased.			
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2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)

DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)
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System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$150.00

ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless			

ADD: WIFI CAPABILITY	networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011	681	\$100.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Algorithm Types(Optional)

All APX 8000 Radios ship P25 “clear” (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES . Non-P25 CAP Compliant option	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15AJ	0655	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$330.00

ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00
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Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder, PMLN7901.	H301	655	(\$10.00)

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL				

SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00

Documentation *(Optional)*

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS /	-	H799BB	0579	\$10.00

RATED AUDIO PRINTOUT				
ADD: APX8000H USER GUIDE	-	H88	673	\$25.00

Software and Services

WI-FI

APX 8000H supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000H.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000H, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000H P25 Portable Radios are part of the FLASHport Program. This means that APX 8000H hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades. The APX 8000H portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000H.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies
768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4
		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6

HazLoc Approved Accessories

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX 8000H.

Description	Model
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
OTH headset	PMLN7467A
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
1-Wire Surveillance Kit-BLK	PMLN7561A
1-Wire Surveillance Kit-BGE	PMLN7562A
IMPRES 2-Wire Surveillance-BLK	PMLN7563A
IMPRES 2-Wire Surveillance-BGE	PMLN7564A
IMPRES 2-Wire with Transparent Tube BLK	PMLN7565A
IMPRES 2-Wire with Transparent Tube BGE	PMLN7566A
IMPRES 3-Wire with Transparent Tube BLK	PMLN7567A
IMPRES 3-Wire with Transparent Tube BGE	PMLN7568A
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5 mm	PMMN4102B
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5/Green	PMMN4102BGRN
IMPRES OMNI Remote Speaker Microphone Long Cable/NEX/ 3.5 mm	PMMN4113A

Earpiece, ENH ATEX 3.5 mm Earpiece with Transparent Tube	PMLN7188B
Remote Speaker Microphone	PMMN4099A
Remote Speaker Microphone, High Impact Green	PMMN4106B
Remote Speaker Microphone	PMMN4106BBLK
Surveillance Kit	PMLN6123A
Surveillance Kit	PMLN6124A
Earpiece	PMLN6125A
Earpiece	PMLN6126A
Surveillance Kit	PMLN6127A
Surveillance Kit	PMLN6128A
Surveillance Kit	PMLN6129A
Surveillance Kit	PMLN6130A
Earpiece	BDN6666A
Earpiece	BDN6668A
Earpiece	BDN6726A
Earpiece	BDN6727A
Earpiece	BDN6728A
Earpiece	BDN6729A
Earpiece	BDN6730A
Earpiece	BDN6731A
Earpiece	BDN6732A

Remote Speaker Microphone	NNTN8235A
Remote Speaker Microphone	NNTN8236A
Remote Speaker Microphone	PMMN4040A
Remote Speaker Microphone	PMMN4062A
Remote Speaker Microphone	PMMN4065A
Remote Speaker Microphone	PMMN4069A
Earpiece	PMLN4620B
Earset	PMLN5096B
Headset	PMLN5275C
Headset	PMLN6853A
Earpiece	RLN4941A
Public Safety Microphone	PMMN4059B
Public Safety Microphone	PMMN4060B
Public Safety Microphone	PMMN4061B
Surveillance Kit	RLN5313B
Earbud	RLN4885B
Audio Accessory Adaptor, 3.5 mm, with PTT	BDN6783B
Remote Speaker Microphone	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Remote Speaker Microphone	PMMN4024A

Remote Speaker Microphone	PMMN4025A
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B
Headset, Headband	RMN5137B
Headset, Neckband	RMN5138B
Headset, Hard Hat Attach Mounted	RMN5139B
Remote Speaker Microphone	PMMN4106D
Remote Speaker Microphone	PMMN4107C
Remote Speaker Microphone	PMMN4106CBLK
Remote Speaker Microphone	PMMN4107BBLK

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5

			WIRE)		
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5

PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3

FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW5 N	APX 8000 ALL BAND PORTABLE MODEL 1.5	579	7
PORTABLES	FSC	H91TGD9PW6 N	APX 8000 ALL BAND PORTABLE MODEL 2.5	579	5
PORTABLES	FSC	H91TGD9PW7 N	APX 8000 ALL BAND PORTABLE MODEL 3.5	579	4
PORTABLES	FSC	H91TGD9PW8 N	APX 8000H ALL BAND PORTABLE MODEL 2.5	673	45
PORTABLES	FSC	H91TGD9PW9 N	APX 8000H ALL BAND PORTABLE MODEL 3.5	673	45
FIXEDSTN	CDP	NNTN8235A	SRX REMOTE SPEAKER MIC (IP57)	372	5
FIXEDSTN	CDP	NNTN8236A	SRX IMPRES REMOTE SPEAKER MIC	372	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5

ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-	742	4

			BIEGE		
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6853	AUDIO ACCESSORY- HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	742	3
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM EARPIECE W/TRAN TUBE	372	25
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM	372	25

			EARPIECE W/TRAN TUBE		
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
			PSM IP55 WITH 3.5MM JACK RX		

FIXEDSTN	CDP	PMMN4060B	24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
ACCESSORY	CDP	PMMN4099B	IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	372	15

ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102BGRN	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5/GREEN	372	9
ACCESSORY	CDP	PMMN4106CBLK	XE500 BLACK HOSUING, CHANNEL KNOB, XTREME TEMPERATURE CABLE	372	6
FIXEDSTN	CDP	PMMN4107A	XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8
ACCESSORY	PGF	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	20
ACCESSORY	RNS	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	25
APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE	742	7

			W/TRANSLUCENT TUBE		
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
ACCESSORY	CDP	RMN5137B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79A-97	742	4
ACCESSORY	CDP	RMN5138B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79B-97	742	4
ACCESSORY	CDP	RMN5139B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79P3E-	742	3

JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE AND SERVICES](#)[SHIP CARD](#)**Model****APX™ 8000HXE P25 All-Band Portable Radio****700/800 MHz****VHF****UHF R1 & UHF R2****Updates**

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

HAZARDOUS LOCATION

The APX 8000HXE will ship standard with PMNN4547. The APX 8000HXE is certified by Underwriters' Laboratory when properly equipped with the standard battery, PMNN4547. There is no option to delete this battery on this model.

When equipped with Motorola Battery PMNN4547, the APX 8000HXE models are certified as intrinsically safe for use in ANSI/TIA 4950-A ; Classification Rating Class I, Division 1, Groups C, D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° T3C.

Canada Customers: When equipped with Motorola Battery PMNN4547, the APX 8000HXE models are certified as intrinsically safe for use in CAN/CSA C22.2 NO. 157-92; Classification Rating Class I, Division 1, Group D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° T3C.

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000HXE all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

Ordering Information

[Ordering Guide](#)

Standard Features

All ASTRO Digital APX 8000HXE models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Extreme 1-Sided Noise Reduction (QA01833)
- One Touch/Status Message (H46)
- Radio Trace/Remote Monitor (H43)
- Enhanced Zone Bank (QA01768)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio
- Carry Holder (PMLN7954)
- IMPRES 2 Battery (PMNN4547)
- All-Band Antenna (KT000026A01)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2

- Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad
- MIL-STD Delta-T, IP68 submersion (2m, 4hr)

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

APX 8000HXE must be ordered with the following options: QA02006 & QA01427

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$6,683.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$6,992.00
APX 8000H ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW4 N	673	\$6,477.00

1B: XE Housing (*Must Select for APX 8000HXE*)

Description	Full Description	Nomenclature	APC	Price
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ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$25.00
ENH: APX8000HXE RUGGED RADIO	-	QA02006	673	\$800.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
ADD: FRONT PANEL	The APX radio can do FPP on a Trunking equipped radio only on			

PROGRAMMING & CLONING	conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering	QA03399	656	\$150.00

	QA03399 (Enhanced Data)			
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$100.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is	QA01648AA	0655	\$5.00

	entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.			
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Algorithm Types(Optional)

All APX 8000 Radios ship P25 “clear” (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only) Non-P25 CAP Compliant option. Includes ADP.	Q625	655	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15AJ	0655	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP	Q667	430	\$0.00

Multikey Types (Optional)

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Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ADD: BATT IMPRES 2 LIION TIA4950 IP68	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$165.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price

DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the XE carry holder, PMLN7954.	H301	655	(\$10.00)
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Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this	HA00049	185	\$222.00

	option.			
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Documentation (*Optional*)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00
ADD: APX8000H USER GUIDE	-	H88	673	\$25.00

Software and Services

WI-FI

APX 8000HXE supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000HXE.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000HXe, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000HXE P25 Portable Radios are part of the FLASHport Program. This means that APX 8000HXE hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades. The APX 8000H portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000HXE.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies
768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4

		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6
		518.4

HazLoc Approved Accessories

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX 8000HXE.

Description	Model
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
OTH headset	PMLN7467A
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
1-Wire Surveillance Kit-BLK	PMLN7561A
1-Wire Surveillance Kit-BGE	PMLN7562A
IMPRES 2-Wire Surveillance-BLK	PMLN7563A
IMPRES 2-Wire Surveillance-BGE	PMLN7564A

IMPRES 2-Wire with Transparent Tube BLK	PMLN7565A
IMPRES 2-Wire with Transparent Tube BGE	PMLN7566A
IMPRES 3-Wire with Transparent Tube BLK	PMLN7567A
IMPRES 3-Wire with Transparent Tube BGE	PMLN7568A
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5 mm	PMMN4102B
IMPRES ANC Remote Speaker Microphone UL/Long Cable/ NEX/3.5/Green	PMMN4102BGRN
IMPRES OMNI Remote Speaker Microphone Long Cable/NEX/ 3.5 mm	PMMN4113A
Earpiece, ENH ATEX 3.5 mm Earpiece with Transparent Tube	PMLN7188B
Remote Speaker Microphone	PMMN4099A
Remote Speaker Microphone, High Impact Green	PMMN4106B
Remote Speaker Microphone	PMMN4106BBLK
Surveillance Kit	PMLN6123A
Surveillance Kit	PMLN6124A
Earpiece	PMLN6125A
Earpiece	PMLN6126A
Surveillance Kit	PMLN6127A
Surveillance Kit	PMLN6128A
Surveillance Kit	PMLN6129A
Surveillance Kit	PMLN6130A
Earpiece	BDN6666A

Earpiece	BDN6668A
Earpiece	BDN6726A
Earpiece	BDN6727A
Earpiece	BDN6728A
Earpiece	BDN6729A
Earpiece	BDN6730A
Earpiece	BDN6731A
Earpiece	BDN6732A
Remote Speaker Microphone	NNTN8235A
Remote Speaker Microphone	NNTN8236A
Remote Speaker Microphone	PMMN4040A
Remote Speaker Microphone	PMMN4062A
Remote Speaker Microphone	PMMN4065A
Remote Speaker Microphone	PMMN4069A
Earpiece	PMLN4620B
Earset	PMLN5096B
Headset	PMLN5275C
Headset	PMLN6853A
Earpiece	RLN4941A
Public Safety Microphone	PMMN4059B
Public Safety Microphone	PMMN4060B

Public Safety Microphone	PMMN4061B
Surveillance Kit	RLN5313B
Earbud	RLN4885B
Audio Accessory Adaptor, 3.5 mm, with PTT	BDN6783B
Remote Speaker Microphone	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Remote Speaker Microphone	PMMN4024A
Remote Speaker Microphone	PMMN4025A
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B
Headset, Headband	RMN5137B
Headset, Neckband	RMN5138B
Headset, Hard Hat Attach Mounted	RMN5139B
Remote Speaker Microphone	PMMN4106D
Remote Speaker Microphone	PMMN4107C
Remote Speaker Microphone	PMMN4106CBLK
Remote Speaker Microphone	PMMN4107BBLK

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32

PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD	742	1

			EARPIECE - BLACK (3 WIRE)		
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW4 N	APX 8000H ALL BAND PORTABLE MODEL 1.5	673	5
PORTABLES	FSC	H91TGD9PW8 N	APX 8000H ALL BAND PORTABLE MODEL 2.5	673	45
PORTABLES	FSC	H91TGD9PW9 N	APX 8000H ALL BAND PORTABLE MODEL 3.5	673	45
FIXEDSTN	CDP	NNTN8235A	SRX REMOTE SPEAKER MIC (IP57)	372	5
FIXEDSTN	CDP	NNTN8236A	SRX IMPRES REMOTE SPEAKER MIC	372	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1

ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN4620B	D-SHELL RX-ONLY EARPIECE (3.5MM)	742	1
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5096B	CORE EARSET - D-SHELL	607	5
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
ACCESSORY	CDP	PMLN5275C	HEAVY DUTY HEADSET PMLN5275C	742	23
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6123A	IMPRES 3 WIRE W/ TRANS TUBE-BLK	742	2
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6124A	IMPRES 3 WIRE W/ TRANS TUBE-BGE	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4

FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE -BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE-BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7

FIXEDSTN	CDP	PMLN6853	AUDIO ACCESSORY- HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	742	3
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM EARPIECE W/TRAN TUBE	372	25
ACCESSORY	PDC	PMLN7188B	AUDIO ACCESSORY- EARPIECE,ENH ATEX 3.5MM EARPIECE W/TRAN TUBE	372	25
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
FIXEDSTN	CDP	PMLN7467A	AUDIO ACCESSORY- HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	742	2
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	PDC	PMMN4024A	LTD CORE RSM	372	12
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4025A	LTD SMART RSM	372	5
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12

PARTS	CDP	PMMN4040A	LTD IP57 REMOTE SPEAKER MICROPHONE	372	12
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
FIXEDSTN	PGF	PMMN4062A	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	372	25
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PDC	PMMN4065A	APX IMPRES RSM W/VOL, IP57	372	9
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3
PORTABLES	PGF	PMMN4069A	IMPRES RSM, 3.5MM AUDIO JACK	372	3

FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
ACCESSORY	CDP	PMMN4099B	IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	372	15
ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102B	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5	372	9
ACCESSORY	PDC	PMMN4102BGRN	AUDIO ACCESSORY-AUDIO ADAPTER,IMPRES ANC RSM UL/LONG CBL/NEX/3.5/GREEN	372	9
ACCESSORY	CDP	PMMN4106CBLK	XE500 BLACK HOSUING, CHANNEL KNOB, XTREME TEMPERATURE CABLE	372	6
FIXEDSTN	CDP	PMMN4107A	XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8
ACCESSORY	PGF	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	20
ACCESSORY	RNS	PMMN4113A	ACCESSORY KIT,IMPRES OMNI RSM LONG CBL/NEX/3.5	372	25
APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	

APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
ACCESSORY	CDP	RMN5137B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79A-97	742	4
ACCESSORY	CDP	RMN5138B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79B-97	742	4
ACCESSORY	CDP	RMN5139B	AUDIO ACCESSORY- HEADSET,3M PELTOR MT SERIES 2-WAY COMM HDST MT7H79P3E-	742	3

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[HAZLOC APPROVED ACCESSORIES \(DIV 2\)](#)

[SHIP CARD](#)

Model



APX™ 8000XE P25 All-Band Portable Radio

**700/800 MHz
VHF
UHF R1 & UHF R2**



Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Ordering Information

Standard Features

All ASTRO Digital APX 8000XE models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- 3 Programmable Side Buttons
- Orange Programmable Button

- GPS Software & Hardware (QA00782)
- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Extreme 1-Sided Noise Reduction (QA01833)
- One Touch/Status Message (H46)
- Radio Trace/Remote Monitor (H43)
- Enhanced Zone Bank (QA01768)
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 Battery with UL Certification for ISA 12.12.01-2015 and CAN /CSA C22.2 No. 213-15 (PMNN4504)
- MIL-STD Delta-T, IP68 (2 m, 4 hr)
- All-Band Antenna (KT000026A01)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

1A: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
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APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW5 N	579	\$5,777.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$5,983.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW7 N	579	\$6,292.00

1B: XE Housing (Must Select for APX 8000XE)

Description	Full Description	Nomenclature	APC	Price
ENH: APX8000XE RUGGED RADIO	-	QA02006	581	\$800.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
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ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Options

3: Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$25.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$25.00

4: Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)

5: RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	<p>Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.</p>	QA04526	655	\$25.00

6: System Enhancement Options (Optional)

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Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
	The APX radio can do FPP on a Trunking equipped			

ADD: FRONT PANEL PROGRAMMING & CLONING	radio only on conventional channels. Requires FPP HW dongle (NNTN7526A)to be purchased.	Q53	655	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00
	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires			

ADD: WIFI CAPABILITY	Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (WiFi)	GA09011	681	\$100.00

7: Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

8: Algorithm Types (Optional)

All APX 8000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.

Description	Full Description	Nomenclature	APC	Price
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ENH: DVP-XL ENCRYPTION	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option.	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	655	\$599.00
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15AJ	0655	\$799.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

9: Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

10: Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price

DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)
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11: Battery (Optional)

Division 2 Approved

Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$145.00

Not Compatible if Division 2 Certification is Required

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	0655	\$0.00

12: Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

13: Belt Clips/Carry Holders (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)

ALT: APX8000XE BASIC CARRY HOLDER	-	QA00779	579	\$29.00
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14: Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

15: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No	HA00049	185	\$222.00

	discounts are allowed on this option.			
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16: Documentation (Optional)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-PORTABLES	-	QA00205	579	\$0.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$25.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00

Software and Services

General Information

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000XE all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

The Master Key Start-Up Kit (DVN4046) is required to use the Hardware Key (QA01648) or to operate on a third-party trunking system if the customer does not already possess one, or if theirs has expired. [Please CLICK HERE](#) for further details regarding the DVN4046 Kit.

WI-FI

APX 8000XE supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available

aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000XE.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- Wi-Fi will be enabled.
- There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

BLUETOOTH 4.0 & EMERGENCY FIND ME

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000XE, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000XE P25 Portable Radios are part of the FLASHport Program. This means that APX 8000XE hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades. The APX 8000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000XE.

Fleet Management software was previously distributed on DVDs shipped out of Elgin. It is now downloadable from motsolutions.com at the link below. Look at the right edge of the page under Resources Spotlight. The first link is the Order Guide which tells you what you need. The second link is a free 90 day trial version that they can download and evaluate free for 90 days. The third link is the actual program, you need to purchase a license to use it (explained in the order guide).

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies
768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4
		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6
		518.4

HazLoc Approved Accessories (Div 2)

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX 8000XE.

Description	Model

Remote Speaker Microphone with Jack	HMN4101B
Display Remote Speaker Microphone with Jack	HMN4103B
Display Remote Speaker Microphone with Jack and Channel Selector	HMN4104B
Secondary Audio Accessory for Display Remote Speaker Microphone	RLN6424B
XE RSM with High Temperature Cable	NNTN8575A
XE RSM Black with High Temperature Cable	NNTN8575ABLK
IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, Black	PMLN6129A
Receive-Only Earpiece with Translucent Tube, 3.5 mm Jack, Short Coiled Cable	RLN4941A
Remote Speaker Microphone, IMPRES Wind porting IP55 3.5 mm Jack	PMMN4099A
1 Wire Receive-only Surveillance Kit with Translucent Tube, Black, Requires BDN6783	RLN5313B
Temple transducer	RMN5116A
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
Remote Speaker Microphone	PMMN4106B
Remote Speaker Microphone	PMMN4106ABBLK
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
IMPRESS 2 Wire with Translucent Tube Black	PMLN7565A
IMPRES ANC RSM UL/Long CBL/NEX/3.5	PMMN4102B
IMPRES ANC RSM UL/Long CBL/NEX/3.5/Green	PMMN4102BGRN

IMPRES OMNI RSM Long CBL/NEX/3.5	PMMN4113A
Earpiece, ENH ATEX 3.5mm Earpiece with Translucent Tube	PMLN7188B
Remote Speaker Microphone, IP68	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW5 N	APX 8000 ALL BAND PORTABLE MODEL 1.5	579	7
PORTABLES	FSC	H91TGD9PW6 N	APX 8000 ALL BAND PORTABLE MODEL 2.5	579	5
PORTABLES	FSC	H91TGD9PW7 N	APX 8000 ALL BAND PORTABLE MODEL 3.5	579	4
APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE AND SERVICES](#)

[HAZLOC APPROVED ACCESSORIES \(DIV 2\)](#)

[SHIP CARD](#)

[PRODUCT SPECIFICATIONS](#)

Model



APX™ 8000XE P25 All-Band Portable Radio

700/800 MHz

VHF

UHF R1 & UHF R2



Updates

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

Ordering Information

Standard Features

All ASTRO Digital APX 8000XE models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- GPS Software & Hardware (QA00782)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob

Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)

- ADP Privacy - Single Key
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Extreme 1-Sided Noise Reduction (QA01833)
- One Touch/Status Message (H46)
- Radio Trace/Remote Monitor (H43)
- Enhanced Zone Bank (QA01768)
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio
- Detachable Belt Clip (Model 1.5) / Carry Holder (Models 2.5 & 3.5)
- IMPRES 2 Battery with UL Certification for ISA 12.12.01-2015 and CAN /CSA C22.2 No. 213-15 (PMNN4504)
- MIL-STD Delta-T, IP68 (2 m, 4 hr)
- All-Band Antenna (KT000026A01)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

[ViQi Virtual Partner End to End Ordering Guide](#)

Configuration

Models

1A: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL		H91TGD9PW5		

1.5	-	N	579	\$5,777.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$5,983.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW7 N	579	\$6,292.00

1B: XE Housing (Must Select for APX 8000XE)

Description	Full Description	Nomenclature	APC	Price
ENH: APX8000XE RUGGED RADIO	-	QA02006	581	\$800.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL	-	Q806	579	\$515.00

CAI OPERATION				
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$515.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,500.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$800.00

Options

3: Housing (*Optional-Can Only Select One*)

Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$25.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$25.00

4: Delete Frequency Bands (*Optional. Can select a MAXIMUM of TWO*)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	0579	(\$800.00)

5: RFID Enabled Volume Knob (*Optional*)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	<p>Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.</p>	QA04526	655	\$25.00

6: System Enhancement Options (*Optional*)

Description	Full Description	Nomenclature	APC	Price
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ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$100.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$200.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$100.00
	The APX radio can do			

ADD: FRONT PANEL PROGRAMMING & CLONING	FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$150.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$150.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$150.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$75.00

ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (WiFi)	GA09011	681	\$100.00

7: Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

8: Algorithm Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES .	H797	655	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$599.00
ENH: AES ENCRYPTION	-	Q629	655	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15AJ	0655	\$799.00

9: Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$740.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

10: Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112	579	(\$10.00)

11: Battery (Optional)

Division 2 Approved

Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$145.00

Not Compatible if Division 2 Certification is Required

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	0655	\$0.00

12: Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

13: Belt Clips/Carry Holders (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
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DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)
ALT: APX8000XE BASIC CARRY HOLDER	-	QA00779	579	\$29.00

14: Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

15: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$110.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$284.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$206.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$437.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
	Upgrades the standard warranty period to a full five (5)			

ADD: 5Y ESSENTIAL SVC CANADA	years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$222.00
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16: Documentation (Optional)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD-PORTABLES	-	QA00205	579	\$0.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$25.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00

Software and Services

General Information

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX 8000XE all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

The Master Key Start-Up Kit (DVN4046) is required to use the Hardware Key (QA01648) or to operate on a third-party trunking system if the customer does not already possess one, or if theirs has expired. [Please CLICK HERE](#) for further details regarding the DVN4046 Kit.

WI-FI

APX 8000XE supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security

protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 8000XE.

OUT OF THE BOX WI-FI PROVISIONING

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- Wi-Fi will be enabled.
- There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

BLUETOOTH 4.0 & EMERGENCY FIND ME

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 8000XE, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

FLASHPORT AFTERMARKET UPGRADES

The APX 8000XE P25 Portable Radios are part of the FLASHport Program. This means that APX 8000XE hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date

through the use of software field upgrades. The APX 8000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation by ordering upgrade kits.

FLASHport upgrades are supported via Wi-Fi using Radio Management (RM) on APX 8000XE.

Fleet Management software was previously distributed on DVDs shipped out of Elgin. It is now downloadable from motsolutions.com at the link below. Look at the right edge of the page under Resources Spotlight. The first link is the Order Guide which tells you what you need. The second link is a free 90 day trial version that they can download and evaluate free for 90 days. The third link is the actual program, you need to purchase a license to use it (explained in the order guide).

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF Frequencies
768	136.8	384
775.2	153.6	403.2
866.4	172.8	410.4
		422.4
		441.6
		456
		460.8
		480
		499.2
		501.6
		518.4

HazLoc Approved Accessories (Div 2)

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL

manuals and addendums that ship with every HazLoc approved APX 8000XE.

Description	Model
Remote Speaker Microphone with Jack	HMN4101B
Display Remote Speaker Microphone with Jack	HMN4103B
Display Remote Speaker Microphone with Jack and Channel Selector	HMN4104B
Secondary Audio Accessory for Display Remote Speaker Microphone	RLN6424B
XE RSM with High Temperature Cable	NNTN8575A
XE RSM Black with High Temperature Cable	NNTN8575ABLK
IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, Black	PMLN6129A
Receive-Only Earpiece with Translucent Tube, 3.5 mm Jack, Short Coiled Cable	RLN4941A
Remote Speaker Microphone, IMPRES Wind porting IP55 3.5 mm Jack	PMMN4099A
1 Wire Receive-only Surveillance Kit with Translucent Tube, Black, Requires BDN6783	RLN5313B
Temple transducer	RMN5116A
Remote Speaker Microphone	PMMN4106A
Remote Speaker Microphone	PMMN4106ABLK
Remote Speaker Microphone	PMMN4106B
Remote Speaker Microphone	PMMN4106ABBLK
Remote Speaker Microphone	PMMN4107A
Remote Speaker Microphone	PMMN4107ABLK
IMPRESS 2 Wire with Translucent Tube Black	PMLN7565A

IMPRES ANC RSM UL/Long CBL/NEX/3.5	PMMN4102B
IMPRES ANC RSM UL/Long CBL/NEX/3.5/Green	PMMN4102BGRN
IMPRES OMNI RSM Long CBL/NEX/3.5	PMMN4113A
Earpiece, ENH ATEX 3.5mm Earpiece with Translucent Tube	PMLN7188B
Remote Speaker Microphone, IP68	PMMN4099B
Remote Speaker Microphone, High Impact Green	PMMN4106C
Next Gen Fire, Remote Speaker Microphone, Model 1.5	PMMN4107B

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
PORTABLES	FSC	H91TGD9PW5 N	APX 8000 ALL BAND PORTABLE MODEL 1.5	579	7
PORTABLES	FSC	H91TGD9PW6 N	APX 8000 ALL BAND PORTABLE MODEL 2.5	579	5
PORTABLES	FSC	H91TGD9PW7 N	APX 8000 ALL BAND PORTABLE MODEL 3.5	579	4

APX_PORTABLE	US1	Q15AJ	ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	0655	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	

Product Specifications

Firefighters said they wanted equivalent extreme features as the APX XE Series including a larger display, exaggerated control knobs and the capability to communicate with surrounding municipalities within an all-band radio solution. The APX 8000XE brings together not only these requirements, but also the integration of WiFi for programming flexibility.

The APX 8000XE is redefining mission critical communications by delivering an ultra-durable radio that combines unlimited interoperability, loud audio and secure WiFi connectivity. With a dedicated channel knob and ability to withstand 500°F (260°C) heat exposure, the [APX XE500 Remote Speaker Microphone](#) is the perfect companion to the APX 8000XE. When combined, the APX 8000XE All-Band Portable Radio and XE500 Remote Speaker Microphone create the ultimate mission critical solution designed for safety personnel in extreme environments.

JUMP TO ...

[MODEL](#)[UPDATES](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

2-WAY RADIO ACCESSORIES
For APX 8000XE Radios

Updates

NOTE: only the accessories listed below have been certified with APX 8000XE radios

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone which has been designed specifically for harsh conditions for the fireground. And the APX Mission Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: many of the below categories contain hyperlinks. External links need to be opened in a New Tab or New Window

Configuration

2-Way Radio Accessories

Antennas

Description	Full Description	Nomenclature	APC	Price
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00
UHF (380-520) /7-800 GPS	-	PMAS4001A	555	\$31.00
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 3400T	-	PMNN4504	453	\$193.00
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 4850T	-	PMNN4505	453	\$221.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	-	NNTN8844A	785	\$1,375.00
CHR IMP DISP DUC EXT US/NA/CA/LA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00
CHARGER,CHR IMP VEH EXT	-	NNTN7624C	785	\$472.00

NA/EU KIT				
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$165.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	-	NNTN8863A	785	\$187.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFCE UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

IMPRES Battery Fleet Management Software can be downloaded [here](#).

Bluetooth Mission Critical Wireless

Note: requires Bluetooth option to be ordered in the APX radio

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$350.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$700.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,100.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To- Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price

EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$156.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00

Belt Clips / Belt Loops / Radio Straps

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00
2.5" PLASTIC BELT CLIP ATTACHMENT	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$12.00

APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$12.00
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$12.00
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$12.00
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	-	NNTN8749A	372	\$75.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
APX6000 CC 2.75 SWL BL 4200MAH	-	PMLN5659B	271	\$74.00
APX6000 CC 3 FIX BL 4200MAH	-	PMLN5660B	271	\$69.00
APX6000 UNIVERSAL CARRY HOLDER	-	PMLN5709A	271	\$29.00
ACCESSORY KIT,MOLDED NYLON CARRY CASE	-	PMLN6802A	271	\$55.00

W/SWIVEL				
BREAKAWAY CHEST PACK	-	RLN4570A	271	\$54.25
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. * (HT750, HT1250, HT1250?LS+ & HT1550? XLS - not compatible with UHF models)	HLN6602	271	\$38.00
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$50.00

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062,	RMN4055B	742	\$110.00

	PMMN4069 or PMMN4084			
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The- Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00

Hearing Protection

Description	Full Description	Nomenclature	APC	Price
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ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4104B	372	\$454.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68). FM Approved	HMN4103B	372	\$345.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68).	HMN4101B	372	\$330.00

	FM Approved			
IMPRES RSM DELTA-T,	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083A	742	\$125.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	IMPRES Windporting RSM with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1- Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$325.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1- Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-	RLN6554A	372	\$300.00

	unit charger (DUC), and power supply			
MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER	RLN6544A	372	\$250.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Green	NNTN8575A	372	\$538.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Black	NNTN8575ABLK	372	\$538.00
"AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	-	PMMN4106B	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	-	PMMN4106BBLK	372	\$616.00
XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	-	PMMN4107A	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	-	PMMN4107ABLK	372	\$550.00

Remote Speaker Microphones (RSMs) Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price

DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$340.00
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber eartips	67009254001	742	\$9.95
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$7.90
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5080370E97	742	\$29.25
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$175.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$90.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00

Surveillance Kits (Wired)

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$126.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$108.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5313B	742	\$55.50

Surveillance (Wired) Accessory Replacement Parts

Description	Full Description	Nomenclature	APC	Price
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50

LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25

Tactical Kit

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT, TACTICAL BOOMLESS TEMPLE TRANSDUCER	-	PMLN6766A	742	\$377.00
ACCESSORY KIT, TACTICAL GCAI PTT INTERFACE MODULE	-	PMLN6827A	742	\$234.00
ACCESSORY KIT, TACTICAL REMOTE PTT BODY SWITCH	-	PMLN6767A	742	\$182.00
ACCESSORY KIT, TACTICAL EAR MICROPHONE	-	PMLN6829A	742	\$325.00
ACCESSORY KIT, TACTICAL REMOTE PTT RING SWITCH	-	PMLN6830A	742	\$52.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795	4
FIXEDSTN	CDP	30009402001	RSM REPLACEMENT CABLE	372	5
FIXEDSTN	CDP	30009402002	RSM REPLACEMENT CABLE ASSEMBLY	372	5
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372	3
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	2
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	0
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	63
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742	25
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742	5
FIXEDSTN	CDP	AY000223A01	CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	271	4
FIXEDSTN	CDP	AY000229A01	CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	271	14
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2

PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	CDP	KT000026A01	KIT, ANTENNA, ALL-BAND, 20CM	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372	6
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM	372	6

			THRD JACK		
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11

FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8361A	EARTIPS, BULK REPLACEMENT	742	3
FIXEDSTN	CDP	NNTN8442A	MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	742	4
FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372	3
FIXEDSTN	CDP	NNTN8575A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN	372	25
FIXEDSTN	CDP	NNTN8575ABLK	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK	372	6
FIXEDSTN	CDP	NNTN8749A	CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	372	3
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6

FIXEDSTN	CDP	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	785	6
FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7
FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7
FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742	5
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115	2
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115	10

FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT-BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4

FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT-BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6246A	WIRELESS POD SWIVEL CLIP	742	2
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9

FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10
FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4

FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
FIXEDSTN	CDP	PMMN4106B	"AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	372	6
FIXEDSTN	CDP	PMMN4106BLK	APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	372	5
FIXEDSTN	CDP	PMMN4107A	XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8
FIXEDSTN	CDP	PMNN4504	BATT IMPRES 2 LIION UL2054 DIV2 R IP68 3400T	453	5
PARTS	CDP	PMNN4505	BATT IMPRES 2 LIION UL2054 DIV2 R IP68 4850T	453	7
FIXEDSTN	CDP	PMPN4027A	PWR SUPPLY, SMPS, MICRO USB- NA	785	1
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72

ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5

PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
FIXEDSTN	CDP	RLN5314B	RECEIVE ONLY SURV KIT(BEIGE)/NOISE	742	15
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4

PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6489A	COVERT PACK-N-GO KIT	742	5
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY	742	4

			HEADSET, BT		
FIXEDSTN	CDP	RLN6501A	COVERT PACK-N-GO KIT, ADVANCED	742	15
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372	7
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372	8
PARTS	CDP	RMN4055B	RX ONLY HDBND HDST 3.5MM RT ANGLE P	742	20
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742	5
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5

PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4

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Model



ASTRO® Digital APX 8500 Mobile Subscriber
 700/800 MHz (10 – 35 Watts)
 VHF - 136 -174 (10-50, 25 - 100 Watts)
 UHF R1 - 380-470 (10-40, 25 -110 Watts)
 UHF R2 450-520 (10-45 Watts)
 Secure and Trunked Radio Systems

Ordering Information

FCC Information

Band/Model	Power Output	FCC Certification	Emissions	Applicable Rules
700 MHz: 764-776 MHz, 794-806 MHz	700 MHz: 1 - 30 Watts	AZ492FT7089	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22 (800 MHz Band ONLY), 90
800 MHz: 806-824 MHz, 851-870 MHz	800 MHz: 1 - 35 Watts			
VHF: 136 - 174 MHz	1 – 50 Watts	AZ492FT7089	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 80, 90
	1 – 100 Watts	AZ492FT7089		
UHF R1: 380 - 470 MHz	1 - 40 Watts	AZ492FT7089	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 74, 90, 90.210
	1 - 110 Watts	AZ492FT7089		
UHF R2: 450 - 520 MHz	1 - 45 Watts	AZ495FT7089	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22, 74, 90, 90.210

VHF: 136 - 174 MHz; 700 MHz: 764-776 MHz, 794-806 MHz; 800 MHz: 806-824 MHz, 851-870 MHz	VHF: 1 – 50 Watts; 700 MHz: 1 - 30 Watts; 800 MHz: 1 - 35 Watts	AZ492FT7089	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E	22
	VHF: 25 – 100 Watts; 700 MHz: 3.5 - 30 Watts; 800 MHz: 3.5 - 35 Watts	AZ492FT7089		(VHF and 800 MHz ONLY), 80 (VHF ONLY), 90

Except for Itinerant and low-power incident channels.

**** Itinerant & Low-Power Incident Channels (Old Band Plan)**

Channel Number	Frequency Range (MHz)
1 - 2	764 - 764.075
949 - 960	775.925 - 776
961 - 972	794 - 794.075
1909 - 1920	805.925 - 806

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

General Information

Operating Modes

ASTRO Digital APX 8500 Radio Models are capable of operating in four different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6 KB ASTRO 25 Digital (both Clear and Coded voice)
- 9.6KB 12.5kHz 2 slot digital TDMA (both clear and coded voice).
- Will be capable of APCO25 Phase 2 functionality in future software releases.

MULTI BAND/SINGLE BAND

APX 8500 meets P25 public safety specifications for seamless multi-agency collaboration by offering the option to operate in four separate band configurations. APX 8500 capable of operating in 700MHz, 800MHz & VHF* and UHF R1 and R2 and can act as 2 APX7500 radios in one; enabling instant, interoperable communications for improved coordination, response, and first responder safety. Public safety officials can now reduce the amount of equipment responders must carry and maintain.

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of APCO 25 Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) will be part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital APX 8500 Mobile Series Radios are part of the FLASHport Program. This means that ASTRO Digital APX 8500 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The ASTRO Digital APX 8500 Mobile can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Standard Features

- All Band support
- Up to 3000 Channels
- G170 Remote Monitor
- G683 Trunked One Touch
- Narrow and wide bandwidth digital receiver
- Text Messaging
- (6.25kHz/12.5kHz/25kHz) programing
- Intergrated Voice and Data
- Integrated GPS capable (requires digital operation and an GPS antenna)
- Seamless wideband scan
- Intelligent lighting
- Radio profiles
- Unified Call List
- Meets applicable MIL-specs 810C, D, E, F and G
- Ships standard IP56 when remote
- Utilizes Windows 7, 8 and 10 Customer Programming Software (CPS)
- Supports USB Communications
- Built in FLASHport™ support
- Re-use of most accessories
- Standard Advanced Digital Privacy
- Voice Announcements

Optional Features

Can be found in product catalog and may require specific software and or hardware

- WIFI
- Data Modem Tethering
- DVR MSU
- Motorcycle
- Contorl Station
- Multiple Contorl Head
- Enhanced Encruption
- Programming over Project 25 (POP25)

- Over The Air Re-Key (OTAR)

- RFID

- FLASHPORT®

All ASTRO Digital APX 8500 Mobiles are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

Ordering Requirements

A minimum of one selection from the below 12 sections is required for a valid APX8500 order. Additional compatible options can be added once the required 12 choices are selected.

1	Model AX8500	M37TSS9PW1AN
2	Select Operation Mode	G806 or G241
3a	Select System Enhancement Software	G48 or G51
3b	Select an Optional System Enhancement	G173, G361, GA00580 or QA01648
4	Select Control Head Hardware	GA00804, G72, G442, GA00805, or GA00245
5	Select Control Head Software	Must select G444, G138 motorcycle is optional
6	Select Mounting Type	G66, G67 (G138 motorcycle is optional only if G67 is selected)
7	Select Antenna	Motorcycle requires one choice per active band U1 and U2 are considered a singleband. Vehicle options are GA01513 or G89.
8	Select GPS Antenna	GA00226,GA00269 or GA00235
9	Select Microphone	G90, W20, W22,G892, G874,GA00221, GA01354. GA01438, or GA1439
10	Select Speaker	G831,G832,B18,GA01203 or W432
11	Select if J600 is needed for DVRs or Motorola Siren use	GA01515 or GA01517
12	Select Required Minimum 3 year Warranty	G78,GA0318,GA00249 or GA00255

Software & Services

Common Software Features Supported By

G51 "SmartZone"

	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)	"TDMA" (GA00580AA)
	<i>Non-Project 25 (3600 Baud)</i>	<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>TDMA OPERATION</i>
RADIO WIDE FEATURES				
Maximum Modes				
ASTRO Digital APX 8500	3000	3000	3000	3000

Analog and Digital Operation	Yes	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	Yes	Yes (Digital Only)	Yes (Digital Only)	Yes (Digital Only)
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				

These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes
Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Acknowledgement	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Manual Phone Number Entry	Dual Display Only	Yes	Yes	Yes
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes
Radio Check	MDC-1200 Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID *Included	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes
Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes

System Wide Call (Receive Only)	Yes	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Yes	Yes
Reprogram Request	Yes	Yes	Yes	Yes

G51 "SmartZone"

	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)	"TDMA" (QA00580AA)
		<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>Project 25 (TDMA Operation)</i>
Trunking Type II Only Features				
SmartZone Automatic Site Registration	Yes	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the APX 8500 Mobile series. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

PROJECT 25 ENCRYPTION

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital APX8500 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the

coded/clear switch set to the coded mode, the ASTRO Digital APX 8500 radio will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the ASTRO Digital APX 8500 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital APX 8500 radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The DES-OFB and AES encryption algorithms offered are compliant with digital Project 25 standards and does not support analog encryption operation.
- **Requires** the ASTRO Digital CAI (G806) to operate the DES-OFB and AES encryption.

If ordering a Dual Encryption:

- The non-OFB encryption (XL versions) can be operated in either analog, or CAI digital mode, but will not be Project 25 compliant.
- **Requires** the Multikey (W969).

When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.

- Encryption Algorithms can be ordered later via Flash Port.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on the NIST website at: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>.

Further information regarding FIPS 140-2 certification may be found using the following link - FIPS 140-2 Crypto Module Validation Program (CMVP) <http://csrc.nist.gov/groups/STM/cmvp/index.html>

ASTRO Text Messaging Service

ASTRO Text Messaging Service is available on the ASTRO 25 APX 8500 mobile radios with the O5 control head (single and multi-control head) and O3 control head. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers.

For full Text Messaging functionality, including freeform text messaging and addressing, must order O3 Control Head or O5 Control Head with Keypad Microphone. O5 Control Head without the Keypad Microphone supports Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio.

Ordering requirements for APX 8500 Mobile:

- Requires O5 Control Head (G442) or O3 Control Head (G72)
- Full functionality including free form messaging requires the Keypad Microphone (W20) for O5 Control Head
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (G51)
- ASTRO Project 25 Trunking 9600 Software (G361)
- Packet Data Interface (W947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.) It is possible to the user to determine their own location (latitude/longitude) through the use of the location menu.

For further information regarding System Requirements, go to the location solutions price pages at: <http://ecat.comm.mot.com/ecat/pricebooks/dup/ALLOCATION.htm>

Ordering GPS for APX 8500 Mobile Requires:

- A GPS ANTENNA
- DIGITAL OPERATION

NOTE:

The GPS feature uses radio signals from earth orbiting satellites, to establish the location co-ordinates maximizing your view of clear. Unobstructed sky is essential for optimum performance. When adequate signals from multiple satellites are not available, (usually because you cannot establish a wide area view of the sky), the GPS feature WILL NOT WORK. Such situations include but are not limited to:

- Underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover

VHF SELF-QUIETING SPURS

Frequencies (MHz)
153.6 MHz
410.4 MHz
456 MHz
510.6 MHz

Note: There are no self-quieting spurs for 700/800 MHz.

CPS INFORMATION

****Please note that a NEW version of CPS (RVN5224) is required for initial customer orders for this product. This new version of CPS is required for the APX radio shipments. ****

Update History

Starting January 1 2015.The SOFTWARE KEY (QA01749) is the default Advance System Key, it ships by default on all APX products; The HARDWARE KEY can be ordered instead by using QA01648. The DVN4046 Master Key Starter Kit is required for the Hard Key or to operate on a third-party Trunking system. The CORRECT System Owner ID will be required upon ordering the Hard Key or DVN Kit. Details can be found on the [Advanced System Keys-ASK for RSD Subscriber](#) ECAT page Be sure to enter the CORRECT SYSTEM OWNER ID when supplemental data is required. If an INCORRECT ID is entered, a FLASHport order is required to fix the error

**

[Advanced System Keys](#)

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JUMP TO ...[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model**

ASTRO® Digital APX 8500 Mobile Subscriber
700/800 MHz (1 – 35 Watts)
VHF - 136 -174 (1-50, Watts)
UHF R1 R2- 380-520 (1-45 Watts)

Updates

Effective March 5th, 2020: All U.S. orders will book as P25 CAP Compliant by internally generating the P25 “clear” non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. It will now be an orderable option (G193 for mobiles, Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below.

Effective April 24, 2020: The E5 Control Head will ship accept on June, 2020. Mobile radio orders with the E5 Control Head will remain on hold until the control head is ship accepted.

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Effective October 25, 2018: All APX 8500 HP Models produced after Oct. 25, 2018 contain WiFi hardware that can be activated at purchase or later via a FLASHport order using GA09001.

Effective June 18th, 2018:

APX 8500 HP/MP ORDERS WITH DVRS ACTIVATION (GA00631) WILL GO ON HOLD TO VERIFY THE FOLLOWING:

Please be aware that depending upon the equipment installation and frequency usage, additional equipment may be required to assure optimal performance between the APX™8500 and DVR/VRX1000. More specifically, when using an APX™8500 with an antenna (all band or with a triplexer) that includes the same frequency range as the DVRS / VXR1000, this additional equipment will help to assure the desired performance between these two products.

This addresses all new sales that combine an APX™8500 with a DVR/VRX1000 as well as any replacements of an existing MSU (Mobile Subscriber Unit) with the APX™8500 where the DVR/VRX1000 may already be deployed.

Please contact sales@futurecom.com for more information. To assist Futurecom sales with assessing a particular configuration, the following information will be needed:

1. MSU band(s) and frequencies if known
2. DVR/VRX1000 frequencies
3. Which MSU band(s) will the DVR/VRX1000 be used with?
4. MSU Antenna type (single band vs all band)?

Supplemental

form: <http://www.futurecom.com/upl/downloads/catalog/products/supplemental-ordering-form-51a33dfb.pdf>

- **H1919A: Single Triplexer Kit: \$250.00**
- **DDN2657A: Dual Triplexer Kit: \$570.00**
- **DDN2808A: Single Triplexer Kit: \$805.00**
- **DDN2658A: Single Triplexer Relay Kit (w/relay): \$870.00**
- **DDN2659A: Dual Triplexer Relay Kit: \$1112.00**

Ordering Information

Please Read All Option Descriptions Before Making Your Selection

Required Selection:

- 1) Main Model
- 2) Mounting (Not required for APX 8500 HP, which is only available in remote mount)
- 3) Control Head Selection
- 4) RF Antenna
- 5) Operation Mode
- 6) Feature Antenna(s)
- 7) Remote Mount Cables (if remote mount is selected)
- 8) Microphone
- 9) Speaker
- 10) Service

Additional Ordering Information for Service Options

[SmartConnect End to End Ordering Guide](#)

Configuration

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX8500 ALL BAND MP MOBILE	-	M37TSS9PW1 N	681	\$4,770.00
APX8500 ALL BAND HP MOBILE	APX 8500 HP only comes in remote mount. No mounting option is required.	M37TXS9PW1 N	681	\$5,620.00

Delete Frequency Bands (Optional. Can select a Maximum of Two)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800MHZ BAND	-	GA05507	681	(\$800.00)
DEL: DELETE VHF BAND	-	GA05508	681	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands.	GA05509	681	(\$800.00)

2. Mounting (Must Select Either Dash or Remote Mount for APX 8500 MP)

If a remote mount cable other than 5 meters (17ft) is desired for Remote Mount, please reference the "Remote Mount Cables" section.

The O3 dash and remote mount configurations are the same except that the dash mount configurations do not come with the 17ft extension cable, PMLN4958.

Description	Full Description	Nomenclature	APC	Price
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ADD: DASH MOUNT	Not available on APX 8500 HP. Required for Control Station Operation. An O3 Control Head ordered with a Dash Mount Configuration is the same as the O3 Remote Mount configuration, but it does not come with the 17ft extension cable, PMLN4958A.	G66	656	\$125.00
ADD: REMOTE MOUNT MID POWER	Not required for selection on APX 8500 HP. G138 is required for Motorcycle Configuration. Motorcycle Remote Mount Option is \$400 DUP.	G67	656	\$297.00

Motorcycle Mounting (Optional)

HMN1079 (Motorcycle Mic) and HSN4031 (Speaker) are mandatory selections with motorcycle configurations. Motorcycle mount requires the O2, O5, E5, or O7 Control Head and Remote Mount (G67). CAN cables are not compatible with motorcycle. This option includes a weatherized harness. Incompatible with DVRS MSU operation (GA00631)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00
ADD:REMOTE MOUNT MOTORCYCLE	Requires G138 (Motorcycle)	G67BA	656	\$400.00

Control Station Operation (Optional)

Mid Power Model Only

O2, O5, E5 & O7 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution. The APX 8500 requires a higher capacity power supply KT000254A01.

Description	Full Description	Nomenclature	APC	Price
	Requires a O2, E5, O5, O7 Control Head Requires Dash			

ADD: CONTROL STATION OPERATION	Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$70.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. The APX 8500 requires a higher capacity power supply KT000254A01.	G91	656	\$269.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$492.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$25.00
ADD: SCHOOL SERURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$50.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$946.00

ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00
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E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	471	\$572.00

O5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	-	G442	656	\$432.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$632.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$50.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX MOBILE NO CONTROL HEAD	If you plan to use this model with an O2, E5, O5, O7 Control Head but already have a control head and don't require it, select G88. Requires remote mounting option (G67 or W665).	G88	681	\$0.00

Multi-Control Head Options

The APX 8500 mobile can support up to four control heads on a single transceiver. This allows control of a single APX 8500 transceiver from two different control head locations.

Multi-Control Head options require Remote Mount.

When ordering a multi-control head option, only one type of control head can be selected.

Only available with O2, O5, E5, O7 Control Heads.

Multi-control head options require an equal number of microphones, speakers, and CAN cables.

Multi-control head options are incompatible with the multi-radio options.

Description	Full Description	Nomenclature	APC	Price
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2, E5, O5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$570.00
ADD: APX TRI-CONTROL HARDWARE (07 ARABIC)	Requires either O2, E5, O5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 3 for microphones, speakers and CAN cables.	GA00093	656	\$1,000.00
ADD: APX QUAD-CONTROL HARDWARE (07 ARABIC)	Requires either O2, E5, O5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 4 for microphones, speakers and CAN cables.	GA00094	656	\$1,300.00

4. RF Antenna (Required)

The APX 8500 has one QMA style LMR antenna port. Any additional connections will require vehicle multiplexer EQ000103A02 that allows up to 3 QMA antenna connections. We will offer this multiplexer and Adapters through our Parts Division.

Examples are Mini U to QMA CB000091A03, QMA to QMA CB000091A02 and SMA to QMA CB000091A04. Aftermarket Antennas are certified for use on the APX 8500 but do require CB000091A02.

Description	Full Description	Nomenclature	APC	Price
MULTIPLEXER QMA	Order on a separate line. Provides for EQ000103A02 that allows up to 3 QMA antenna connections.	H1919	681	\$250.00

Must Select One of the Following:

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

All-Band Antenna

Description	Full Description	Nomenclature	APC	Price
ADD: ALL BAND MOBILE ANTENNA (7/8/V/U)	Corresponding kit: AN000131A01. Does not provide a multiplexer.	GA01513	681	\$95.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

Motorcycle Antenna Choices

Motorcycle radio orders require an antenna selection for each enabled band (UHF R1 and R2 are considered one band) and comes with multiplexer EQ000103A01.

7/800

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: AN000197A11	G174	681	\$43.00
ADD: ANT 3DB MCYCLE 762-870MHZ	Corresponding kit number: AN000197A10	G335	681	\$14.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

VHF

Description	Full Description	Nomenclature	APC	Price
ADD: ANT MTCL 1/4 WAVE WHIP 136-144	Corresponding kit number: AN000197A01 + AN000208A01	GA00510	681	\$50.00
ADD: ANT MTCL 1/4 WAVE WHIP 144-150.8	Corresponding kit number: AN000197A02 + AN000208A01	GA00511	681	\$50.00
ADD: ANT MTCL 1/4 WAVE WHIP 150.8-162	Corresponding kit number: AN000197A03 + AN000208A01	GA00512	681	\$50.00
ADD: ANT MTCL 1/4 WAVE WHIP 162-174	Corresponding kit number: AN000197A04 + AN000208A01	GA00513	681	\$50.00

UHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT MTCL 1/4 WAVE 380-433MHZ	Corresponding kit number: AN000197A05 + AN000208A03	G210	681	\$29.00
ADD: ANT MTCL 1/4 WAVE WHIP 425-470	Corresponding kit number: AN000197A06 + AN000208A01	GA00506	681	\$50.00
ADD: ANT MTCL 1/4 WAVE WHIP 450-482	Corresponding kit number: AN000197A07 + AN000208A01	GA00507	681	\$50.00
ADD: ANT MTCL 1/4 WAVE WHIP 482-512	Corresponding kit number: AN000197A08 + AN000208A01	GA00508	681	\$50.00
ADD: ANT MTCL LO PRO UNITY 450-512	Corresponding kit number: AN000197A09 + AN000208A03	GA00509	681	\$50.00

Dual Radio Operation Options

The APX Dual Radio Feature offers the capability to control **TWO** (2) APX8500, APX7500, APX6500, or APX6500Li mobile radios from **ONE** (1) O7 or E5 control head. APX Dual Radio allows for mixing and matching of radios across tiers (i.e. APX 8500 with APX 6500) and power levels (High Power with Mid Power).

Each radio in an APX Dual Radio system must be ordered independently.

The mobiles in a dual radio solution can be single or dual band. Both radios can be on the

same or different frequency bands.

One radio must be ordered with the Primary Radio option (GA01113) and the other with the Secondary Radio option (GA01117). This will include both the SW and HW required for dual radio operation.

Although each radio must be ordered as either a Primary or Secondary radio, each radio can be configured to work as a Primary, Secondary, or a Standalone radio.

Only one speaker can be connected to the control head and it will play audio from the primary radio. A 30 ft. speaker extension cable is included on the secondary radio to connect the second speaker directly to the secondary radio. If a longer cable is needed, a 131 ft. version can be purchased from AAD (part # HKN6251)

The Dual Radio feature is incompatible with the multi-control head options.

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunnion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both radios together.	GA01113	656	\$650.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88)	GA01117	656	\$650.00

Dual Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO STACKABLE MP TRUNNION	If the stack mount trunnion is ordered, a right-angle version of this cable (HKN6249) will	GA01115	656	\$297.00

	ship instead to facilitate stack mounted installations.			
ADD: DUAL RADIO AUDIO COMBINER	-	GA01116	656	\$1,200.00

5. Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$515.00
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,500.00
ENH: P25 TRUNKING SOFTWARE APX	Requires G51 & G806. Internally generate G173. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	G361	656	\$300.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$515.00
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,500.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$200.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
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ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$515.00
ENH: CONVENTIONAL OPERATION	Limited Conventional features- see matrix	G48	656	\$800.00

5D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,500.00

5E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$800.00

System Enhancement Options (Optional)

The APX 8500 comes standard with G170 Radio Trace and G683 Trunked One Touch

The following options are **optional** and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	-	GA09000	656	\$150.00
ADD: DVRS MSU ACTIVATION	Orders will go on hold pending confirmation that Futurecom has verified the APX 8500 + DVRS configuration (see above). Requires a depot to change a mobile from a PSU to an	GA00631	656	\$250.00

	MSU.			
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631. Allows the mobile subscriber to be used as a PSU (Client). An APX Mobile is still required as an MSU (host). Incompatible with GA00631. Requires a depot to change a mobile from a PSU to an MSU. This option is incompatible with the Motorcycle configuration.	QA00631	655	\$100.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: FPP & CLONE APX	-	G53	656	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (GA09012)	GA09012	471	\$150.00
ADD: MULITCAST VOTING	This feature allows for			

SCAN	voting of the Conventional Channels ONLY.	G387	656	\$200.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires Trunking	GA01767	527	\$100.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	-	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$100.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	GA00982	656	\$150.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$450.00
ADD: WI-FI CAPABILITY	Requires a WiFi antenna. GA09001 enables WiFi capability in the radio which supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using WiFi is desired.	GA09001	681	\$300.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	-	GA09007	681	\$0.00
ADD: DATA MODEM TETHERING	Requires Remote Mount G67; includes GA01545 mutually exclusive with DVR MSU GA00631. Comes with the aftermarket cable: KT000247A01	GA09011	681	\$100.00

ADD: SMARTCONNECT	<p>Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WiFi), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.</p>	GA01630	681	\$0.00
ENH: TACTICAL RADIO STW-STUN/KILL	<p>Requires digital (G806), IV&D, and a encryption (not including ADP-only).</p>	H02	481	\$75.00

6. Feature Antennas

Must select from either Multi-function section or Single function GPS section and Single Function WI-FI section (if GA09001 is ordered)

Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding Kit: Vehicle: AN000163A01 Motorcycle: AN000163A02	GA00250	681	\$100.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	No feature antenna needed.	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$70.00
	Corresponding kit: PMAN4010			

ADD: GPS/GNSS MAG MOUNT ANTENNA	(antenna) & CB000091A04 (QMA to SMA adaptor)	GA01305	656	\$60.00
ADD: NO GPS ANTENNA NEEDED	No GPS Antenna Needed	GA00235	656	\$0.00

Wifi Antennas (Must select one if single function WiFi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT LMR195	Corresponding kit: PMAN5101	GA01579AA	681	\$70.00
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key (QA01648) can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order QA01648 if it is required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Encryption Algorithms (Optional)

All APX 8500 Mobile Radios ship P25 "clear (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
	Requires digital operation.			

ADD: AES ENCRYPTION APX	P25 CAP Compliant option. Includes ADP.	G843	656	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$799.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$599.00
ADD: DVP-XL ENCRYPTION APX7500	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$487.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$330.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased. Requires AES.	G298	656	\$740.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$150.00

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$10.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$15.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$25.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$35.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$45.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$55.00
ADD: REMOTE MOUNT CABLE 128 FT	***For Dual/Tri/Quad configurations, the total cable length may not be greater that 131 ft (40 meters). Therefore, this cable should not be used with a dual, tri, or quad control radio*** Corresponding kit: HKN6164	G582	656	\$65.00
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$50.00
	16.5 FT USB W/IGNITION			

ADD:USB DATA INTFC CABLE-TRK	SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$50.00
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J600 Adapter (Optional)

The APX 8500's new one-sided design removed the J600 port used for DVR and Motorola Siren (SLIM does not require this). Required for remote mount and DVRS support.

Description	Full Description	Nomenclature	APC	Price
ADD: J600 ADAPTER CABLE	Accessory Kit: KT000247A01	GA01515	681	\$95.00
DEL: NO J600 ADAPTER CABLE NEEDED	-	GA01517	681	\$0.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$75.00
ADD:BUZZER 110MA APX	-	B116	656	\$50.00
ADD: CABLE URC TO TRANSCIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CGAI connection.	GA00260	656	\$15.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on O9 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$35.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the O3, 07 and O9 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$250.00

ADD: GCAI EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GCAI style Mic. KIT #PMKN4093A.	GA00589	656	\$30.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$33.00

8. Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$72.00
ADD: MODEL III GCAI KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$295.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$180.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$392.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$500.00
ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$169.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$125.00
	Requires No			

ADD: VISOR MIC REMOTE MOUNT	Microphone (G90), and PTT Option. Corresponding Kit Number: RMN5054.	W872	656	\$30.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle operation.	W22	471	\$72.00
ADD:HANDSET/HANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$56.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$56.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$56.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$56.00

Direct Mode Entry (Optional)

Not Compatible with Motorcycle. Although compatible with dual control head, you must order individual DEK Box Kits separately for each additional control head. You can order one DEK per radio.

Description	Full Description	Nomenclature	APC	Price

ADD: 8 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration.	W599	656	\$180.00
ADD: 16 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1836A	W614	656	\$360.00
ADD: 24 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads or W269 Siren/PA or other DEK or Direct Mode Entry Selections. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1837A	W615	656	\$540.00
ADD: STATUS/MESSAGE 16	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1839A	W374	656	\$650.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Corresponding kit: H1882A.	GA00812	656	\$105.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A.	GA00814	656	\$105.00
ADD: STATUS/MESSAGE 8	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1838A	W355	656	\$475.00

9. Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit:HSN4040	G831	656	\$60.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$60.50
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031. Must select for motorcycle operation.	B18	656	\$60.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$60.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$71.50
ADD: NO SPEAKER NEEDED	Required for Control Station Operation	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Not compatible with O3 control head or motorcycle.	W591	656	\$165.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$66.00

Motorcycle Enclosure

Required if Motorcycle Configuration requested.

Description	Full Description	Nomenclature	APC	Price
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ADD: WEATHER PROOF HOUSING ENCLOSURE BLACK	Kit number: HLN7022B	W15	656	\$1,200.00
ADD: NO MTRCYCLE ENCL NEEDED APX	-	W620	656	\$0.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$10.00
ADD: APX MOBILE USER GUIDE	User guides can be viewed on motorolasolutions.com . The option will provide a CD kit.	G657	681	\$25.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$25.00

10. Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$168.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$319.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$328.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$506.00
ENH: CANADA 3 YR SFS LITE	-	GA00314	185	\$225.00
ENH: CANADA 5 YR SFS LITE	-	GA00317	185	\$338.00

Accessories

The accessories available are not limited to this list. Please refer to the Accessory Catalog for additional info.

Siren & Interface Module

Please visit the [SLIM Product Page](#)

In-Vehicle Router Based Solutions

Please visit the [In-Vehicle Router Based Solutions Product Page](#). It includes the catalog pages for Sierra Wireless' MG90, the MP70 and the RV55.

Advanced Messaging Solution

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real-time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

AWS provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

Ordering ASTRO Advanced Messaging Solution for APX Mobiles Require: (Note: some control heads are not available on all main models)

O7, E5, O5, O3 or O2 Control Heads

With E5, O2 or O5 Control Heads Require Keypad Mic (W20)

ASTRO Digital CAI Operation (G806)

P25 Conventional (G48)

Packet Data Interface (W947)

OR

O9, O7, O5, E5, O3 or O2 Control Heads

With E5, O2 or O5 Control Heads Require Keypad Mic (W20)

ASTRO Digital CAI Operation (G806)

SmartZone Operation (G51)

ASTRO Project 25 Trunking Software (G361)

Packet Data Interface (W947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit - [ASTRO25 Advanced Messaging](#)

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
MOBILES	FSA	H1919	MULTIPLEXER QMA	681	8
MOBILES	FSC	M37TSS9PW1 N	APX8500 ALL BAND MP MOBILE	681	8
MOBILES	FSC	M37TXS9PW1 N	APX8500 ALL BAND HP MOBILE	681	69
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA06397AA	DEL: GPS ACTIVATION APX	0655	
QUOTEDS	WDE	TT2592	WHELEN/MOTOROLA SIREN	571	14

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 8500
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems



Updates

Effective August 26, 2019: Multi-System OTAR (GA01620) is available. Users who frequently move from one secure system to another will benefit from the ease and speed that radio keys are shared and updated. Our Multi-System Over-the-Air Rekeying (Multi-System OTAR) feature supports over-the-air-rekeying with up to 19 different secure systems, key sharing across profiles and seamless migration of fielded radios. The customer must order OTAR W/ MULTIKEY as a prerequisite for MS-OTAR.

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital APX 8500 radios in the field. FLASHport® upgrade kits contain upgrade software, USB Dongle or software license and upgrade documentation

There is a new way to upgrade radios in the field. The current method, which makes use of

the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle
- Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied
- Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. **For more information on Radio Management please refer to the [ASTRO Radio Management page](#).**

Ordering Requirements

1. **Specify** the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T8422, T8423, T8424, T8425, T8426)
2. If you choose to use Radio Management to perform the upgrade enter the online delivery method (UA0083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle
3. **Select** the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
6. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T8422	T8423	T8424	T8425	T8426
	ANALOG CONVENTIONAL	DIGITAL CONVENTIONAL	ANALOG SMARTZONE®	DIGITAL SMARTZONE®	TDMA®
OPERATION MODES (List as sub items)					
ENH: ASTRO® Digital CAI Operation G808	X	N/A	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)					

ENH: Upgrade to SMARTZONE® G51AX	X	X	N/A	N/A	N/A
ENH: TDMA Operation QA00580 (Requires G806, G51, G361)	X	X	X	X	N/A
SYSTEM ENHANCEMENT OPTIONS (List as sub items)					
ENH: Programming Over P25 (OTAP) G996	N/A	Requires AES	N/A	N/A	X
ENH: SMARTZONE® Omnilink (Non-P25) G173	N/A	N/A	X	N/A	N/A
ENH: P25 9600 Baud Trunking G361	N/A	N/A	X	N/A	N/A
ENH: Enable Internal GPS Operation GA00229	N/A	X	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)					
ADD: Multikey Operation W969	X	X	X	X	X

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital APX 8500 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

All models on this page require an export license to be exported from the US/Canada

Canada personnel refer to section a under canada only information.

Additional Ordering Information for Service Options

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8422	430	\$0.00
DIGITAL CONVENTIONAL	-	T8423	430	\$0.00
ANALOG SMARTZONE	-	T8424	430	\$0.00
DIGITAL SMARTZONE	-	T8425	430	\$0.00
TDMA	-	T8426	430	\$0.00

Radio Management Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AD	430	\$592.00
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking, G347. Compatible with T8422, T8423, T8424 models.	G173	430	\$230.00
ENH: ASTRO P25 TRUNK SOFTWARE	Includes G173 (Omnalink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AJ	430	\$345.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be	GA00580AB	430	\$518.00

	ordered.			
ENH: UPGRADE TO SMARTZONE	Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	G347AP	430	\$920.00

Enable Bands

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE 7/800 FLP	-	GA00244AE	430	\$920.00
ENH: ENABLE VHF FLP	-	GA00306AE	430	\$920.00
ENH: UHF BANDS FLP	-	GA09002AA	430	\$920.00

Dual Radio Operation

Description	Full Description	Nomenclature	APC	Price
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the O7 control head. Does not include the cables needed to complete the solution.	GA01058	430	\$650.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$173.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$288.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631AC	430	\$115.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$173.00
ENH: FPP & CLONE APX	-	G53AM	430	\$150.00
	Offers Conventional Alias updates, Trunking Alias updates			

ADD: GROUP SERVICES FLP	and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$173.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$173.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$115.00
ENH: MLTCST VOTNG SCAN-SPECTRA	Requires Digital Operation.	G387AE	430	\$230.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	GA01767AH	430	\$115.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital	G445AB	430	\$173.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AW	430	\$115.00
ADD:SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$150.00
ENH: TACTICAL RADIO SOFTWARE	Requires Digital & IV&D. Requires Hardware Encryption. Requires DVN4046B.	H02AH	430	\$86.25
ADD: WI-FI CAPABILITY	-	GA09001AB	430	\$345.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WiFi), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not	GA01630	430	\$0.00

	support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.			
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Advanced System Key

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75

Multikey

Description	Full Description	Nomenclature	APC	Price
ENH: MULTI KEY OPERATION	-	W969BJ	430	\$380.00
ADD: ENCRYPTION P25 AND MDC OTAR	-	G298AU	430	\$851.00
ADD: TACTICAL OTAR	includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AX	430	\$403.00
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$172.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$76.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
MOBILES	SCB	T8422	ANALOG CONVENTIONAL	430	16
MOBILES	SCB	T8423	DIGITAL CONVENTIONAL	430	9
MOBILES	SCB	T8424	ANALOG SMARTZONE	430	15
MOBILES	SCB	T8425	DIGITAL SMARTZONE	430	8
MOBILES	SCB	T8426	TDMA	430	6
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[SOFTWARE AND SERVICES](#)

[SHIP CARD](#)

Model



APX™ 6000 P25 Portable Radio
700/800 MHz Band
P25 Phase 2 Single Band Capable Radio



Updates

DHS Project 25 Compliance Assessment Program (CAP) has defined a "CAP Encryption Requirements compliant radio" as a radio that can be ordered without encryption or one that can be ordered with AES256. << [Click to learn more](#)>>

Effective February, 2018, the new standard 7/800 MHz whip antenna on the APX 6000 7/800 MHz model will be PMAF4040 instead of NAF5085. PMAF4040 is has a slightly thinner and more flexible form factor.

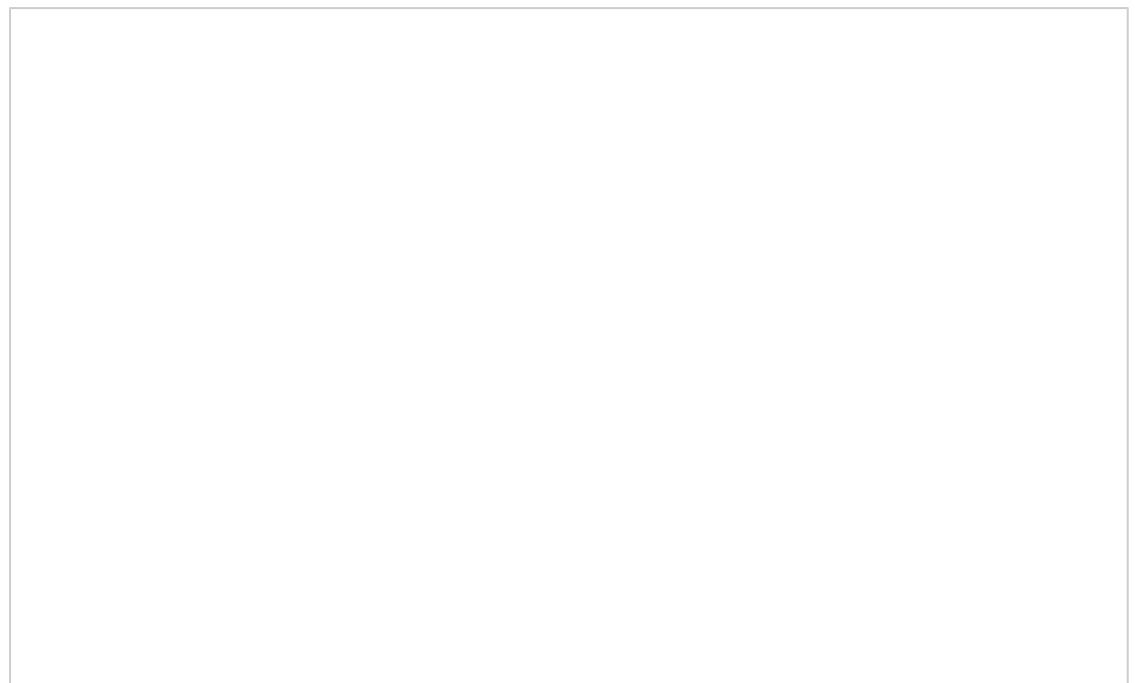
Effective March, 2018, PMNN4547 IMPRES 2 LIION 3100 MAH will be available for order on all of the APX 6000 models. This battery is slightly larger and will require a new holster, PMLN7901. This holster is now the standard carry holster for the Models 2.5 and Models 3.5 and will fit all of the current batteries in the portfolio. The legacy holster, PMLN5709 is no longer available.

Ordering Information

Features

All APX 6000 P25 Portable Radio models include the following features:

- Dual Microphone
- Integrated GPS*
- Mission-Critical Wireless Bluetooth® 4.0 (LE)*
- Detachable belt clip (Model 1.5 Only) / Carry Holster (Models 2.5 & 3.5)
- Li-ion 2550mAh IMPRES 2 Battery
- Antenna (Dependent on Frequency)
- Intelligent Lighting
- IP68
- Three programmable side buttons
- Orange programmable button
- 16-position mode rotary select switch
- Wi-Fi® 802.11 b/g/n*¹
- Angled on/off volume knob
- Low battery alert tone
- Noise cancellation software
- One top-mounted programmable three-position toggle switch
- Top display: one line of text, one line of icons, zero menu lines (8 characters)
- Advanced Digital Privacy (ADP) hardware/ software encryption ships standard w/ single key
- Emergency Find Me¹



APX 6000 P25 Portable Radio Limited Keypad and Full Keypad with Dual Display Model also includes:

- Universal carry holder
- Unified call list
- Front color display: four lines of text, two lines of icon (14 characters)
- Radio profiles
- Full keypad: 4x3 alphanumeric 3 programmable button, four-way navigation, home and data buttons

*Must purchase Software to ENABLE.

¹Features only available on the following models (Ship Acceptance August 6th, 2016): H98KGD9PW5BN, H98KGF9PW6BN, H98KGF9PW7BN

New RFID enabled volume knobs (QA04526) available for portable radios. See RFID Enabled Volume Knob section below for more information. See RFID Solution Partner link below for information on partners that can provide customers with scanner hardware and back end asset management solutions.

All APX 6000 P25 Portable Radios are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

****NOTE: APX Portable and Mobile Radios ship standard with the Software Key (QA01749). The Hardware Key (QA01648) is available as an alternative option to purchase. The System ID is required to be entered as supplemental data when ordering the Hardware Key (QA01648). It is CRITICAL that the CORRECT SYSTEM ID is entered when placing the order as this will impact the radios' ability to operate on the intended system. If an incorrect System ID is entered, a FLASHport upgrade will be required in order to fix this error. The Master Key Start-Up Kit (DVN4046) is required to use the Hardware Key (QA01648) or to operate on a third-party trunking system if the customer does not already possess one, or if theirs has expired. [Please CLICK HERE](#) for further details regarding the DVN4046 Kit.

[ASK \(Advanced System Key\)](#)

General Information

Operating Modes

APX 6000 P25 Portable Radio Models are capable of operating in **FOUR** different voice communication modes:

1. Normal analog (clear voice)
2. 3.6 kB ASTRO digital (both clear and coded voice)
3. 9.6 kB ASTRO 25 digital (both clear and coded voice)
4. 9.6 kB 12.5kHz two-slot digital TDMA (both clear and coded voice)

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) is part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA

and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

Please note: TDMA X2 is not supported on the APX6000

New to APX6000 Models

Wi-Fi

APX 6000 supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on APX 6000.

Out-of-the-box Wi-Fi Provisioning

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to "MyNetwork" and security type will be set to "None".
- c. The default state of Wi-Fi will be "on".

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to "MyNetwork" (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#).

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 6000, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

Adaptive Audio Engine

By selecting QA09006, the Adaptive Audio Engine option, the APX 6000 is equipped with a 3-watt speaker, 3 integrated microphones and the Adaptive Audio Engine. This changes the level of noise suppression, microphone gain, windporting and speaker equalization to produce clear and loud audio in any environment. QA09006 must be ordered in order to receive this feature.

IMPRES 2

Effective August 2016, the APX6000 comes standard with Q712AY, PMNN4485 SLIM IMPRES 2 LIION 2550MAH battery. Please see below for additional IMPRES 2 Battery Options available for the APX6000. The benefits of this IMPRES 2 technology requires both IMPRES 2 Batteries & IMPRES 2 Chargers. Please see the Accessories Catalog and Accessories ECAT pages for more information on IMPRES 2 technology.

Please note: QA01837 (NNTN7038), QA02021 (PMNN4403), QA00781 (NNTN7034), H335 (NNTN7037), QA02726 (NNTN7573) and Q393 (NNTN7036) are no longer be available on the APX6000.

RUGGED

The RUGGED option (H499JX) is ordered with APX 6000 Enhanced Model Numbers will now meet MIL-STD 512.X/I, IP68 submersion standards for 2 meters for 4 hours. Effective October, 2016, if H499 is selected, the standard battery is still PMNN4485A. If HAZLOC certification is required, please see the HAZLOC battery options below. The following APX6000 batteries are tested for Delta-T/Rugged standards when H499 is ordered: PMNN4485, PMNN4486, PMNN4487, PMNN4494A, NNTN8930, NNTN8921.

FLASHport AFTERMARKET UPGRADES

****PLEASE NOTE: The new APX6000 models will not share the same codeplugs as the previous APX6000 models (H98UCD9PW5AN, H98UCF9PW6AN, H98UCH9PW7AN). Direct cloning will not be available. New features, such as Wi-Fi, Bluetooth 4.0, and the Adaptive Audio Engine will not be available as a FLASHport upgrade on the previous APX6000 models (H98UCD9PW5AN, H98UCF9PW6AN, H98UCH9PW7AN).****

The APX 6000 P25 Portable Radios are part of the FLASHport Program. This means that APX 6000 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The APX 6000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

A new way to upgrade radios in the field launched in early 2015. The previous method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, a new online method will be supported in Radio Management (RM). **For more information, please select APX 6000/APX 6000XE FLASHport in the pulldown select list above.**

RADIO MANAGEMENT

Radio Management (RM) is a suite of software applications shipping with the APX Customer

Programming Software (CPS) that provides the ability to manage your entire fleet of ASTRO APX radios through one central database.

Radio Management (RM) can help reduce fleet programming time and improve overall radio asset management. Radio Management allows:

- Manage and track radio codeplugs through a central database
- Make changes to a shared codeplug template and push to multiple radios
- Manage and update radios without taking them out of service
- Schedule programming updates to radios ahead of time

Note: Radio Management is available only with Customer Programming Software Release 7.12, version R08.02.00 and later and can only be used with ASTRO® Digital APX radios. For more details regarding Radio Management and the Ordering Process, please refer to the [ASTRO Radio Management](#) page.

FCC Information

H98UCD9PW5BN, H98UCF9PW6BN, H98UCH9PW7BN Model Information

Band/Model	Power Output	Transmitter Certification	Emissions	Applicable Rules
700/800 (764-870MHz)	700 - 1 to 2.5W 800 - 1 to 3W	AZ489FT7086	8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E, 20K0F1E	90

The FCC is mandating all Public Safety and Industrial/Business licensees convert existing 25 kHz efficiency operations in the VHF and UHF bands to minimum 12.5 kHz efficiency analog or digital operation, and that going forward they implement no more 25 kHz efficiency systems. To implement this mandate, the FCC developed rules and deadlines that impact both radio users and equipment providers.

[APX 6000 Enhanced Two-way Radio Specifications Sheet](#)

[Enhancement Level Reference Guide](#)

[ASTRO 25 Subscriber At A Glance Brochure](#)

[RSA Comprehensive](#)

[RSA](#)

[Portable Accessories Catalog](#)

[PSM User Guide](#)

[Radio Applications \ Advanced System Key](#)

[Fleet Management Ordering Guide](#)

[Fleet Management Program Download Information](#)

RFID Solution Partner Information

Fleet Management software was previously distributed on DVDs shipped out of Elgin. It is now downloadable from motsolutions.com at the link below. Look at the right edge of the page under Resources Spotlight. The first link is the Order Guide which tells you what you need. The second link is a free trial version that they can download and evaluate free for 90 days. The third link is the actual program. You need to purchase a license to use it (explained in the order guide).

Accessories for APX 6000 can now be found in the select list pulldown above.

Software and Services

	"Analog Operation" (Q241/H38)	"ASTRO Digital" (Q806/H38)	"ASTRO Digital" (H38/Q806/Q361)	"TDMA" (QA00580AA)
	<i>Non-Project 25 (3600 Baud)</i>	<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>TDMA OPERATION</i>
RADIO WIDE FEATURES				
Maximum Modes				
APX 6000 Top Display	96	96	96	96
APX 6000 Limited Keypad	1000	1000	1000	1000
APX 6000 Full Keypad	1000	1000	1000	1000
Analog and Digital Operation	Yes	Yes	Yes	Yes
6.25/12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	No	Yes (Digital Only)	Yes (Digital Only)	Yes (Digital Only)
One Touch Operation	Yes	Yes	Yes	Yes

Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
DTMF Signaling	Future	Future	Future	Future

Quick-Call Signaling	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES	These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes
Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Manual Phone Number Entry	Dual Display Only	Dual Display Only	Dual Display Only	Dual Display Only
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes
	MDC-1200			

Radio Check	Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes
Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Yes	Yes
Reprogram Request	Yes	Yes	Yes	Yes
	"Analog Operation"	"ASTRO Digital"	"ASTRO Digital" (H38/Q806/Q361)	"TDMA" (QA00580AA)

	(Q241)	(Q806)		
		<i>Non-Project 25 (3600 Baud)</i>	<i>Project 25 (9600 Baud)</i>	<i>Project 25 (TDMA Operation)</i>
Trunking Type II Only Features				
Voice on Control	-	-	-	-
SmartZone Automatic Site Registration	Yes	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	Yes

Channel Spacing

There are no maximum frequency separation conditions that must be adhered to on the APX 6000 P25 portable radio. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

Zoned Operation

This option converts APX 6000 P25 portable radios to Zone Operation radios.

For Top Display radios, a maximum of 16 channels (conventional RX and TX pairs or trunking talkgroups) are accessible in a zone. There is a maximum of six accessible zones (96 channels) when zone selection operation is programmed on the 3 position toggle switch and the Zone Bank feature is programmed on a button. The Zone Bank feature allows the 3 position toggle switch to access zones 1-3 or 4-6.

For the Top Display radio there is a maximum of 6 accessible zones, and 16 accessible channels per zone with the overall maximum of 96 channels. For the Dual Display Radios with Limited keypad or Full Keypad, there is a maximum of 50 zones, 625 channels per zone with the overall maximum of 1000 channels. These radios provide "ZONE" and "CHAN" menus that allows access to zones and channels not accessible via the switches.

***Note:** Top Display Radio code plugs can be programmed with the same zone/channel configuration as the Dual Display Radios even though not all of the zones and channels are accessible. This is useful for having a common zone/channel template that can be shared between the different radio models.

Project 25 Encryption

Encryption is available for Project 25 voice (Phase 1 FDMA and Phase 2 TDMA) and data communications. The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the APX 6000 P25 Portable Radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the APX 6000 P25 Portable Radio is capable of transmitting encrypted CVSD (analog) voice or encrypted ASTRO Digital encryption voice, depending on the channel programming.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the APX 6000 P25 Portable Radio either as a factory installed option or separate from the radio for later field installation. APX 6000 P25 Portable Radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The DES-OFB and AES encryption algorithms offered are compliant with Project 25 standards, neither of which support CVSD (analog) encryption operation. These algorithms require ASTRO Digital CAI (Q806) to operate.
- The ADP, DES-XL, and DVP-XL encryption algorithms can operate in CAI digital mode, but will not be compliant with the APCO Project 25 standard.
- The DES, DES-XL, and DVP-XL encryption algorithms can operate in CVSD (analog) mode.
- If ordering multiple encryption options, the Multikey (H869) option is required for purchase.

Additional encryption algorithms can be ordered later via APX MACE Upgrades:

1. If using a KVL 4000, please [click here](#).
2. If using a KVL 3000 Plus, please [click here](#).

FIPS140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on the NIST website at: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>.

Further information regarding FIPS 140-2 certification may be found using the following link - FIPS 140-2 Crypto Module Validation Program (CMVP) <http://csrc.nist.gov/groups/STM/cmvp/index.html>

Hazardous Location

UL

The APX 6000 is certified by Underwriters' Laboratory when properly equipped with alternate battery options QA05574, QA005575, QA06304, or QA06305. When equipped with Motorola Batteries NNTN8930A or NNTN8921A, the APX6000 models are certified as intrinsically safe for use in ANSI/TIA 4950-A and CAN/CSA C22.2 NO. 157-92; Classification Rating Class I, Division 1, Groups C, D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No.213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° T3C.

[APX Series Hazloc Fact Sheet](#)

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on APX 6000 Dual Display Portable radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO P25 Conventional and Trunked IV&D Systems and Subscribers.

Text Message is NOT supported on APX 6000 Top Display (Model 1.5) Portable radio.

Ordering ASTRO Text Messaging for APX 6000 Portable Requires:

- APX 6000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- Conventional Operation (H35)

OR

- APX 6000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option. Please order Digital Operation to receive Text Messaging ability as Packet Data is a standard feature on APX Portable and Mobile Radios.

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.) On the Dual Display model only it is possible to the user to determine their own location (latitude/longitude) through the use of

the location menu.

During normal operation the radio battery capacity will be reduced by 10 to 16 percent.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around you or above you. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

Note Limitations of Use:

GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:

- Underground locations (tunnels, subways, etc.)
- Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
- Under metal or concrete roof structures
- Urban canyons (between tall buildings or under dense tree coverage)

*****GPS Performance may be degraded when the radio is worn against the body and/or against the body within a vehicle.**

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. Therefore, in any emergency situation, the location should always be verbally reported to the dispatcher.

Ordering GPS for **APX 6000 P25 Portable Radios** requires:

- APX GPS Activation (QA00782)

700/800 MHz Self-quieting Spurs

700/800 Models (1.5, 2.5, 3.5)	AN Model Frequencies	BN Model Frequencies
700 MHz	767.95	768
800 MHz	855.95	775.20
	863.95	866.40

CPS 3-Year Subscription Update

In addition to the traditional 3 Year DVD CPS software subscription (RVN5224 - List \$399), we will offer a download-only 3 Year CPS software subscription (HKVN4289A, - List \$299) which will provide access to CPS software through your Motorola Online account. Only one subscription per MOL account is needed. The original price of \$375 for RVN5224 will increase to \$399 on July 1, 2015.

How to order DVD CPS Subscription (RVN5224) through COF:

1. Sign and return the Software License Agreement
2. Order the software part number (RNN5224)
3. New releases on disk will be automatically sent for a three-year period.

How to order Download-Only CPS Subscription (HKVN4289A) through MOL:

1. Call [1-800-422-4210](tel:1-800-422-4210), option 4 (MOL Support Team) to request an MOL account or to add a CPS subscription to an existing account.
2. Sign and return the Software License Agreement through MOL
3. Order HKVN4289A
4. Provide a valid email address; as the 3 year subscription period ends subscription renewal reminders will be sent to this email address.

CPS downloads are only available on MOL for North America. Please see your regional MOL page for information on receiving CPS in other regions.

Ship Card

Data Not Available

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model**

**ASTRO® Digital APX (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000)
FLASHport®
KVL 4000 MACE CD Upgrades
Secure/Conventional/Trunked Radio
Systems**

Ordering Information**General Information**

The ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) FLASHport Motorola Advanced Crypto Engine (MACE) upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded MACE based encrypted ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) without having to replace the MACE. ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) upgrade kit (T7936) includes one CD and one Subscriber MACE Upgrade Manual.

Ordering Requirements

1. Order APX CD Motorola Advanced Crypto Engine (MACE) upgrade kit (T7936). Each upgrade kit consists of a single CD that can upgrade up to 100 individual MACE based ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000).
2. Select the *desired* algorithm software upgrade option.
 - Only one (1) encryption algorithm type can be ordered per upgrade kit.
 - Specify the number of software upgrades required.
 - Each individual MACE based ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.

- The algorithm software options must be ordered in equal number and can not exceed 100 per upgrade kit option.

3. The ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) FLASHport MACE upgrade requires the use of a key loading device (KVL 4000) and a CD to deliver the new software to the MACE.

Note: Tech Edit (TE) will request for KVL Serial Number; KVL Serial Number is REQUIRED

The following example will provide an upgrade CD to upgrade twenty (20) fielded MACE based ASTRO Digital APX Radio (8500, 8000, 7500, 7000, 6500, 6000, 4500, 4000, 3000) with the AES algorithm.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T7936	APX CD Motorola Advanced Crypto Engine (MACE) UPGRADE
1a	20	CA00182AR	ADD: AES Encryption Software

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
APX UCM UPGRADE CD	-	T7936	526	\$57.50

Options

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL				

ENCRYPTION SOFTWARE	-	CA00146AL	655	\$560.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$633.00
ADD: ADP ENCRYPTION	-	CA00243AH	655	\$402.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$689.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$86.25

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	FSC	T7936	APX UCM UPGRADE CD	526	8

JUMP TO ...

APX NEXT™

CONFIGURATION

APPLICATION SERVICES

BILLING OPTIONS

SOFTWARE AND PROVISIONING

HAZLOC APPROVED ACCESSORIES (UL DIV 2)

UPDATE HISTORY

SHIP CARD

APX NEXT™



In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. *The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.*

Motorola Solutions' latest development in our mission to advance the lifeline for public safety communications, APX NEXT builds on the values of APX by delivering new and groundbreaking capabilities

MISSION-CRITICAL DEVICE

FirstNet Certified and designed to military standards for intrinsic ruggedness. The Gorilla Glass 3 touchscreen, combined with a user interface purpose-built for public safety, works with or without gloves - in heat, rain or snow. Every interaction is simple, fast and logical so you can stay focused on what matters most - your mission and your safety.

MOBILE CONNECTION TO INTELLIGENCE

SmartConnect automatically switches between LMR and LTE to extend radio communication beyond the boundaries of the radio system, so users can concentrate on their mission and not worry about coverage.

SmartLocate let's dispatchers see where everyone under their care is, so they can stay focused on critical situations.

SmartMapping enhances situational awareness by enabling radio users to see their own location on the radio front display, find an address, drop waypoints, and view the locations other colleagues at a glance, then tap the screen to instantly communicate with them.

SmartMessaging is a secure and convenient way to share texts, images, videos and voice notes across an extended team.

ViQi Virtual Partner enables natural

language database queries, rapidly giving field personnel vital information like driver's license and license plate lookups.

STREAMLINED OWNERSHIP EXPERIENCE

Radio Central, the cloud based provisioning system, lets you prepare radios before they even arrive and **SmartProgramming** allows for radio updates to be delivered over broadband regardless of geographic location.

MyView Portal provides direct access to subscriptions, entitlements, warranties and licenses to administer your fleet, and a range of services help you to manage your operations.

Updates

- **Core Bundle** includes AES + ADP encryption (Q629), however when selecting **Custom Configuration** be aware that **effective March 5th, 2020** all U.S. APX orders will book as P25 CAP Compliant by internally generating the P25 "clear" non-encryption option QA05751 (Disable Encryption) if no other encryption is selected. ADP will no longer ship standard. ADP will now be an orderable option (Q667 for portables). Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot.
- APX NEXT radios can now be quoted and ordered in Canada. All APX NEXT radios shipping to Canada will be enabled with LTE service on the Bell Mobility network for Application Services. Order shipments will start in mid-May 2020.

Standard Features

All ASTRO Digital APX NEXT™ models include the following features:

- All-Band Capability (UHF, VHF, 7/800)
- Adaptive Audio Engine
- ADP Privacy - Single Key (Q667)
- Radio Packet Data (Q947)
- Software Key (QA01749)
- Front Display: 3.6" TFT Transflective, 24-bit Full Color
- User Interface: Capacitive Touch, immune to false actuation from water, snow, dirt or grease
- Top Color Display: 1 line of icons, 2 lines of text, 14 characters per line

- Enhanced Zone Bank (QA01768)
- GPS Software & Hardware (QA00782)
- Wireless Bluetooth® 5.0 (LE) (QA00583)
- LTE (FirstNet Certified)
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 4 Programmable Side Buttons
- Orange Programmable Button

NEW: For a limited time, every APX NEXT radio will ship with a 1 year free trial of 4 application services.*

Pick any 4 from the following services:

- SmartProgramming
- SmartConnect
- SmartLocate
- SmartMapping
- ViQi Virtual Partner
- SmartMessaging

- Top Mounted Programmable 3 Position Toggle Switch
- Dual Digital Wideband Audio Microphones
- 3 Watt Rated Audio
- IP68 (2 m, 2 hr)

SmartInsight (Device Diagnostics & Troubleshooting, Device Usage Trend and Battery Management & Prediction) will be available for APX NEXT on a preview basis, included standard for 1 year at no additional charge. During this time Motorola Solutions will be collecting customer feedback to enhance the service before the full market release.

Standard Radio configuration includes the following:

- IMPRES 2 Battery 4400 mAh IP68 (NNTN9216)
- All-Band Flexible Antenna (AN000297A01)
- Plastic Carry Holster (PMLN7947A) with 2.5" Belt Clip (NNTN8266)
- Side Connector Dust Cover (HW001924A01)

APX NEXT radios provide customers with a new ownership experience that allows radio configurations to be set up in a cloud hosted RadioCentral programming tool, even before the radios have physically arrived. On first power up, the APX NEXT radios will automatically connect over WiFi or LTE to the RadioCentral cloud database and download the preset codeplug configuration.

Default radio codeplugs are loaded into the customer's specific cloud database called Provisioning Agency, before the radios ship from the Motorola Solutions factory. A Provisioning Agency will automatically be set up for every customer the first time they

* The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

purchase APX NEXT radios.

When an APX NEXT radio is first ordered, the email address of the administrator for the Provisioning Agency has to be entered. That person will receive an email from Motorola Solutions inviting him/her to access the MyView portal and set up other users with access to the Provisioning Agency, so they can program radios going forward.

Information that you will need to place an order:

- Name and Email address of the customer's **Technical Contact**

- **Provisioning Agency** name (if the customer has multiple)

- Specify **End User Type** of who will be the users of the radios for FirstNet Service Eligibility verification (US customers only).

Available categories are: Police Protection; Fire Protection; Ambulance or Other (describe in free-form text)

- **System ID** for the system on which the APX NEXT radios will be deployed. If not known, use "FFFF"

To ensure accuracy of APX NEXT configuration, please create Quotes and Request Orders in CPQ (access through <https://motorolasolutions.my.salesforce.com>).

Configuration

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT; ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WiFi, GPS, BT, IP68	H55TGT9PW8AN	0437	\$7,492.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security Bundle is optional.

Description	Full Description	Nomenclature	APC	Price
	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase I Interop (Q361, Q806; Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI			

ADD: CORE BUNDLE	CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • ViQi VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	0437	\$2,824.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	0437	\$930.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	0437	\$188.00

Use the link below to see standalone radio software options. Standalone software options CANNOT be combined with the Core Trunking, Security or Operational Assurance bundles above.

[CLICK HERE to see standalone radio software options](#)

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	0724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming	MSV01S01416A	0727	\$27.50

	(Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs			
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Device Managed Services (Optional)*

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

* The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	0723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	0185	\$15.33
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair •	LSV01S01414A	0724	\$6.75

	RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support			
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	0724	\$17.58
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	0727	\$27.50

SmartInsight will be included standard for 1 full year with all APX NEXT radios on a preview basis, at no additional charge. During this time Motorola Solutions will be collecting customer feedback to enhance the service before the full market release.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNSTC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use

the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	0943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	0943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	0943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00

Delete Frequency Bands (Optional)

Can delete a MAXIMUM of ONE

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	0579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	0579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands.	QA05509AA	0579	(\$800.00)

Antenna (Optional)

APX NEXT ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112	579	(\$10.00)
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	0437	\$0.00

Battery Selection (Optional)

APX NEXT ships standard with the LI-ION IMPRES 2 IP68 4400 mAh battery (NNTN9216). You may select an alternate battery from the list below.

NOTE: APX NEXT batteries are only compatible with **NNTN9199** Single Unit Charger and **NNTN9115** 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T	NNTN9089 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08510AA	0437	\$160.00
ALT: BATTERY LI-ION IMPRES 2 IP68 4400T UL DIV 2	NNTN9217 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 4400mAh Battery	QA08520AA	0437	\$140.00
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AA	0437	\$180.00

DEL: DELETE BATTERY	-	H207EY	0655	\$0.00
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Carry Accessory (Optional)

APX NEXT ships standard with the PLASTIC HOLSTER (PMLN7947A) with 2.5" BELT CLIP (PMLN5407) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	0481	\$0.00
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN7947A APX NEXT PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AE	0437	\$0.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5408A 2.75" SWIVEL BELT LOOP	QA00379AA	0437	\$68.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5407A 2.5" SWIVEL BELT LOOP	QA00380AA	0437	\$68.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5409A 3" SWIVEL BELT LOOP	QA07726AA	0437	\$68.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5408A 2.75" SWIVEL BELT LOOP	QA07727AA	0437	\$68.00

ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5407A 2.5" SWIVEL BELT LOOP	QA07728AA	0437	\$68.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5409A 3" SWIVEL BELT LOOP	QA07729AA	0437	\$68.00

Packaging Selection (Optional)

APX NEXT ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in Individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BR	0437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SEQUENTIAL SERIAL NUMBER	-	QA06898AA	0655	\$100.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BB	0579	\$10.00

Application Services*

Application Services 1st Year PROMOTION (Required)

Every APX NEXT radio comes with a 1 year promotional discount on

* The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

SmartProgramming, SmartConnect, SmartLocate SmartMapping, SmartMessaging and ViQi Virtual Partner.

First time APX NEXT customers are also entitled to a 1 year SmartLocate Mapping Trial which allows them to experience broadband device tracking capabilities before deciding to purchase a CommandCentral Aware enterprise subscription.

Refer to the End-to-End ordering guide below for more details.

Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs	APC
APX NEXT SMART PROGRAMMING - PROMO+	SSV01P01407B	1 Year	-	\$75.00	712
APX NEXT SMART CONNECT - PROMO +	SSV01P01406A	1 Year	-	\$75.00	712
APX NEXT VIQI-PROMO+	SSV01P01408B	1 Year	-	\$75.00	712
APX NEXT SMART LOCATE - PROMO+	SSV01P01476A	1 Year	-	\$75.00	712
SMART LOCATE MAPPING TRIAL+ (for use with SmartLocate)	SSV01P01685B	1 Year	-	\$56.00	712
APX NEXT SMART MAPPINGPROMO+	SSV01P01902A	1 Year	-	\$75.00	712
APX NEXT SMART MESSAGING-PROMO+	SSV01P01901A	1 Year	-	\$75.00	712

Required: Apply the \$300 discount (H636) below to any 4 applications from the above list. Additional applications may be included at the discounted bundle price.

Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs	APC
APX NEXT APPLICATION BUNDLE PROMO DISCOUNT	H636AB	1 Year	-	\$300.00	523
SMART LOCATE MAPPING					

TRIAL PROMO DISCOUNT (only applies toward SmartLocate)	H638EA	1 Year	-	-\$56.00	437
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NOTE: SmartMessaging is not available in Canada. U.S. Orders that include SmartMessaging will be shipped in June 2020

Application Services Extension (Optional)

To extend Application Services beyond the 12 month promotional period, please select the desired services and duration below. **The Customers will receive a bundle discount on all application services, when 4 or more services are selected.**

NOTE: The SmartLocate Mapping Trial listed in the above section, is limited to 1 year per customer. Customers will need to purchase an enterprise CommandCentral Aware Mapping subscription to continue viewing device locations after the 1 year trial expires.

Description	Nomenclature	Duration	Single App Service	Bundle of 4+ App Svcs	APC
SMART PROGRAMMING	SSV01S01407A	1 - 24 months	\$12.00 / month	\$6.25 / month	712
SMARTCONNECT	SSV01S01406A	1 - 24 months	\$12.00 / month	\$6.25 / month	712
VIQI VIRTUAL PARTNER	SSV01S01408B	1 - 24 months	\$12.00 / month	\$6.25 / month	712
SMARTLOCATE	SSV01S01476A	1 - 24 months	\$12.00 / month	\$6.25 / month	712
SMARTMESSAGING	SSV01S01906A	1 - 24 months	\$12.00 / month	\$6.25 / month	712
SMARTMAPPING	SSV01S01907A	1 - 24 months	\$12.00 / month	\$6.25 / month	712

*The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

- o **Please refer to the End-to-End ordering guides below to see all components required to enable Application Services.**
- [SmartConnect](#)

- [SmartLocate](#)
- [ViQi Virtual Partner](#)
- [SmartMessaging](#)
- [SmartMapping](#)

If this is the first time SmartConnect, ViQi Virtual Partner, or SmartLocate are being deployed on the customer's system, please engage your Pre-Sales team to ensure that all system components required to enable the services are ordered.

NOTE: Virtual Partner accesses sensitive CJIS data requiring strict access control policies that may vary from State to State.

Use the link below to see the list of U.S. States supported by Virtual Partner and estimated timeline to deploy in states not currently available.

[Virtual Partner Available States](#)

Billing Options

Service Activation Delay

To accommodate the lead time sometimes required for new system deployments and radio configuration, customers may elect to delay the start of the Application Services and Device Managed Services contracts.

Service Activation Delay Choices are: 30, 60, 90, 120 days after the shipment of radios.

Billing Options

Device purchases are invoiced at the time of shipment.

Service billing options are: Immediate, Annually, Monthly in Arrears (Federal only)

Software and Provisioning

APX NEXT™ Out of the Box Provisioning

RadioCentral™ Factory default codeplugs for all APX NEXT radios will be made available to you in a secure cloud application. Motorola Solutions will set up a default account for your agency upon initial device purchase and invite you by email to access MyView (<https://myview.motorolasolutions.com>) to set up user accounts and download the RadioCentral programming application client.

If you already have an existing log-in for Motorola Online (MOL) or Learning Experience Portal (LXP), you can use the same credentials to access MyView and RadioCentral. Use this link to verify your Log-In ID or reset your password:

<http://myaccount.motorolasolutions.com>

Follow these steps after your MyView account is activated:

1- Log into MyView Use the credentials provided to you via email and download the latest RadioCentral application client.

2- Install the RadioCentral client and log into your database You will see the factory default codeplugs for your recently purchased APX NEXT radios.

3- Import and convert a legacy APX codeplug using RadioCentral Reuse your existing site and talkgroup information and configure new features specific to APXNEXT for example ViQi Voice Control, SmartConnect, ViQi Virtual Partner, SmartLocate and SmartMapping.

4- Schedule a programming job Apply the radio configuration to your devices. NOTE: To assure proper device deployment please ensure that your organization has received the radios before scheduling specific programming jobs.

5- Remove the radio from the box, insert a battery and turn on the radio

APX NEXT radios are enabled with LTE service and preset with default Wi-Fi SSID, to wirelessly download radio configurations and updates.

a. Upon power up, the radio will scan for the "Customer1" Network SSID access point with WPA/WPA2 security password of "MotorolaSolutions".

b. If "Customer1" is found, the radio will connect to secure hosted RadioCentral database and download any scheduled configuration. NOTE: Wi-Fi must be connected to the open Internet. If using a firewall, open port 443 for radio programming traffic.

c. If "Customer1" access point cannot be found, the radio will attempt to connect to LTE.

d. LTE connections are open to the internet by default, so if the radio is in LTE coverage, it will connect to secure RadioCentral database and download any pending configuration.

e. If neither Wi-Fi nor LTE is found, the radio will continue scanning for a broadband connection.

For security reasons, it is recommended that the first radio configuration update over "Customer1" access point would remove all default SSIDs and replace them with an agency secure network SSID and password.

For assistance, please call 800-MSI-HELP (800-674-4375).

Special Note for United States - State & Local Markets Only

In accordance with FCC mandate, the APX NEXT all band radio is restricted to 12.5 KHz operation only and does NOT support 25 KHz in the VHF and UHF Bands (excluding T-Band). This applies to customers under Rule Part 90. Customers with FCC waivers can contact their Business Development Representative.

The following LMR features are not supported in APX NEXT at this time

H02	TACTICAL RADIO STW-STUN/KILL
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QA09012	MISSION CRITICAL GEOFENCING
QA00982	SITE SELECTABLE ALERT FOR P25 TRUNKING
H43	TRUNKED REMOTE MONITOR
H04	TACTICAL REKEY WITH MULTIKEY
QA09008	GROUP SERVICES
G857	OPTIONAL EMERGENCY TONE
Q445	FIREGROUND ACCOUNTABILITY
Q53	FRONT PANEL PROGRAMMING
QA01833	EXTREME NOISE REDUCTION
H46	ONE TOUCH/ STATUS MESSAGE
QA09000	DIGITAL TONE SIGNALING
G996	OVER THE AIR PROVISIONING (LMR)
	Site Lock/Unlock (Toggle)
	Voice recording - Instant Recall
	Radio Control Lock
	Display Color Change on channel change
	DTMF Dialing (Keypad)
	Silent Emergency
	Remote Monitor
	Tactical Inhibit Stun/Kill for Portable (Encode & Decode)
	Radio Uninhibit Conventional system via USB

	Request To Talk (RTT)
	Location - Show / Edit waypoints
	Show User & Talkgroup members' current location
	Selectable location formats
	Decode Key ID Multikey
	Multisystem OTAR
	Phone Encode / Decode (Call/Notification)
	LMR Phone Call from Contacts
	Data Modem Collaboration over WiFi
	Multi PL (List)
	Intelligent Priority Scan
	Dynamic Zone Programming
	Dynamic ID
	Emergency Queuing on Harris P25 Systems (SR2019.4)
	APX Emergency Receive Notification on Harris P25 Systems(SR2019.4)
	Operational Message
	Inactivity timer for overlay
	Responder Alert -Sensor Hub
	Responder Alert Enhanced Data Delivery
	Responder Alert- Local User, Low Batt and Taser Holder

	Responder Alert - Weapon Fired
	Responder Alert - Vest Piercing via Emergency
	Cached Event Tag upon Reconnect
	Beacon - Emergency Find Me
	Evacuation Tone (Notification)
	UpdateP25 Paging - QCII Page(3.13%)
	In Call User Alert (Voice Mute)
	Zone to Zone Cloning
	Radio to Radio Cloning
	Conventional RSSI
	Radio Lock, Change Password, Secure Auto Log-on

HazLoc Approved Accessories (UL Div 2)

This information is subject to change. For the latest information on accessories approved for HazLoc environments, please refer to the UL manuals and addendums that ship with every HazLoc approved APX NEXT radio.

Audio Accessories	Model
RX ONLY EXTRA LOUD EARPIECE W/TRANSLUCENT TUBE	RLN4941BXL
RECEIVE ONLY EARBUD FOR REM SPK MIC	AARLN4885B
ACCESSORY KIT,SMART 2 WIRE W/TRANS TUBE BLK	PMLN6129A
ACCESSORY KIT,SMART 2 WIRE W/TRANS TUBE BIEGE	PMLN6130A
ACCESSORY KIT,IMPRES 2 WIRE SURVEILLANCE -BLK	PMLN6127A

AUDIO ACCY ADPT 3.5MM W/PTT	BDN6783B
COMFORT EARPIECE W/MIC & PTT BLK	RLN5312B
Antennas	Model
ANTENNA STUBBY 60mm (760-870 MHZ)	AN000296A01
APX ANTENNA WHIP ALLBAND 200mm	KT000026A01
ANTENNA WHIP ALLBAND 200mm	AN000297A01
WHIP 700/800MHZ	NAF5080A
Batteries	Model
BATT, IMPRES GEN2, LIION, IP68, 4400T, UL2054 Div 2	NNTN9217A
BATT, IMPRES GEN2, LIION, IP68, 5650T, UL2054 Div 2	NNTN9090A

Update History

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
APX_PORTABLE	US1	BD00001AA	ADD: CORE BUNDLE	0437	
APX_PORTABLE	US1	BD00010AA	ADD: SECURITY BUNDLE	0437	
APX_PORTABLE	US1	BD00015AA	ADD: OPERATIONAL	0437	

			BUNDLE		
APX_PORTABLE	US1	H02BC	ENH: TACTICAL RADIO STW- STUN/KILL	0437	
APX_PORTABLE	US1	H112	DEL: DELETE STANDARD ANTENNA	579	
APX_PORTABLE	US1	H207EY	DEL: DELETE BATTERY	0655	
APX_PORTABLE	US1	H301CN	DEL: DELETE BELT CLIP/ BASIC CARRY	0481	
APX_PORTABLE	US1	H35DC	INT: CONVENTIONAL OPERATION	0437	
APX_PORTABLE	US1	H38DA	ADD: SMARTZONE OPERATION	0437	
APX_PORTABLE	US1	H499KC	ENH: SUBMERSIBLE (DELTA T)	0437	
APX_PORTABLE	US1	H55TGT9PW8AN	APX NEXT; ALL- BAND MODEL 4.5 PORTABLE	0437	
APX_PORTABLE	US1	H797DW	ENH: DVP-XL ENCRYPTION AND ADP	0437	
APX_PORTABLE	US1	H799BB	ADD: TEST RESULTS / RATED AUDIO PRINTOUT	0579	
APX_PORTABLE	US1	H842BR	ADD: SINGLE UNIT PACKING	0437	
APX_PORTABLE	US1	H869DB	ENH: MULTIKEY	0437	

HW_MAINTENANCE	US1	LSV01P01414A	APX NEXT DMS ADVANCED SERVICE-PROMO	0724	
HW_MAINTENANCE	US1	LSV01S01410A	APX NEXT DMS ESSENTIAL	0723	
HW_MAINTENANCE	US1	LSV01S01411A	APX NEXT DMS ESSENTIAL W ACC DMG	0185	
HW_MAINTENANCE	US1	LSV01S01412A	APX NEXT DMS ADV ONSITE SETUP & TRAINING	0724	
HW_MAINTENANCE	US1	LSV01S01414A	APX NEXT DMS ADVANCED	0724	
HW_MAINTENANCE	US1	LSV01S01415A	APX NEXT DMS ADVANCED W ACC DMG	0724	
HW_MAINTENANCE	US1	LSV01S01417A	APX NEXT DMS ESS ONSITE SETUP & TRAINING	0723	
ASTRO_MANAGED_SERVICES	US1	MSV01S01413A	APX NEXT DMS PREM ONSITE SETUP & TRAINING	0727	
ASTRO_MANAGED_SERVICES	US1	MSV01S01416A	APX NEXT DMS PREMIER	0727	
HW_MAINTENANCE	U01	PSV01S01742A	APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	0943	
HW_MAINTENANCE	U01	PSV01S01743A	APX NEXT DMS TRAINING MSI SITE (1 SEAT)	0943	
			APX NEXT DMS		

HW_MAINTENANCE	U01	PSV01S01744A	TRAINING CUST SITE (12 SEATS)	0943	
APX_PORTABLE	US1	Q15AU	ADD: AES/DES- XL/DES-OFB ENCRYPTION AND ADP	0437	
APX_PORTABLE	US1	Q173CA	ADD: SMARTZONE OMNILINK	0437	
APX_PORTABLE	US1	Q241CB	ADD: ANALOG OPERATION	0437	
APX_PORTABLE	US1	Q361CD	ADD: P25 9600 BAUD TRUNKING	0437	
APX_PORTABLE	US1	Q387CB	ADD: MULTICAST VOTING SCAN	0437	
APX_PORTABLE	US1	Q444AG	ADD: NORTH AMERICA TRADE AGREEMENT (BUY AMERICA)	0655	
APX_PORTABLE	US1	Q498BN	ENH: ASTRO 25 OTAR W/ MULTIKEY	0437	
APX_PORTABLE	US1	Q625BK	ENH: DES,DES- XL,DES-OFB ENCRYPTION AND ADP	0437	
APX_PORTABLE	US1	Q629BD	ENH: AES ENCRYPTION AND ADP	0437	
APX_PORTABLE	US1	Q698AE	ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	0437	
APX_PORTABLE	US1	Q806CH	ADD: ASTRO DIGITAL CAI OPERATION	0437	

APX_PORTABLE	US1	QA00379AA	ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA00380AA	ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA00580BA	ADD: TDMA OPERATION	0437	
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	
APX_PORTABLE	US1	QA01767BL	ADD: P25 LINK LAYER AUTHENTICATION	0437	
APX_PORTABLE	US1	QA03399AK	ADD: ENHANCED DATA	0437	
APX_PORTABLE	US1	QA05507AA	DEL: DELETE 7/800 MHZ BAND	0579	
APX_PORTABLE	US1	QA05508AA	DEL: DELETE VHF BAND	0579	
APX_PORTABLE	US1	QA05509AA	DEL: DELETE UHF BAND	0579	
APX_PORTABLE	US1	QA05751AF	ADD: NO ADP FOR P25 CAP	0437	
APX_PORTABLE	US1	QA06898AA	ADD: SEQUENTIAL SERIAL NUMBER	0655	
APX_PORTABLE	US1	QA07710AA	ALT: STUBBY 7- 800MHZ 6CM ANTENNA	0437	

APX_PORTABLE	US1	QA07726AA	ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA07727AA	ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA07728AA	ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA07729AA	ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	0437	
APX_PORTABLE	US1	QA08510AA	ALT: BATTERY LI-ION IMPRES 2 IP68 5650T	0437	
APX_PORTABLE	US1	QA08520AA	ALT: BATTERY LI-ION IMPRES 2 IP68 4400T UL DIV 2	0437	
APX_PORTABLE	US1	QA08530AA	ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2	0437	
APX_PORTABLE	US1	QA09001AM	ADD: WIFI CAPABILITY	0437	
APX_PORTABLE	US1	QA09007AL	INT: OUT OF THE BOX WIFI PROVISIONING	0437	
APX_PORTABLE	US1	QA09028AA	ADD: VIQI VC RADIO	0437	

			OPERATION		
ASTRO_MANAGED_SERVICES	US1	SSV01P01406A	APX NEXT SMART CONNECT - PROMO	0712	
ASTRO_MANAGED_SERVICES	US1	SSV01P01408B	APX NEXT VIQI- PROMO	0712	
ASTRO_MANAGED_SERVICES	US1	SSV01P01476A	APX NEXT SMART LOCATE-PROMO	0712	
ASTRO_MANAGED_SERVICES	US1	SSV01S01406A	APX NEXT SMART CONNECT	0712	
ASTRO_MANAGED_SERVICES	US1	SSV01S01407A	APX NEXT SMART PROG	0712	
ASTRO_MANAGED_SERVICES	US1	SSV01S01408B	APX NEXT VIQI	0712	
ASTRO_SUA	US1	SSV01S01409A	APX NEXT ESS SOFTWARE MAINT	0771	
ASTRO_MANAGED_SERVICES	US1	SSV01S01476A	APX NEXT SMART LOCATE	0712	

JUMP TO ...

[CONFIGURATION](#)

Configuration

2. Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	0437	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	0437	\$1,500.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361CD	0437	\$300.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	0437	\$515.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	0437	\$1,500.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	0437	\$515.00
INT: CONVENTIONAL OPERATION	-	H35DC	0437	\$800.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241CB	0437	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	0437	\$1,500.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241CB	0437	\$0.00
INT: CONVENTIONAL OPERATION	-	H35DC	0437	\$800.00

3. WiFi Connectivity (Required)

WiFi Capability and Out of Box Provisioning must be selected with APX NEXT

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI CAPABILITY	APX NEXT radios can programmed only wirelessly. The APX NEXT radios are enabled with LTE service. However if LTE coverage is not available, the radios can use a preset default Wi-Fi SSID, to wirelessly download radio configurations and updates. • Includes	QA09001AM	0437	\$300.00

	Out of Box Provisioning over WiFi (QA09007)			
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Encryption Algorithm Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: AES ENCRYPTION AND ADP	-	Q629BD	0437	\$475.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625BK	0437	\$599.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHZ Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797DW	0437	\$487.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15AU	0437	\$799.00
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751AF	0437	\$0.00

Submersible Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr)	H499KC	0437	\$150.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580BA	0437	\$450.00
ADD: VIQI VC RADIO OPERATION	Use ViQi Voice Control to operate the radio with voice commands. Change Channels and Zones, adjust Volume level, activate Audio Profiles, start/stop Scan, get Battery Level information.	QA09028AA	0437	\$100.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399AK	0437	\$150.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767BL	0437	\$100.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387CB	0437	\$200.00
ADD: MANDOWN OPERATION	If a user becomes incapacitated, and is lying down motionless, an automatic Man Down Emergency Alarm or Emergency Call will be sent out on the programmed talk group.	QA01843AR	0437	\$150.00
ADD: DVRS PSU ACTIVATION	Extends Portable Subscriber Unit (PSU) coverage through a Digital Vehicular Repeater System (DVRS) connected to a High Power Mobile radio.	QA00631AL	0437	\$100.00

[Click Here to Return to APX NEXT Main price page](#)

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

APX NEXT ACCESSORIES

Updates

NOTE: only the accessories listed below have been certified with APX NEXT radios

Ordering Information

General Information

The APX P25 mission critical two-way radio series redefines safety in portable communication. From the fire line to the factory line, APX puts the right devices into the hands of the right user. Every feature and function is designed with its users in mind - from the rugged, easy to operate design to the loudest, clearest audio. The result is the ability to keep your people and community safer than ever before.

Extend the power and reliability of your radio with the only complete line of accessories designed, tested and certified for optimal performance with APX portables. This flexible portfolio offers solutions that meet your customers' specific needs. This includes a robust and complete portfolio of remote speaker microphones including the XE Remote Speaker Microphone which has been designed specifically for harsh conditions for the fireground. And the APX Mission Critical Wireless portfolio delivers best-in-class Bluetooth® wireless designed specifically for first responders. While our IMPRES smart battery and charger solutions ensure your responders have a battery that is ready to go at the moment they need it.

Every Motorola battery, charger, audio accessory, carry case and antenna is best-in-class technology, designed and optimized specifically for your APX portable.

[Two-Way Radio Accessories Home Page](#)

[APX Accessory & Energy Catalog](#)

[Battery Warranty](#)

[Battery Storage, Handling & Care Tips](#)

Note: many of the below categories contain hyperlinks. External links need to be opened in a New Tab or New Window

Configuration

2-Way Radio Accessories

Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA, STUBBY,STUBBY 65MM (760-870 MHZ)	-	AN000296A01	555	\$30.00
ANTENNA, WHIP,WHIP, ALL BAND	-	AN000297A01	555	\$110.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK,IMPRES GEN2, LIION,IP68, 3850T	-	NNTN9087A	453	\$190.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 3850T, UL2054 DIV 2	-	NNTN9088A	453	\$220.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T	-	NNTN9089A	453	\$240.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2	-	NNTN9090A	453	\$270.00
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T	-	NNTN9216A	453	\$205.00
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2	-	NNTN9217A	453	\$235.00

Battery Chargers

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Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CA/LA PLUG, ACC-CHARGER	-	NNTN9115A	414	\$1,250.00
INSERT RADIO NEXT G2I PERFORMANCE MUC	-	NNTN9212A	796	\$50.00
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	-	NNTN9199A	785	\$150.00

Audio Accesories

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$126.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00
XV REMOTE SPEAKER MICROPHONE	-	PMMN4123A	372	\$435.00
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$73.00
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	742	\$123.00

Belt Clips / Belt Loops

Description	Full Description	Nomenclature	APC	Price
3" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5409	271	\$12.00
APX 7000 2.5" REPLACEMENT SWIVEL				

BELT LOOP	-	PMLN5407	271	\$12.00
2.75" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5408	271	\$12.00
2.5" PLASTIC BELT CLIP ATTACHMENT	-	NTN8266B	271	\$12.00
3" BELT CLIP	-	PMLN7965A	271	\$12.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
APX NEXT CLASSIC HOLSTER	-	PMLN7947A	271	\$35.00
APX NEXT HYBRID LEATHER HOLSTER, STANDARD BATTERY	-	PMLN7948A	271	\$85.00
APX NEXT HYBRID LEATHER HOLSTER, HIGH CAP BATTERY	-	PMLN7964A	271	\$85.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	0105954U29	REPLACEMENT CLEAR ACOUSTIC TUBE	795	4
FIXEDSTN	CDP	30009402001	RSM REPLACEMENT CABLE	372	5
FIXEDSTN	CDP	30009402002	RSM REPLACEMENT CABLE ASSEMBLY	372	5
FIXEDSTN	CDP	3075336B17	DISPLAY RSM GCAI, REPLACEABLE CABLE	372	3

PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	RNS	4200865599	BELT WAIST BLK	271	8
PARTS	CDP	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	2
PARTS	RNS	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	0
PARTS	PGF	5080370E97	REPLACEMENT RUBBER EARTIPS, CLEAR	742	63
FIXEDSTN	RNS	67009254001	RUBBER EAR TIP, CLEAR	742	25
FIXEDSTN	CDP	67009254001	RUBBER EAR TIP, CLEAR	742	5
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AN000296A01	ANTENNA, STUBBY,STUBBY 65MM (760-870 MHZ)	555	5
ACCESSORY	CDP	AN000297A01	ANTENNA, WHIP,WHIP, ALL BAND	555	5
FIXEDSTN	CDP	AY000223A01	CARRY ACCESSORY- STRAP,WITH BUTTON BACK HOLDER	271	4
FIXEDSTN	CDP	AY000229A01	CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	271	14
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
FIXEDSTN	PDC	BDN6783B	AUDIO ACCY ADPT 3.5MM W/PTT	742	3
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6

COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
COMPONENTS	PDC	FAF5259A	UHF1 GPS STUBBY ANTENNA	555	6
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
FIXEDSTN	CDP	FAF5260A	UHFR2 GPS STUBBY ANTENNA	555	9
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	CDP	HLN6602	CHESTPACK, UNIVERSAL	271	3
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4101B	IMPRES RSM NO DSPLY W JACK, NO CHNL	372	11
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	CDP	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	372	5
FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4

FIXEDSTN	PDC	HMN4104B	IMPRES RSM DSPLY W JACK, W CHNL	372	4
FIXEDSTN	CDP	KT000026A01	KIT, ANTENNA, ALL-BAND, 20CM	555	5
FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2
FIXEDSTN	CDP	NAG4000	APX 7000 GPS STUBBY ANTENNA	555	2
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	CDP	NAR6595A	ANT 1/4 WAVE 7/800 STUBBY	555	5
FIXEDSTN	PDC	NMN6271A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	372	6
FIXEDSTN	CDP	NMN6274A	IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	372	6
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
PORTABLES	CDP	NNTN7593A	CHR IMP DISP DUC EXT US/NA/CA/LA	785	7
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	PDC	NNTN7624C	CHARGER,CHR IMP VEH EXT NA/EU KIT	785	8
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2

FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	CDP	NNTN8045A	CHARGR INTRFCE UNT GEN1 IMPRES SUC	129	9
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8294A	1-WIRE EARBUD,29CM CORD,BLACK	742	11
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	PGF	NNTN8295A	1-WIRE EARBUD,116CM CORD,BLACK	742	28
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8296A	ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	742	3
FIXEDSTN	CDP	NNTN8361A	EARTIPS, BULK REPLACEMENT	742	3
FIXEDSTN	CDP	NNTN8442A	MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	742	4

FIXEDSTN	CDP	NNTN8457A	NECKLOOP RETENTION HOOK, BULK REPLACEMENT	372	3
FIXEDSTN	CDP	NNTN8749A	CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	372	3
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8844A	CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	785	6
FIXEDSTN	CDP	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	785	6
FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7
FIXEDSTN	CDP	NNTN8863A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	785	7
ACCESSORY	CDP	NNTN9087A	BATTERY PACK,IMPRES GEN2, LIION,IP68, 3850T	453	5
ACCESSORY	CDP	NNTN9088A	BATTERY PACK,IMPRES GEN2, LIION, IP68, 3850T, UL2054 DIV 2	453	5
ACCESSORY	CDP	NNTN9089A	BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T	453	5
ACCESSORY	CDP	NNTN9090A	BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2	453	5
ACCESSORY	CDP	NNTN9115A	CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CA/LA PLUG, ACC-CHARGER	414	5
ACCESSORY	CDP	NNTN9199A	IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	785	1

ACCESSORY	CDP	NNTN9212A	INSERT RADIO NEXT G2I PERFORMANCE MUC	796	5
ACCESSORY	CDP	NNTN9216A	BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T	453	4
ACCESSORY	CDP	NNTN9217A	BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2	453	60
FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742	5
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
FIXEDSTN	CDP	NTN2571B	WIRELESS 2.0 COMMPORT IC MODULE	742	11
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PORTABLES	CDP	NTN2572A	EARPIECE W/12" CABLE	742	2
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3
PARTS	CDP	NTN8266B	2.5" PLASTIC BELT CLIP ATTACHMENT	271	3

PARTS	CDP	NTN8821	COMMPORT MAINTENANCE KIT	115	2
PARTS	CDP	NTN8988A	COMMPORT EAR STRAP (PACK OF 10)	115	10
FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
FIXEDSTN	CDP	PMAF4002	APX PSM 700/800MHZ ANTENNA	372	6
ACCESSORY	CDP	PMAF4040A	ANTENNA, ANTENNA, WHIP,ANTENNA, WHIP,700-800MHZ	555	5
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMAS4001A	UHF (380-520) /7-800 GPS	555	4
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5407	APX 7000 2.5" REPLACEMENT SWIVEL BELT LOOP	271	6
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5408	2.75" REPLACEMENT SWIVEL BELT LOOP	271	4
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5409	3" REPLACEMENT SWIVEL BELT LOOP	271	2
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5659B	APX6000 CC 2.75 SWL BL 4200MAH	271	4
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3
FIXEDSTN	CDP	PMLN5660B	APX6000 CC 3 FIX BL 4200MAH	271	3

FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN5709A	APX6000 UNIVERSAL CARRY HOLDER	271	5
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6125A	1 WIRE SURVEILLANCE KIT- BLACK	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6126A	1 WIRE SURVEILLANCE KIT- BIEGE	742	4
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6127A	IMPRES 2 WIRE SURVEILLANCE - BLK	742	2
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	CDP	PMLN6128A	IMPRES 2 WIRE SURVEILLANCE- BGE	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE BLK	742	1
FIXEDSTN	PDC	PMLN6129A	IMPRES 2 WIRE W/TRANS TUBE	742	1

			BLK		
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6130A	IMPRES 2 WIRE W/TRANS TUBE BEIGE	742	7
FIXEDSTN	CDP	PMLN6246A	WIRELESS POD SWIVEL CLIP	742	2
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6766A	ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	742	9
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6767A	ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	742	2
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6802A	ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	271	7
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6827A	ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	742	5
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10
FIXEDSTN	CDP	PMLN6829A	ACCESSORY KIT,TACTICAL EAR MICROPHONE	742	10

FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
FIXEDSTN	CDP	PMLN6830A	ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	742	9
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
ACCESSORY	CDP	PMLN7052A	1-WIRE SURVEILLANCE KIT FOR OCW/MCW	742	3
FIXEDSTN	PDC	PMLN7696A	AUDIO ACCESSORY- SURVEILLANCE,NECKLOOP AND DISCREET EARPIECE KIT	742	6
FIXEDSTN	PDC	PMLN7696A	AUDIO ACCESSORY- SURVEILLANCE,NECKLOOP AND DISCREET EARPIECE KIT	742	6
ACCESSORY	PDC	PMLN7901A	UNIVERSAL HOLDER FOR STD MODELS	271	8
ACCESSORY	CDP	PMLN7903A	LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	271	6
ACCESSORY	CDP	PMLN7904A	LEATHER CARRY CASE WITH D- RINGS AND 2.75" SWIVEL BELT LOOP	271	6
ACCESSORY	CDP	PMLN7947A	APX NEXT CLASSIC HOLSTER	271	5
ACCESSORY	CDP	PMLN7948A	APX NEXT HYBRID LEATHER HOLSTER, STANDARD BATTERY	271	5
ACCESSORY	CDP	PMLN7964A	APX NEXT HYBRID LEATHER HOLSTER, HIGH CAP BATTERY	271	5
ACCESSORY	CDP	PMLN7965A	3" BELT CLIP	271	5
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3
FIXEDSTN	CDP	PMMN4059B	PSM IP55 WITH 3.5MM JACK RX 18IN	372	3

FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4060B	PSM IP55 WITH 3.5MM JACK RX 24IN	372	6
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4061B	PSM IP55 WITH 3.5MM JACK RX 30IN	372	16
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4083A	IMPRES RSM DELTA-T,	742	9
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4084A	PLUS RSM NC IP54 THRD 3.5MM JACK RX	742	4
FIXEDSTN	CDP	PMMN4099A	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	372	5
ACCESSORY	CDP	PMMN4099B	IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	372	15
FIXEDSTN	CDP	PMMN4106B	"AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	372	6
FIXEDSTN	CDP	PMMN4106BBLK	APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	372	5
FIXEDSTN	CDP	PMMN4107A	XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	372	66
FIXEDSTN	CDP	PMMN4107ABLK	APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	372	8

ACCESSORY	CDP	PMMN4123A	XV REMOTE SPEAKER MICROPHONE	372	5
PARTS	CDP	PMNN4461A	BATT STD LIION 1800T	453	4
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4485	BATT IMPRES 2 LIION R IP68 2550T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4486	BATT IMPRES 2 LIION R IP68 3400T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4487	BATT IMPRES 2 LIION R IP68 4850T	453	6
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
FIXEDSTN	CDP	PMNN4494	BATT IMPRES 2 LIION R IP68 5100T	453	5
ACCESSORY	PDC	PMNN4547A	BATT IMPRES 2 LIION TIA4950 R IP68 3100T	453	1
FIXEDSTN	CDP	PMPN4027A	PWR SUPPLY, SMPS, MICRO USB-NA	785	1
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PARTS	CDP	RLN4570A	BREAKAWAY CHEST PACK	271	6
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5


PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
PORTABLES	SCB	RLN4760	SMALL CUSTOM EARPIECE, RIGHT EAR	742	5
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
ACCESSORY	SCB	RLN4761	MEDIUM CUSTOM EARPIECE, RIGHT EAR	742	72
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	SCB	RLN4762	LARGE CUSTOM EARPIECE, RIGHT EAR	742	12
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4763	SMALL CUSTOM EARPIECE, LEFT EAR	742	3
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4

PORTABLES	CDP	RLN4764	MEDIUM CUSTOM EARPIECE, LEFT EAR	742	4
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4765	LARGE CUSTOM EARPIECE, LEFT EAR	742	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
ACCESSORY	CDP	RLN4941AXL	REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	3
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PORTABLES	PDC	RLN5037	COMMPORT EAR TUBES (PACK OF 10)	115	2
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742	2
PARTS	CDP	RLN5312B	CMFRT EARPC W/MIC & PTT BLK	742	2
PARTS	CDP	RLN5313B	RECEIVE NLY SURV KIT (BLACK) /NOISE	742	9
FIXEDSTN	CDP	RLN5314B	RECEIVE ONLY SURV KIT(BEIGE)/NOISE	742	15

PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5886A	SURVEILLANCE LOW NOISE KIT	742	6
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
PARTS	CDP	RLN5887A	SURVEILLANCE HIGH NOISE KIT	742	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
FIXEDSTN	CDP	RLN6075	IMPRES RSM REPL COIL CORD	372	4
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
PARTS	CDP	RLN6282A	REPLACEMENT EAR TIPS, CLEAR-50/PAK	742	4
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
FIXEDSTN	RNS	RLN6424B	RX ONLY EARPIECE W/TRANSLUCENT TUBE	742	80
ACCESSORY	CDP	RLN6424BXL	RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	742	7
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3

FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6489A	COVERT PACK-N-GO KIT	742	5
FIXEDSTN	CDP	RLN6491A	XBT HEADSET HB, HEAVY DUTY HEADSET, BT	742	4
FIXEDSTN	CDP	RLN6501A	COVERT PACK-N-GO KIT, ADVANCED	742	15
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6511A	ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6512A	ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	742	5
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17
FIXEDSTN	CDP	RLN6513A	ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	742	17

FIXEDSTN	PDC	RLN6544A	MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	372	7
FIXEDSTN	CDP	RLN6554A	ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	372	8
PARTS	CDP	RMN4055B	RX ONLY HDBND HDST 3.5MM RT ANGLE P	742	20
PORTABLES	CDP	RMN4056B	RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	742	5
PARTS	CDP	RMN4057	RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	742	4
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PARTS	CDP	RMN5058A	CORE L/W HEADSET	742	7
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
PORTABLES	CDP	RMN5116A	RX/TX BOOMLESS TEMPLE TRANSDUC	742	5
ACCESSORY	CDP	RMN5133A	AUDIO ACCESSORY- HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	742	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PARTS	CDP	RNN4005	1.4V BATTERY - 6 PACK	452	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4



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JUMP TO ...

[APX NEXT APPLICATION SERVICES](#)

APX NEXT Application Services

Configuration

In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. *The purchase or use of any of the subscription services which are features available through the APX Next device will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.*

Select from the list below to extend the Standalone Application Services beyond the 1 year free trial.

If selecting 2 or more Standalone Application Services - consider using the Application Service Bundle. The duration (QTY) of all selected application services must be the same.

Quoting Standalone Application Services, instead of the Application Services Bundle, requires Area Sales Manager approval.

NOTE: Pricing shown is per month (i.e. Qty 12 = 12 months). Available choices are 12, 36 and 60 months.

Description	Full Description	Nomenclature	APC	Price
APX NEXT SMART PROG	SmartProgramming application service extension beyond the 1st year free trial.	SSV01S01407A	0712	\$12.00
APX NEXT SMART CONNECT	SmartConnect application service extension beyond the 1st year free trial.	SSV01S01406A	0712	\$12.00
APX NEXT SMART LOCATE	SmartLocate application service extension beyond the 1st year free trial.	SSV01S01476A	0712	\$12.00
APX NEXT VIQI	ViQi Virtual Partner application service extension beyond the 1st year free trial.	SSV01S01408B	0712	\$12.00

NOTE: Virtual Partner accesses sensitive CJIS data requiring strict access control policies that may vary from State to State.

The following 31 states have full functional support of Virtual Partner:

Alaska (AK),California (CA),Connecticut (CT),Florida (FL),Georgia (GA),Hawaii (ID),Illinois (IL),Indiana (IN),Iowa (IA),Kentucky (KY),Maine (ME),Massachusetts (MA), Minnesota (MN),Missouri (MO),Nebraska (NE),New Jersey (NJ),New York (NY),North Dakota (ND),Oregon (OR),Pennsylvania (PA),Rhode Island (RI),South Carolina (SC),South Dakota (SD),Tennessee (TN),Texas (TX),Virginia (VA),Washington (WA),West Virginia (WV),Wisconsin (WI),Wyoming (WY), District of Columbia (DC) (31)

Partial Supported States: Driver's License Query only: Arizona (AZ)

Partial Supported States: License Plate, Driver's License Query only. (No VIN support): Idaho (ID), New Mexico (NM) (2)

Virtual Partner is not supported in the following 17 states at this time:

Alabama (AL),Arkansas (AR),Colorado (CO),Delaware (DE),Kansas (KS),Louisiana (LA),Maryland (MD),Michigan (MI),Mississippi (MS),Montana (MT),Nevada (NV),New Hampshire (NH),North Carolina (NC),Ohio (OH),Oklahoma (OK),Utah (UT), and Vermont (VT)

SUBSCRIPTION SERVICES AGREEMENT

Motorola Solutions, Inc. ("Motorola") and _____ ("Customer") enter into this Subscription Services Agreement ("Agreement") pursuant to which Customer will purchase and Motorola will sell a subscription to access the subscription services described below. Motorola and Customer may be referred to individually as a "Party" and collectively as the "Parties."

The terms of the Agreement, including addendums, exhibits, and attachments combined with the terms of any applicable Incorporated Documents will govern the products and services offered pursuant to this Agreement. To the extent there is a conflict between the terms and conditions of the Agreement and the terms and conditions of the applicable Incorporated Documents, the Incorporated Documents take precedence.

1. DEFINITIONS

Capitalized terms used in this Agreement have the meanings set forth below. Any reference to the purchase or sale of software or other Intellectual Property shall mean the sale or purchase of a license or sublicense to use such software or Intellectual Property in accordance with this Agreement.

"Administrator" means Customer's designated system administrator who receives administrative logins for the Subscription Services and issues access rights to Customer's Users.

"Anonymized" means having been stripped of any personal or correlating information revealing original source or uniquely identifying a person or entity.

"Confidential Information" means any information that is disclosed in written, graphic, verbal, or machine-recognizable form, and is marked, designated, or identified at the time of disclosure as being confidential or its equivalent; or if the information is in verbal form, it is identified as confidential at the time of disclosure and is confirmed in writing within thirty (30) days of the disclosure. Confidential Information does not include any information that: is or becomes publicly known through no wrongful act of the receiving Party; is already known to the receiving Party without restriction when it is disclosed; is or becomes, rightfully and without breach of this Agreement, in the receiving Party's possession without any obligation restricting disclosure; is independently developed by the receiving Party without breach of this Agreement; or is explicitly approved for release by written authorization of the disclosing Party.

"Customer Data" means Native Data provided by Customer to Motorola hereunder to be processed and used in connection with the Subscription Services. Customer Data does not include data provided by third parties and passed on to Motorola.

"Deliverables" means all written information (such as reports, analytics, Solution Data, specifications, designs, plans, drawings, or other technical or business information) that Motorola prepares for Customer in the performance of the Services and is obligated to provide to Customer pursuant to the applicable Statement of Work. The Deliverables, if any, are more fully described in the Statement of Work.

"Documentation" means the technical materials provided by Motorola to Customer in hard copy or electronic form describing the use and operation of the Solution and Software, including any technical manuals, but excluding any sales, advertising or marketing materials or proposals.

"Effective Date" means the date of the last signature on this Agreement, unless access to the Subscription Service occurs later, in which case, the Effective Date will be the date when Customer first has access to the Subscription Services.

“Feedback” means comments or information, in oral or written form, given to Motorola by Customer, in connection with or relating to the Solution and Subscription Services.

“Force Majeure” which means an event, circumstance, or act that is beyond a Party’s reasonable control, such as an act of God, an act of the public enemy, an act of a government entity, strikes, other labor disturbances, supplier performance, hurricanes, earthquakes, fires, floods, epidemics, embargoes, war, riots, or any other similar cause.

“Licensed Product” means 1) Software, whether hosted or installed at Customer’s site, 2) Documentation; 3) associated user interfaces; 4) help resources; and 5) any related technology or other services made available by the Solution.

“Native Data” means data that is created solely by Customer or its agents.

“Proprietary Rights” means the patents, patent applications, inventions, copyrights, trade secrets, trademarks, trade names, mask works, know-how, ideas and concepts, moral rights, processes, methodologies, tools, techniques, and other intellectual property rights.

“Software” means the Motorola owned or licensed off the shelf software programs delivered as part of the Licensed Products used to provide the Subscription Services, including all bug fixes, updates and upgrades.

“Solution” means collectively, the Software, servers and any other hardware or equipment operated by Motorola and used in conjunction with the Subscription Services.

“Solution Data” means Customer Data that is transformed, altered, processed, aggregated, correlated or operated on by Motorola, its vendors or other data sources and data that has been manipulated or retrieved using Motorola know-how to produce value-added content that is made available to Customer with the Solution and Subscription Services.

“Statement of Work” If included, the Statement of Work (“SOW”) describes the Subscription Services, Deliverables (if any), Licensed Products and Solution that Motorola will provide to Customer under this Agreement, and the other work-related responsibilities that the parties owe to each other. The Statement of Work may contain a performance schedule.

“Subscription Services” means those subscription services to be provided by Motorola to Customer under this Agreement, the nature and scope of which are more fully described in the Documentation, proposal, SOW, or other Solution materials provided by Motorola, as applicable.

“Users” means Customer’s authorized employees or other individuals authorized to utilize the Subscription Services on behalf of Customer and who will be provided access to the Subscription Services by virtue of a password or equivalent security mechanism implemented by Customer.

2. SCOPE

21 **Subscription Services.** Motorola will provide to Customer the Subscription Services and Deliverables (if any). As part of the Subscription Services, Motorola will allow Customer to use the Solution described in the Statement of Work, Documentation, proposal, or other Solution materials provided by Motorola (“Incorporated Document(s)”), as applicable. Some Subscription Services will also be subject to additional terms unique to that specific Subscription Service. Such additional terms will be set forth in an Addendum. In the event of a conflict between an Addendum and the body of the

Agreement, the Addendum will govern resolution of the conflict. Motorola and Customer will perform their respective responsibilities as described in this Agreement and any applicable Incorporated Documents.

22 **Changes.** Customer may request changes to the Services. If Motorola agrees to a requested change, the change must be confirmed in writing and signed by authorized representatives of both parties. A reasonable price adjustment will be made if any change affects the time of performance or the cost to perform the Services.

23 **Non-solicitation.** During the term of this Agreement and for twelve (12) months thereafter, Customer will not actively solicit the employment of any Motorola personnel who is involved directly with providing any of the Services.

3. TERM

31 **Term.** Unless a different Term is set forth in an applicable Addendum or the Incorporated Documents, the Term of this Agreement begins on the Effective Date and continues for twelve (12) months. The Agreement automatically renews annually on the anniversary of the Effective Date, unless either Party notifies the other of its intention to not renew the Agreement (in whole or part) at least thirty (30) days before the anniversary date or until termination by either Party in accordance with the Termination section of this Agreement.

32 **Minimum Initial Term.** For certain Subscription Services, a minimum initial term greater than one year may be required ("Minimum Initial Term"). Following the Minimum Initial Term, this Agreement will automatically renew upon each anniversary of the Effective Date for a successive renewal term of the same duration as the Minimum Initial Term, unless either Party: 1) notifies the other of its intention to not renew the Agreement (in whole or part) at least thirty (30) days before the anniversary date; 2) requests an alternate term; or 3) terminates in accordance with the termination provision in the Agreement, including non-payment of fees for the renewal period by the anniversary date.

33 **Renewals.** The terms and conditions of the Agreement and will govern any renewal periods.

4. **CUSTOMER OBLIGATIONS.** Customer will fulfill all of its obligations in this Agreement, including applicable addendums and Incorporated Documents in a timely and accurate manner. Failure to do so may prevent Motorola from performing its responsibilities.

41 **Access.** To enable Motorola to perform the Subscription Services, Customer will provide to Motorola reasonable access to relevant Customer information, personnel, systems, and office space when Motorola's employees are working on Customer's premises, and other general assistance. Further, if any equipment is installed or stored at Customer's location in order to provide the Subscription Services, Customer will provide, at no charge, a non-hazardous environment with adequate shelter, heat, light, power, security, and full and free access to the equipment.

42 **Customer Information.** If the Documentation, Statement of Work, proposal, or other related documents contain assumptions that affect the Subscription Services or Deliverables, Customer will verify that they are accurate and complete. Any information that Customer provides to Motorola concerning the Subscription Services or Deliverables will be accurate and complete in all material respects. Customer will make timely decisions and obtain any required management and third party approvals or consents that are reasonably necessary for Motorola to perform the Subscription Services and its other duties under this Agreement. Unless the Statement of Work states the contrary, Motorola may rely upon and is not required to evaluate, confirm, reject, modify, or provide advice concerning any assumptions and

Customer-provided information, decisions and approvals described in this paragraph.

43 **Risk of Loss.** If any portion of the Solution resides on Customer premises or is under Customer's control in any way, Customer shall at all times exercise reasonable care in using and maintaining the Solution in accordance with Motorola's instructions for proper use and care. Risk of loss to any equipment in Customer's possession will reside with Customer until removed by Motorola or its agent or returned by Customer. Customer will be responsible for replacement costs of lost or damaged equipment, normal wear and tear excluded.

44 **Equipment Title.** Unless Customer is purchasing equipment pursuant to the terms in the Addendum entitled "Equipment Purchase" and unless stated differently in this Agreement or in the Incorporated Documents, title to any equipment provided to Customer in connection with the Subscription Services remains vested in Motorola at all times. Any sale of equipment pursuant to this Agreement will be governed by the terms and conditions set forth in the Equipment Purchase Addendum.

45 **Enable Users.** Customer will properly enable its Users to use the Subscription Services, including providing instructions for use, labeling, required notices, and accommodation pursuant to applicable laws, rules, and regulations. Unless otherwise agreed in the Incorporated Documents, Customer will train its Users on proper operation of the Solution and Licensed Products. Customer agrees to require Users to acknowledge and accept the limitations and conditions of use of the Licensed Products in this Agreement prior to allowing Users to access or use Subscription Services.

46 **Non-preclusion.** If, as a result of the Subscription Services performed under this Agreement, Motorola recommends that Customer purchase products or other services, nothing in this Agreement precludes Motorola from participating in a competitive opportunity or otherwise offering or selling the recommended products or other services to Customer. Customer represents that this paragraph does not violate its procurement or other laws, regulations, or policies.

5. **Subscription Fees.**

51 **Recurring Fees.** Unless stated differently in an applicable addendum, Incorporated Documents or otherwise arranged in writing with Motorola, Services will be provided in exchange for annual pre-paid Subscription Fees. Motorola will submit an invoice for the first year of subscription fees on the Effective Date. On each anniversary of the Effective Date, Motorola will issue an invoice for the annual subscription fees for the following year.

51.1 **No Purchase Order Requirement.** For a Subscription Services Term exceeding one year, Customer affirms that a purchase order or notice to proceed is not required for Motorola to proceed with the entire scope of work described in the Incorporated Documents for subsequent years, including but not limited to multi-year subscription agreements.

52 **Start Up Fees.** Start up fees apply to certain Subscription Services. If the Subscription Service includes start up fees, Motorola will submit an invoice for the start up fees on the Effective Date.

53 **Fee Change.** Motorola reserves the right to change the subscription fees at the end of each Subscription Services Term. Except for any payment that is due on the Effective Date, Customer will make payments to Motorola within thirty (30) days after the date of each invoice. Motorola reserves the right to terminate Service for non-payment of fees.

54 **No Price Guarantee.** Notwithstanding any language to the contrary, the pricing and fees associated with this Agreement will not be subject to any most favored pricing commitment or other similar low price guarantees.

55 **Taxes.** The Subscription Fees and start up fees do not include any excise, sales, lease, use, property, or other taxes, assessments or duties, all of which will be paid by Customer, except as exempt by law. If Motorola is required to pay any of those taxes, it will send an invoice to Customer and Customer will pay to Motorola the amount of the taxes (including any interest and penalties) within thirty (30) days after the date of the invoice. Motorola will be solely responsible for reporting taxes on its income or net worth.

6. ACCEPTANCE; SCHEDULE; FORCE MAJEURE

61 **Acceptance.** The Licensed Products will be deemed accepted upon the delivery of usernames and passwords or other validation mechanism to Customer. If usernames and passwords have been issued to Customer prior to the Effective Date, the Licensed Products will be deemed accepted on the Effective Date.

62 **Schedule.** All Subscription Services will be performed in accordance with the performance schedule included in the Statement of Work, or if there is no performance schedule, within a commercially reasonable time period.

63 **Force Majeure.** Neither Party will be liable for its non-performance or delayed performance if caused by a Force Majeure. Each Party will notify the other in writing if it becomes aware of any Force Majeure that will significantly delay performance. The notifying Party will give the notice promptly (but in no event later than fifteen (15) days) after it discovers the Force Majeure.

7. LIMITED LICENSE

7.1 **Licensed Products.** Use of the Licensed Products by Customer and its Users is strictly limited to use in connection with the Solution or Subscription Services during the Term. Customer and Users will refrain from, and will require others to refrain from, doing any of the following with regard to the Software in the Solution: (i) directly or indirectly, by electronic or other means, copy, modify, or translate the Software; (ii) directly or indirectly, by electronic or other means, reproduce, reverse engineer, distribute, sell, publish, commercially exploit, rent, lease, sublicense, assign or otherwise transfer or make available the Licensed Products or any part thereof to any third party, or otherwise disseminate the Licensed Product in any manner; (iii) directly or indirectly, by electronic or other means, modify, decompile, or disassemble the Software or part thereof, or attempt to derive source code from the Software; or (iv) remove any proprietary notices, labels, or marks on the Software or any part of the Licensed Products. Motorola Solutions reserves all rights to the Software and other Licensed Products not expressly granted herein, including without limitation, all right, title and interest in any improvements or derivatives conceived of or made by Motorola that are based, either in whole or in part, on knowledge gained from Customer Data. Customer agrees to abide by the copyright laws of the United States and all other relevant jurisdictions, including without limitation, the copyright laws where Customer uses the Solution. Customer agrees to immediately cease using the Solution if it fails to comply with this paragraph or any other part of this Agreement. If Software is subject to a click wrap, end user license agreement or is otherwise packaged with or subject to a separate end user license, such license will apply to the use of Software and Licensed Product.

7.2 **Proprietary Rights.** Regardless of any contrary provision in the Agreement, Motorola or its third party providers own and retain all of their respective Proprietary Rights in the Software, Solution, and Licensed Product. Nothing in this Agreement is intended to restrict their Proprietary Rights. All intellectual property developed, originated, or prepared by Motorola in connection with providing Services to Customer remain vested exclusively in Motorola, and this Agreement does not grant to Customer any shared development rights of intellectual property. No custom development work is to be performed under

this Agreement.

8. DATA AND FEEDBACK

81 **Solution Data.** To the extent permitted by law, Motorola, its vendors and licensors are the exclusive owners of all right, title, and interest, in and to the Solution Data, including all intellectual property rights therein. Motorola grants Customer a personal, royalty-free, non-exclusive license to: (i) access, view, use, copy, and store the Solution Data for its internal business purposes and, (ii) when specifically permitted by the applicable Statement of Work, publish Solution Data on its websites for viewing by the public.

82 **Customer Data.** To the extent permitted by law, Customer retains ownership of Customer Data. Customer grants Motorola and its subcontractors a personal, royalty-free, non-exclusive license to use, host, cache, store, reproduce, copy, modify combine, analyze, create derivatives from, communicate, transmit, publish, display, and distribute such Customer Data for the purpose of providing the Subscription Services to Customer, other Motorola Customers and end users, including without limitation, the right to use Customer Data for the purpose of developing new or enhanced solutions. In addition to the rights listed above, Customer grants Motorola a license to sell an Anonymized version of Customer Data for any purpose.

83 **Feedback.** Any Feedback given by Customer is entirely voluntary and, even if designated as confidential, will create no confidentiality obligation for Motorola. Motorola is free to use, reproduce, license or otherwise distribute and exploit the Feedback without any obligation to Customer. Customer acknowledges that Motorola's receipt of the Feedback does not imply or create recognition by Motorola of either the novelty or originality of any idea. The parties further agree that all fixes, modifications and improvement to the Licensed Product or Subscription Service conceived of or made by Motorola that are based, either in whole or in part, on the Feedback are the exclusive property of Motorola and all right, title and interest in and to such fixes, modifications or improvements to the Licensed Product or Subscription Service will vest solely in Motorola.

9 WARRANTY

9.1 **"AS IS".** THE SOLUTION AND SUBSCRIPTION SERVICES ARE PROVIDED "AS IS". MOTOROLA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Customer acknowledges that the Deliverables may contain recommendations, suggestions or advice from Motorola to Customer (collectively, "Recommendations"). Motorola makes no warranties concerning those Recommendations, and Customer alone accepts responsibility for choosing whether and how to implement the Recommendations and the results to be realized from implementing them.

9.2 **Availability and Accuracy.** Customer acknowledges that functionality of the Solution as well as availability and accuracy of Solution Data is dependent on many elements beyond Motorola's control, including databases managed by Customer or third parties and Customer's existing equipment, software, and Customer Data. Therefore, Motorola does not guarantee availability or accuracy of data, or any minimum level of coverage or connectivity. Interruption or interference with the Subscription Services or Solution may periodically occur. Customer agrees not to represent to any third party that Motorola has provided such guarantee.

9.3 **Equipment Sale.** Warranty for any equipment sold pursuant to this Agreement will be set forth in Equipment Purchase Addendum.

10. DISCLAIMERS

10.1 **Existing Equipment and Software.** If Customer's existing equipment and software is critical to

operation and use of the Subscription Services, Customer is solely responsible for supporting and maintaining Customer's existing equipment and software. Connection to or interface with Customer's existing equipment and software may be required to receive Subscription Services. Any failures or deficiencies of Customer's existing equipment and software may impact the functionality of the Solution and the Subscription Services to be delivered. Any vulnerabilities or inefficiencies in Customer's system may also impact the Solution and associated Subscription Services.

102 **Privacy.** Customer bears sole responsibility for compliance with any laws and regulations regarding tracking; location based services; gathering, storing, processing, transmitting, using or misusing; or otherwise handling personally identifiable information ("PII"), including information about Users of the Solution or citizens in the general public. Further, it is Customer's sole responsibility to comply with any laws or regulations prescribing the measures to be taken in the event of breach of privacy or accidental disclosure of any PII. Enacting and enforcing any internal privacy policies for the protection of PII, including individual disclosure and consent mechanisms, limitations on use of the information, and commitments with respect to the storage, use, deletion and processing of PII in a manner that complies with applicable laws and regulations will be Customer's sole responsibility. Motorola will not evaluate the sufficiency of such policies and disclaims any responsibility or liability for privacy practices implemented by Customer, or lack thereof. Customer acknowledges and agrees that Subscription Services and the Solution are not designed to ensure individual privacy. Customer will inform Users that the Solution may enable visibility to PII, as well as physical location of individuals. Further, if the Solution or Subscription Services are available to the general public pursuant to this Agreement, Customer will provide the appropriate privacy notification. Neither Motorola nor Customer can provide any assurance of individual privacy in connection with the Solution. Further, Customer is solely responsible for determining whether and how to use data gathered from social media sources for the purpose of criminal investigations or prosecution. Customer will hold Motorola harmless from any and all liability, expense, judgment, suit, or cause of action, which may accrue against Motorola for causes of action for damages related to tracking, location based services, breach of privacy, and the use or misuse of PII provided that Motorola gives Customer prompt, written notice of any such claim or suit. Motorola shall cooperate with Customer in its defense or settlement of such claim or suit.

103 **Social Media.** If Customer purchases Subscription Services that utilize social media, Customer acknowledges and agrees that such Subscription Services are not designed to ensure individual privacy. In such case, Customer will inform Users that the Solution and Subscription Services may enable visibility to PII, as well as physical location of individuals. Further, if the Solution or Subscription Services are available to the general public pursuant to this Agreement, Customer will provide the appropriate privacy notification. Neither Motorola nor Customer can provide any assurance of individual privacy in connection with the Solution or Subscription Services utilizing social media. Further, Customer is solely responsible for determining whether and how to use data gathered from social media sources for the purpose of criminal investigations or prosecution. Customer will hold Motorola harmless from any and all liability, expense, judgment, suit, or cause of action, which may accrue against Motorola for causes of action for damages related to tracking, location based services, breach of privacy, and the use or misuse of PII provided that Motorola gives Customer prompt, written notice of any such claim or suit. Motorola shall cooperate with Customer in its defense or settlement of such claim or suit.

104 **Misuse.** Motorola reserves the right to discontinue service at any time without notice to Users that misuse the Service, jeopardize the Licensed Product or public safety in any way.

11. LIMITATION OF LIABILITY

11.1 **Liability Limit.** Except for personal injury or death, Motorola's total liability, whether for breach of contract, warranty, negligence, strict liability in tort, or otherwise, will be limited to the direct damages recoverable under law, but not to exceed the price of twelve (12) months of Subscription Services provided under this Agreement. **ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF**

SUCH LOSSES OR DAMAGES, THEY AGREE THAT MOTOROLA WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOODWILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT OR THE PERFORMANCE OF THE SUBSCRIPTION SERVICES BY MOTOROLA. This limitation of liability provision survives the expiration or termination of this Agreement and applies notwithstanding any contrary provision. No action for contract breach or otherwise relating to the transactions contemplated by this Agreement may be brought more than one (1) year after the accrual of the cause of action, except for money due upon an open account.

112 **Additional Disclaimers.** MOTOROLA DISCLAIMS ANY AND ALL LIABILITY FOR ANY AND ALL LOSS OR COSTS OF ANY KIND ASSOCIATED WITH 1) THE INTERRUPTION, INTERFERENCE OR FAILURE OF CONNECTIVITY, VULNERABILITIES OR SECURITY EVENTS, WHETHER OR NOT THEY ARE DISCOVERED BY MOTOROLA; 2) PERFORMANCE OF CUSTOMER'S EXISTING EQUIPMENT AND SOFTWARE OR ACCURACY OF CUSTOMER DATA; 3) IF ANY PORTION OF THE SOLUTION OR LICENSED PRODUCT RESIDES ON CUSTOMER'S PREMISES, DISRUPTIONS OF AND/OR DAMAGE TO CUSTOMER'S OR A THIRD PARTY'S INFORMATION SYSTEMS, EQUIPMENT, AND THE INFORMATION AND DATA, INCLUDING, BUT NOT LIMITED TO, DENIAL OF ACCESS TO A LEGITIMATE SYSTEM USER, AUTOMATIC SHUTDOWN OF INFORMATION SYSTEMS CAUSED BY INTRUSION DETECTION SOFTWARE OR HARDWARE, OR FAILURE OF THE INFORMATION SYSTEM RESULTING FROM THE PROVISION OR DELIVERY OF THE SERVICE; 4) AVAILABILITY OR ACCURACY OF SOLUTION DATA; 5) INTERPRETATION, USE OR MISUSE IN ANY WAY OF SOLUTION DATA; 6) IMPLEMENTATION OF RECOMMENDATIONS PROVIDED IN CONNECTION WITH THE SUBSCRIPTION SERVICES; 7) TRACKING, AND LOCATION BASED SERVICES, BREACH OF PRIVACY, AND THE USE OR MISUSE OF PERSONALLY IDENTIFIABLE INFORMATION.

113 **Essential term.** The parties acknowledge that the prices have been set and the Agreement entered into in reliance upon these limitations of liability and that all such limitations form an essential basis of the bargain between the parties.

12 DEFAULT AND TERMINATION

121 **Default By a Party.** If either Party fails to perform a material obligation under this Agreement, the other Party may consider the non-performing Party to be in default (unless a Force Majeure causes the failure) and may assert a default claim by giving the non-performing Party a written, detailed notice of default. Except for a default by Customer for failing to pay any amount when due under this Agreement which must be cured immediately, the defaulting Party will have thirty (30) days after receipt of the notice of default to either cure the default or, if the default is not curable within thirty (30) days, provide a written cure plan. The defaulting Party will begin implementing the cure plan immediately after receipt of notice by the other Party that it approves the plan. If Customer is the defaulting Party, Motorola may stop work on the project until it approves the Customer's cure plan.

122 **Failure To Cure.** If a defaulting Party fails to cure the default as provided above in Section 12.1, unless otherwise agreed in writing, the non-defaulting Party may terminate any unfulfilled portion of this Agreement. In the event of a termination for default, the defaulting Party will promptly return to the non-defaulting Party any of its Confidential Information. If Customer is the non-defaulting Party, terminates this Agreement as permitted by this Section, and procures the Services through a third party, Customer may as its exclusive remedy recover from Motorola reasonable costs incurred to procure the Services (but not additional or out of scope services) less the unpaid portion of the Contract Price. Customer agrees to mitigate damages and provide Motorola with detailed invoices substantiating the

charges.

123 **No Refund.** If a subscription is terminated for any reason prior to the end of the Subscription Services Term or other subscription period set forth in the Incorporated Documents or otherwise agreed to in writing by the Parties, no refund or credit will be provided.

124 **Cancellation Fee.** If an Initial Minimum Term applies and Customer terminates prior to the end of the Initial Minimum Term, Customer will be required to pay a cancellation fee of up to fifty percent (50%) of the remaining balance of subscription fees for the Initial Minimum Term.

125 **Return of Discount.** If Customer is afforded a discount in exchange for a term commitment longer than one year, early termination will result in an early termination fee, representing a return of the discount off of list price.

126 **Return Confidential Information.** Upon termination or expiration of the Agreement, Customer will return or certify the destruction of all Confidential Information and Solution Data.

127 **Connection Terminated.** Certain Subscription Services require a connection to Customer systems to access Customer Data (e.g. predictive or analytic services). Upon termination, connection to relevant data sources will be disconnected and Motorola will no longer extract any CustomerData.

128 **Equipment Return.** Any equipment provided by Motorola for use with the Subscription Services, must be returned within thirty (30) days of the date of termination, at Customer's expense. If equipment is not returned within this time frame, Motorola reserves the right to invoice the Customer for the purchase price of the unreturned equipment.

129 **Five Year Term.** Motorola provides equipment for use in connection with certain Subscription Services. Upon expiration and non-renewal of a five (5) year subscription Term, Title to the equipment will automatically transfer to Customer upon the subscription expiration date.

13. DISPUTES

13.1 **Settlement.** The parties will attempt to settle any dispute arising from this Agreement (except for a claim relating to intellectual property or breach of confidentiality) through consultation and a spirit of mutual cooperation. The dispute will be escalated to appropriate higher-level managers of the parties, if necessary. If cooperative efforts fail, the dispute will be mediated by a mediator chosen jointly by the parties within thirty (30) days after notice by one of the parties demanding non-binding mediation. The parties will not unreasonably withhold consent to the selection of a mediator, will share the cost of the mediation equally, may agree to postpone mediation until they have completed some specified but limited discovery about the dispute, and may replace mediation with some other form of non-binding alternative dispute resolution ("ADR").

13.2 **Litigation.** A Party may submit to a court of competent jurisdiction any claim relating to intellectual property, breach of confidentiality, or any dispute that cannot be resolved between the parties through negotiation or mediation within two (2) months after the date of the initial demand for non-binding mediation. Each Party consents to jurisdiction over it by that court. The use of ADR procedures will not be considered under the doctrine of laches, waiver, or estoppel to affect adversely the rights of either Party. Either Party may resort to the judicial proceedings described in this section before the expiration of the two-month ADR period if good faith efforts to resolve the dispute under these procedures have been

unsuccessful; or interim relief from the court is necessary to prevent serious and irreparable injury to the Party.

14. SECURITY.

14.1 **Industry Standard.** Motorola will maintain industry standard security measures to protect the Solution from intrusion, breach, or corruption. During the term of Agreement, if the Solution enables access to Criminal Justice Information (“CJI”), as defined by the Criminal Justice Information Services Security Policy (“CJIS”), Motorola will provide and comply with a CJIS Security Addendum. Any additional Security measure desired by Customer may be available for an additional fee.

14.2 **Background checks.** Motorola will require its personnel that access CJI to submit to a background check based on submission of FBI fingerprint cards.

14.3 **Customer Security Measures.** Customer is independently responsible for establishing and maintaining its own policies and procedures and for ensuring compliance with CJIS and other security requirements that are outside the scope of the Subscription Services provided. Customer must establish and ensure compliance with access control policies and procedures, including password security measures. Further, Customer must maintain industry standard security and protective data privacy measures. Motorola disclaims any responsibility or liability whatsoever for the security or preservation of Customer Data or Solution Data once accessed or viewed by Customer or its representatives. Motorola further disclaims any responsibility or liability whatsoever that relates to or arise from Customer's failure to maintain industry standard security and data privacy measures and controls, including but not limited to lost or stolen passwords. Motorola reserves the right to terminate the Service if Customer's failure to maintain or comply with industry standard security and control measures negatively impacts the Service, Solution, or Motorola's own security measures.

14.4 **Breach Response Plan.** Both parties will maintain and follow a breach response plan consistent with the standards of their respective industries.

15. CONFIDENTIAL INFORMATION AND PROPRIETARY RIGHTS

15.1. CONFIDENTIAL INFORMATION.

15.1.1. **Treatment of Confidential Information.** During the term of this Agreement, the parties may provide each other with Confidential Information. Licensed Products, and all Deliverables will be deemed to be Motorola's Confidential Information. Each Party will: maintain the confidentiality of the other Party's Confidential Information and not disclose it to any third party, except as authorized by the disclosing Party in writing or as required by a court of competent jurisdiction; restrict disclosure of the Confidential Information to its employees who have a “need to know” and not copy or reproduce the Confidential Information; take necessary and appropriate precautions to guard the confidentiality of the Confidential Information, including informing its employees who handle the Confidential Information that it is confidential and is not to be disclosed to others, but those precautions will be at least the same degree of care that the receiving Party applies to its own confidential information and will not be less than reasonable care; and use the Confidential Information only in furtherance of the performance of this Agreement or pursuant to the license granted immediately below.

15.1.2. **Ownership of Confidential Information.** The disclosing Party owns and retains all of its Proprietary Rights in and to its Confidential Information, except the disclosing Party hereby grants to the receiving Party the limited right and license, on a non-exclusive, irrevocable, and royalty-free basis, to use

the Confidential Information for any lawful, internal business purpose in the manner and to the extent permitted by this Agreement.

15.2 PRESERVATION OF PROPRIETARY RIGHTS.

15.2.1 Proprietary Solution. Customer acknowledges that the Licensed Products and any associated Documentation, data, and methodologies used in providing Services are proprietary to Motorola or its third party licensors and contain valuable trade secrets. In accordance with this Agreement, Customer and its employees shall treat the Solution and all Proprietary Rights as Confidential Information and will maintain the strictest confidence.

15.2.2. Ownership. Each Party owns and retains all of its Proprietary Rights that exist on the Effective Date. Motorola owns and retains all Proprietary Rights that are developed, originated, or prepared in connection with providing the Deliverables or Services to Customer, and this Agreement does not grant to Customer any shared development rights. At Motorola's request and expense, Customer will execute all papers and provide reasonable assistance to Motorola to enable Motorola to establish the Proprietary Rights. Unless otherwise explicitly stated herein, this Agreement does not restrict a Party concerning its own Proprietary Rights and is not a grant (either directly or by implication, estoppel, or otherwise) of a Party's Proprietary Rights to the other Party.

15.3 Remedies. Because Licensed Products contain valuable trade secrets and proprietary information of Motorola, its vendors and licensors, Customer acknowledges and agrees that any actual or threatened breach of this Section will constitute immediate, irreparable harm to Motorola for which monetary damages would be an inadequate remedy, and that injunctive relief is an appropriate remedy for such breach. Notwithstanding anything in this Agreement to the contrary, Motorola reserves the right to obtain injunctive relief and any other appropriate remedies from any court of competent jurisdiction in connection with any actual, alleged, or suspected breach of Section 3, infringement, misappropriation or violation of Motorola's Property Rights, or the unauthorized use of Motorola's Confidential Information. Any such action or proceeding may be brought in any court of competent jurisdiction. Except as otherwise expressly provided in this Agreement, the parties' rights and remedies under this Agreement are cumulative.

16. GENERAL

16.1 Future Regulatory Requirements. The Parties acknowledge and agree that this is an evolving technological area and therefore, laws and regulations regarding Subscription Services and use of the Solution may change. Changes to existing Subscription Services or Solution required to achieve regulatory compliance may be available for an additional fee. Any required changes may also impact the Fees for services.

16.2 Compliance with Applicable Laws. Each Party will comply with all applicable federal, state, and local laws, regulations and rules concerning the performance of this Agreement. Further, Customer will comply with all applicable export and import control laws and regulations in its use of the Licensed Products and Subscription Services. In particular, Customer will not export or re-export the Licensed Products without Motorola's prior written consent, and, if such consent is granted, without Customer first obtaining all required United States and foreign government licenses. Customer further agrees to comply with all applicable laws and regulations in providing the Customer Data to Motorola, and Customer warrants and represents to Motorola that Customer has all rights necessary to provide such Customer Data to Motorola for the uses as contemplated hereunder. Customer shall obtain at its indemnify expense

all necessary licenses, permits and regulatory approvals required by any and all governmental authorities as may from time to time be required in connection with its activities related to this Agreement. To the extent permitted by applicable law, Customer will defend, indemnify, and hold harmless Motorola from and against any violation of such laws or regulations by Customer or any of its agents, officers, directors, or employees.

16.3 **Audit.** Motorola reserves the right to monitor and audit use of the Subscription Services. Customer will cooperate and will require Users to cooperate with such monitoring or audit.

16.4 **Assignability.** Except as provided herein, neither Party may assign this Agreement or any of its rights or obligations hereunder without the prior written consent of the other Party, which consent will not be unreasonably withheld. Any attempted assignment, delegation, or transfer without the necessary consent will be void. Notwithstanding the foregoing, Motorola may assign this Agreement to any of its affiliates or its right to receive payment without the prior consent of Customer. In addition, in the event Motorola separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Motorola may, without the prior written consent of the other Party and at no additional cost to Motorola, assign this Agreement such that it will continue to benefit the Separated Business and its affiliates (and Motorola and its affiliates, to the extent applicable) following the Separation Event. Motorola may subcontract any of the work, but subcontracting will not relieve Motorola of its duties under this Agreement.

16.5 **Subcontracting.** Motorola may subcontract any portion of the Subscription Services without prior notice or consent of Customer.

16.6 **Waiver.** Failure or delay by either Party to exercise a right or power will not be a waiver of the right or power. For a waiver of a right or power to be effective, it must be in a writing signed by the waiving Party. An effective waiver of a right or power will not be construed as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

16.7 **Severability.** If a court of competent jurisdiction renders any part of this Agreement invalid or otherwise unenforceable, that part will be severed and the remainder of this Agreement will continue in full force and effect.

16.8 **Independent Contractors.** Each Party will perform its duties under this Agreement as an independent contractor. The parties and their personnel will not be considered to be employees or agents of the other Party. Nothing in this Agreement will be interpreted as granting either Party the right or authority to make commitments of any kind for the other. This Agreement will not constitute, create, or be interpreted as a joint venture, partnership or formal business organization of any kind.

16.9 **Headings.** The section headings in this Agreement are inserted only for convenience and are not to be construed as part of this Agreement or as a limitation of the scope of the particular section to which the heading refers. This Agreement will be fairly interpreted in accordance with its terms and conditions and not for or against either Party.

16.10 **Governing Law.** This Agreement and the rights and duties of the parties will be governed by and interpreted in accordance with the laws of the State of Illinois.

16.11 **Notices.** Notices required under this Agreement to be given by one Party to the other must be in writing and either personally delivered or sent to the address provided by the other Party by certified mail, return receipt requested and postage prepaid (or by a recognized courier service, such as Federal Express, UPS, or DHL), or by facsimile with correct answerback received, and will be effective upon receipt.

16.12 **Authority To Execute Agreement.** Each Party represents that it has obtained all necessary approvals, consents and authorizations to enter into this Agreement and to perform its duties under this Agreement; the person executing this Agreement on its behalf has the authority to do so; upon execution and delivery of this Agreement by the parties, it is a valid and binding contract, enforceable in accordance with its terms; and the execution, delivery, and performance of this Agreement does not violate any bylaw, charter, regulation, law or any other governing authority of the Party.

16.13 **Return of Equipment.** Upon termination of the contract for any reason, Customer shall return to Motorola all equipment delivered to Customer, if any.

16.14 **Survival Of Terms.** The following provisions survives the expiration or termination of this Agreement for any reason: if any payment obligations exist, Section 5 (Subscription Fees); Section 11 (Limitation of Liability); Section 12 (Default and Termination); Section 13 (Disputes); Section 15 (Confidential Information and Proprietary Rights);; and all General provisions in Section 16.

16.15 **ENTIRE AGREEMENT.** This Agreement and any Incorporated Documents or related attachments constitute the entire agreement of the Parties regarding the subject matter of this Agreement and supersedes all previous agreements, proposals, and understandings, whether written or oral, relating to this subject matter. This Agreement may be amended or modified only by a written instrument signed by authorized representatives of both Parties. The preprinted terms and conditions found on any Customer purchase or purchase order, acknowledgment or other form will not be considered an amendment or modification of this Agreement, even if a representative of each Party signs that document.

In witness whereof, the parties hereto have executed this Agreement as of the Effective Date.

CUSTOMER

MOTOROLA SOLUTIONS, INC.

BY: _____

BY: _____

NAME: _____

NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

BILL TO ADDRESS:

SHIP TO ADDRESS:

Name: _____

Name: _____

Address: _____

Address: _____

Address: _____

Address: _____

Phone #: _____

Phone #: _____

Email: _____

Note: Invoices will be emailed to this address.

FINAL DESTINATION:

Name: _____

Address: _____

Address: _____

Phone #: _____

Subscription Services Agreement

Exhibit A: FirstNet and AT&T Service Terms

Public Safety Entity (“Customer”) Responsibilities for access to and use of “First Net” Service as provided by AT&T

General. The Customer is responsible for complying with AT&T Acceptable Use Policy found at att.com/aup and applicable AT&T Service Guides found at att.com/servicepublications.

Privacy. The Customer is responsible for complying with all applicable privacy laws. The Customer is responsible for obtaining consent from and giving notice to its Users regarding Motorola’s and AT&T’s collection and use of User information in connection with a Service. The Customer will only make accessible or provide Personal Data to Motorola and AT&T when it has the legal authority to do so.

User Eligibility. The Customer shall verify, or assist Motorola and AT&T in verifying, as stated below, the eligibility of its Users to use the Service. The Customer is required to verify and confirm that its Users are authorized and eligible to use Service. The Customer must perform periodic audits on a regular, but not less than once per year, basis to identify any individuals who are no longer eligible for Service. The Customer must produce such information as may be requested through AT&T by the FirstNet Authority and the United States Government to verify eligibility of its users.

Limitations on the Service. THE CUSTOMER ACKNOWLEDGES THAT SERVICE IS MADE AVAILABLE ONLY WITHIN THE OPERATING RANGE OF THE NETWORKS. SERVICE MAY BE TEMPORARILY REFUSED, INTERRUPTED, OR LIMITED BECAUSE OF: (A) FACILITIES LIMITATIONS; (B) TRANSMISSION LIMITATIONS CAUSED BY ATMOSPHERIC, TERRAIN, OTHER NATURAL OR ARTIFICIAL CONDITIONS ADVERSELY AFFECTING TRANSMISSION, WEAK BATTERIES, SYSTEM OVERCAPACITY, MOVEMENT OUTSIDE A SERVICE AREA OR GAPS IN COVERAGE IN A SERVICE AREA AND OTHER CAUSES REASONABLY OUTSIDE OF MOTOROLA OR AT&T’S CONTROL SUCH AS, BUT NOT LIMITED TO, INTENTIONAL OR NEGLIGENT ACTS OF THIRD PARTIES THAT DAMAGE OR IMPAIR THE NETWORK OR DISRUPT SERVICE; OR (C) EQUIPMENT MODIFICATIONS, UPGRADES, RELOCATIONS, REPAIRS, AND OTHER SIMILAR ACTIVITIES NECESSARY FOR THE PROPER OR IMPROVED OPERATION OF SERVICE.

Limitations on Service of Carrier Partners. CARRIER PARTNER NETWORKS ARE MADE AVAILABLE AS-IS AND MOTOROLA AND AT&T MAKES NO WARRANTIES OR REPRESENTATIONS AS TO THE AVAILABILITY OR QUALITY OF ROAMING SERVICE PROVIDED BY CARRIER PARTNERS, AND MOTOROLA AND AT&T WILL NOT BE LIABLE IN ANY CAPACITY FOR ANY ERRORS, OUTAGES, OR FAILURES OF CARRIER PARTNER NETWORKS. ROAMING ON CARRIER PARTNER NETWORKS OUTSIDE THE FIRSTNET SERVICE AREA (IF ANY) SHALL BE AVAILABLE AS DESCRIBED IN THE SERVICE GUIDE.

User Disclosures. THE CUSTOMER UNDERSTANDS AND AGREES THAT IT: (1) HAS NO CONTRACTUAL RELATIONSHIP WITH THE UNDERLYING WIRELESS SERVICE CARRIER; (2) IS NOT A THIRD PARTY BENEFICIARY OF ANY AGREEMENT BETWEEN [CUSTOMER] AND THE UNDERLYING CARRIER; (3) THAT THE UNDERLYING CARRIER HAS NO LIABILITY OF ANY KIND TO [USER], WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE; AND (4) THAT DATA TRANSMISSIONS AND MESSAGES MAY BE DELAYED, DELETED OR NOT DELIVERED, AND 911 OR SIMILAR EMERGENCY CALLS MAY NOT BE COMPLETED

Medical Devices (FDA and HIPAA Responsibilities). The Customer shall be responsible for FDA compliance as a “distributor” of the Device to its users. Except as necessary to provide the Service to the Customer, The Customer shall not convey any protected health information (“PHI”) to AT&T, as that term is defined in the Health Insurance Portability and Accountability Act (“HIPAA”) and the Health Information Technology for Economic and Clinical Health (“HITECH”) Act regulations. Motorola and/or AT&T shall not function as the Customer’s business associate in rendering the Services; such Services will be limited to providing conduit or mere data transmission services to the Customer in accordance with guidance on the “conduit exception” under HIPAA. Each Party shall bear its own costs associated with regulatory compliance.

Audits. Customer may be subject to occasional audits by AT&T or its agents to verify compliance with this Exhibit A.

JUMP TO ...

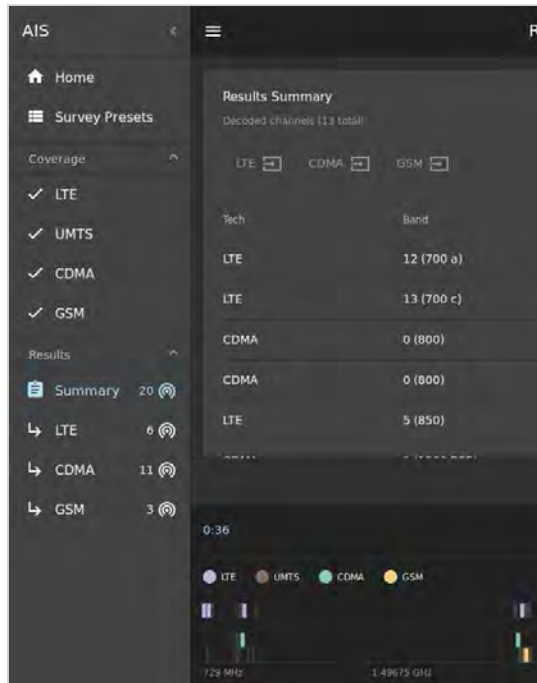
[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

Model



AIS - Artificial Intelligence Survey

Ordering Information

General Information

The AI Survey (AIS) application tool is a passive, fast, wideband, cellular signal detection technique.

AIS accelerates the process of detecting and decoding parameters from 10's of minutes to 10's of seconds by prioritizing the

frequency 'search space' with ~99% precision.

Features

- Deep learning signal identification algorithm
- Surveys all technologies/bands in less than 5 minutes
- Survey range is user defined
- Leverages current generation SDR platform capabilities
- Frequency range from 380 MHz to 6000 MHz

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Model

Description	Nomenclature	Price
AIS Upgrade	FDKT00338	\$30,000
AIS Software	FSFW00077	\$25,000

The AIS Upgrade contains the AIS SW, splitter, antennas, web browser device, and cables required for operation. The AIS Software contains the software CD.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR LOST SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE

DISCLAIMED BY LAW.

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JUMP TO ...

**MODEL & ORDERING
INFO**

CONFIGURATION

ACCESSORIES

**SOFTWARE &
SERVICES**

SHIP CARD

Model & Ordering Info

[Ordering Guide](#)



Project 25 (P25) standard-based MCC 7500 IP Dispatch Console

Features

All MCC 7500 Dispatch Consoles include the following features:

System Level Features

- Seamless IP Connectivity with Radio System
- Full Participation in Radio System Fault Management
- Compatible with MKM 7000 Console Alias Manager
- Configured via Radio System Configuration Manager
- Full Participation in Radio System Agency Partitioning
- Full Participation in Radio System Dynamic System Resilience (DSR)

ASTRO 25 Trunking Features

- Full Access to ASTRO 25 Trunked Radio

General Console Features

- Intuitive, Easy-to-Use Graphical User Interfaces (Elite or IED)
- Up to 8 Speakers
- Desk Microphone
- Instant Recall Recorder Port for Radio Audio
- Local Logging Recorder Port
- General Transmit
- Select/Unselect
- 15 Customizable Alert Tones (Trunking & Conventional)
- VU Meter (On Screen)

- System
- Patch (Standard & Permanent)
- Full Support for Project 25 FDMA (Phase I) Operation
- ACIM Link to Console
- Trunked Talk Group Calls
- Elite GUI is Highly Configurable to meet Unique Customer Needs
- Trunked Private Calls
- Up to 2 Headsets
- Trunked Emergency Alarms
- Footswitch
- Trunked Tactical/Normal
- Instant Recall Recorder Port for Console Telephony Audio
- Trunked Remote Monitor
- Telephone Headset Port (for radio & telephone on one headset)
- IMBE/AMBE Vocoder for ASTRO 25 Resources
- Instant Transmit
- Full Support for Project 25 TDMA (Phase II) Operation
- Multi-Select
- Trunked Announcement Group Calls
- Channel Marker (Trunking & Conventional)
- Trunked Call Alerts
- Integrated Tone Paging Encoder
- Trunked Emergency Calls
- Generic Auxiliary Inputs & Outputs
- Trunked Repeater On/Off
- Trunked PTT ID and Alias

ASTRO 25 Conventional Features

- PTT ID and Alias
- Emergency Alarm and Call
- Voice Selective Call
- Secure Key Select
- Received Key Display
- Momentary Key Override
- Radio Status Display
- Radio Message Display
- Remote Monitor
- Call Alert
- Mixed Mode (Analog/Digital) Operation
- Secure Call
- Secure Keypad Select
- Manual Individual Pages
- Manual Group Pages
- Sequential Paging Operation
- Quick Page Buttons
- PL Stripping
- Quick Call II B - Tone & Voice
- Quick Call II D - Battery Saver
- Quick Call I
- Touch Code
- Single Tone 0.5
- Digital Dial 1 (1500 Hz)
- Digital Dial 3 (1500/2805)
- ASTRO 25 Conventional Call Alert
- Pre-Defined Individual Pages

Integrated Tone Paging Encoder Features

- Autokey Key Display
- Radio Enable/Disable
- Radio Status Request
- Radio Check
- Ignore Mobile to Mobile Calls

MDC 1200 Conventional Features

- PTT ID and Alias
- Emergency Alarm
- Voice Selective Call
- Radio Status Display
- Radio Message Display
- Remote Monitor
- Call Alert
- Emergency Call
- Radio Enable/Disable
- Radio Status Request
- Radio Check
- Ignore Mobile to Mobile Calls

Analog Conventional Features

- Tone Remote Control
- Analog Talk & Listen
- Private Line (PL) Selection
- Wild Card I & II
- Monitor
- Supervisor Takeover (via Relay)
- RF Cross Mute
- E & M Control
- Frequency Selection
- Repeater On/Off

- Pre-Defined Group Pages
- Simultaneous Paging Operation
- Talk Extend
- "Selected Channel" Paging
- Quick Call II C - Tone Only
- Quick Call II E - Competitive
- Knox
- Motorola 5/6 Tone
- Single Tone 1.5
- Digital Dial 2 (2805 Hz)
- Trunked Call Alert
- MDC 1200 Call Alert

Enhanced Console Telephony Features

- Supports POTS and/or E1/T1 Connections
- Dialing Keypad
- Caller ID
- Call Forwarding
- Speed Dials
- Patch Radio & Telephone
- Answer/Initiate Calls from Console GUI
- Configurable Ring Tones
- Call Hold
- Call Transfer
- Phone Books
- Patch Go-Ahead Tones

VPM Features

- Supports up to 8 Speakers
- Supports one Desktop Microphone

- Mute Second Receiver
- Line Operated Busy Light (LOBL)
- Main/Alternate Conventional Interfaces
- RF Cross Busy
- Telephone Headset Port (for radio & telephone on one headset)
- Instant Recall Recorder Port for Console Telephony Audio
- Local Logging Recorder Port

General Secure Features

- Supports up to 60 Encrypted Calls Simultaneously
- AES Algorithm
- DES-XL Algorithm
- DVP-XL Algorithm
- Multi-Select Cross-Mode Alert
- Receive Cross-Mode Indication
- Key Management via KVL
- Key Management via OTEK (Over The Ethernet Keying)
- Supports up to 6 Encryption Algorithms Simultaneously
- DES-OFB Algorithm
- ADP Algorithm
- DVI-XL Algorithm
- Patch Cross-Mode Alert
- Clear Audio Alert
- Key Management via Store and Forward (KMF with KVL)
- Supports up to 2 Headsets
- Supports one Footswitch
- Dedicated Private Auxiliary Inputs & Outputs
- Instant Recall Recorder Port for Radio Audio
- External Paging Encoder Port
- Multiple Mounting Options

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.

Don't Forget These Items for Each Dispatch Console

1. VPM, Speaker, Microphone, Headset Jack

2. AC Line Cords
3. Monitor
4. Software License

Links to Other Elements of the Console Sub-System

1. [Conventional Channel Gateway Items](#)
2. [Auxiliary Input/Output Items](#)
3. [Archiving Interface Server \(AIS\) Items](#)
4. [Logging Recorder Items](#)
5. [Dispatch Furniture Info](#)
6. [Manuals](#)

General Information

Models

Dispatch Console PC

Description	Nomenclature	APC	Price
<p>COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)</p> <p>Provides one HP Z440 computer with 64 bit Windows 7. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD.</p> <p>NOTE: THE Z440 WORKSTATION WITH WINDOWS 7 IS NOT COMPATIBLE WITH A7.17 SYSTEMS AND IS NOT RETURNABLE (REALLY!!)</p>	TT2833	708	\$2,950.00
<p>Z440 WORKSTATION WINDOWS 10 IOT ENT (NON RETURNABLE)</p> <p>Provides one HP Z440 computer with Windows 10 Enterprise LTSB 2015 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed.</p> <p>NOTE THE Z440 WORKSTATION WITH WINDOWS 10 IS REQUIRED FOR A7.17 SYSTEMS AND IS NOT RETURNABLE (REALLY!!).</p>	TT3106	708	\$3,500.00

VPM

<p>MOTOROLA VOICE PROCESSOR MODULE</p> <p>Provides one Voice Processor Module</p>	B1933	443	\$11,920.00
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(VPM) unit for an MCC 7500 console.

Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF).

When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.

Software Items

Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00

Note: The B1925 is no longer used to order the SDK for the MCC 7500 Dispatch API. Please see the "Dispatch API Software Development Kit" section above for information on how to obtain the SDK.

Important Notice About Motorola Solutions Software Support Policy

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the 'Standard Support' period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3-year period of time, referred to as the 'Extended Support' period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the 'End of Support' period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

VPM-Based Dispatch Consoles Items

The items which comprise a complete VPM-based dispatch console are available for purchase via the models, options and accessories described below. A combination of these items is required to create a complete VPM-based dispatch console as described in the following paragraphs.

Dispatch Console PC

A VPM-based dispatch console uses a dropship workstation PC together with a VPM. The dropship workstation PC comes with a Windows operating system, keyboard and mouse. It does not include a monitor or Ethernet cable. These items must be ordered separately.

Each PC used with a dispatch console also requires the Symantec Anti-Virus application. [Network Security Price Page](#)

Note that the PC ships with a North American AC line cord.

VPM and Licenses

When used with a MCC 7500 dispatch console, the VPM requires a *MCC 7500 Basic Console Functionality Software License* (CA01642AA) and one of the AC line cord options (CA00140AA, AB, AC, AF or AG).

The basic console functionality software license grants the customer the right to use the features supported by the dispatch console application software except for the features covered by the following licenses. Note that it also includes the right to use the API portion of the software.

Depending on the features desired on the dispatch console, one or more of the following license options may also have to be ordered with the VPM.

- *ADD: MCC 7500 Trunking Operation License* (CA01643AA) - This option is required if the dispatch console will be used to control ASTRO 25 trunking resources, SmartZone trunking resources (via a SmartX site converter) or SMARTNET trunking resources (via a SmartX site converter).
- *ADD: MCC 7500 Advanced Conventional Operation License* (CA01644AA) - This option is required if the dispatch console will be used to control ASTRO 25 conventional channels, MDC 1200 channels and/or consolettes connected via ACIM Link.
- *ADD: MCC 7500 Inbound Event Display (IED) License* (CA01645AA) - This option is required if the dispatch console will use the Inbound Event Display (IED) graphical user interface.
- *ADD: MCC 7500 Enhanced Console Telephony Operation License* (CA02073AA) - This

option is required if the dispatch console will use any of the enhanced console telephony features.

- *ADD: MCC 7500 Advanced SECURENET Operation License (CA01972AA)* - This option is required if the dispatch console will be used to control Advanced SECURENET channels.

The VPM does not include the following items. These must be ordered separately if required.

- Speakers
- Desktop Microphone
- Headset Jacks
- Footswitch
- Ethernet Cable

Secure Options

The VPM is capable of supporting up to 6 different encryption algorithms simultaneously. When secure operation is desired, order the *ADD: MCC 7500 Secure Operation License* option (CA00147AF) and from 1 to 6 encryption algorithm options (CA00143AC, CA00144AC, CA00145AC, CA00146AC, CA00182AB or CA00245AA).

A particular type of encryption algorithm may only be ordered once with a particular VPM. That is, up to 6 algorithms may be ordered with a VPM, but they must all be different algorithms.

If remote secure key management across the radio system's IP network from a KMF is desired, order the *ADD: Over The Ethernet Keying (OTEK) Operation License* option (CA01220AA).

The TKN8531C cable is used to connect a KVL to a VPM for programming/managing secure key material.

"The Peripherals"

The peripherals are the items which provide interfaces between the VPM and the external environment. These are:

- Speaker (B1912) - Max of 8 per VPM
- Desktop Microphone (B1914) - Max of 1 per VPM
- Headset Jack (B1913) - Max of 2 per VPM
- Footswitch (DSTWIN6328A) - Max of 1 per VPM

The speakers, microphone, headset jacks and footswitch are optional depending on the customer's needs.

Each MCC 7500 dispatch console requires 1 and only 1 VPM.

The VPM is 1 Rack Unit high and is capable of being mounted in a 19" rack. It may also be mounted beneath a writing surface or placed on top of a writing surface. Mounting hardware is included with the VPM.

Each VPM requires an AC line cord option (CA00140AA, AB, AC, AF or AG).

Ordering information for the VPM is provided in the Models, Options and Accessories sections below. The price page for the rest of the peripherals may be found by clicking on

this link: [Peripheral Devices Price Page](#)

Dual Instant Recall Recorder (IRR)

The dual IRR is compatible with VPM-based dispatch consoles. The dual IRR is capable of recording and playing back the audio from two different sources (e.g., radio and telephone), but may be used to record a single source if desired. If the IRR will be used to record the audio from only one source, the sound card does not need to be ordered. If the IRR will be used to record the audio from two sources, the sound card must be ordered. Only one set of PC speakers needs to be ordered regardless of whether the IRR is recording one or two sources of audio.

Please refer to the [IRR Price Page](#) for information about ordering IRRs for use with MCC 7500 consoles.

Dropship Items

The following dropship items are compatible with VPM-based dispatch consoles. The dropship items are accessories which are not manufactured by Motorola. These include:

- Monitor [Monitor Price Page](#)
- Trackball (See Accessories section below)
- Ethernet Cable [Ethernet Cable Price Page](#)
- Headset [Peripheral Devices Price Page](#)
- Dual IRR [IRR Price Page](#)

Note: Headsets certified for use with the MCC 7500 dispatch console are only available from Motorola. While other headsets may work, Motorola cannot guarantee the quality of the audio, especially dispatcher transmit audio, if they are used.

Order the desired dropship items for each dispatch console. Use the links next to the items above to see the ECAT Pages for them. They may also be ordered for use as spares.

Enhanced Console Telephony Media Gateways

Two versions of the media gateway are available.

- The DDN1405 *Media Gateway with 8 FXO Ports* provides a media gateway with 8 analog POTS line ports. The gateway allows up to 50 dispatch positions to access the phone lines.
- The DDN1404 *Media Gateway with 2 E1/T1 Ports* provides a media gateway with 2 E1/T1 ports. The gateway allows up to 100 dispatch positions to access the phone lines.

The E1/T1 version can support up to 60 phone calls when using the E1 ports and up to 48 phone calls when using the T1 ports.

Multiple media gateways can be used to increase the capacity if needed. Up to two media gateways can be located at a console site and up to 63 media gateways can be supported in a zone.

Field Replaceable Units (FRUs)

The following items are available directly from the Radio Products and Services Division (RPSD, formerly AAD). None of these items can be ordered in COF; they must be ordered directly from RPSD. Also see the circuit board FRUs listed in the Accessories section at the bottom of this page.

- 3085322Y01 - H.100 Cable (connects voice card and secure card together; one required per dispatch position)
- 0785669Y01 - Secure Card Support Bracket (used to support the secure card inside the PC; one required per secure card)
- 0310943J15 - Support Bracket Screws (used to fasten the support bracket to the PC chassis, two required per support bracket)
- 3082534Y18 - VPM/GPIOM to Speaker Cable
- 3071113H01 - VPM/GPIOM to Headset Jack Permanent Cable
- 3071114H01 - VPM/GPIOM to Headset Jack Extension Cable
- 0183734Y01 - VPM/GPIOM to Microphone Cable
- 3085550Y02 - GPIOM to Voice Card Cable
- 01009513004 - VPM/GPIOM Power Supply (w/o DC cable or AC line cord, not orderable in COF)**
- 30009351001 - VPM/GPIOM DC Power Cable (connects 01009513001 power supply to VPM or GPIOM)**
- 3082933N08 - AC Line Cord (North American)
- 3082933N13 - AC Line Cord (UK)
- 3082933N09 - AC Line Cord (Continental European)
- 3508800G96 - Microphone Wind Screen
- 3684434Y01 - Speaker Volume Knob
- 60009256001 - Secure Key Retention Battery (for VPM, not orderable in COF)
- 0310907A98 - Screws for VPM Rack Mounting Bracket (two screws required for each bracket)
- 0771936H01 - VPM Rack Mounting Bracket (two brackets required for each VPM)

The following are FRUs for the enhanced console telephony media gateways

- 01009704002 - Fan module for 2911
- 01009704003 - AC Power Supply
- 01009704004 - Fan module for 2921
- 01009704005 - 2-Port 3rd Gen Multiflex Trunk Voice/WAN Card – T1/E1
- 01009704006 - VIC2-4FXO Four-Port Voice Interface
- 01009704007 - 16-channel High-density voice and video DSP module
- 01009704008 - 512MB DRAM module
- 01009704009 - 2921/2951 AC Power Supply
- 01009704010 - 256MB Compact Flash

** Note that the 0183650Y03 GPIOM/VPM Power Supply has been replaced with a Level V energy efficiency compliant model. The 0183650Y03 power supply has a non-detachable DC power cable, but the new supply has a detachable DC power cable. Please order both the 01009513004 Power Supply and 30009351001 DC Power Cable when replacing a 0183650Y03.

The various board-level FRUs for the MCC 7500 dispatch console are orderable via the accessory numbers shown below.

Manuals

The various manuals for the MCC 7500 dispatch console are included in the ASTRO 25 Radio System Documentation Set. The individual manuals (or the complete documentation set) can be downloaded from the [ASTRO 25 Documentation Web Site](#).

MCC 7500 Product Planner and Ordering Guide

The MCC 7500 Product Planner and Ordering Guide is available on the [High Tier Consoles wiki page](#).

Configuration

Data Not Available

Accessories

Enhanced Console Telephony Media Gateways

Description	Nomenclature	APC	Price
CISCO MEDIA GATEWAY WITH 2 T1 E1 PORTS Provides a Cisco 2921 IP PBX with two E1/T1 ports and licensing for up to 100 dispatchers to access it.	DDN1404	443	\$14,090.00
CISCO MEDIA GATEWAY WITH 8 POTS LINES Provides a Cisco 2911 IP PBX with 8 analog POTS line ports and licensing for up to 50 dispatcher to access it.	DDN1405	443	\$11,322.00
MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery Provides a CD-ROM containing a copy of the operating system for the enhanced console telephony media gateways. This should be ordered for use in upgrade or disaster recovery scenarios.	BVN1014A	877	\$500.00

Field-Add Software Licenses

OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	BLN1302	443	\$3,350.00
SECURE OPERATION FIELD-ADD LICENSE	BLN1304	443	\$3,250.00
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	BLN1311	443	\$5,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	BLN1312	443	\$3,000.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	BLN1313	443	\$4,200.00
MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	BLN1316	443	\$12,000.00
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	BLN1317	443	\$15,060.00
MCC 7500 Enhanced Console Telephony Operation Field-Add License	BLN1320A	443	\$1,200.00

Trackball

Programming Cables

CABLE FOR RNC, DIU MGEG Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered seperately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	201	\$110.00
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Field Replacement Units

Note: We've been seeing a significant number of VPM FRUs being returned to the Repair Depot because they don't have the necessary encryption algorithms. Please read the note text under the B1934 below and make sure any required encryption algorithms are ordered when the VPM FRU is ordered.

MCC 7500 VOICE PROCESSOR MODULE FRU Provides the housing and circuit board used	B1934	443	\$11,830.00
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for the B1933 VPM. Does not include the power supply, AC power cord, or DC power cord. Each of these items must be ordered separately from RPSD. If secure capability is required, then order the following options with the B1934:

- the secure operation option (CA00147AF)
 - from 1-6 encryption algorithm options
- Order as a main line item.

DESKTOP SPEAKER CIRCUIT BOARD FRU	BLN1275	443	\$180.00
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Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.

DESKTOP MIC CIRCUIT BOARD FRU	BLN1276	443	\$38.00
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Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.

HEADSET JACK CIRCUIT BOARD FRU	BLN1277	443	\$114.00
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Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.

SHIELD,VPM SHIELD KIT	BLN1324	443	\$0.00
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Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided. When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324's.

For example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.

COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)	TT2833	708	\$2,950.00
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Provides one HP Z440 computer with 64 bit Windows 7. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD.

NOTE: THE Z440 WORKSTATION WITH WINDOWS 7 IS NOT COMPATIBLE WITH A7.17 SYSTEMS AND IS NOT RETURNABLE (REALLY!!)

Z440 WORKSTATION WINDOWS 10 IOT ENT (NON RETURNABLE)	TT3106	708	\$3,500.00
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Provides one HP Z440 computer with Windows 10 Enterprise LTSB 2015 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to

VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed.

NOTE THE Z440 WORKSTATION WITH WINDOWS 10 IS REQUIRED FOR A7.17 SYSTEMS AND IS NOT RETURNABLE (REALLY!!).

Algorithm Upgrades/Field-Adds

MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	T8063	443	\$250.00
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Provides a CD that is used to add new algorithms to existing Telephone Media Gateways (TMGs), VPM-based MCC 7500 consoles and VPM-based AISs. Also used to upgrade existing algorithms in existing VPM-based MCC 7500 consoles or AISs. Requires sufficient algorithm options to cover every added/upgraded algorithm in every console or AIS that is affected. The CD is only compatible with the KVL 4000 Key Variable Loader. The serial number of the KVL 4000 keyloader is required to be entered into the ordering system when ordering the T8063. Order as a main line item.

Data Compiled 04-Jan-2017 using DUP and all prices in USD

Options

Software License

Description	Nomenclature	APC	Price
ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE Provides a license for using the MCC 7500 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/os, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1933.	CA01642AA	443	\$12,000.00

Upgrade Software Licenses

ADD: MCC 7500 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	CA00899AA	443	\$3,000.00
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Provides a license for upgrading to the latest version of the MCC 7500 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1905.

ADD: MCC 7500 AIS SOFTWARE REFRESH LICENSE	CA00900AA	443	\$2,700.00
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Provides a license for upgrading to the latest version of the MCC 7500 AIS Software. One is required for each AIS being upgraded. Order as a sub-item to the B1905.

Trunking & Advanced Conventional Operation

ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	CA01643AA	443	\$5,000.00
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Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.

ADD: MCC 7500 /MCC 7100 ADV CONVL OPERATION	CA01644AA	443	\$3,000.00
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Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.

Advanced SECURENET Operation

ADD: ADVANCED SECURENET OPERATION	CA01972AA	443	\$50,000.00
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Required when the MCC 7500 dispatch position is used to control Advanced SECURENET resources (Conventional channels using an Advanced SECURENET CIU device). Order as a sub-item to the B1933.

Secure Operation

ADD: MCC 7500 SECURE OPERATION	CA00147AF	443	\$3,250.00
Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.			
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	CA01220AA	443	\$3,350.00
Order when remote key management capabilities are required on a VPM-based dispatch console or AIS. Order as a sub-item to the B1933 for MCC 7500. Note that OTEK does not support the ADP encryption algorithm.			

Secure Algorithms

ADD: DES-OFB ALGORITHM	CA00143AC	443	\$750.00
Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.			
ADD: DES-XL ALGORITHM	CA00144AC	443	\$750.00
Provides factory programming for the DES-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.			
ADD: DVI-XL ALGORITHM	CA00145AC	443	\$750.00
Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.			
ADD: DVP-XL ALGORITHM	CA00146AC	443	\$750.00
Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.			
ADD: AES ALGORITHM	CA00182AB	443	\$750.00
Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface			

Server, VPM FRU or Secure Card FRU model.

ADD: ADP ALGORITHM CA00245AA 443 \$300.00

Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.

Inbound Event Display GUI

ADD: MCC 7500/MCC 7100 IED OPERATION CA01645AA 443 \$4,200.00

Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100

Enhanced Console Telephony

ADD: MCC 7500 Enhanced Console Telephony Operation License CA02073AA 443 \$1,200.00

Required when the MCC 7500 dispatch position is used to control enhanced console telephony phone lines. Order as a sub-item to the B1933.

Power Cords

ADD: AC LINE CORD, NORTH AMERICAN CA00140AA 443 \$0.00

Adds one AC line cord with a North American plug.

ADD: AC LINE CORD, EUROPEAN CA00140AB 443 \$0.00

Adds one AC line cord with a continental European plug (Schuko plug).

ADD: AC LINE CORD, UK CA00140AC 443 \$0.00

Adds one AC line cord with a United Kingdom plug.

ADD: AC LINE CORD, AUSTRALIA CA00140AF 277 \$0.00

Adds one AC line cord with an Australian plug.

ADD: AC LINE CORD, BRAZIL CA00140AG 277 \$0.00

Adds one AC line cord with a Brazilian plug.

API Technical Support

FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	QLN3437	443	\$1,000.00
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Provides one hour of technical support for the SDK from the factory. May be ordered multiple times if more than one hour of support is required. May be ordered to add additional technical support for software developers who are already using the SDK. Note that this is a billable item only (BB item) and must be ordered by itself on its own order.

Software & Services

Software and Software Refresh Items

The software used on the dispatch console is available for purchase via the model and options shown below. The *MCC 7500 ASTRO 25 Software* (B1905) is a CD which contains the application software for both the dispatch console and the archiving interface server. The two refresh license options (CA00899AA and CA00900AA) provide licenses for using new versions of the dispatch console or archiving interface server software.

These items may be used in the following scenarios.

Buying a New Console System

The dispatch consoles and archiving interface servers come with the appropriate software installed on their computer hard disks, but they do not come with a copy of the software on CD or DVD. It is strongly suggested that at least one *MCC 7500 ASTRO 25 Software* model (B1905) be ordered for each console system as a backup copy.

It is not necessary to order either of the software refresh license options when buying a new console system. They are used when upgrading an existing console system.

Upgrading an Existing MCC 7500 Console System

Upgrade an existing Motorola MCC 7500 console system to the latest version of software as follows.

- Order the desired number of *MCC 7500 ASTRO 25 Software* models (B1905) (at least one is required, but more may be ordered if the customer wants them)
- Order one *ADD: Dispatch Console Software Refresh License* option (CA00899AA) for each dispatch console being upgraded
- Order one *ADD: Archiving Interface Server Software Refresh License* option (CA00900AA) for each archiving interface server being upgraded

The two software refresh license options provide licenses for using the new versions of the dispatch console or archiving interface server software. They must be ordered as sub-items to the *MCC 7500 ASTRO 25 Software* model. The quantities of the software refresh license

options may (and most likely will) exceed the quantity of the main model.

Note that the version of software used in the dispatch consoles and AISs must match the versions of software in all the other products in the radio system (zone controller, network manager, CCGWs, Aux I/O servers, etc.). It is usually not possible to upgrade just the dispatch consoles and AISs themselves.

Buying Additional Copies of the Software

If a customer wishes to have additional copies of the dispatch console or archiving interface server software, then the *MCC 7500 ASTRO 25 Software* model (B1905) may be ordered by itself.

Adding Operational Licenses to Fielded Dispatch Consoles and AISs

The following licenses are for use with fielded MCC 7500 dispatch consoles and archiving interface servers. The BLN1316 and BLN1317 are used only with customers who are either converting a SmartX Site Converter VPM into a MCC 7500 VPM or who are using FRUs to build a MCC 7500 dispatch console or archiving interface server. The rest of the licenses are used when adding the indicated functionality to a fielded dispatch console or archiving interface server, when converting a SmartX Site Converter VPM into a MCC 7500 VPM or when using FRUs to build a MCC 7500 dispatch console or archiving interface server.

Note that the CA01221AA and CA01221AB options are the equivalent of the BLN1316 + BLN1311 + BLN1312, so these do not need to be ordered if the CA01221AA or CA01221AB was ordered with the original dispatch console.

Note also that the CA00288AA and CA00288AB options are the equivalent of the BLN1317, so it does not need to be ordered if the CA00288AA or CA00288AB was ordered with the original archiving interface server.

Adding Basic Dispatch Operation to a Dispatch Console being built from a Converted SmartX VPM or a VPM FRU

Field-assembled VPM-based dispatch consoles can add the licensing for basic console operation by ordering the *Basic Console Operation Field-Add License* (BLN1316) for each dispatch console being assembled in the field.

Adding AIS Software License to an AIS being built from a Converted SmartX VPM or a VPM FRU

Field-assembled VPM-based archiving interface servers can add the AIS license by ordering the *AIS Software Field-Add License* (BLN1317) for each archiving interface server being assembled in the field.

Adding Secure Operation

Existing dispatch consoles and archiving interface servers can add the licensing for secure operation by ordering the *Secure Operation Field-Add License* (BLN1304) for each dispatch console and/or archiving interface server that needs the feature. Note that this license does not provide any required hardware or encryption algorithms. They must be ordered separately.

Adding OTEK Operation

MCC 7500 dispatch consoles and archiving interface servers can support Over the Ethernet

Keying (OTEK) operation beginning in the 7.7 system release. Existing systems that are 7.7 or later can add the licensing for OTEK operation by ordering the *Over the Ethernet Keying (OTEK) Operation Field-Add License* (BLN1302) for each dispatch console and/or archiving interface server that needs the feature.

Adding Trunking Operation

Existing dispatch consoles can add the licensing for trunking operation by ordering the *MCC 7500 Trunking Operation Field-Add License* (BLN1311) for each dispatch console that needs the feature.

Adding Advanced Conventional Operation

Existing dispatch consoles can add the licensing for advanced conventional operation by ordering the *MCC 7500 Advanced Conventional Operation Field-Add License* (BLN1312) for each dispatch console that needs the feature.

Adding Inbound Event Display Operation

Existing dispatch consoles can add the licensing for IED operation by ordering the *MCC 7500 Inbound Event Display (IED) Operation Field-Add License* (BLN1313) for each dispatch console that needs the feature.

Adding or Upgrading Encryption Algorithms on VPM-Based Dispatch Consoles and AISs using a KVL 3000 Plus

Due to obsolete part issues, it is no longer possible to use KVL 3000 Plus KVLs to add algorithms to MCC 7500 consoles. A KVL 4000 KVL must be used. Please see the following section.

Adding or Upgrading Encryption Algorithms on VPM-Based Dispatch Consoles and AISs using a KVL 4000

If a customer wishes to add new encryption algorithms to existing secure-capable VPM-based MCC 7500 dispatch consoles and/or archiving interface servers using a KVL 4000 KVL, the *MCC 7500 VPM Secure Algorithm Upgrade for KVL 4000* (T8063) should be ordered along with the desired algorithm options. This provides a CD containing the desired numbers and types of encryption algorithms. The CD is then used in conjunction with a KVL 4000 Key Variable Loader (KVL) to add the algorithms to secure cards. The KVL 4000 keyloader must have at least the R02.05.03 (also listed as 1.3.0000.174) version of software to be able to load algorithms in VPMs.

Note: The serial number of the KVL 4000 keyloader must be entered into the ordering system when ordering the T8063. This serial number will be loaded on the CD by the factory. The CD can only be used by the keyloader with the matching serial number.

The *MCC 7500 VPM Secure Algorithm Upgrade* may also be used to upgrade encryption algorithms to the latest versions in existing secure-capable VPM-based MCC 7500 dispatch consoles and/or archiving interface servers.

Order one algorithm option for each VPM that is being upgraded. For example, to add the ADP algorithm to three VPMs, order one T8063 with three CA00245AA options.

Multiple types of algorithm options may not be ordered on the same T8063. For example, to add the DES-OFB and AES algorithms to twenty-four VPMs, order two T8063s with twenty-

four CA00143AC options on one and twenty-four CA00182AB options on the other.

The T8063 can support up to 100 copies of any single algorithm option.

When adding algorithms to a VPM on a 7.7 system, make sure the VPM has the 7.7 SER or later version of software (VPM_R7.7.00.23). Earlier versions of the 7.7 VPM software do not allow algorithms to be added in the field. Contact Upgrade Operations to obtain the 7.7 SER software. VPMs on 7.8 and later systems do not have any special software version requirements.

Dispatch API Software Development Kit

The Software Development Kit (SDK) for the MCC 7500 Dispatch API requires a license agreement to be executed between the software developer and Motorola Solutions. The license agreement, and instructions for completing it, can be found on the [MCC 7500 wiki page](#). After the license agreement has been signed by both parties, an invoice will be issued for payment of the license fee (\$5000.00). After payment has been received, the SDK will be shipped to the developer. The B1925 is no longer used to order the SDK. **Please note that the licensing process typically takes around 8 weeks to complete. Please plan accordingly.**

The SDK is required when a customer wishes to use the MCC 7500 Dispatch API to allow 3rd party software to communicate with the MCC 7500 dispatch console or if they wish to use a custom graphical user interface (GUI) on the dispatch console.

The right to use the Dispatch API is covered by the console software license (CA01221AA, CA01221AB, CA01222AA or CA01642AA) which must be purchased with each dispatch console, so no additional licenses are required.

Technical support for the SDK may be ordered using the QLN3437 *Field Add MCC 7500 SDK Technical Support* which provides one hour of technical support. Multiple quantities of the QLN3437 may be ordered if more than one hour of support is desired. The QLN3437 is a "billing only" item (a BB item) and therefore must be on a factory order by itself.

Note that if the QLN3437 is not ordered, no plant technical support will be provided for the software developers using the SDK.

Ship Card

Data Not Available

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

ASTRO 25 Edge Availability Ordering Information

Ordering Information

Overview

The Edge Availability architecture will increase the resiliency of ASTRO 25 Trunking systems by adding a new fallback feature. If a failure occurs at the Master Site, or with the links to the Master Site, Edge Availability will pass call control outward from the central core to the edges. Control at the edge will maintain trunking Voice operations to regional users by enhancing the Site Trunking fallback mode. Data and Network Management applications will not be available during this fallback mode. The regional dispatch and RF sites utilizing Edge Availability will benefit from:

- Multi-site voice operation across local RF and dispatch sites
- Talkgroup roaming across local RF sites
- Wireline dispatch capability providing emergency alarm with aliases, console priority, and access to all talkgroups without using control stations
- Same talkgroup/user access control for site registrations as in normal wide-area mode

Typical fallback modes for when the Master Site is compromised, like Site Trunking, cause the Dispatch and RF sites to become isolated from the rest of the system. Users who typically operate within a subset of the overall radio system's geography can maintain that regional operation during the failure with an Edge subsystem (also referred to as Trunking Sybssystem, or Tsub). Communications with the users outside of the regional area will resume once the Master Site becomes available.

The Edge Availability architecture provides the flexibility to be sized from one to many Edge subsystems within an ASTRO 25 system. Each regional Edge subsystem can include a combination of Dispatch Sites, ASTRO 25 Repeater Sites, and a Simulcast subsystem. The architecture is compatible with Master Site Geographic Redundancy (DSR) and Geographic Redundant Simulcast Prime Sites. Redundant Edge Prime Sites are supported even if there is no Simulcast subsystem.

Ordering Requirements

With the new Edge Availability subsystem architecture, the only new hardware unique to this architecture is an Edge Controller server. The Edge Controller uses a server that is very similar to the Core servers.

If the Edge Availability subsystem contains a Simulcast Cell, the Edge Controller server and software will be the only new equipment. The transport equipment for the Simulcast Prime Site will be utilized as specified for the Prime Site.

If the Edge Availability subsystem only contains ASR Repeater Sites and Dispatch Sites, a physical location will have to be designated as the "Edge Prime Site". The Edge Controller server will be located at this site along with new transport equipment. The transport equipment required is the same as for a Simulcast Prime Site and should be ordered as directed by the System Planner and the Network Transport section of PCAT.

If the Edge subsystem will only contain one Dispatch and one RF site (2 total sites), only the EDGE CONTROLLER BASE SOFTWARE is required. For subsystems with more than 2 total sites the EDGE CONTROLLER MULTI-SITE SOFTWARE is required.

Dynamic Transcoding

Dynamic Transcoding functionality is also an option to the Edge Controller. If the ASTRO 25 system is enabled with Dynamic Transcoding for optimal TDMA/FDMA operations, you may also want to enable Dynamic Transcoding when operating in the Edge Availability subsystem fallback mode. The Dynamic Transcoder option installs the software on the Edge Controller server for use when in the Edge fallback mode, and will allow up to the same number of Transcoded Simultaneous Calls that are licensed in the system, up to a maximum of 100 Simultaneous Calls. The Transcoded Simultaneous Calls license is not required to be purchased again for the Edge Availability subsystem.

Submitting the Order

Personality information is required, just like when ordering a Master Site. **The following information must be included before placing the order:**

1. **System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. **Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. **System Extension ID.** Four digit hexadecimal number, typically 0000. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

Main Model

Description	Full Description	Nomenclature	APC	Price

EDGE CONTROLLER SERVER	Requires CA03120AA, CA03120AB or CA03120AC	SQM01SUM0299	424	\$20,000.00
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Options

Order the Base Software option for the specific ASTRO system release (**Required**)

Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER BASE SOFTWARE	Required option for A7.17.x systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen9 Edge Controller Server.	CA03120AA	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW A7.18	Required option for A7.18 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AB	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2019.2	Required option for A2019.2 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AC	877	\$45,000.00

If the Edge subsystem will have more than one Dispatch Site or more than one RF Site, then the MULTI-SITE SOFTWARE is also required.

Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER MULTI-SITE SW	For subsystems with more than 1 RF Site or more than 1 Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.00

If Dynamic Transcoding functionality is enabled for the system and is desired when operating in the Edge Availability fallback mode, order the following option based on system release.

Description	Full Description	Nomenclature	APC	Price
	For ASTRO System Release			

ADD: DYNAMIC TRANSCODER	7.17.x (Requires MULTI-SITE SW CA03121AA)	CA03122AA	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A7.18	For ASTRO System Release 7.18. (Requires MULTI-SITE SW CA03121AA)	CA03122AB	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A2019.2+	For ASTRO System Release 2019.2. (Requires MULTI-SITE SW CA03121AA)	CA03122AC	877	\$20,000.00

Mounting Options

Mounting options are available for either a rack or a cabinet.

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	060	\$115.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	060	\$20.00

Local Backup for Domain Controllers

Select the NAS below if you would like to be able to locally backup files for the Edge Prime Site DC (e.g., DC logs). This has typically only been a requirement for some of our Federal customers.

Software Add-ons

If you want to add capabilities to an existing Edge Controller Server, start with the following item.

Description	Full Description	Nomenclature	APC	Price
EDGE CONTROLLER SW UPGRADE	-	T8380	877	\$0.00

The following software options can be added to an existing Edge Controller Server.

If the Edge subsystem will have more than one Dispatch Site or more than one RF Site, then the MULTI-SITE SOFTWARE is also required.

Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER	For subsystems with more than 1 RF Site or more than 1			

MULTI-SITE SW	Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.00
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If Dynamic Transcoding functionality is enabled for the system and is desired when operating in the Edge Availability fallback mode, order the following option.

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER	For ASTRO System Release 7.17.x (Requires MULTI-SITE SW CA03121AA)	CA03122AA	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A7.18	For ASTRO System Release 7.18. (Requires MULTI-SITE SW CA03121AA)	CA03122AB	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A2019.2+	For ASTRO System Release 2019.2. (Requires MULTI-SITE SW CA03121AA)	CA03122AC	877	\$20,000.00

Spares

Description	Full Description	Nomenclature	APC	Price
FRE: EDGE AVAILABILITY G10 SERVER	Spare DL380 Gen10 for A7.18 or A2019.2 Edge Server	DLN8029	877	\$25,000.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	Order with DLN8029A when replacing a G9 Server in a A7.18 System	T8750	877	\$0.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10	DLN6942	454	\$1,750.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10	DLN6971	454	\$228.00
DL 380 G9 ETHERNET CARD	For G9 and G10	DLN7018	061	\$550.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN6942	1.2 TB HARD DRIVE	454	8
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	DLN7018	DL 380 G9 ETHERNET CARD	061	45
ACCESSORY	SCB	DLN8006	FRU: DL380 G10 POWER SUPPLY	877	5
ACCESSORY	SCB	DLN8007	FRU: DL380 G10 FAN	877	5
ACCESSORY	SCB	DLN8029	FRE: EDGE AVAILABILITY G10 SERVER	877	20
QUOTEDS	PCW	DSTS453BE4GUS	QNAP J3455 QUAD CORE BAY DRIVE WITH 4 SEAGATE HDD 64MB	708	30
FIXEDSTN	SCB	SQM01SUM0299	EDGE CONTROLLER SERVER	424	5
FIXEDSTN	SCB	T8380	EDGE CONTROLLER SW UPGRADE	877	21
FIXEDSTN	SCB	T8750	G10 SERVER SW WITH ESXI 6.5 LICENSE	877	45

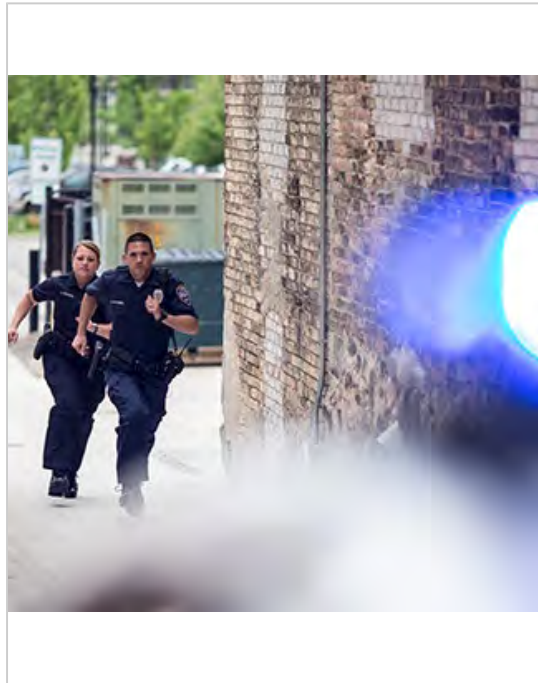


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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



ASTRO 25 PDEG ENCRYPTION UNIT

Ordering Information

General Information

The PDEG Encryption Unit is a component of the Encrypted Integrated Data (EID) feature that is located within the Customer Enterprise Network (CEN). The EID feature provides data encryption services for dedicated ASTRO 25 Trunked Integrated Voice and Data applications between the CEN and subscriber radios. The EID feature uses IPsec to provide AES encryption, decryption, and authentication of packet data between each EID enabled subscriber radio and a PDEG Encryption Unit. Using the EID feature, users can secure data sent between CEN applications and the subscriber radio's internal or external applications.

Features

- ASTRO 25 IV&D data transmissions are protected over-the-air and in the Radio Network Infrastructure
- Encrypts, decrypts, and authenticates data traffic entering and leaving the Customer Enterprise Network (CEN) using AES encryption
- FIPS-140-2 level 3 Security
- Centrally managed using an ASTRO 25 Key Management Facility (KMF) server in the CEN

APCO Project 25 Compliant Algorithms

- AES-OFB

FIPS 140-2 Certified Algorithms

- AES-OFB

Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

Ordering Requirements

Ordering a new PDEG Encryption Unit with Encrypted Integrated Data Feature and AES Encryption:

1. Orders for a new PDEG Encryption Unit must first select main hardware model (T7539).
2. Must select at least one (1) RS232 Cable (DLN6693) per PDEG Encryption Unit.
3. Must Select one (1) required AES Encryption Kit (CA00182AT).
4. Must select one (1) required ASTRO 25 Encrypted Integrated Data Operation (CA01483AA)

The following items are shipped with the ASTRO 25 PDEG Encryption Unit Hardware (T7539) :

- 2 Ethernet Cables
- 1 AC Power Supply
- 1 Desk mount hardware

NOTE: A second Unit should be ordered if redundancy is a requirement.

Accessory Information:

Customers must order one TKN9282 Rack Mount Plate for every three PDEG Encryption Units to be installed in a rack or cabinet

Customers must order one TKN9283 Rack Mount Bracket for every six PDEG Encryption Units to be installed in open racks

Customers must order at least one TKN8531C Keyloader Cable for loading encryption keys on Encryption Unit, if utilizing the KVL 3000 Plus.

If spares are required please order an additional unit.

Products, kits, components and software that contain encryption functions or features, and technology related to the development or implementation of encryption functions or features, will generally require an approved export license prior to export. If required, export license approvals will be based on the algorithms involved, the country of final destination and the specific end user. Depending on the location of the entity making the sale and the source location of the encryption items it may be necessary to obtain licensing from more than one country for the same sale. Contact your Local Export Control office if you are unfamiliar with the licensing process or to

discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Configuration

Upgrades

An Existing PDEG can be upgraded to the latest software. This is required for ASTRO customers upgrading to A7.16 or higher, who currently have PDEGs purchased prior to A7.16. For upgrade with KVL 4000, Order the following to upgrade PDEG software:

Description	Full Description	Nomenclature	APC	Price
PDEG ENCRYPTION/CD SOFTWARE UPGRADE KIT	-	T8210	137	\$50.00
ADD: PDEG CD SOFTWARE UPGRADE	-	CA02854AA	137	\$50.00

Model

HARDWARE

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 PDEG ENCRYPTION UNIT	-	T7539	137	\$750.00

Options

SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: ASTRO 25 EID OPERATION	-	CA01483AA	137	\$6,500.00

Accessories

Description	Full Description	Nomenclature	APC	Price

RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00
RACK MOUNTING PLATE	-	TKN9283	811	\$60.00
RACK SUPPORT BRACKET	-	TKN9282	811	\$64.00
CABLE FOR RNC, DIU MGEG	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered seperately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	T7539	ASTRO 25 PDEG ENCRYPTION UNIT	137	3
FIXEDSTN	SCB	T8210	PDEG ENCRYPTION/CD SOFTWARE UPGRADE KIT	137	7
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19

SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
FIXEDDATA	SSO	TKN9282	RACK SUPPORT BRACKET	811	1
FIXEDDATA	SSO	TKN9283	RACK MOUNTING PLATE	811	3

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

ASTRO 25 Security Monitoring Service

Ordering Information

General Information

ASTRO 25 Security Monitoring is **only available for ASTRO 25 System Release 6.5 and above systems. This Service supports the current shipping Release and three previous System Releases.** Security Monitoring Service is an integration of the existing Network Monitoring service with Security Monitoring that includes the monitoring of radio system infrastructure as well as monitoring and managing the Motorola security equipment present on the Customers System.

Motorola's ASTRO 25 Security Monitoring is a complete solution that provides peace of mind and reduces the risk that your network availability will be impacted by a security threat. The solution includes uninterrupted monitoring of the radio network security elements by experienced, specialized security technologists with years of experience working with communications networks like yours. Motorola security technologists keep continuous eyes on your network to detect, analyze, and respond remotely or on-site to security events. This level of service will ensure that the operational impact that any security event may cause to your network is kept to a minimum, and in many instances, eliminated. For highly complex or unusual security events, our technologists have direct and immediate access to Motorola engineers for rapid resolution.

Features

- Customer Support Management
- Remote Diagnostic & Monitoring
- 24 Hour Monitoring of System & Security Elements
- Escalation Management
- Report Metrics
- 24 Hour/365 Day Service Availability

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions:

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

ASTRO 25 Security Monitoring [SOW](#):

ASTRO 25 Security Monitoring w/Customer Technician Dispatch [SOW](#):

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of security elements. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. P
7. Both
8. When ASTRO 25 Security Monitoring Service is purchased, other service offerings are also required to price the service appropriately. Please refer to the below chart.

	Security Monitoring	Network Monitoring	SUS	Technical Support	Dispatch Service	Customer Technician Dispatch	OnSite Infrastructure Response
Motorola Maintained	Required	Required	Required	Not Required	Required	N/A	Required
Customer Maintained (COAM)	Required	Required	Required	Suggested	N/A	Required	N/A

1. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

ASTRO 25 Security Monitoring Service

Network Security Monitoring for Astro25 System Releases in Standard Support				
Description	Nomenclature	APC	Price	
Network Security Monitoring	SVC01SVC0033A	0519		
ASTRO25 L-Core	L1 Master Site		\$2,719.20	

	L2 Master Site		\$2,719.20	
	Console Ops		\$656.70	
	Firewall		\$6,798.00	
	Intrusion Detection System		\$6,798.00	
	Centralized Syslog		\$3,399.00	
ASTRO25 M-Core	M1 Master Site		\$2,719.20	
	M2 Master Site		\$2,719.20	
	M3 Master Site (First Zone)		\$2,719.20	
	M3 Master Site (Add'l Zone)		\$2,719.20	
	DSR Site		\$2,719.20	
	Console Ops		\$656.70	
	Firewall		\$6,798.00	
	Intrusion Detection System		\$6,798.00	
	Centralized Syslog		\$3,399.00	

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® 25 Trunking

**L NON-REDUNDANT/L REDUNDANT
Core Upgrades**

Ordering Information

NOTE: For detailed information on Orderability and Option Descriptions please check the [Ordering Guide](#)

General Information

L Core is an ASTRO 25 trunking solution targeted at small scale trunking customers. It offers fielded SMARTNET, SmartWorks, StartSite, or conventional customers an affordable Motorola P25 trunked system. L Core allows customers to interface scaled trunking solutions to MCC 7500 or MCC 7100 IP Wireline Consoles. It is supported by a mission critical grade Network Management suite that allows customers to manage users on their system. L Core also enables access to a powerful, scalable, modular ASTRO 25 Portfolio.

For further detail related to features and functionality, please visit the links below...

[Network Management Go-To-Market folder](#)

[Network Management Wiki](#)

[Performance Management Wiki](#)

[Configuration Management Wiki](#)

[Fault Management Wiki](#)

[Radio Authentication Go-To-Market folder](#)

[P25 Phase 2 TDMA Trunking Go-To-Market folder](#)

[ASTRO 7.13 System Planner](#)

Optional Features & Subsystems

L Core configurations can be ordered in a 7 foot rack or cabinet mount. Other options that can be added include Additional Radio User or Site licenses, Encrypted Integrated Data, HA Data, Redundancy, Link Encryption, Air Traffic Information Access, Computer Aided Dispatch Interface, and MOSCAD GMC Manager. Also, various Information Assurance and Security features such as Radio Authentication, Multifactor Authentication and Anti-Malware Service Server may be specified.

[MOSCAD Go-To-Market folder](#)

[Information Assurance Wiki](#)

Optional subsystems that can be ordered include RF Sites, IP Simulcast, MCC 7500 or MCC 7100 Dispatch Console, Enhanced Telephone Interconnect (ETI), ISSI.1 interface to other P25 systems, and various data applications like Fire Station Alerting, Text Messaging, Outdoor Location etc.

Additional information on L Core can be found at: <http://compass.mot-solutions.com/web/l-core>

General Ordering Information

These pages below will lead you through the necessary steps required to order an upgrade and /or expansion to your ASTRO 25 L Core system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The following information must be included on the order for all SQM model numbers:

System ID - This would have been assigned when the original system was purchased.

Additional Resources

[Declaration of Conformity](#)

[CESG Certificate](#)

[TETRA Support Services](#)

[Marketing Materials](#)

[TETRA Solutions](#)

[TETRA Service Portfolio](#)

[GTR 8000 ECAT Page](#)

[MCC 7500 Dispatch Console ECAT Page](#)

[ISSI.1 ECAT Page](#)

[GGM 8000 ECAT Page](#)

[ETI ECAT Page](#)

Configuration

CORE UPGRADE REQUIREMENTS

Required: Order the Core

Redundant or Non-Redundant Core

Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L Core Upgrade Configuration	-	SQM01SUM0240	425	\$0.00
ADD: ASTRO 7.14 UPGRADE KEY	-	CA02019AD	425	\$0.00

Step 2: Order Qty 4 Additional DAS HDs for L1 and L2 Cores

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.13 OEM TO 7.15 EMB	-	CA02666AA	382	\$12,800.00
ADD: L UPGRADE CONFIGURATION 7.13 TO 7.15	-	CA02700AA	425	\$130,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02665AA	382	\$12,800.00
ADD: TRUNKING DATA SW UPGRADE 7.15	-	CA01893AE	425	\$9,000.00
ADD: L UPGRADE CONFIGURATION 7.14 TO 7.15	-	CA02701AA	425	\$65,000.00

ADD: SECURITY BUNDLE UPGRADE 7.15	-	CA01895AE	425	\$2,000.00
ADD: RADIO AUTHENTICATION UPGRADE 7.15	-	CA01891AE	425	\$1,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
DAS - PROCESSOR MODULE	-	DLN6879	877	\$7,980.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
FRE: DL380p G8 HC NO	Server used in non-redundant core configurations. One per	DLN6863	280	\$19,500.00

DISK	L1 and M1.			
FRE: DL380p G8 HC 300GB DISK	Used in redundant core configurations. Two per L2, M2, and M3 1st zone and 1 per M3 add-on zone.	DLN6822	280	\$20,000.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
CPH 300 GB HARD DRIVE	-	DLN6844	280	\$411.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	CKN6952	SAS CABLE 1M	454	2
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S	454	4

			MANUAL		
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
CNTRLR	SCB	DLN6822	FRE: DL380p G8 HC 300GB DISK	280	68
CNTRLR	CDP	DLN6844	CPH 300 GB HARD DRIVE	280	2
CNTRLR	SCB	DLN6863	FRE: DL380p G8 HC NO DISK	280	45
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6879	DAS - PROCESSOR MODULE	877	65
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
CNTRLR	SCB	DLN6881	1 TB SAS HARD DRIVE	280	19
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0240	L Core Upgrade Configuration	425	45
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® 25 Trunking

**L NON-REDUNDANT/ L REDUNDANT
Core – A7.16 New & Expansion**

Ordering Information

NOTE: For detailed instructions on orderability or option descriptions please check the Ordering Guide at [7.16 L-Core New and Expansion Guide](#).

General Information

L Core is an ASTRO 25 trunking solution targeted at small scale trunking customers. It offers fielded SMARTNET, SmartWorks, StartSite, or conventional customers an affordable Motorola P25 trunked system. L Core allows customers to interface scaled trunking solutions to MCC 7500 or MCC 7100 IP Wireline Consoles. It is supported by a mission critical grade Network Management suite that allows customers to manage users on their system. L Core also enables access to a powerful, scalable, modular ASTRO 25 portfolio.

Capacity

The L core supports 5 sites. Two of these sites can be simulcast subsystems. The maximum number of remote simulcast RF sites in a L core is 10. These 10 simulcast remote RF sites can be part of a single simulcast cell or can be distributed across the 2 simulcast cells. Each repeater site can have 28 trunking channels. Conventional channels are supported as mutual aid channels and limited to 8 digital or 8 analog channels. Conventional channels at dispatch sites are supported with CCGW's. Standard MCC7500 Conventional channels dispatch capacity rules apply. Conventional only sites are not supported in L Core. There is a total system limitation of 150 channels (stations). Up to 50 MCC 7500 or MCC 7100

console positions can be included in an L Core system.

L1 system stands for Non-Redundant Core while L2 stands for Redundant Core Configuration

Simplified Ordering

Supermodels have been created which contain all main components required for a single site system. The supermodel bundle includes core hardware and gateways, the ASTRO 25 Trunking Operational license (FDMA and TDMA), a single ASTRO 25 voice site license (FDMA, TDMA or Mixed FDMA/TDMA), as well as licenses for 500 radio users and 5 dispatch consoles. Additionally Windows OS Hardening Kit, baseline backup and Anti-Malware licenses for windows PCs and servers within the core are in the supermodel bundle.

L1-non-redundant core includes:

- Core VMS Server
- ISSI8000 VMS Server (also used for Dynamic Transcoding; ISGW virtualized, use ISSI8000 ECAT page to order roaming licenses)
- CEN VMS Server (WAVE virtualized; use WAVE ECAT page to order licenses if your customer wants WAVE)
- DAS
- 48-port LAN switch
- 24-port Backhaul Switch
- 2-GGM 8000 Gateways
- GGSN, Border Gateway and Switch (CEN Hardware)
- 2-Firewalls (1 for ISSI/WAVE Enablement and 1 for Data Apps in the CEN)

L2-redundant core includes:

- 2 Core VMS Servers (ISGW virtualized, use ISSI8000 ECAT page to order roaming licenses)
- CEN VMS Server (WAVE virtualized; use WAVE ECAT page to order licenses if your customer wants WAVE)
- DAS
- 2 48-port LAN switches
- 2 24-port Backhaul Switches
- 4-GGM 8000 Gateways
- GGSN, Border Gateway and Switch (CEN Hardware)
- 2-Firewalls (1 for ISSI/WAVE Enablement and 1 for Data Apps in the CEN)

Network Management

A single NM license is included for Network Management operation. The NM Client resides on the VMS server and can be accessed from a console op or a dedicated NM workstation. There is an option to add a second NM client to the system.

NM applications included as a part of the core supermodels are Provisioning Manager, Unified Event Manager, Unified Network Configurator, Zone Watch, Historical Reports – single license each. An additional license can be purchased for each for a maximum of 2 concurrent licenses. The core supermodel also includes 3 licenses for Radio Control Manager. UEM application handles fault management of all devices. Similarly, the UNC application is used for the configuration management of transport and remote RF site

devices.

Optional Features & Subsystems

L Core configurations can be ordered in a 7 foot rack or cabinet mount. Other options that can be added include Additional Radio User or Site licenses, Encrypted Integrated Data, HA Data, Redundancy, Link Encryption, Air Traffic Information Access, Computer Aided Dispatch Interface, and UEM Fault Manager. Also, various Information Assurance and Security features such as Radio Authentication, Multifactor Authentication and Anti-Malware Service Server may be specified.

Optional subsystems that can be ordered include RF Sites, IP Simulcast, MCC 7500 or MCC 7100 Dispatch Console, Enhanced Telephone Interconnect (ETI), ISSI8000 interface to other P25 systems, and various data applications like MACH Alert, Text Messaging, Outdoor Location etc.

[ASTRO 7.16 System Planner](#)

General Ordering Information

These pages below will lead you through the necessary steps required to order your new ASTRO 25 L Core system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The first choice to be made on the ordering sequence is what size of a system does the customer desire and what functionality will be needed on the system? For example, do they need a redundant configuration (L2) or a non-redundant configuration (L1)? Will it be a voice only system or will they need Integrated Data? Will the system need any MCC 7500 or MCC 7100 Dispatch Consoles?

A Master System Key Starter Kit package (DVN4046) should be ordered with every L Core system. This will be automatically added to engineering equipment lists generated from the REC tool.

All L Core systems will need to be staged in Motorola CCSi facility. Please be sure to include Level 6 staging in your SI Configurator.

Ordering Requirements

The following information must be included before placing the order:

- 1. System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
- 2. Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for L1/L2 systems.
- 3. System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).

4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

NOTE: Software licenses are automatically generated based on the System, Zone and System Extension ID provided on the order. **It is critical that valid information is entered on the order, otherwise software licenses will fail to install.**

Please verify ID information using the following guidelines before submitting an order.

- **New System:** Follow the Trunked Data Repository (TDR) process to request a new System ID (<http://tdr.corp.mot.com/TDRPRD/>). System Extension ID should always be set to 0000 except for rare cases when the same System ID is shared across multiple customer systems.
- **Existing System:** Login to the License Manager application from an NM Client Workstation and locate the Device ID at the bottom right of the screen. The Device ID will be in the following format: System ID - Zone ID - System Extension ID - xxxx -xxxx - xxxxxxxxxxxx
- *For example, Device ID 09FF-0003-0000-0001-9283-130493454762 corresponds to System ID 09FF, Zone ID 0003, and System Extension ID 0000.*

If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

Additional Resources

[GTR 8000 Page](#)

[MCC 7500 Dispatch Console Page](#)

[GGM 8000 Page](#)

[ETI Page](#)

Configuration

Required: Order the Core

Order the Supermodel

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options

Description	Full Description	Nomenclature	APC	Price
ADD: NON REDUNDANT CORE	-	CA02881AA	425	\$110,950.00

ADD: REDUNDANT CORE	Required: Order Rack or Cabinet	CA02882AA	425	\$229,575.00
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Required: Order Rack or Cabinet

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Required for Expanding 7.16 systems only	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Required for Expanding 7.15 systems only

NOTE: L to M Migration is ordered on the M-Core 7.16 New Add-on page

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.16 L CORE	Required for L1 to L2 Expansion	CA02648AB	877	\$0.00

Required for L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	Optional: Order System Features	CA02883AA	425	\$150,000.00

Optional: Order System Features

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous	CA02919AA	877	\$40,000.00

	Transcoded Calls Two servers are included with this option.			
ADD: DYNAMIC TRANSCODER	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls One server is needed for Dynamic Transcoding, which ships as standard on L1/M1. ISSI8000 and Dynamic Transcoding cohab on this server.	CA02834AA	877	\$20,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Optional: Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
ADD: MCC7500/MCC7100 CONSOLE	Optional: Order	UA00235AA	877	\$250.00

GROUP TEXT LICENSES	Additional Features			
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Optional: Order Additional Features

Security / IA Package

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AE	425	\$20,000.00

Radio Authentication and Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AC	877	\$11,300.00

IPv6

Description	Full Description	Nomenclature	APC	Price
IPV6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00
	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic			

ADD: IPV6 SITE LICENSE	Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00
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700/800 Mixed Site

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.	CA01395AA	877	\$15,000.00

Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD:TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ENH: 500 ENHANCED TRUNKED DATA USER	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of	CA02473AA	877	\$2,000.00

LICENSES	Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)			
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD: HA TRUNKED INTGRTD DATA	-	CA02135AC	425	\$85,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	Optional: Configuration Features	UA00163AA	877	\$20,000.00
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00

Optional: Configuration Features

System Management

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00

Network Management Client

Description	Full Description	Nomenclature	APC	Price
ASTRO CLIENT APPL SW 7.16	-	T8206	877	\$850.00

Network Management

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC REPORTS	-	UA00150AA	877	\$15,000.00
ADD: ZONE HISTORICAL RPTS	-	UA00144AA	877	\$5,000.00

ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: AFFLIATION USER RPTS	-	UA00151AA	877	\$7,000.00
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00

UEM

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Order one per zone	UA00225AA	877	\$50,000.00

ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: MICROWAVE MAP AND SEGMENT VIEW	Order one per zone.	UA00226AA	877	\$12,000.00

ATIA

Description	Full Description	Nomenclature	APC	Price
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	<p>This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	ZA00103AA	285	\$3,000.00

CADI

Description	Full Description	Nomenclature	APC	Price
	<p>This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface</p>			

ENH: TECHNICAL ASSISTANCE, FORTY HRS	<p>(CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	ZA00104AA	285	\$12,000.00
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00

Email Alarm Notifications & Northbound Interface

Description	Full Description	Nomenclature	APC	Price
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	Optional: Order Encryption	CA01750AA	425	\$6,500.00

Optional: Order Encryption

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12)	Order one per each GGM 8000	CA02087AA	147	\$1,500.00

OR LATER)	gateway.			
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Optional: SMART-X Licenses

Description	Full Description	Nomenclature	APC	Price
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00

Optional: Order Licenses

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

P25 TDMA Licenses

Description	Full Description	Nomenclature	APC	Price

ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00

Conventional Talkgroup license

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00

Additional Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

Additional Radio User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00

Enhanced Data Users

Description	Full Description	Nomenclature	APC	Price
	Order the appropriate number of Enhanced			

ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00
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Optional: Order Anti-Virus

Anti-Virus / Anti Malware

Order 1 for each Windows based client in the system that will be managed by the AntiMalware server. Note that the Anti-Malware client is a license and software is included. The T model listed below is another copy of the software for products that do not embed Anti Malware in their server. It does not need to also be ordered if you are ordering a Master Site system.

The CSMS is the server on which the anti malware server application resides but it can also host the RSA management application as well as the IDS management application if a customer purchases this option. The CSMS can also host the front end for the Firewall management application. NOTE this is the front end client to access the Firewall Management Server and NOT the actual FMS.

Description	Full Description	Nomenclature	APC	Price
MCAFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do no embed the client license.	T7885	708	\$165.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed MCAfee.	CA02193AA	877	\$165.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
ADD: AC POWER	Additional Resources	CA01616AA	147	\$0.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA,MINI-SAS TO	G8/G9 to Dot Hill 4524			

MINI-SAS HD, LENGTH 1M	cable	CKN6967	877	\$130.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
CNTLR	SCB	DLN6523	CADI OVERVIEW AND USER'S	454	4

			MANUAL		
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
CNTLPATH	SCB	SQM01SUM0274	SINGLE ZONE TRUNKED L CORE	425	13
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
CNTRLR	SCB	T7885	MCAFFEE WINDOWS AV CLIENT	708	21
CNTLPATH	SCB	T8206	ASTRO CLIENT APPL SW 7.16	877	8
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® 25 Trunking

**L NON-REDUNDANT/L REDUNDANT
Core - A7.16 Upgrades**

Ordering Information

General Information

L Core is an ASTRO 25 trunking solution targeted at small scale trunking customers. It offers fielded SMARTNET, SmartWorks, StartSite, or conventional customers an affordable Motorola P25 trunked system. L Core allows customers to interface scaled trunking solutions to MCC 7500 or MCC 7100 IP Wireline Consoles. It is supported by a mission critical grade Network Management suite that allows customers to manage users on their system. L Core also enables access to a powerful, scalable, modular ASTRO 25 Portfolio.

General Ordering Information

These pages below will lead you through the necessary steps required to order an upgrade to your ASTRO 25 L Core system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The following information must be included on the order for all SQM model numbers:

System ID - This would have been assigned when the original system was purchased.

Additional Resources

[Declaration of Conformity](#)

[CESG Certificate](#)

[TETRA Support Services](#)

[GTR 8000 ECAT Page](#)[MCC 7500 Dispatch Console ECAT Page](#)[ISSI8000 ECAT Page](#)[GGM 8000 ECAT Page](#)[ETI ECAT Page](#)[Declaration of Conformity](#)[CESG Certificate](#)[TETRA Support Services](#)[Marketing Materials](#)[TETRA Solutions](#)[TETRA Service Portfolio](#)

Configuration

CORE UPGRADE REQUIREMENTS

Required: Order the Core

Redundant or Non-Redundant Core

Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L-CORE UPGRADE CONFIGURATION	-	SQM01SUM0290	877	\$0.00
ADD: UPGRADE A7.16	-	CA02921AA	425	\$0.00

**Step 2: Order Qty 4 Additional HD for DAS if upgrading 7.14 L1 or L2 Core.
Order Qty 2 Additional HD for DAS if upgrading 7.15 L1 or L2 Core.**

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
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ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02925AA	425	\$65,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02924AA	425	\$65,000.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02923AA	425	\$130,000.00
ADD: TRUNKING DATA SW UPGRADE 7.16	-	CA02926AA	425	\$9,000.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14_15 TO.16	-	CA02908AA	382	\$12,800.00
ADD: RADIO AUTHENTICATION UPGRADE 7.16	-	CA02927AA	425	\$1,000.00
ADD: SECURITY BUNDLE UPGRADE 7.16	-	CA02928AA	425	\$2,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02922AA	425	\$130,000.00
ADD: NORTHBOUND INTERFACE UPGRADE	-	CA02910AA	877	\$5,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00

DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00

IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13

CNTRLR	SCB	DLN6881	1 TB SAS HARD DRIVE	280	19
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
CNTLPATH	SCB	SQM01SUM0290	L-CORE UPGRADE CONFIGURATION	877	45
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® 25 Trunking L NON-REDUNDANT/ L REDUNDANT Core – A7.17 New & Expansion

For detailed instructions on orderability or option descriptions please check the Ordering Guide at [7.17 L-Core New and Expansion Guide](#).

Ordering Information

General Information

L Core is an ASTRO 25 trunking solution targeted at small scale trunking customers. It offers fielded SMARTNET, SmartWorks, StartSite, or conventional customers an affordable Motorola P25 trunked system. L Core allows customers to interface scaled trunking solutions to MCC 7500 or MCC 7100 IP Wireline Consoles. It is supported by a mission critical grade Network Management suite that allows customers to manage users on their system. L Core also enables access to a powerful, scalable, modular ASTRO 25 portfolio.

Capacity

The L core supports 5 sites. Two of these sites can be simulcast subsystems. The maximum number of remote simulcast RF sites in a L core is 10. These 10 simulcast remote RF sites can be part of a single simulcast cell or can be distributed across the 2 simulcast cells. Each repeater site can have 28 trunking channels. Conventional channels are supported as mutual aid channels and limited to 8 digital or 8 analog channels. Conventional channels at dispatch sites are supported with CCGW's. Standard MCC7500 Conventional channels dispatch capacity rules apply. There is a total system limitation of 150 channels (stations). Up to 50 MCC 7500 or MCC 7100 console positions can be included in an L Core system.

L1 system stands for Non-Redundant Core while L2 stands for Redundant Core Configuration

Simplified Ordering

Supermodels have been created which contain all main components required for a single site system. The supermodel bundle includes core hardware and gateways, the ASTRO 25 Trunking Operational license (FDMA and TDMA), a single ASTRO 25 voice site license (FDMA, TDMA or Mixed FDMA/TDMA), as well as licenses for 500 radio users and 5 dispatch consoles. Additionally Windows OS Hardening Kit, baseline backup and Anti-Malware licenses for windows PCs and servers within the core are in the supermodel bundle.

L1-non-redundant core includes:

- Core VMS Server
- ISSI8000 VMS Server (also used for Dynamic Transcoding; ISGW virtualized, use ISSI8000 ECAT page to order roaming licenses)
- CEN VMS Server (WAVE virtualized; use WAVE ECAT page to order licenses if your customer wants WAVE)
- DAS
- 48-port LAN switch
- 24-port Backhaul Switch
- 2-GGM 8000 Gateways
- GGSN, Border Gateway and Switch (CEN Hardware)
- 2-Firewalls (1 for ISSI/WAVE Enablement and 1 for Data Apps in the CEN)

L2-redundant core includes:

- 2 Core VMS Servers (ISGW virtualized, use ISSI8000 ECAT page to order roaming licenses)
- CEN VMS Server (WAVE virtualized; use WAVE ECAT page to order licenses if your customer wants WAVE)
- DAS
- 2 48-port LAN switches
- 2 24-port Backhaul Switches
- 4-GGM 8000 Gateways
- GGSN, Border Gateway and Switch (CEN Hardware)

Network Management

A single NM license is included for Network Management operation. The NM Client resides on the VMS server and can be accessed from a console op or a dedicated NM workstation. There is an option to add a second NM client to the system.

NM applications included as a part of the core supermodels are Provisioning Manager, Unified Event Manager, Unified Network Configurator, Zone Watch, Historical Reports – single license each. An additional license can be purchased for each for a maximum of 2 concurrent licenses. The core supermodel also includes 3 licenses for Radio Control Manager. UEM application handles fault management of all devices. Similarly, the UNC application is used for the configuration management of transport and remote RF site devices.

Optional Features & Subsystems

L Core configurations can be ordered in a 7 foot rack or cabinet mount. Other options that can be added include Additional Radio User or Site licenses, Encrypted Integrated Data, HA Data, Redundancy, Link Encryption, Air Traffic Information Access, Computer Aided

Dispatch Interface, and UEM Fault Manager. Also, various Information Assurance and Security features such as Radio Authentication, Multifactor Authentication and Anti-Malware Service Server may be specified.

Optional subsystems that can be ordered include RF Sites, IP Simulcast, MCC 7500 or MCC 7100 Dispatch Console, Enhanced Telephone Interconnect (ETI), ISSI8000 interface to other P25 systems, and various data applications like MACH Alert, Text Messaging, Outdoor Location etc.

ASTRO 7.17 System Planner

General Ordering Information

These pages below will lead you through the necessary steps required to order your new ASTRO 25 L Core system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The first choice to be made on the ordering sequence is what size of a system does the customer desire and what functionality will be needed on the system? For example, do they need a redundant configuration (L2) or a non-redundant configuration (L1)? Will it be a voice only system or will they need Integrated Data? Will the system need any MCC 7500 or MCC 7100 Dispatch Consoles?

A Master System Key Starter Kit package (DVN4046) should be ordered with every L Core system. This will be automatically added to engineering equipment lists generated from the REC tool.

All L Core systems will need to be staged in Motorola CCSi facility. Please be sure to include Level 6 staging in your SI Configurator.

Ordering Requirements

The following information must be included before placing the order:

NOTE: Software licenses are automatically generated based on the System, Zone and System Extension ID provided on the order. **It is critical that valid information is entered on the order, otherwise software licenses will fail to install.**

Please verify ID information using the following guidelines before submitting an order.

If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

1. System ID. Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.

2. Zone ID. Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for L1/L2 systems.

3. System Extension ID. Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account

teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).

4. Valid Email Address. This email will be used to deliver all software licensing entitlements to the customer.

NOTE: Software licenses are automatically generated based on the System, Zone and System Extension ID provided on the order. **It is critical that valid information is entered on the order, otherwise software licenses will fail to install.**

Please verify ID information using the following guidelines before submitting an order.

New System: Follow the Trunked Data Repository (TDR) process to request a new System ID (<http://tdr.corp.mot.com/TDRPRD/>). System Extension ID should always be set to 0000 except for rare cases when the same System ID is shared across multiple customer systems.

Existing System: Login to the License Manager application from an NM Client Workstation and locate the Device ID at the bottom right of the screen. The Device ID will be in the following format: System ID - Zone ID - System Extension ID - xxxx -xxxx -xxxxxxxxxxxx

For example, Device ID 09FF-0003-0000-0001-9283-130493454762 corresponds to System ID 09FF, Zone ID 0003, and System Extension ID 0000.

If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

Configuration

Required: Order the Core

Order the Supermodel

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options

Both options are required for an L1.

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AB	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AA	425	\$84,950.00

Both options are required for an L2.

Description	Full Description	Nomenclature	APC	Price
ADD: L2 REDUNDANT HW	-	CA03112AA	425	\$103,575.00
ADD: L2 REDUNDANT SW	-	CA02882AB	425	\$231,000.00

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Expanding 7.17 system	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Expanding 7.17 system

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION OFF L CORE CAPABILITIES - FEATURE	L1 to L2 Expansion	CA02648AC	425	\$0.00

L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	-	CA02883AA	425	\$150,000.00

Capacity Licenses

P25 FDMA/TDMA Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00

ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00

Additional Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

Order the appropriate number of licenses based upon the number of MCC7500/MCC7100 consoles in the system. Once license pack or five (5) operator position licenses come standard with the L Core supermodels. You may order up to nine (9) more MCC7500/MCC 7100 console position license packs. Each option ordered provides a license for five (5) physical console positions. Example: If a system has ten (10) MCC7500/MCC7100 console positions, the order should include a quantity of one (1) MCC7500/MCC7100 console licenses option. If an additional ten (10) MCC7500/MCC7100 console positions are being added to the system, a quantity of two (2) MCC7500/MCC7100 license packs should appear on the upgrade order.

User Licenses

Quantity 500 UA00152AA licenses come standard with the L Core supermodels. Maximum quantity 31 (15,500 licenses) of these options can be ordered in addition to the 500 licenses that come standard. There is a maximum quantity of 16,000 radio user licenses permitted.

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Each option ordered provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system	UA00664AA	877	\$1,000.00

Integrated Data

Trunked Integrated Data is Standard on new 7.17 systems. DO NOT choose CA01786AD for a new 7.17 zone. If you are expanding a system that did not ship with a PDG, then order one with CA02648AC.

Integrated Data Site Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00

Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD:TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ADD: HA TRUNKED INTGRTD DATA	-	CA02135AC	425	\$85,000.00
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent	CA02473AA	877	\$2,000.00

	upon the system configuration and type of Data users. Please consult the System Planner before ordering.)			
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Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

System Features

Personnel Accountability

Additional items are required for a complete Personnel Accountability solution. Please visit APX Personnel Accountability price page:

[APX Personnel Accountability PCAT page](#)

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

SmartConnect

SmartConnect requires Application Subscription per radio device. Refer to [SmartConnect End-to-End Ordering Guide](#) for full solution ordering and deployment details

Location on PTT

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00

Interference Locator

Description	Full Description	Nomenclature	APC	Price
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	-	CA02919AB	877	\$40,000.00
ADD: DYNAMIC TRANSCODER M1/L1	-	CA02834AB	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Security / IA Package

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AF	425	\$20,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.17.3)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AA	877	\$80,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	This option is required when "Host-Based CSMS" (CA03584AB) is ordered. Must order (1) for each Windows device in the system.	UA00726AA	877	\$200.00

Radio Authentication and Licenses

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	-	CA02472AD	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00

IPv6

Description	Full Description	Nomenclature	APC	Price
IPv6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only	CA01417AA	877	\$50,000.00

	systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.			
ADD: IPV6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00

700/800 Mixed Site

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.	CA01395AA	877	\$15,000.00

Configuration Features

System Management

Description	Full Description	Nomenclature	APC	Price

ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00

Network Management Client

Description	Full Description	Nomenclature	APC	Price
ASTRO 7.17 CLIENT	-	T8363	877	\$850.00
Z2 MINI WORKSTATION 258G 8G NON RET	Note: Due to its small form factor, the workstation computer does not contain a built-in DVD drive. Please make sure to order at least one USB External DVD Drive for each location for use in upgrades and replacing hard drives	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00

Network Management

Description	Full Description	Nomenclature	APC	Price
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license	UA00150AA	877	\$15,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00

ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00

UEM

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View license Order one per zone	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00

ATIA

Description	Full Description	Nomenclature	APC	Price
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00
	This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance			

<p>ENH: TECHNICAL ASSISTANCE, TEN HOURS</p>	<p>for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance.</p> <p>Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	<p>ZA00103AA</p>	<p>285</p>	<p>\$3,000.00</p>
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CADI

Description	Full Description	Nomenclature	APC	Price
<p>ADD: CADI SOFTWARE OPTION</p>	<p>Order one per system.</p>	<p>UA00142AA</p>	<p>877</p>	<p>\$45,000.00</p>
<p>ENH: TECHNICAL ASSISTANCE, FORTY HRS</p>	<p>This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a</p>	<p>ZA00104AA</p>	<p>285</p>	<p>\$12,000.00</p>

	<p>detailed description of the terms and conditions associated with this support.</p> <p>This option is NON-DISCOUNTABLE.</p>			
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Email Alarm Notifications & Northbound Interface

Description	Full Description	Nomenclature	APC	Price
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	Encryption	CA01750AA	425	\$6,500.00

Encryption

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00

SMART-X Licenses

Description	Full Description	Nomenclature	APC	Price
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as	CA01403AA	877	\$10,000.00

	ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE			
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00

Anti-Virus

Anti-Virus

Step 10: Anti Malware

Order 1 for each Windows based client in the system that will be managed by the AntiMalware server. Note that the Anti-Malware client is a license and software is included. The T model listed below is another copy of the software for products that do not embed Anti Malware in their server. It does not need to also be ordered if you are ordering a Master Site system.

The CSMS is the server on which the anti malware server application resides but it can also host the RSA management application as well as the IDS management application if a customer purchases this option. The CSMS can also host the front end for the Firewall management application. NOTE this is the front end client to access the Firewall Management Server and NOT the actual FMS.

Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do no embed the client license.	T7885	708	\$165.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
1.2 TB HARD DRIVE	Replaced DLN6970A	DLN6942	454	\$1,750.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00

FRE: DL380 G9 900GB DISK WD2	-	DLN7009	877	\$26,166.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11

CNTLPATH	SCB	CLN1866	FRU: 1M DAC CABLE	147	23
CNTLPATH	SCB	CLN1868	2930F 24-PORT SWITCH	147	18
CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
FIXEDSTN	SCB	DLN6942	1.2 TB HARD DRIVE	454	8
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
CNTLPATH	SCB	DLN7009	FRE: DL380 G9 900GB DISK WD2	877	15
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
CNTLPATH	SCB	DVN4359	SOFTWARE,VMWARE VSPHERE 6.X FDN 2 CPU SW	877	45
FIXEDSTN	CDP	HKVN4797	LICENSE,SMARTCONNECT ENABLEMENT	877	28
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20

CNTLPATH	SCB	SQM01SUM0274	SINGLE ZONE TRUNKED L CORE	425	13
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
CNTRLR	SCB	T7885	MCAFFEE WINDOWS AV CLIENT	708	21
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20
CNTLPATH	SCB	T8363	ASTRO 7.17 CLIENT	877	26
CNTLPATH	SCB	T8399	CEN SERVER	877	12
FIXEDSTN	SCB	T8586	FORTINET FIREWALL APPLIANCE	877	16
QUOTEDS	SYD	TT3028	APAA PC CLIENT LICENSES	708	1
QUOTEDS	SYD	TT3029	APAA SERVER SOFTWARE LICENSE	708	1
QUOTEDS	SYD	TT3030	APAA EASYSTAFF RADIO ACCESS LICENSE	708	1
QUOTEDS	SYD	TT3031	APAA MIXED MODE CONVENTIONAL SYSTEM LICENSE	708	14
QUOTEDS	SYD	TT3108	INFORMATION ASSURANCE LICENSE FOR APAA SERVER	708	1
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[SHIP CARD](#)

Model

ASTRO 25 7.17 Upgrade
L Non-Redundant/L Redundant Core

Ordering Information

General Information

PLEASE NOTE:

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to the policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

To ensure adherence to the Software Support Policy, there is a change to how Upgrades are ordered on the L Core for customers that do not have an SMA or SUA Lifecycle Contract.

It is recommended that all upgrades are to an ASTRO release that is still within the Standard Support Period.

Effective 1/1/17

To get an Upgrade quote, please contact your:

- Lifecycle Management Consultant; to quote an upgrade via a one-time or multiyear SUA
- It is recommended that all upgrades are performed via a certified path

Once you have a quote, then contact:

- Upgrade Operations; to request a system upgrade - [Project Request for Upgrade Operations](#)
- UO will not provide a la carte upgrade quotes

For more information on the Software Support Policy check here: [Software Support Policy](#)
For more information on the orderability changes check here: [SwSP Orderability Changes](#)

For **Pre-Sales purposes only** - an Upgrade Guide can be found here: [Pre-Sales Only Upgrade Ordering Guide](#)

ORDERING GUIDELINES FOR UPDATING TO 7.17.3 FROM 7.17 OR 7.17.1

In order to use any new capabilities introduced in the 7.17.3 release, the new 7.17.3 version of the software for the applicable components must be installed.

The 7.17.3 Update model number below (T8485) will contain CD(s) with the new software version for the 7.17.3 impacted products. Each impacted product has to be updated before new functionality is enabled.

Updating a 7.17 or 7.17.1 system to 7.17.3 is a 2-step process. Before a 7.17 or 7.17.1 system can be updated to 7.17.3, the system must be updated to 7.17.2. Both kits below are required to be ordered to update a 7.17 or 7.17.1 system to 7.17.3. Note: It is possible to remain at 7.17.2 if the capabilities introduced in 7.17.3 are not needed.

To update to 7.17.3 from 7.17.2, see section below.

Upgrades from 7.15 or 7.16 to 7.17.3 are quoted by the Lifecycle Management Consultants.

7.17.3 Update from 7.17 or 7.17.1 (both models are required)

ORDERING GUIDELINES FOR UPDATING to 7.17.3 FROM 7.17.2

In order to use any new capabilities introduced in the 7.17.3 release, the new 7.17.3 version of the software for the applicable components must be installed.

The model number below will contain CD(s) with the new software version for the 7.17.3 impacted products. Each impacted product has to be updated before new functionality is enabled.

Upgrades from 7.15 or 7.16 to 7.17.3 are quoted by the Lifecycle Management Consultants.

7.17.3 Update from 7.17.2

The T8485 contains 7.17.3 Update Software CDs for the following products:

RF SITE KIT

- GTR 8000, Conventional
- GCP 8000 Conventional Site Controller
- GSLC (GPW Link Converter SW)
- GPW 8000, Conventional Receiver app
- GRV & GCM 8000, Conventional Comparator
- ALL SDM CONFIG AND FW TO A7.17.3
- MOSCAD NFM VIRTUAL APP A7.17.3
- MOSCAD NFM GMC/GWS A7.17.3

CONSOLES KIT

- Voice Dispatch API
- MCC7500
- MCC7500E
- PRX 7000
- Voice Dispatch Assistant

CALL PROCESSING KIT

- ISSI/CSSI 8000

NETWORK TRANSPORT KIT

- Motorola Network Router and Gateway EOS
- HP Procurve OS

PLATFORM KIT

- Domain Controller Plugin Media
- CSMS Supplementary CD
- Virtual Appliance - CSMS - Disk 1
- Virtual Appliance - CSMS - Disk 2
- Window Supplemental Full Config
- Window Supplemental Trans Config
- Windows Supplemental Common Config
- McAfee Standalone Media
- McAfee Software Media

PROVISIONING and FAULT MANAGEMENT KIT

- ATR SW w/AES-128
- UEM SW w/AES-128
- ZDS SW w/AES-128
- UCS SW w/AES-128
- PMI API Documentation
- UNC DS Virtual App w/AES-128
- UNC w/AES-128
- Configuration Manager SW
- NM Client w/ AES-128
- Configuration services SW
- MKM 7000 CAM or A7.17

Ship Card

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JUMP TO ...

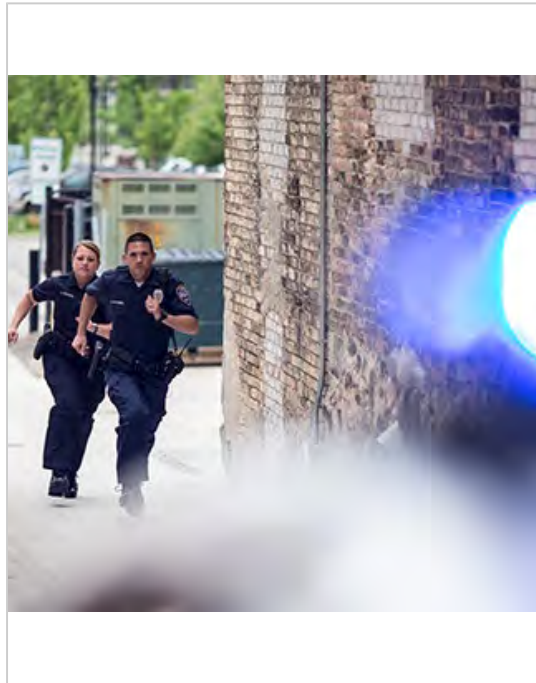
[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**Master Site Network Management / Zone Controller
ASTRO 25 7.11 Add-On**

Ordering Information

General Information

PLEASE NOTE: The Standard Support Period for the 7.11 Release ends on June 30, 2017. Any software and hardware expansions on this release will no longer be supported after this date.

Click [here](#) for additional information.

Looking for Upgrade Information? [Click here](#).

These pages will lead you through the necessary steps to add-on additional licensed options to an existing 7.11 system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

P25 Phase 2 TDMA & Dynamic Options: Phase 2 TDMA licenses enable an ASTRO 25 system to operate with the spectrally-efficient Project 25 Phase 2 TDMA air interface.

Optional Dynamic capabilities can be added to a Phase 2 TDMA system to provide further FDMA/TDMA interoperability and grade-of-service enhancements. The Phase 2 TDMA licenses can be ordered for select stations, sites, and zones that require the 2:1 spectrum-efficient "6.25e" capability. Separately, Dynamic options can be added to the system (and also independently): Dynamic Channel Assignment and Dynamic Talkgroup Assignment.

Dynamic Channel Assignment provides improved station efficiency and grade of service by enabling dynamic switching between Phase 1 FDMA mode and Phase 2 TDMA

mode for a given station based on the needs for the call assigned to the station. Dynamic Channel Assignment can be ordered for select stations as needed, and if ordered, must include the zone-level Dynamic Channel option. Dynamic Talkgroup Assignment improves interoperability by seamlessly switching APX subscribers between Phase 1 FDMA and Phase 2 TDMA modes without user intervention depending on the capabilities of the affiliated subscribers. As Dynamic Talkgroup Assignment is a system-wide feature, if this capability is needed, licenses must be purchased for all sites and zones in the system. The combination of these two options, termed "Dynamic Dual Mode", provides optimal grade-of-service and efficiency for Phase 1 FDMA/Phase 2 TDMA interoperability.

Ordering Requirements

The following information must be included on the order for all SQM model numbers:

- **System ID** - This would have been assigned when the original system was purchased.
- **Zone ID** - This is a three digit number used to identify each zone in a system and is used by the factory to consolidate the equipment for each zone.

Configuration

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Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

ASTRO 25 Outdoor Location Solution

Application Programming Interfaces (APIs) for Unified Network Services (UNS)

Ordering Information

Important Information

Motorola's ASTRO 25 Outdoor Location Solution does not contain a mapping application. The solution contains an Application Programming Interface to connect to mapping applications in the Customer Enterprise Network (CEN). Additionally, when used on the High Performance Data (HPD) network, a Software Development Kit (SDK) is available for third party application developers to interface to applications located on a mobile data terminal (MDT).

Outlined below is important information for ordering and working with APIs and SDKs.

Interfacing with the UNS API

In order to interface with either the API or the SDK, one of the following must occur:

1. The customer must be willing and capable to perform the integration work himself and willing to sign the license agreement as-is, or
2. The customer must be willing to contract the integration work with a third-party integrator who is willing to sign the license agreement as-is, or
3. The field team must be willing to contract the integration work with a third-party integrator who is willing to sign the license agreement as-is, or
4. The field team may contact a mapping application provider who has already done the integration work or is part of the ASTRO 25 Application Partner Program.

NOTE: If a customer wishes to do the integration work themselves (i.e. be the integrator who writes the code to their own mapping application), it is required by the Law Department that the UNS API Licensing Agreement be agreed upon by the customer. **It is highly discouraged that the customer act as the integrator.**

NOTE: *An ASTRO 25 Location Application Programming Interface (API) license agreement with the application developer MUST be fully executed before any request for the API or SDK will be processed.*

The following six pieces of information are needed to draft the UNS API Agreement:

1. Legal Company Name
2. State of Incorporation

3. Principal Business Address (Mailing address, not a PO Box)
4. Address to send legal notices to, to whose attention, with phone and fax numbers
5. Name and title of the person who will be signing the agreement
6. Name and email of person who will be coordinating obtaining the signatures, if different than in #5

Once the license agreement has been signed by both the third party application developer and Motorola, then the API or SDK will be shipped.

Configuration

Ordering Instructions

ASTRO 25 Location HPD Mobile Data Terminal Software Development Kit (SDK):

(This component should be ordered only when In-Vehicle Mapping is desired on the MDT. It is only for the HPD Network.)

The ASTRO 25 Location HPD Mobile Data Terminal SDK contains all the necessary interface software and documentation that a third party application developer needs to receive location data from the HPD1000 Data Modem. The SDK notifies the third party mobile application when new location data messages are available in near real time and allows support for remote commands through a set of function calls that can be sent to the HPD1000.

NOTE: Order one SDK *per each* Location-enabled MDT.

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 LOCATION HPD MDT SDK	-	DVN1422B	222	\$50.00

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



NOTE in June 2019: DISCONTINUED

**ASTRO® Digital XTL 2500 Mobile
764 - 870 MHz Band
Secure and Trunked Radio Systems**

Ordering Information

General Information

NOTE in June 2019: DISCONTINUED

The XTL 2500 Mobile Line offers 1 radio hardware model:

Hardware Mode	Modes	Alphanumeric Display
		Lines/Characters
		per Line
CH	512	4/14

OPERATING MODES

XTL 2500 Radio Models are capable of operating in three different voice communication modes:

- normal analog (clear voice)
- 3.6kb ASTRO Digital (both clear and coded voice)

- 9.6KB ASTRO Digital (both clear and coded voice)

The mode of operation is programmed on a channel-by-channel basis. The XTL 2500 is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. XTL 2500 radio functions include ASTRO Digital signaling and digital coding.

COMMON SOFTWARE FEATURES SUPPORTED BY			
G51 "SmartZone®"			
	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)
		Non-Project 25	Project 25
		(3600 Baud)	(9600 Baud)
RADIO WIDE FEATURES			
Maximum Modes			
XTL 2500 Control Head	512	512	512
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	ADP Only (Conv.)	ADP Only
One Touch Operation	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes

ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified in the APCO Project 25 documents.			
CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Future	Future	Future
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Interoperable Features when used in the ASTRO Digital CAI Mode (G806)			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes

Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited	-	Yes	Yes
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20			
Talkgroup Calls	Yes	Yes	Yes
PTT ID	No	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Dispatcher Interrupt	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes

Radio Trace	Yes	Yes	No
Reprogram Request	Yes	Yes	Yes

Each hardware model must be ordered with 1 of the System Enhancement Software Package options, Conventional or SmartZone.

SOFTWARE FEATURES SUPPORTED BY			
G51 "SmartZone®"			
	"Analog Operation" (G241)	"ASTRO Digital" (G806)	"ASTRO Digital" (G51/G806/G361)
		Non-Project 25	Project 25
		(3600 Baud)	(9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Yes
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Busy Override	No	No	No
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the XTL

2500 Mobile Radio Series. Separation of frequencies can be as wide as the allowable sub-band

per radio model with no degradation of any performance specifications. **If an incorrect antenna is used, degraded performance may be experienced.**

COMMON AIR INTERFACE

Conventional channels are P25 compliant with the ASTRO Digital CAI Operation Software (G806). ASTRO P25 Trunking Software (G361) **must** be added for P25 compliance in trunked systems.

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **MUST** order the Encryption UCM Hardware (G159)
- The DES-OFB and AES-OFB Encryption offered is compliant with Project 25 standards and does not support analog encryption operation.
 - REQUIRES the ASTRO Digital CAI (G806) to operate the DES-OFB or AES-OFB Encryption
- If ordering a non-OFB (XL version) Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog or CAI digital mode but will not be Project 25 compliant.
 - **Requires** the Multikey (W969)
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (G159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES-OFB Encryption offered is compliant with Project 25 standards. Operation of DES-OFB and/or AES-OFB encryption requires the ASTRO Digital CAI (G806). Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in either analog or CAI mode (only XL version can operate in either digital mode.).
 - **Requires** the Multikey (W969).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.

FIPS 140-2 COMPLIANCE

Encryption Modules equipped with DES-OFB and/or AES-OFB are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on

the NIST website at: <http://csrc.nist.gov/cryptval/140-1/1401val2003.htm>.

IMPORTANT UPDATE AES OTAR FIPS APPROVED: On December 16, 2003 NIST and CSE issued a joint statement accepting AES OTAR as a FIPS approved mode of operation. The AES OTAR option (Q14 with Q498 or Q15 with Q498) is now validated to FIPS 140-2 given that the current P25 AES OTAR standard has now been approved by NIST. Any order to Motorola for this option no longer needs a prior determination by the Government that the requirements of FIPS 140-2 are either not applicable or have been properly waived. Further information regarding FIPS 140-2 certification may be found using the following links: [FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Standard Validation Lists](#)

[NIST Guidance on Project 25 AES-OTAR](#)

FCC Information

Band/Model	Power Output	Transmitter Certification (Type Acceptance)	Emissions	Applicable Rules
700 (764 - 806 MHz)* 800 (806 - 869 MHz) 700 (Itinerant channels)**	10 - 35 Watts 10 - 35 Watts 2 Watts	AZ492FT5823	8K10F1D, 8K10F1E, 11K0F3E, 16K0F3E, 20K0F1E, 20K0F1D	22, 74, 90

- Except for Itinerant and low-power incident channels.

** Itinerant & Low-Power Incident Channels	
Channel Number	Frequency Range (MHz)
1 - 12 949 - 960 961 - 972 1909 - 1920	764 - 764.075 775.925 - 776 794 - 794.075 805.925 - 806

**All items require an export license to be exported from the united states/canada
Ç Canada personnel refer to Section A under CANADA ONLY information.**

Guideline

**All items require an export license to be exported from the united states/canada
Ç Canada personnel refer to Section A under CANADA ONLY information.**

This price page consists of the following sections:

1. Required Main Models and Options for standard operation (Steps 1-9)
2. Control Station
3. Optional Features

4. Aftermarket Accessories

Configuration

Section A: Required Main Model and Options

For standard Radio Operation **Steps 1 - 9** must be selected.

PLEASE READ ALL OPTION DESCRIPTIONS BEFORE MAKING YOUR SELECTION

1: Main Model (Must Select)

2: Operation Mode (Must Select One)

3: System Enhancement Software (Must Select One)

4: Control Head Hardware (Must Select One)

5: Control Head Software (Must Always Select G444)

6: Mounting (Must Select One)

******If a remote mount cable other than 5 meters (17ft) is desired for the G67, please reference the "Remote Mount Cables" section below in Section C: Optional Features******

7: Antenna (Must Select One)

8: Microphones (Must Select One)

9: Speakers (Must Select One)

******G142 NO SPEAKER Required for Control Station******

Section B: Control Station

CONTROL STATION OPERATION

I. First, you must review your selection of the following options from "Section 1: Required Options".

Step 1 (Note: Main Model)

Step 2 (Note: All listed options are compliant)

Step 3 (Note: All listed options are compliant)

Step 4 (Note: XTL 2500 Control Head **OR** "No Control Head Needed" are compatible with Control Station Application- Must only select one).

Step 5 (Note: Must Select G444. The XTL 2500 Control Head Software is compatible with Control Station Application).

Step 6 (Note: Must Select G66. Control Station operation is only offered in Dash mount configuration)

Step 7 (Note: All listed options are compliant)

Step 8 (Note: Select desired microphone option and if no microphone is needed, G90 must be selected).

Step 9 (Note: Must Select G142 - No Speaker Needed)

II. You Must Select ONE of the Following "Specific Control Station Options":

SPECIFIC CONTROL STATION OPTIONS

Control Station Operation and Power Supply (*Must Select BOTH*)

III. Features listed in "Section C: Optional Features" are optional, if applicable. Please read the option's description to determine compatibility.

Section C: Optional Features

The following features are **optional** and will provide additional capabilities, if required.

System Enhancement Options

Algorithm Options

Software Encryption

Remote Mount Cables

(The 5 meter (17 FT) Cable Ships Standard)

DEK

Direct Mode Entry

Siren

Auxiliary Switches

Alarm

Emergency

Frequency and Squelch Codes

Packet Data Interface / Data Cables

RF Modem

(Supported for 9600 Trunking only)

Service Options

Test Results

Miscellaneous

Section D: Aftermarket Accessories

Algorithm Kits

Antenna

Cable (s)

Control Stations

Customer Programming Software

Emergency

Microphones

Speakers

Miscellaneous

Data Not Available

Ship Card

Data Not Available

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

ASTRO®
Digital Interface Unit (DIU) 3000 Refurbished

Ordering Information

V.24/hybrid Link Interface	ACIM Link Interface for ASTRO® Signaling to/from CCII_ or Gold Series Console
RNC Link Interface for Conventional Integrated Voice and Data	RS232 Interface capable of Accommodating either an External Printer, Computer or Radio Service Software Terminal
16 Button Keypad and 8 Character LCD Display for Service Functionality	5 LED Indicators (Transmit, Receive, Link Busy, Battery, Key Erase)
Power Supply for 110/120 V 50/60 Hz. Operation	

General Information

The Digital Interface Unit (DIU) 3000 unit is used equipment that has been fully refurbished and has a one year Motorola warranty.

The refurbished Digital Interface Unit (DIU) 3000 will only be shipped with Conventional Software. If Trunking software is required model F2047 - ASTRO DIU trunk software upgrade - will need to be ordered for an additional cost. This upgrade will require the use of the Configuration Service Software (CSS) or Radio Service Software (RSS) to reconfigure the DIU3000 refurbished unit. For more information please refer to the ASTRO® Digital Unit (DIU) FLASHport® Aftermarket Upgrades price page.

The ASTRO® DIU3000 refurbished unit is an infrastructure device that provides the interface between Motorola conventional and trunked ASTRO® digital radio infrastructure and the following analog devices: 1) Radio Network Controllers (RNC) for conventional ASTRO® data, 2) telephone interconnect units, and 3) consoles.

The DIU3000 refurbished unit is a full duplex unit that performs analog to digital conversions in an ASTRO® system. It can operate in the clear analog mode, the clear digital mode, and is capable of providing secure ASTRO® communications when an appropriate encryption cartridge is ordered. The DIU3000 refurbished unit does **NOT** support 12 Kb SECURENET® encryption.

The DIU3000 refurbished unit allows analog tone remote control (TRC) console products that use standard Motorola function tones to support inbound and outbound ASTRO® voice operation as well as basic console control operations. It allows CENTRACOM Series II Plus (CCII+) and Gold Series consoles to operate trunking and advanced conventional signaling features. Digital keying is also supported between the DIU3000 and Gold Series console via the ACIM link.

The DIU3000 refurbished unit is designed to be inserted in a card cage (model CHN1009) and mounted in a rack or cabinet that will need to be ordered (not included). Each card cage accommodates up to four DIU3000 units. A Desktop Mounting Kit (model CLN1336) is also available for smaller systems where racks or cabinets will not be used.

NOTE: Effective 1/1/00 ASTRO® OTAR features are available for ASTRO® Conventional 3.1 Systems. ASTRO® CAI is required for ASTRO® OTAR.

Ordering Requirements

1.
 1. The DIU3000 refurbished unit will not ship with an instruction manual.
 2. One Card cage (model CHN1009) can be ordered for every one to four DIU3000 units for rack or cabinet mounting; or one Desktop Mounting Kit can be ordered for each DIU3000, if a rack or cabinet will not be used. The card cage or desktop mounting kit is not included and must be ordered separately (see below under Accessories).
 3. Programming software is not included and must be ordered separately. Please refer to the software section below.
 4. If an ASTRO modem is required part number TLN3265, will need to be ordered. The ASTRO modem will need to be installed into the DIU in the Field. Part number FKN4028A will also need to be ordered.
 5. The DIU Refurbished unit, HKUN4101A, does ship standard with an adapter box, part number FLN5462A. It does **not** ship with a battery revert cable, part number FKN4095A. If this is needed, it will need to be ordered separately.
 6. The DIU ships standard with a power supply, part number FPN5580A. This power supply is adjustable (auto-senses), 110/220, 15 volt 3.5 amp. It ships standard with a US AC line cord with a US plug.
 7. All DIUs are shipped with IMBE vocoders after June 30, 2003 . Therefore, the X806 (ASTRO CAI OPERATION) is included when the DIU 3000 hardware is ordered.
 8. Any DIU operating with Host Software Release 6.25 or later (4Q02 or later) will require the use of (Radio Service Software (RVN4053) Release 7.01.20 or later (4Q02 or later) or the latest version of DIU 3000 Configuration Service Software (CSS).
 9. For Conventional Telephone Interconnect, the ZETRON Model 30 and the ASTRO DIU 3000 Interface Cable are required. Please refer to the ZETRON Price page for ordering information.
 10. Remote DIU Link to the RNC 3000 in ASTRO Systems.
 - Order a pair (quantity 2) of Standalone Modems (L3170)

Order a quantity of one (1) RNC-DIU Modem Link Cable (DDN7107 or DDN7108) for DIU to Modem link.

- If the DIU 3000 uses the adapter "W" Cable, this must be replaced with the Adapter Box (FLN5462A).

NOTES:

1.

- All refurbished DIU 3000 orders will no longer ship with the adapter "W" cable. Every refurbished DIU 3000 will automatically receive the new 4 port adapter with Comm. Boards. If the "W" cable is desired in the place of the new adapter, order option U446.
- The 9.6 Kbps ASTRO modem is NOT part of the HKUN4101 refurbished DIU 3000 basic model. The modem is a model that must be ordered separately (see below under Modem).

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DIU3000 REFURBISHED	-	HKUN4101	643	\$5,000.00

Accessories

Cables

Description	Full Description	Nomenclature	APC	Price
ASTRO BATTERY REVERT CABLE	-	FKN4095A	454	\$68.50
ADAPTOR BOX	For remote DIU link to the RNC3000 for ASTRO Systems. If the DIU3000 uses the 'W' cable, this MUST be replaced with this kit.	FLN5462	454	\$115.00

Power Supply

Rack Mounting

Description	Full Description	Nomenclature	APC	Price

RACK 7.5' OPEN	-	THN1013	454	\$495.00
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Software

Description	Full Description	Nomenclature	APC	Price
DIU Configuration Service Software	DIU 3000 CSS is certified to operate only on Windows 2000 OS and Windows XP OS. It is compatible with DIU 3000 host version DIUSR 5.24 or higher.	DLN6570	371	\$25.00

Handset

Manual(s)

Modem (Wireline Options)

Description	Full Description	Nomenclature	APC	Price
FRU ASTRO MODEM	When ordered with T5365, T5589, T5367, and T5770	TLN3265	454	\$2,500.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
CONSOLE WIRELINE BOARD	-	FLN6518	454	\$413.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SOFTWARE	SCB	DLN6570	DIU Configuration Service Software	371	3
			ASTRO BATTERY REVERT		

PARTS	ISR	FKN4095A	CABLE	454	28
CNTLPATH	CDP	FLN5462	ADAPTOR BOX	454	5
CNTLPATH	ISR	FLN5462	ADAPTOR BOX	454	28
PARTS	CDP	FLN6518	CONSOLE WIRELINE BOARD	454	5
PARTS	ISR	FLN6518	CONSOLE WIRELINE BOARD	454	28
CNTLPATH	CDP	HKUN4101	DIU3000 REFURBISHED	643	5
SYSPERIPH	SCB	THN1013	RACK 7.5' OPEN	454	11
PARTS	CDP	TLN3265	FRU ASTRO MODEM	454	5

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**ASTRO® Digital Interface Unit (DIU)
Crypto Module (CM)
DIU CM FLASHport®
Universal Crypto Module (UCM) Upgrades**

Ordering Information

General Information

The DIU Crypto Module (DIU CM) FLASHport Universal Crypto Module (UCM) Upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded DIU CM without having to replace the Crypto Module. The DIU CM upgrade kit (T6774A) includes one PCMCIA card and one DIU CM upgrade manual. The DIU CM does NOT support VSELP operation.

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
c/o: David Horn
1301 E. Algonquin Rd.
Schaumburg, IL
60196

Ordering Requirements

1. Order DIU Crypto Module Software Upgrade kit (T6774A). Each upgrade kit consists of a single PCMCIA card that can upgrade up to 100 individual DIU Crypto Module (DIU CM).
2. Select the *desired* software upgrade option, basic software refresh or algorithm upgrade.
 - Only one upgrade type (basic software or encryption kit) can be ordered per upgrade kit (T6774A). As the encryption kits include the basic software refresh, the basic software option, CA00147AA, should not be ordered on the same upgrade kit as any encryption algorithm.
 - Only one (1) encryption algorithm type can be ordered per upgrade kit, T6774A.

NOTE: Encryption Algorithms have been certified and can co-exist on the DIU Crypto Module in the following combinations only: DES OFB and DVP XL; DES XL and DVP XL; DVI XL and DVP XL; AES and any existing encryption algorithm supported by DIU CM. It is the field team's responsibility to know which encryption algorithm their customer currently has when ordering an algorithm upgrade.

- Specify the number of software upgrades required.
- Each individual DIU Crypto Module requires a single upgrade; therefore, the quantity of

- each option should equal the number of upgrades to be performed.
- The software and algorithm options can not exceed 100 per upgrade kit (T6774A).

3. The DIU Crypto Module FLASHport UCM upgrade requires the use of a key loading device (a KVL 3000 Plus-and only this model key loader), and a PCMCIA card to deliver the new software to the UCM. When upgrading the UCM module with AES Encryption, a KVL 3000 Plus is required to FLASH upgrade the module (KVL 3000 Plus does not support AES).

4. AES was certified for voice only operation on Conventional 3.1 and ASTRO SmartZone Release 4.1 in 2Q02 SER and was certified on SMARTNET 3.0 and SMARTNET 3.2 in the 3Q02 SER. Adding the AES Encryption algorithm to one of these system configurations will require an upgrade to the DIU Host to software Release 6.15 or later (2Q02 or later). See the [ASTRO® DIU FLASHport Upgrades](#) page for specific DIU Host upgrade ordering requirements.

The following example will provide an upgrade card to upgrade twenty (20) fielded DIU Crypto Modules with the AES algorithm.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T6774A	DIU CRYPTO MODULE SOFTWARE UPGRADE
1a	20	CA00182AD	ADD: AES Encryption Software

Products, kits, components and software that contain encryption functions or features, and technology related to the development or implementation of encryption functions or features, will generally require an approved export license prior to export. If required, export license approvals will be based on the algorithms involved, the country of final destination and the specific end user. Depending on the location of the entity making the sale and the source location of the encryption items it may be necessary to obtain licensing from more than one country for the same sale. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
 c/o: David Horn
 1301 E. Algonquin Rd.
 Schaumburg, IL
 60196

Configuration

Models

Options

Software

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	-	CA00147AA	443	\$50.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP XL ENCRYPTION KIT	-	CA00146AB	509	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AB	509	\$750.00
ADD: ADP ENCRYPTION SOFTWARE	-	CA00274AA	595	\$300.00
ADD: AES ENCRYPTION KIT	Requires DIU Host Software Release 6.15 or later (2Q02 or later).	CA00182AD	547	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AB	509	\$750.00
ADD: DVI XL ENCRYPTION KIT	-	CA00145AB	509	\$750.00

Accessories

Ship Card

Data Not Available

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JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

ASTRO® DIU ENCRYPTION Refurbished

Ordering Information

General Information

The Digital Interface Unit Crypto Module (DIU CM) is used equipment that has been fully refurbished and has a one year Motorola warranty.

The refurbished Digital Interface Unit Crypto Module (DIU CM) is utilized by customers who purchase the DIU 3000 and requires secure data and voice communications. The DIU CM is responsible for message formatting from the DIU 3000 and for performing encryption and decryption necessary to transmitting and receiving those messages. The DIU CM is equipped with Universal Crypto Module (UCM) technology. The UCM technology provides great flexibility in regards to easily accommodating new algorithms and security features. The DIU CM does NOT support VSELP operation.

Ordering Requirements

1. When ordering the refurbished DIU Crypto Module, you must order the Crypto Module refurbish part number, HKUN4102. The refurbished crypto module will ship with the most current software, but without any algorithms. The algorithms will need to be ordered for an additional cost, and upgraded in the Field. For further information please refer to the ASTRO Digital Interface Unit (DIU) Crypto Module (CM) DIU CM FLASHport Universal Crypto Module (UCM) Upgrades price page at: [Digital Interface Unit \(DIU\)](#)

Note: The CA00147AA, basic software option will not need to be ordered, as the refurbished DIU Crypto module will ship with the most recent software version.

Note: A KVL3000 Plus (and only this model key loader) will need to be used to upgrade the algorithms in the Field.

1. Encryption Algorithms can co-exist on the DIU Crypto Module in the following combinations only: DES OFB and DVP XL; DES XL and DVP XL; DVI XL and DVP XL; AES and any existing algorithm supported by DIU CM.
2. All ASTRO® DIU Crypto Modules are full duplex.
3. Operation of the DIU Crypto Module requires an upgrade to the DIU Host to software Release 6.09 or later (1Q02 or later) NOTE: See the ASTRO DIU FLASHport Upgrades page for specific DIU Host upgrade ordering requirements.
4. It is recommended to upgrade the DIU Radio Service Software (RSS) to

the most current shipping version when ordering the DIU CM for the first time.

5. Any non-VSELP system currently operating with DIU EMCs may add DIU Crypto Modules to their system to allow for secure channel add-ons per each system's life cycle plan. These configurations will require an upgrade to the existing DIU EMCs to software Release 7.3 or later (1Q02 or later) and upgrade to the DIU Host to software Release 6.09 or later (1Q02 or later). See the ASTRO DIU FLASHport Upgrades page for specific DIU Host upgrade ordering requirements. See below for DIU EMC upgrade ordering kits.
6. AES was certified for voice only operation on Conventional 3.1 and ASTRO SmartZone Release 4.1 in 2Q02 SER and was certified on SMARTNET® 3.0 and SMARTNET 3.2 in the 3Q02 SER. Adding the AES Encryption algorithm to one of these system configurations will require upgrades to the following:
 - DIU Host to software Release 6.15 or later (2Q02 or later). See the ASTRO DIU Upgrades Page for specific DIU Host upgrade ordering requirements.
 - Existing DIU CM will require an upgrade to software Release 8.1 (RSS will display 81) or later (2Q02 or later). See the ASTRO DIU CM FLASHport UCM Upgrades Page for specific DIU CM upgrade ordering requirements.

NOTE: The DIU EMC does not support AES Encryption. Secure systems operating with both DIU EMCs and DIU CMs will require replacement of the DIU EMCs with DIU CMs prior to upgrading to AES Encryption.

Products, kits, components and software that contain encryption functions or features, and technology related to the development or implementation of encryption functions or features, will generally require an approved export license prior to export. If required, export license approvals will be based on the algorithms involved, the country of final destination and the specific end user. Depending on the location of the entity making the sale and the source location of the encryption items it may be necessary to obtain licensing from more than one country for the same sale. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Configuration

Models

Options

Accessories

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
DIU3000 Encryption	-	HKUN4102	643	\$2,000.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	CDP	HKUN4102	DIU3000 Encryption	643	5

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO®
Digital Interface Unit (DIU)
FLASHport® Aftermarket Upgrades

Ordering Information

General Information

FLASHport Aftermarket Upgrades are used to upgrade a Digital Interface Unit to the latest version of System Software, or to add features to an existing unit in the field.

Ordering Requirements

1. As the main line item, specify the model number of the upgrade kit that represents the software version currently in the DIU. F2046 will represent Conventional software versions, and F2047 will represent Trunked software versions. For customers upgrading from conventional to trunked software, please order model F2047.
2. All of the upgrades shown below will require the use of the Configuration Service Software (CSS) and/or Radio Service Software (RSS) to reconfigure the DIU after installation.
3. Refer to DIU upgrade manual (6802947C24A or 6802949C95A) for installing all software upgrades.
4. All DIU Encryption Module versions purchased before 4Q99 are not compatible with DIU3000 host version 5.16 or higher and MUST receive the latest FLASHport Upgrade (F2046 or F2047).
5. Operation of the DIU Crypto Module requires an upgrade to the DIU Host to Software Release 6.09 or later (1Q02 or later). Any non-VSELP system currently operating with DIU EMCs may add DIU Crypto Modules to their system to allow for secure channel add-ons per each system's life cycle plan. These configurations require DIU EMCs to have Software Release 7.3 or later (1Q02 or later).
6. Aftermarket software is not DISCOUNTABLE.
7. Any DIU operating with Host Software Release 6.25 or later (4Q02 or later) will require the use of Radio Service Software (RSS) Release 7.01.20 or later (4Q02 or later) or the latest version of DIU 3000 Configuration Service Software (CSS).

***ENCRYPTION--**All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption

algorithms (except for DES, DES-XL, & DES-OFB) are highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

[ASTRO® DIU Encryption](#)

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ASTRO DIU TRUNK SOFTWARE UPGRADE	For conventional customers wanting to upgrade to trunked software, this model is required.	F2047	524	\$700.00
ASTRO DIU CONVENTIONAL S W UPGRADE	-	F2046	509	\$700.00

Options

Accessories

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	ISR	F2046	ASTRO DIU CONVENTIONAL S W UPGRADE	509	16
CNTLPATH	ISR	F2047	ASTRO DIU TRUNK SOFTWARE UPGRADE	524	21

CNTLPATH	MGK	F2047	ASTRO DIU TRUNK SOFTWARE UPGRADE	524	24
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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

Model

ASTRO® 25 SOFTWARE SOLUTIONS INFRASTRUCTURE SOFTWARE ADD-ON BUNDLES

Ordering Information

General Information

ASTRO 25 Software Solutions Feature Bundles :

The ASTRO 25 Software Solutions program was created to help create more focus on adding features to the existing systems. Since there are many optional features available that may not have been purchased with the initial system purchase, feature bundles were created to make it easier to discuss the benefits, as well as provide an incentive to purchase more features.

Available add-on features are bundled into six different Software Sleeves. The Feature Bundles are offered in Gold, Silver, and Bronze level tiers for both APX Radios and the ASTRO 25 Infrastructure. Silver tiers include the Bronze features and Gold tiers include both the Silver and Bronze features.

OVERVIEW

ENHANCE YOUR EXISTING ASTRO 25 NETWORK TO MEET NEW CHALLENGES OR SIMPLY OPERATIONS

AVAILABLE ADD-ON FEATURES ARE BUNDLED INTO **SIX** DIFFERENT SOFTWARE SLEEVES

FEATURE BUNDLES OFFERED AT **GOLD, SILVER AND BRONZE** LEVEL TIERS FOR BOTH RADIO AND INFRASTRUCTURE

➔

ENABLES BETTER FOCUS ON FEATURES THAT **ENHANCE YOUR UNIQUE OPERATION**

PROVIDES THE **BEST VALUE** BASED ON YOUR AGENCY NEEDS

- RESILIENCY** MAXIMIZE UPTIME AND ENSURE CONTINUITY OF OPERATIONS, EVEN IN THE EVENT OF SYSTEM FAILURE
- DATA** EASILY AUGMENT YOUR MISSION CRITICAL VOICE COMMUNICATIONS TO ENABLE DATA FOR A SAFER, QUICKER AND MORE EFFECTIVE RESPONSE
- SECURITY** PROTECT YOUR MISSION CRITICAL RADIO SYSTEMS WITH PROACTIVE THREAT DETECTION, REALTIME RESPONSE AND CORRECTION
- OPERATIONAL ASSURANCE** MAXIMIZE YOUR OPERATIONAL READINESS AND SAFETY WITH BETTER SYSTEM VISIBILITY AND CONTROL OF CRITICAL ASSETS
- TDMA** DOUBLE YOUR CAPACITY WITHOUT ADDING NEW EQUIPMENT OR FREQUENCIES
- ISSI** EXTEND COMMUNICATION AND COLLABORATION ACROSS INTEROPERABLE PROJECTS NETWORKS

To learn more about ASTRO 25 Software Solutions, check out the Sales Enablement materials on InSite:

ASTRO 25 Software Selling InSite Binder https://insite.motorolasolutions.com/myre_viewbinder.asp?id=565

Or click on the links in the table below:

ASTRO 25 SOFTWARE SOLUTIONS						
RESILIENCY	DATA	SECURITY	OPERATIONAL ASSURANCE	TDMA	ISSI	
	ASTRO 25	ASTRO 25	ASTRO 25		ASTRO 25	

CUSTOMER PRESENTATION	Resiliency Customer Presentation	Data Customer Presentation	Security Customer Presentation	ASTRO 25 Operational Assurance Customer Presentation	TDMA Customer Presentation	ASTRO 25 ISSI Customer Presentation
CUSTOMER PRESENTATION - VOICE OVER VIDEO	ASTRO 25 Resiliency Customer Presentation Video Tutorial	ASTRO 25 Data Customer Presentation Video Tutorial	ASTRO 25 Security Customer Presentation Video Tutorial	ASTRO 25 Operational Assurance Customer Presentation Video Tutorial	ASTRO 25 TDMA Customer Presentation Video Tutorial	ASTRO 25 ISSI Customer Presentation Video Tutorial
CUSTOMER PRESENTATION - PODCAST	ASTRO 25 Resiliency Podcast	ASTRO 25 Data Podcast	ASTRO 25 Security Podcast	ASTRO 25 Operational Assurance Podcast	ASTRO 25 TDMA Podcast	ASTRO 25 ISSI Podcast
INFOGRAPHIC	ASTRO 25 Resiliency Infographic	ASTRO 25 Data Infographic	ASTRO 25 Security Infographic	ASTRO 25 Operational Assurance Infographic	ASTRO 25 TDMA Infographic	ASTRO 25 ISSI Infographic
EXPERIENCE VIDEO	ASTRO 25 Resiliency	ASTRO 25 Data	ASTRO 25 Security	ASTRO 25 Operational Assurance	ASTRO 25 TDMA	ASTRO 25 ISSI
APPLICATION UI VIDEO				ASTRO 25 Geo Select UI Video		
SALES FEATURE GUIDE	ASTRO 25 Software Solution Sales Feature Guide					
SOFTWARE QUOTING TOOL	Radio Online Web Edition					

Order Requirements

All of the optional add-on features can still be ordered in the usual a-la-carte fashion when not being sold as part of a Feature Bundle. The ordering details and requirements can be found on each of the respective features' ECAT pages, ordering guides, and System Planners.

The best way to quote a Feature Bundle is to use the **Radio Online Web Edition** tool <https://rol.mot.com/ROLWeb>. This will create equipment lists for each feature bundle based on the specific parameters of your customer's existing system. The model number structure for the features hasn't changed; a Feature Bundle simply groups them together on the equipment list. System Integration services can also be quoted using this tool. The next step is to work with the Pricing and Profitability team to apply the appropriate bundle discount level as well as the specific customer discounts.

When entering an order for a Feature Bundle, a few simple rules must be followed. A separate model number called a "T-Model" has been set up for each Bundle Tier. These model numbers are listed below and will appear on the equipment list generated from the ROLWeb tool. If you are ordering multiple bundles, each bundle must be ordered on a **separate Factory Order (F.O.)**. The T-Model for the bundle must remain on the equipment list with the feature model numbers. This is used for order identifying/tracking purposes.

Software Bundle T-Models Based on Package Level:

RESILIENCE

T8219A RESILIENCE INFRASTRUCTURE GOLD ADD-ON

T8220A RESILIENCE INFRASTRUCTURE SILVER ADD-ON

T8221A RESILIENCE INFRASTRUCTURE BRONZE ADD-ON

SECURITY

T8222A SECURITY INFRASTRUCTURE GOLD ADD-ON
T8223A SECURITY INFRASTRUCTURE SILVER ADD-ON
T8224A SECURITY INFRASTRUCTURE BRONZE ADD-ON

DATA

T8229A DATA INFRASTRUCTURE SILVER ADD-ON
T8230A DATA INFRASTRUCTURE BRONZE ADD-ON

OPERATIONAL ASSURANCE

T8234A OPERATIONAL ASSURANCE INFRASTRUCTURE GOLD ADD-ON
T8235A OPERATIONAL ASSURANCE INFRASTRUCTURE SILVER ADD-ON
T8236A OPERATIONAL ASSURANCE INFRASTRUCTURE BRONZE ADD-ON

TDMA

T8240A TDMA INFRASTRUCTURE GOLD ADD-ON
T8241A TDMA INFRASTRUCTURE SILVER ADD-ON
T8242A TDMA INFRASTRUCTURE BRONZE ADD-ON

ISSI

T8246A ISSI INFRASTRUCTURE GOLD ADD-ON
T8247A ISSI INFRASTRUCTURE SILVER ADD-ON
T8248A ISSI INFRASTRUCTURE BRONZE ADD-ON

** Additional discounts will be approved for customers buying multiple packages*

Important Links

[Internal Sales Features Guide](#)

[ROL Web Quotation Tool](#)

[ASTRO 25 Software Selling InSite Binder](#)

JUMP TO ...

MODEL

GENERAL INFORMATION

ORDER REQUIREMENTS

IMPORTANT LINKS

Model

General Information

Astro® 25 Software Solutions - Apx Software Bundles

ASTRO 25 Software Solutions Feature Bundles :


The ASTRO 25 Software Solutions program was created to help create more focus on adding features to the existing systems. Since there are many optional features available that may not have been purchased with the initial system purchase, feature bundles were created to make it easier to discuss the benefits, as well as provide an incentive to purchase more features. Available add-on features are bundled into six different Software Sleeves. The Feature Bundles are offered in Gold, Silver, and Bronze level tiers for both APX Radios and the ASTRO25 Infrastructure. Silver tiers include the Bronze features and Gold tiers include both the Silver and Bronze features.


OVERVIEW

ENHANCE YOUR EXISTING ASTRO 25 NETWORK TO MEET NEW CHALLENGES OR SIMPLY OPERATIONS

AVAILABLE ADD-ON FEATURES ARE BUNDLED INTO **SIX** DIFFERENT SOFTWARE SLEEVES


FEATURE BUNDLES OFFERED AT **GOLD, SILVER, AND BRONZE** LEVEL TIERS FOR BOTH RADIO AND INFRASTRUCTURE






ENABLES BETTER FOCUS ON FEATURES THAT **ENHANCE YOUR UNIQUE OPERATION**


PROVIDES THE **BEST VALUE BASED ON YOUR AGENCY NEEDS**


RESILIENCY


MAXIMIZE UPTIME AND ENSURE CONTINUITY OF OPERATIONS, EVEN IN THE EVENT OF SYSTEM FAILURE


DATA


EASILY AUGMENT YOUR MISSION CRITICAL VOICE COMMUNICATIONS TO ENABLE DATA FOR A SAFER, QUICKER AND MORE EFFECTIVE RESPONSE


SECURITY


PROTECT YOUR MISSION CRITICAL RADIO SYSTEMS WITH PROACTIVE THREAT DETECTION, REAL-TIME RESPONSE AND CORRECTION


OPERATIONAL ASSURANCE

MAXIMIZE YOUR OPERATIONAL READINESS AND SAFETY WITH BETTER SYSTEM VISIBILITY AND CONTROL OF CRITICAL ASSETS


TOMA

DOUBLE YOUR CAPACITY WITHOUT ADDING NEW EQUIPMENT OR FREQUENCIES


ISSI


EXTEND COMMUNICATION AND COLLABORATION ACROSS INTEROPERABLE PROJECT 25 NETWORKS


OVERVIEW

ENHANCE YOUR EXISTING ASTRO 25 NETWORK TO MEET NEW CHALLENGES OR SIMPLY OPERATIONS

AVAILABLE ADD-ON FEATURES ARE BUNDLED INTO **SIX** DIFFERENT SOFTWARE SLEEVES


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ENABLES BETTER FOCUS ON FEATURES THAT **ENHANCE YOUR UNIQUE OPERATION**

PROVIDES THE **BEST VALUE BASED ON YOUR AGENCY NEEDS**


RESILIENCY

MAXIMIZE UPTIME AND ENSURE CONTINUITY OF OPERATIONS, EVEN IN THE EVENT OF SYSTEM FAILURE


DATA

EASILY AUGMENT YOUR MISSION CRITICAL VOICE COMMUNICATIONS TO ENABLE DATA FOR A SAFER, QUICKER AND MORE EFFECTIVE RESPONSE

Order Requirements

Requirements to utilize APX Software Bundles

1. APX Subscriber Radio
2. Project 25 Phase 1 Trunking (Q361/G361)

Ordering Guide:

All of the optional add-on features can still be ordered in the usual a-la-carte fashion when not being sold as part of a Feature Bundle. The ordering details and requirements can be found on each of the respective features' ECAT pages, ordering guides, and System Planners.

The best way to quote a Feature Bundle is to use the Radio Online Web Edition tool <https://rol.mot.com/ROLWeb>. This will create equipment lists for each feature bundle based on the specific parameters of your customer's existing system. The model number structure for the features hasn't changed; a Feature Bundle simply groups them together on the equipment list. System Integration services can also be quoted using this tool. The next step is to work with the Pricing and Profitability team to apply the appropriate bundle discount level as well as the specific customer discounts.

When entering an order for a Feature Bundle, a few simple rules must be followed. A separate model number called a "T-Model" has been set up for each Bundle Tier. These model numbers are listed below and will appear on the equipment list generated from the ROLWeb tool. If you are ordering multiple bundles, each bundle must be ordered on a **separate Factory Order (F.O.)**. The T-Model for the bundle must remain on the equipment list with the feature model numbers. This is used for order identifying/tracking purposes.

Software Bundle T-Models Based on Package Level:

SECURITY

T8225A SECURITY SUBSCRIBERS GOLD ADD-ON

T8226A SECURITY SUBSCRIBERS SILVER ADD-ON

T8227A SECURITY SUBSCRIBERS BRONZE ADD-ON

DATA

T8231A DATA SUBSCRIBERS GOLD ADD-ON

T8232A DATA SUBSCRIBERS SILVER ADD-ON

T8233A DATA SUBSCRIBERS BRONZE ADD-ON

OPERATIONAL ASSURANCE

T8237A OPERATIONAL ASSURANCE SUBSCRIBERS GOLD ADD-ON

T8238A OPERATIONAL ASSURANCE SUBSCRIBERS SILVER ADD-ON

T8239A OPERATIONAL ASSURANCE SUBSCRIBERS BRONZE ADD-ON

TDMA

T8245A TDMA SUBSCRIBERS BRONZE ADD-ON

** Additional discounts will be approved for customers buying packages*

FLASHport AFTERMARKET UPGRADES

The APX Radios are part of the FLASHport Program. This means that hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

Remove any feature already enabled in the existing radios' codeplug to avoid order failure. You cannot order an upgrade for an already enabled feature.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (upgrades can be completed either via a FLASH dongle or through Radio Management.) Radios can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Important Links

[Internal Sales Features Guide](#)

[ROL Web Quotation Tool](#)

[ASTRO 25 Software Selling InSite Binder](#)

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JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model**

ASTRO25 EXPRESS SERVICES**Ordering Information**

Executive Summary

ASTRO 25 Express is a modular approach to Project 25 interoperability, providing right sized solutions for mission critical communications.

A cost-effective, single remote site P25 voice system rapidly delivered and deployed with the capability to grow within the ASTRO 25 portfolio as customer needs change. ASTRO 25 Express System with a GTR 8000 Expandable Site Subsystem is a single-site, standalone FDMA or TDMA trunking system supporting up to 18 channels.

ASTRO Express is designed to optimize channel capacity requirements operating in the following bands:

700 MHz / 800 MHz / 900 MHz / UHF R1 (380-435 MHz) / UHF R2 (435-524 MHz) / VHF (136-174 MHz)

Day to day radio network management is critical to ensure our customers systems are operational at all times. The following support services offer the critical coverage for all ASTRO 25 Express Remote Sites.

Product Description**Overview**

ASTRO 25 Express Services are backed by Motorola's global integrated services and best in class technical support technicians, 900 Motorola Service Providers, and certified repair facilities. Adding Motorola premier services to your ASTRO 25 system provides proactive protection for your system and is available in multi-year agreements.

Technical Support

Technical Support service provides continuous centralized remote telephone support for technical issues that require a high level of ASTRO 25 solutions expertise or troubleshooting on ASTRO 25 Express equipment. Once a trouble call is received from the customer technical resource, Motorola immediately begins diagnosis of the event. This may also include remotely connecting and interrogating the ASTRO 25 Express system, running appropriate diagnostics, characterizing the problem, and remotely restoring the affected device or subsystem. If a remote fix is not possible, if the customer has a current Onsite Infrastructure Response & Dispatch service contract, a field technician will be dispatched to the site. Motorola will engage relevant engineering resources, as required, to resolve the issue.

Infrastructure Repair & Infrastructure Repair with Advance Replacement

Infrastructure Repair service covers all Motorola Solutions, Inc-manufactured equipment, as well as equipment from select third-party infrastructure vendors. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's IDO.

Infrastructure Repair with Advance Replacement will provide a customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s), if stock is available. Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair.

Replacement units and Field Replaceable units will be shipped directly to the Customer. Shipments will be made to customer prior to receiving the Customer's damaged unit in the service center. In NA calls must be received before 7 p.m. (EST) for the Infrastructure to ship the day the call is placed (excludes MSI-observed

holidays).

Onsite Infrastructure Response - Standard, Premier & Limited Options

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Dispatch Service

With Motorola Dispatch Service, all a customer has to do is make one phone call and their system response and restoration process begins immediately. Dispatch ensures that local, trained and qualified technicians will arrive at their location within hours to diagnose and restore their communications network. Following proven response and restoration processes, Motorola Dispatch contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been addressed, the System Support Center verifies resolution and with the customer's approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

Network Preventative Maintenance

Network Preventative Maintenance is a service that will provide an operational test and alignment, as applicable, on the customer's equipment (infrastructure or fixed network equipment only) to ensure the equipment meets original manufacturer's specifications. Motorola's large network of service helps the customer plan and schedule the annually preventative maintenance of their network to meet their operational timelines.

Network Preventative Maintenance assures that the customer's network is up and running in top condition. This service proactively detects those potential issues that may result if the equipment is not meeting original manufacturer's specifications. Customers can help prevent a system malfunction and minimize their costly repairs, thus managing their maintenance budget.

Motorola's technicians have immediate access to engineering design teams and multiple technology experts. The technicians are equipped with detailed checklists describing what and how the pieces of equipment need servicing. The customer can take advantage of the Network Preventative Maintenance service to maximize their network uptime.

Over 600 customers have entrusted their network support to Motorola with the Network Preventative Maintenance service. Many of these customers (Federal, State & Local Government, Police & Fire entities, etc) rely on this service to keep their systems performing consistently. Enhance the value of Motorola's service offerings by offering the customer such complementary services as Technical Support, OnSite Infrastructure Response, Infrastructure Repair, Network Monitoring, or many others.

NOTE: The terms and conditions of all Statement of Works (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

Technical Support	Infrastructure Repair & Infrastructure Repair with Advanced Replacement	Dispatch Service	Onsite Infrastructure Response - Standard, Limited & Premier Options	Network Preventative Maintenance
	Manage Original			

Remote Diagnostic & Troubleshooting	Equipment Manufacturer (OEM) repair process, coordination, and testing	Escalation Management	Motorola Technical Expertise	Trained Technical Expertise on-site
Laboratory Simulation of System Issues	Equipment shipped and replaced before original equipment returned	Computer Aided Dispatch	On-site Motorola Authorized Servicer	Access to local Motorola servicer
Access to Motorola Technical Expertise		Activity Reporting	24 Hour/365 day service availability	Provides interface to Motorola
24 Hour/365 Day Service Availability		24 Hour/365 Day Service Availability		Preventative Maintenance Check
		Single Point of Contact		
		Electronic Case Tracking		
		Toll Free Service Number (800) 221-7144		

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

All SOW's can be found on Insite ([Click here](#)) and will also be loaded and linked to the appropriate models in Services Life Cycle (SLC)

Ordering Requirements

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application (SLC). Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of products. To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amounts reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Site ID & Technology Information

Site ID Prefix:

· AEXXXX – The letter "AE" should be used for all Astro 25 Express customers

Technology: All Sites should use **ASTRO EXPRESS** as the technology in order to build Install Base and price all SLC Contracts correctly.

Configuration

Data Not Available

Ship Card

Data Not Available

[JUMP TO ...](#)
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)

Model

ASTRO 25 Outdoor Location Solution

GPS Hardware

Ordering Information

General Information

Motorola's ASTRO 25 Outdoor Location Solution supports a variety of GPS units, a description of each is provided below. The units that are supported are outlined below:

Components	Integrated GPS	GPS RSM	Cellocator Olympic	Trimble Placer Gold APU	Trimble Placer Gold DRU Plus
Portable Radios					
APX 7000	x	N/A	N/A	N/A	N/A
XTS 5000	N/A	x	N/A	N/A	N/A
XTS 2500	N/A	x	N/A	N/A	N/A
Mobile Radios					
APX 7500	x	N/A	N/A	N/A	N/A
XTL 5000	N/A	N/A	x	x	x
XTL 2500	N/A	N/A	x	x	x
XTL 1500	N/A	N/A	x	x	x
ASTRO Spectra Plus	N/A	N/A	x	x	x
HPD1000 Modem w/	x	N/A	N/A	N/A	N/A

GPS					
-----	--	--	--	--	--

LIMITATIONS OF USE:

GPS works best in an open sky (clear view of the sky with no obstructions) environment. It should be noted that there are certain situations where there is no GPS coverage. This is due to the limitation of the GPS technology itself. Such situations include but are not limited to:

- In underground locations
- Inside of buildings, trains, or other covered vehicles
- Under any other metal or concrete roof or structure
- Between tall buildings or under dense tree-cover

Note: See the respective [APX 7000](#), [APX 7500](#), and [HPD1000](#) Price Pages for complete ordering instructions regarding their integrated GPS units.

Configuration

Ordering Instructions

This section will lead you through the necessary ordering steps required to add the GPS units to ASTRO 25 Outdoor Location Solution. For the APX series and HPD1000 Data Modem that have an integrated GPS, please consult their Price Page for Ordering Instructions.

Click [here](#) for Brochure.

GPS for Portable Radios: GPS Remote Speaker Microphones:

(One Remote Speaker Microphone is required for each XTS 2500 or XTS 5000 Portable Radio needing to be tracked, refer to the table at the bottom of this ECAT page for additional information.)

Description	Full Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL, GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00

Releasing Late Q1 2011: Updated GPS Remote Speaker Microphones:

(The two Motorola Part Numbers below are not yet orderable and will be direct substitutions to the RSM part numbers listed above. There is no change in pricing for this new version and the

items below are direct substitutions. One Remote Speaker Microphone is required for each XTS 2500 or XTS 5000 Portable Radio needing to be tracked, refer to the table at the bottom of this ECAT page for additional information.)

Available Late Q1 2011: HMN4106 (Replacement for HMN4080): GPS Remote Speaker Microphone without audio jack, submersible.

Available Late Q1 2011: HMN4107 (Replacement for HMN4084): GPS Remote Speaker Microphone with audio jack, IP54

GPS for Mobile Radios:

The GPS units for mobile radios listed below are third party hardware devices. They can be considered mix and match – you can mix and match the type of devices on the system, if desired. One GPS unit of any type listed below is required per mobile radio.

The following vehicle location solutions are available on ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software and the W947 Data Option. For further ordering instructions, please refer to the Price Page for the Mobile Radio.

OPTION 1: Cellocator™ Olympic for ASTRO GPS and Telemetry Unit

The Cellocator™ Olympic for ASTRO GPS unit provides both GPS location and telemetry data. With five digital sensor inputs, including ignition on/off plus 4 variable inputs and an analog input to monitor the vehicle battery, the unit provides the ability for event-based reporting in your application. It communicates the location and telemetry information to the radio, which is sent to the dispatch operator. Configurations with a dashmount and roofmount antennas are available for purchase.

Click [HERE](#) for Brochure.

Step 1:

Order a Cellocator Olympic for ASTRO GPS Dashmount Installation Kit (*one kit is required per mobile radio*):

Description	Full Description	Nomenclature	APC	Price
ASTRO CELLOCATOR OLYMPIC DM GPS KIT	-	HKCN4001B	222	\$495.00

OR

Order a Cellocator Olympic for ASTRO GPS Roofmount Installation Kit (*one kit is required per mobile radio*):

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR ASTRO EXT GPS KIT	-	HKLN4474	222	\$575.00

NOTE: The Cellocator Olympic for ASTRO GPS kit contains the GPS unit, vehicle harness, and either a dash or roof mount antenna. A separate RS-232 data cable for the mobile radio is required - please refer to the ECAT Price Page for your mobile radio for ordering instructions.

To add an external roof mount antenna to replace an existing dash mount installation, order part number HKAN4001A.

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR EXTERNAL MOUNT GPS ANT	This item is for the Cellocator External Antenna only and is to be ordered to convert an existing Dashmount installation to a Roofmount installation.	HKAN4001	222	\$150.00

Step 2:

Order a Cellocator Olympic for ASTRO Programming Kit (*a minimum of one kit is required per system, but it is recommended that back-ups are purchased*). General rule of thumb - order 5% of the total number of Cellocator Olympic for ASTRO GPS Kits ordered in Step 1 above. Trimble and Cellocator Programming Parts are not interchangeable.

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR PROGRAMMING KIT	Recommended to order 1 programming kit per 20 Cellocator Hardware models ordered.	HK1613B	222	\$45.00

NOTE: The Programming Kit contains the Cellocator Programming Cross Plug and the Cellocator Documentation / Software CD, which is required for the installation and configuration of the Cellocator GPS units.

A separate data cable for the mobile radio is required - please refer to the ECAT Price Page for your mobile radio for ordering instructions.



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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO 25
7.9 K, L, & M THROUGH 7.16 SUPPORT SERVICES

Ordering Information

Executive Summary

ASTRO 25® - Project 25 voice and data solution. Designed for mission critical users. Day to day radio network management is critical to ensure our customers systems are operational at all times

From single site to country-wide deployments, ASTRO 25 is a flexible, modular network with advanced call processing capabilities that is designed to meet the needs of public safety. ASTRO 25 can adapt and change to accommodate additional users, increased geographic coverage, enhanced data applications, and connectivity to other networks to ensure an efficient and cost effective future-ready solution.

The following support services offer critical coverage for all ASTRO 25 systems..

Service Description

Overview

ASTRO 25 Services are backed by Motorola's global integrated services and best in class technical support technicians, 900 Motorola Service Providers, and certified repair facilities. Adding Motorola premier services to your ASTRO 25 system provides proactive protection for your system and is available in multi-year agreements.

Technical Support

Technical Support service provides continuous centralized remote telephone support for technical issues that require a high level of ASTRO 25 solutions expertise or troubleshooting on ASTRO 25 equipment. Once a trouble call is received from the customer technical resource, Motorola immediately begins diagnosis of the event. This may also include remotely connecting and interrogating the ASTRO 25 system, running appropriate diagnostics, characterizing the problem, and remotely restoring the affected device or subsystem. If a remote fix is not possible, if the customer has a current Onsite Infrastructure Response & Dispatch service contract, a field technician will be dispatched to the site. Motorola will engage relevant engineering resources, as required, to resolve the issue.

Technical Infrastructure Repair & Infrastructure Repair with Advance Replacement

Infrastructure Repair service covers all Motorola Solutions, Inc-manufactured equipment, as well as equipment from select third-party infrastructure vendors. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's IDO.

Infrastructure Repair with Advance Replacement will provide a customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s), if stock is available. Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair.

Motorola service differentiator: For customers that purchase Advanced replacement also receive a "Loaner" option for no service additional* charge. This allows customers to get a temporary FRU while we repair their original. Customers can keep their own components for asset tracking and inventory management.

*one-way shipping charges apply, see shipping charge matrix for more information.

Replacement units and Field Replaceable units will be shipped directly to the Customer. Shipments will be made to customer prior to receiving the Customer's damaged unit in the service center. In NA calls must be received before 7 p.m. (EST) for the Infrastructure to ship the day the call is placed (excludes MSI-observed holidays).

Onsite Infrastructure Response - Standard, Premier & Limited Options

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Onsite Infrastructure Response with Local Dispatch - Standard, Premier & Limited Options

With OnSite Infrastructure Response with Local Dispatch, Limited Option, technicians are dispatched from the MSS/FSO location directly to the customer site to perform diagnostics, remove failed components, and reinstall new or reconditioned components to restore the system.

Dispatch Service

With Motorola Dispatch Service, all a customer has to do is make one phone call and their system response and restoration process begins immediately. Dispatch ensures that local, trained and qualified technicians will arrive at their location within hours to diagnose and restore their communications network. Following proven response and restoration

processes, Motorola Dispatch contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been addressed, the System Support Center verifies resolution and with the customer's approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

Network Preventative Maintenance

Network Preventative Maintenance is a service that will provide an operational test and alignment, as applicable, on the customer's equipment (infrastructure or fixed network equipment only) to ensure the equipment meets original manufacturer's specifications. Motorola's large network of service helps the customer plan and schedule the annually preventative maintenance of their network to meet their operational timelines.

Network Preventative Maintenance assures that the customer's network is up and running in top condition. This service proactively detects those potential issues that may result if the equipment is not meeting original manufacturer's specifications. Customers can help prevent a system malfunction and minimize their costly repairs, thus managing their maintenance budget.

Motorola's technicians have immediate access to engineering design teams and multiple technology experts. The technicians are equipped with detailed checklists describing what and how the pieces of equipment need servicing. The customer can take advantage of the Network Preventative Maintenance service to maximize their network uptime. Over 600 customers have entrusted their network support to Motorola with the Network Preventative Maintenance service. Many of these customers (Federal, State & Local Government, Police & Fire entities, etc) rely on this service to keep their systems performing consistently. Enhance the value of Motorola's service offerings by offering the customer such complementary services as Technical Support, OnSite Infrastructure Response, Infrastructure Repair, Network Monitoring, or many others.

NOTE: The terms and conditions of all Statement of Works (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

Technical Support	Network Monitoring	Infrastructure Repair	Infrastructure Repair with Advanced Replacement	Dispatch Service	Network Preventative Maintenance	Onsite Infrastructure Response-Standard, Limited & Premier Options	Onsite Infrastructure Response with Local Dispatch-Standard, Limited & Premier Options
Remote Diagnostic & Troubleshooting	Remote network Monitoring for alarms and malfunctions	Manage Original Equipment Manufacturer(OEM) repair process, coordination, and testing	Manage Original Equipment Manufacturer(OEM) repair process, coordination, and testing	Single point of contact, Computer Aided Dispatch & Escalation Management	Trained Technical Expertise on-site inspects infrastructure equipment	Motorola Technical Expertise	Direct On-site Motorola Authorized Servicer
Laboratory Simulation of System Issues	System diagnostics	Loaner availability for customers who want to manage their FRU inventory.	Equipment shipped and replaced before original equipment returned	Electronic Case Tracking	Diagnose and restore infrastructure to original manufacturer specs.	On-site Motorola Authorized Servicer	24 Hour/365 day service availability
Access to Motorola Technical Expertise	System availability		Loaner availability for customers who want to manage their FRU inventory.	Activity Reporting	Provides interface to Motorola & local Motorola servicer	24 Hour/365 day service availability	
24 Hour/365 Day Service Availability	24 hour/365 availability			24 Hour/365 Day Service Availability Toll Free Service Number (800)221-7144		Electronic Case Tracking to ensure SLA's	

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

All SOW's can be found on the Astro25 Services Wiki ([Click here](#)) and will also be loaded and linked to the appropriate models in Oracle Services Life Cycle (SLC) 111

Ordering Requirements

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application (SLC). Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering ASTRO 25 services.

Service options are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of products. To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amounts reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Note: Service Dependencies and Incompatibilities can be found on the eFlipbook.

Site ID & Technology Information

Site ID Prefix:

· AXXXX – The letter "A" should be used for all Astro 25 customers

Technology: All Sites should use ASTRO 25 along with a version release as the technology in order to build Install Base and price all SLC Contracts correctly.

Example: ASTRO25 7.15 M CORE

For more information on Site id's please refer to our [Service Enablement Converge Page](#)

Configuration

Data Not Available

Ship Card

Data Not Available

General Information

ASTRO25 Systems Service Offering

- **ESSENTIAL** Technical support when and where you need it so you can maintain and restore your system.
- **ADVANCED** Rely on us to monitor & update your network, providing improved network response & continuity.
- **PREMIER** Transfer day-to-day accountability to us to operate and optimize all or part of your system to maximize performance and reduce risk.

Essential Services for ASTRO25 Systems

Essential Services provides support for your technicians when needed.

24x7x365 Technical Support: Gain access to Motorola system technologists to help troubleshoot and resolve network issues.

Network Hardware Repair: Factory-trained and certified technicians troubleshoot, analyze, test and repair all Motorola-manufactured and select third-party equipment at our centralized facility.

Self-Installed Security Patches: Provides the latest security updates pre-tested on a factory lab system running the same software version as your network to ensure no service disruption. Once validated, you can download and install when you're ready.

Contact your local CSM to know more or quote the above service package.

Essential Plus provides added field services to minimize network downtime.

Onsite Support: When remote resolution is not possible, a local field technician will be dispatched to the affected site to resolve the issue.

Annual Preventive Maintenance: Routine test and alignment of your infrastructure helps improve system efficiency and minimize network downtime.

Use [My View Portal](#) to get real-time insights on the health of your network, case management and performance trending reports to maximize network uptime and efficiency.

Contact your local CSM to know more or quote the above service package.

Advanced Services for ASTRO25 Systems

Advanced Services provides fast response to network issues by our qualified technicians who analyze and diagnose your network, as well as deliver routine maintenance.

Network Event Monitoring: Motorola connects securely and seamlessly to your infrastructure, and our dedicated, highly-trained staff proactively detects, troubleshoots and rapidly resolves network issues.

Annual Preventive Maintenance: Routine test and alignment of your infrastructure helps improve system efficiency and minimize network downtime.

Onsite Support: When remote resolution is not possible, a local field technician will be dispatched to the affected site to resolve the issue.

Remote Security Patch Installation: Proactive security updates are remotely applied by Motorola to help maintain operational integrity of your network and minimize cybersecurity risk.

Network Hardware Repair: Factory-trained and certified technicians troubleshoot, analyze, test and repair all Motorola-manufactured and select third-party equipment at our centralized facility.

24x7x365 Technical Support: Gain access to Motorola's system technologists to help troubleshoot and resolve network

Contact your local CSM to know more or quote the above service package.

Advanced Plus helps extend the lifespan of your network with planned upgrades in a cost effective way.

Network Upgrades: Get the necessary network upgrades, implementation and change management services required to maintain your network at the highest level of support. Upgrading your network ensures you attain the most value from your ASTRO 25 investment with the latest features and security enhancements.

Use [MyView Portal](#) to get real-time insights on the health of your network, case management and performance trending reports to maximize network uptime and efficiency.

Contact your local CSM to know more or quote the above service package.

Premier Services for ASTRO25 Systems

Description: Infrastructure Premier Services is a full set of managed services where Motorola takes care of day to day management and maintenance of your LMR network

Full Description: Premier Services provides you with a full set of services that address the support, maintenance, changes, management, repair, monitoring, cybersecurity, software and hardware upgrades required to keep your network operating at your target performance levels. Working with you, we define measurable service level agreements (SLAs) and key performance indicators (KPIs) so you can rest assured that your performance expectations are being met.

These services are delivered with industry-leading tools and ITIL based processes to ensure faster resolution of network issues, minimize interruptions and outages and proactively improve your overall experience of the services received.

They include:

Service Assurance • Problem Management • 24x7x365 Technical Support • Advanced Replacement for Network Hardware Repair • Remote Security Patch Installation • Onsite Support with Restoration SLA • Enhanced Preventive Maintenance • Network Upgrades • Change and Configuration Management • System Provisioning • Security Monitoring • Cybersecurity Risk Assessment • Backhaul Monitoring • Service Delivery Management • Performance Reporting

As a Premier Service customer, you will receive in-depth performance management reports to help you assess your overall system health. These reports are derived from terabytes of data contained in your system which we analyze to better act on potential faults, identify affected network elements, conduct root- cause analysis and improve the overall performance of your ASTRO 25 system.

Use [MyView Portal](#) to get real-time insights on the health of your network, case management and performance trending reports to maximize network uptime and efficiency.

Contact your local CSM to know more or quote the above set of premier services.

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® 25 Conventional

K1/K2 Core Upgrade / Expansions

Ordering Information

Additional Resources

[K Core Wiki Page](#)

[GTR 8000 Catalog Page](#)

[MCC 7500 Dispatch Console Catalog Page](#)

[GGM 8000 Gateway Catalog Page](#)

Configuration

Upgrade and/or Expand Existing K Core

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.9 or ASTRO 25 7.11, ASTRO 7.12 system to an ASTRO 25 7.13 system or to add-on additional features to an existing system. Please be sure to read each step carefully to ensure the factory will correctly build the product.

1. K-Core Upgrade and/or Expansion Supermodel

The following supermodel must be ordered for an upgrade or expansion to either a K1 or K2 configuration.

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

IF you are only expanding from K1 to K2 and not upgrading, skip to step 9.

Choose the following option in order to upgrade your existing K Core. This provides the current release software for the core equipment: GCP 8000 Site Controller, GGM 8000 Gateway, and LAN switch.

Description	Full Description	Nomenclature	APC	Price
K CORE SOFTWARE UPGRADE	-	CA02257AA	425	\$4,700.00

2. Data

Choose the following option if your existing K Core system uses data. This will provide the current release software for the PDG and GGSN.

Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED DATA UPGRADE	-	CA01888AB	425	\$14,000.00

3. Terminal Server

Choose the following option if your system uses a terminal server. This provides the current release software for the Terminal Server.

4. Firewall

Choose the following option if your system uses a firewall. This provides the current release software for the Firewall.

Description	Full Description	Nomenclature	APC	Price
FIREWALL UPGRADE	-	CA01887AA	425	\$100.00

5. MOSCAD NFM GMC

Choose the following option if your system uses a MOSCAD NFM GMC server. This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM 7.13 SW UPGRADE	Upgrade to A7.13	CA02155AA	382	\$12,800.00

Add-on Opportunities for Existing ASTRO 25 K Core

6. Add Integrated Data and/or MOSCAD NFM

This provides the hardware for the Integrated Data and MOSCAD NFM applications listed below

Description	Full Description	Nomenclature	APC	Price
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DATA ENABLEMENT	-	CA02258AA	425	\$20,000.00
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MOSCAD NFM GMC

This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
MOSCAD NFM VIRT APP A7.13 A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability. Please see the MOSCAD NFM ordering guide for required client hardware & software and for the SDM3000 RTU and licenses. For M1 Cores, you can order a maximum quantity of two (2). For M2/M3 cores, you can order a maximum quantity of four (4).	CA02102AA	382	\$28,453.00

The **Add: Conventional Integrated Data** provides the GGSN, border gateway, DMZ switch, and all associated software. This option also includes your first 8 site licenses. If additional sites are needed, purchase the CA01534AA 8-Site License option.

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AB	425	\$75,450.00

If a firewall is not already present in the system, a firewall & firewall software will be required. (Step 8)

Order the following kit if data encryption is required for the GGSN.

Description	Full Description	Nomenclature	APC	Price
S6000 ENCRYPTION MODULE	Add Encryption	ST6016	454	\$1,000.00

Add Encryption

7. Add Encryption

GGM 8000 Encryption

If encryption is required on the GGM 8000 Gateway, order the TYN4000A for the Gateway Encryption module.

The quantities of encryption options for the core gateway must equal quantity one for ASTRO 25 K1 Cores and quantity two for ASTRO 25 K2 Cores. If the core has Integrated Data, an additional quantity of one will need to be ordered for the border gateway.

PDG Encryption

If your system has Integrated Data and data encryption is required, order the CDEM

Description	Full Description	Nomenclature	APC	Price
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00

Required Software:

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

Must select at least (1) single Encryption Kits:

- Select (1) AES Data Encryption Kit (CA00182AT)
- Select (1) DES-OFB Data Encryption Kit (CA00143AD)

CDEM Encryption Algorithms

If your system currently has the CDEM and you'd like to add AES or DES-OFB encryption algorithms, please refer to the CDEM Encryption Upgrade Kits in the price catalog.

Optional: Add Other Core Equipment

8. Other core equipment available for add-on or upgrade to your existing core:

Terminal Server

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
SWITCH ROUTER TERMINAL SERVER SW	Software for the SRC, used for upgrading from release to release.	T7472	147	\$50.00

Firewall

Description	Full Description	Nomenclature	APC	Price
JUNIPER/FIREWALL GATEWAY	-	T7376	147	\$1,200.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00

Interface Module (Channel Gateway) -

Available for K1 – Non-Redundant Core

Description	Full Description	Nomenclature	APC	Price
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00

Expansion Opportunities for Existing ASTRO 25 K Core

1. Expand from a K1 to a K2 core (Add Redundancy)

Option CA0xxxx below will provide a GCP 8000 Site Controller, and the GGM 8000 Transport Gateway.

NOTE: In A7.13 the LAN and Backhaul switch is a HP 2620. In prior releases the LAN and Backhaul Switch was an HP 2610. Please select the appropriate switch for your system.

Description	Full Description	Nomenclature	APC	Price
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ADD: Redundancy	-	CA02259AA	425	\$20,000.00
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YOU must order a LAN switch and optional backhaul switches. Please order the appropriate FRU under a separate line item.

Description	Full Description	Nomenclature	APC	Price
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00

In addition, the following Cable/Mounting Hardware Kits are available to mount this equipment in your existing rack or cabinet. Must order one of these options.

Description	Full Description	Nomenclature	APC	Price
K CORE EXPANSION RACK KIT	-	DLN6853	425	\$250.00
K CORE EXPANSION CABINET KIT	Accessories / FRUs	DLN6854	425	\$250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
SPARE CABINET ASTRO 7.9 & BEYOND	Additional Resources	CVN6565	280	\$5,600.00
FRE: DL380 G8p LC 600-600	-	DVN4292	280	\$16,000.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00

FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6853	K CORE EXPANSION RACK KIT	425	45
FIXEDSTN	SCB	DLN6854	K CORE EXPANSION CABINET KIT	425	45
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45

FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7413	JUNIPER FIREWALL RECOVERY MEDIA	877	3
FIXEDSTN	SCB	T7472	SWITCH ROUTER TERMINAL SERVER SW	147	5
FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	137	25
FIXEDSTN	SCB	TYN4000	FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	147	8
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

ASTRO® 25 Conventional**K1/K2 Core**

Ordering Information

General Information

The ASTRO®25 K1/K2 Core is targeted at small capacity conventional customers who require an ASTRO®25 conventional only system. The K-core allows customers to interface channels to an IP based MCC 7500 Console, provides a migration path for customers with fielded Motorola Conventional solutions, and allows the flexibility for customers to join a larger system in the future while maximizing their equipment investment.

The K-core is an IP capable solution from the RF channel to the operator position, and has been architected to provide flexibility in design in order to meet the needs of varying customers. Customers have the ability to add channels or sites, migrate channels, or join a regional system, all while utilizing their initial investment.

Capacity

The K Core will support the following capacities:

- 1-20 Consoles
- 1-5 Console sites
- 1-25 RF sites
- 1-30 ASTRO 25 Gateways
- 1-50 channels

Redundancy

Customers can optionally add redundancy to both the core equipment and site links. The K Core components in a non-redundant configuration (K1) include: one GCP 8000 Site Controller, one ASTRO 25 Gateway, and one LAN switch. A redundant configuration includes: redundant GCP 8000 Site Controllers, redundant ASTRO 25 Gateways, and two LAN switches.

System ID Information

In order to obtain a system ID for a K Core system:

The CSP short form needs to be completed for warranty support only IF no additional System Support Center services are purchased to establish an ID in the Clarify DB/system for Astro K-Core. The link to CSP short form and instructions are available at the following site: <http://compass.mot-solutions.com/go/233837513>.

Customer name, technical contacts as well as warranty start dates need to be included. The customer ID would follow this format: CVKxxxx (CVK is the prefix and the 'xxxx' would be the actual alpha-numeric ID assigned by the NSS Team).

If there will be additional services, the CSM needs to fill out an Install Base Template and submit to their regional NSS analyst.

Additional Information

For additional information on the K Core see: <http://compass.mot-solutions.com/web/astro25kcore>

Ordering Requirements

Required:

1. Order **redundant or non-redundant core**.
2. Order **rack or cabinet**. This includes all mounting hardware and cables.

Optional:

1. **Analog/v.24 Interface kit**. This is an option only for the non-redundant (K1) core. For a redundant (K2) core, or if additional channel capacity is required, additional GGM 8000 Gateway(s) with Analog/v.24 kits must be ordered via the GGM 8000 ECAT price page.
2. **Integrated Data / MOSCAD NFM**. This provides the hardware for the Integrated Data and MOSCAD NFM applications.
3. **Backhaul Switch**. NOTE: In 7.11 or later the backhaul switch for K Cores are optional (previously this was structured to supermodels SQM01SUM0237A and SQM01SUM0236A). If a backhaul switch is required, for K1 order Qty 1 backhaul switch, for K2 order Qty 2.
4. **Terminal Server**. This provides remote access into the system. Firewall is required if the Terminal Server is selected.
5. **Firewall**. This is required if either Integrated Data or a Terminal Server is selected.
6. **Encryption**. In the K Core, there are two types of encryption available: GGM 8000 Encryption and Data Encryption.

- GGM 8000 Encryption:

Gateway Encryption module must be ordered to encrypt the GGM 8000.

FIPS 140-2 Level 2 / Common Criteria Encryption must be ordered in addition to the gateway encryption module.

The quantities of encryption options must match the number of GGM 8000 gateways in the core configuration. Please see the table below for detailed guidance.

Core Type	Standard Encryption	FIPS 140-2 Level 2 Encryption
K1 (non-redundant)	Qty 1 CA02087AA	Qty 1 CA02087AA Qty 1 CA02134AA

K2 (redundant)	Qty 2 CA02087AA	Qty 2 CA02087AA Qty 2 CA02134AA
K1 + Integrated Data	Qty 2 CA02087AA	Qty 2 CA02087AA Qty 2 CA02134AA
K2 + Integrated Data	Qty 3 CA02087AA	Qty 3 CA02087AA Qty 3 CA02134AA

Data Encryption:

Integrated Data must be selected in order to select these data encryption options.

CDEM. This module encrypts the PDG (Packet Data Gateway).

AES and/or **DES-OFB.** One or both of these algorithm kits can be selected. One is required.

GGSN Encryption.

8. . If Anti-Virus is required, and you add console ops or put Configuration Manager on a standalone computer, you will need additional software and licenses. For every computer or server you add to the core, order quantity one (1) Symantec Endpoint Protection as a separate line item from the K1 or K2 supermodel. This provides both the Anti-Virus software and license.

9. **Windows Hardening.** The K core supports Windows Transparent Hardening. Order the Windows Transparent Hardening Supplemental CD to apply to your Windows servers and computers.

Additional Resources

[GTR 8000 Page](#)

[MCC 7500 Dispatch Console Page](#)

[GGM 8000 Gateway Page](#)

Configuration

Required: Order the Core

Redundant or Non-Redundant Core

One of the following main supermodels must be ordered.

Choose SQM01SUM0237A for a non-redundant core. This will generate the following equipment: one GCP 8000 Site Controller, one GGM 8000 Gateway, one LAN switch, Configuration Manager software and all associated software.

Choose SQM01SUM0236A for a redundant core. This will generate the following equipment: redundant GCP 8000 Site Controllers, redundant GGM 8000 Gateways, two LAN switches,

Configuration Manager software and all associated software.

Please note: The main supermodel does not include backhaul switch(es). The backhaul switch(es) must be ordered through the option CA01896AA

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00
SINGLE ZONE CONV RED CORE -K2	Required: Order Rack or Cabinet	SQM01SUM0236	405	\$43,500.00

Required: Order Rack or Cabinet

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	Optional: Order Additional Features	CA01664AB	183	\$3,000.00

Optional: Order Additional Features

Analog/v.24 Interface Kit

Provides the interface between the MCC 7500 console and ASTRO 25 Conventional (digital) base stations for digital conventional operation. Provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AC) is needed for your system configuration, then do not order this option (CA01618AA) under the SQM01SUM0237A model. Order the Interface Kit from the GGM 8000 price pages. This must be placed on the same order to ensure staging will install the module.

Enhanced Conventional Gateway

The Enhanced Conventional Gateway modules provide increased port density for customers that require additional capacity. Also supported is the ability to directly connect analog audio to an analog logging solution without the use of an audio bridge, and migration to MCC 7500 consoles for customers with existing Centracom Gold consoles.

The Low Density ECCGW provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports. The High Density ECCGW provides eight (8) V.24 digital ports and eight (8) 4-

Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AC) is needed for your system configuration, then do not order options (CA02141AA & CA02086AA) under the SQM01SUM0237A model. Order the Enhanced CCGW module from the GGM 8000 price pages. This must be placed on the same order to ensure staging will install the module.

Description	Full Description	Nomenclature	APC	Price
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

Add Integrated Data and/or MOSCAD NFM

This provides the hardware for the Integrated Data and MOSCAD NFM applications listed below

Description	Full Description	Nomenclature	APC	Price
DATA ENABLEMENT	-	CA02258AA	425	\$20,000.00

If you select CA02258AA you will need to select one or both of the options listed below for MOSCAD or Integrated Data.

MOSCAD NFM GMC

This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM VIRTUAL APP A7.14_A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability. Please see	CA02399AA	382	\$28,453.00

	the MOSCAD NFM ordering guide for required client hardware & software and for the SDM3000 RTU and licenses. For M1 Cores, you can order a maximum quantity of two (2).			
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Conventional Integrated Data

The **Add: Conventional Integrated Data** provides the GGSN, border gateway, DMZ switch, and all associated software. This option also includes your first 8 site licenses. If additional sites are needed, purchase the CA01534AA 8-Channel License option.

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	Optional: Order Encryption	CA01740AC	405	\$75,450.00

If a firewall is not already present in the system, a firewall & firewall software will be required.

Optional: Order Encryption

If encryption is required on the GGM 8000 Gateway, order the CA02087AA option for the Gateway Encryption. If Common Criteria certification is required, also order CA02134AA. The CA02134AA option will also include FIPS 140-2 Level 2 Encryption.

If the option for Gateway Encryption (CA02087AA) is ordered along with Integrated Data (CA01740AC), order an additional quantity of one for the encryption options to add encryption capability to the border gateway.

For example, if Encryption and Common Criteria certification is required in a K2 redundant configuration, quantity 2 of CA02087AA and quantity 2 of CA02134AA must be ordered. If Integrated Data is also required, quantity 3 of CA02087AA and quantity 3 of CA02134AA must be ordered.

When these options are ordered, the quantity of the Encryption option (CA02087AA) and Common Criteria (CA02134AA) must be equal.

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

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DATA Encryption

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Choose the following option if a terminal server is required.

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Choose the following option if a terminal server is required. A Firewall is required if either integrated data or a terminal server is ordered. If a firewall is not already present in the system, a firewall & firewall software will be required. The CA01751AA option provides both.

Description	Full Description	Nomenclature	APC	Price
ADD: FIREWALL	-	CA01751AA	425	\$1,200.00

Backhaul Switch

Choose the following option if a backhaul switch is required. Ethernet Use Only. Non-redundant (K1) cores should order one (1); redundant (K2) cores should order two (2).

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	Accessories / FRUs	CA01896AB	425	\$2,250.00

Accessories / FRUs

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Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRE: DL380 G8p LC 600-600	-	DVN4292	280	\$16,000.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
FRU: GGM 8000 V.24 MODULE	Additional Resources	TYN4004	147	\$750.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22

CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0236	SINGLE ZONE CONV RED CORE - K2	405	40
FIXEDSTN	SCB	SQM01SUM0237	SINGLE ZONE CONV NON-RED CORE	405	19
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

[JUMP TO ...](#)
[MODEL](#)
[CONFIGURATION](#)
[SHIP CARD](#)

Model

**ASTRO® 25 Conventional
K1/K2 Core Upgrade / Expansions**

Configuration

Upgrade and/or Expand Existing K Core

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.11 or ASTRO 25 7.12, ASTRO 7.13 system to an ASTRO 25 7.14 system or to add-on additional features to an existing system. Please be sure to read each step carefully to ensure the factory will correctly build the product.

1. K-Core Upgrade and/or Expansion Supermodel

The following supermodel must be ordered for an upgrade or expansion to either a K1 or K2 configuration.

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

IF you are only expanding from K1 to K2 and not upgrading, skip to step 9.

Choose the following option in order to upgrade your existing K Core. This provides the current release software for the core equipment: GCP 8000 Site Controller, GGM 8000 Gateway, and LAN switch.

Description	Full Description	Nomenclature	APC	Price
K CORE SOFTWARE UPGRADE	-	CA02257AA	425	\$4,700.00

2. Data

Choose the following option if your existing K Core system uses data. This will provide the current release software for the PDG and GGSN.

Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED DATA UPGRADE	-	CA01888AC	405	\$14,000.00

3. Terminal Server

Choose the following option if your system uses a terminal server. This provides the current release software for the Terminal Server.

4. Firewall

Choose the following option if your system uses a firewall. This provides the current release software for the Firewall.

Description	Full Description	Nomenclature	APC	Price
FIREWALL UPGRADE	-	CA01887AA	425	\$100.00

5. MOSCAD NFM GMC

Choose one of the following option if your system uses a MOSCAD NFM GMC server. This provides the current release software for the MOSCAD NFM GMC for your upgrade path. You need to determine first if you have EMB or OEM software and order the appropriate option:

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM VIRTUAL APP UPGRADE A7.13 EMB TO A7.14_A3.1 EMB	-	CA02408AA	382	\$12,800.00
ADD: MOSCAD NFM VIRTUAL APP UPGRADE A7.13 OEM TO A7.14_A3.1 EMB	Add-on Opportunities for Existing ASTRO 25 K Core	CA02410AA	382	\$12,800.00
ADD: MOSCAD NFM VIRTUAL APP UPGRADE A7.11 OEM TO A7.14_A3.1 EMB	-	CA02406AA	382	\$12,800.00

Add-on Opportunities for Existing ASTRO 25 K Core

6. Add Integrated Data and/or MOSCAD NFM

This provides the hardware for the Integrated Data and MOSCAD NFM applications listed below

Description	Full Description	Nomenclature	APC	Price
DATA ENABLEMENT	-	CA02258AA	425	\$20,000.00

If you select CA02258AA you will need to select one or both of the options listed below for MOSCAD or Integrated Data. This option is compatible with A7.13 and newer systems only. If adding Data to a release prior to A7.13 please contact your System Engineer.

MOSCAD NFM GMC

This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM VIRTUAL APP A7.14_A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability. Please see the MOSCAD NFM ordering guide for required client hardware & software and for the SDM3000 RTU and licenses. For M1 Cores, you can order a maximum quantity of two (2).	CA02399AA	382	\$28,453.00

Conventional Integrated Data

Provides the GGSN, border gateway, DMZ switch, and all associated software. This option also includes your first 8 site licenses. If additional sites are needed, purchase the CA01534AA 8-Site License option.

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AC	405	\$75,450.00

If a firewall is not already present in the system, a firewall & firewall software will be required. (Step 8)

Order the following kit if data encryption is required for the Border Gateway.

Description	Full Description	Nomenclature	APC	Price
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S6000 ENCRYPTION MODULE	Add Encryption	ST6016	454	\$1,000.00
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Add Encryption

7. Add Encryption

GGM 8000 Encryption

If encryption is required on the GGM 8000 Gateway, order the TYN4000A for the Gateway Encryption module.

The quantities of encryption options for the core gateway must equal quantity one for ASTRO 25 K1 Cores and quantity two for ASTRO 25 K2 Cores. If the core has Integrated Data, an additional quantity of one will need to be ordered for the border gateway.

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00

PDG Encryption

If your system has Integrated Data and data encryption is required, order the CDEM.

Required Hardware:

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00
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Required Software:

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00

Must select at least (1) single Encryption Kits:

- Select (1) AES Data Encryption Kit (CA00182AT)
- Select (1) DES-OFB Data Encryption Kit (CA00143AD)

CDEM Encryption Algorithms

If your system currently has the CDEM and you'd like to add AES or DES-OFB encryption algorithms, please refer to the CDEM Encryption Upgrade Kits in the price catalog.

Optional: Add Other Core Equipment

8. Other core equipment available for add-on or upgrade to your existing core:

Terminal Server

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
SWITCH ROUTER TERMINAL SERVER SW	Software for the SRC, used for upgrading from release to release.	T7472	147	\$50.00

Firewall

Description	Full Description	Nomenclature	APC	Price
JUNIPER/FIREWALL GATEWAY	-	T7376	147	\$1,200.00

JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
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Interface Module (Channel Gateway) -

Available for K1 – Non-Redundant Core

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core. CA02141AA and CA02186AA are only compatible with A7.13 and beyond.

Description	Full Description	Nomenclature	APC	Price
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00

Expansion Opportunities for Existing ASTRO 25 K Core

1. Expand from a K1 to a K2 core (Add Redundancy)

Option CA02259AA below will provide a GCP 8000 Site Controller, and the GGM 8000 Transport Gateway. When expanding a K1 core to a K2 core redundant configuration, the core GGM8000 gateways cannot be used as CCGWs. As a result, if the existing K1 core has the core GGM8000 being used as a CCGW, a dedicated GGM8000 with CCGW will need to be ordered to interface to those conventional channels.

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

YOU must order a LAN switch and optional backhaul switches. Please order the appropriate FRU under a separate line item.

NOTE: In A7.13 the LAN and Backhaul switch is a HP 2620. In prior releases the LAN and Backhaul Switch was an HP 2610. Please select the appropriate switch for your system.

Description	Full Description	Nomenclature	APC	Price
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00

In addition, the following Cable/Mounting Hardware Kits are available to mount this equipment in your existing rack or cabinet. Must order one of these options.

Description	Full Description	Nomenclature	APC	Price
K CORE EXPANSION RACK KIT	-	DLN6853	425	\$250.00

K CORE EXPANSION CABINET KIT	Accessories / FRUs	DLN6854	425	\$250.00
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Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
FRE: DL380 G8p LC 600-600	-	DVN4292	280	\$16,000.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
SPARE CABINET ASTRO 7.9 & BEYOND	Additional Resources	CVN6565	280	\$5,600.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22

FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6853	K CORE EXPANSION RACK KIT	425	45
FIXEDSTN	SCB	DLN6854	K CORE EXPANSION CABINET KIT	425	45
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7413	JUNIPER FIREWALL RECOVERY MEDIA	877	3
FIXEDSTN	SCB	T7472	SWITCH ROUTER TERMINAL SERVER SW	147	5
FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA	137	25

			ENCRYPTION UNIT		
FIXEDSTN	SCB	TYN4000	FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	147	8
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**ASTRO® 25 Conventional
7.15 K Core**

Ordering Information

[Ordering Guide](#)

General Information

The ASTRO®25 K Core is targeted at small capacity conventional customers who require an ASTRO®25 conventional only system. The K-core allows customers to interface channels to an IP based MCC 7500 Console, provides a migration path for customers with fielded Motorola Conventional solutions, and allows the flexibility for customers to join a larger system in the future while maximizing their equipment investment.

The K-core is an IP capable solution from the RF channel to the operator position, and has been architected to provide flexibility in design in order to meet the needs of varying customers. Customers have the ability to add channels or sites, migrate channels, or join a regional system, all while utilizing their initial investment.

Capacity

The K Core will support the following capacities:

- 1-20 Consoles
- 1-5 Console sites
- 1-25 RF sites
- 1-30 ASTRO 25 Gateways
- 1-50 channels

Redundancy

Customers can optionally add redundancy to both the core equipment and site links. The K Core components in a non-redundant configuration include: one GCP 8000 Site Controller, one ASTRO 25 Gateway, and one LAN switch. A redundant configuration includes: redundant GCP 8000 Site Controllers, redundant ASTRO 25 Gateways, and two LAN switches.

System ID Information

In order to obtain a system ID for a K Core system:

The CSP short form needs to be completed for warranty support only IF no additional System Support Center services are purchased to establish an ID in the Clarify DB/system for Astro K-Core. The link to CSP short form and instructions are available at the following

site: <http://compass.mot-solutions.com/go/233837513>.

Customer name, technical contacts as well as warranty start dates need to be included. The customer ID would follow this format: CVKxxxx (CVK is the prefix and the 'xxxx' would be the actual alpha-numeric ID assigned by the NSS Team).

If there will be additional services, the CSM needs to fill out an Install Base Template and submit to their regional NSS analyst.

Additional Information

For additional information on the K Core see: <http://compass.mot-solutions.com/web/astro25kcore>

Ordering Requirements

Required:

1. Order **redundant or non-redundant core**.
2. Order **rack or cabinet**. This includes all mounting hardware and cables.

Optional:

1. **Analog/v.24 Interface kit**. This is an option only for the non-redundant (K1) core. For a redundant (K2) core, or if additional channel capacity is required, additional GGM 8000 Gateway(s) with Analog/v.24 kits must be ordered via the GGM 8000 ECAT price page.
2. **Integrated Data / MOSCAD NFM**. This provides the hardware for the Integrated Data and MOSCAD NFM applications.
3. **Backhaul Switch**. NOTE: In 7.11 or later the backhaul switch for K Cores are optional (previously this was structured to supermodels SQM01SUM0237A and SQM01SUM0236A). If a backhaul switch is required, for K1 order Qty 1 backhaul switch, for K2 order Qty 2.
4. **Terminal Server**. This provides remote access into the system. Firewall is required if the Terminal Server is selected.
5. **Firewall**. This is required if either Integrated Data or a Terminal Server is selected.
6. **Encryption**. In the K Core, there are two types of encryption available: GGM 8000 Encryption and Data Encryption.

- GGM 8000 Encryption:

Gateway Encryption module must be ordered to encrypt the GGM 8000.

FIPS 140-2 Level 2 / Common Criteria Encryption must be ordered in addition to the gateway encryption module.

The quantities of encryption options must match the number of GGM 8000 gateways in the core configuration. Please see the table below for detailed guidance.

Core Type	Standard Encryption	FIPS 140-2 Level 2 Encryption Qty 1
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K1 (non- redundant)	Qty 1 CA02087AA	CA02087AA Qty 1 CA02134AA Qty 2
K2 (redundant)	Qty 2 CA02087AA	CA02087AA Qty 2 CA02134AA Qty 3
K1 + Integrated Data	Qty 3 CA02087AA	CA02087AA Qty 3 CA02134AA Qty 4
K2 + Integrated Data	Qty 4 CA02087AA	CA02087AA Qty 4 CA02134AA

Data Encryption:

Integrated Data must be selected in order to select these data encryption options.

CDEM. This module encrypts the PDG (Packet Data Gateway).

AES and/or DES-OFB. One or both of these algorithm kits can be selected. One is required.

GGSN Encryption.

8. . If Anti-Virus is required, and you add console ops or put Configuration Manager on a standalone computer, you will need additional software and licenses. For every computer or server you add to the core, order quantity one (1) Symantec Endpoint Protection as a separate line item from the K1 or K2 supermodel. This provides both the Anti-Virus software and license.

9. **Windows Hardening.** The K core supports Windows Transparent Hardening. Order the Windows Transparent Hardening Supplemental CD to apply to your Windows servers and computers.

Additional Resources

[GTR 8000 Page](#)

[MCC 7500 Dispatch Console Page](#)

[GGM 8000 Gateway Page](#)

Configuration

Required: Order the Core

Redundant or Non-Redundant Core

The following main supermodel must be ordered.

No Redundant K Core will generate the following equipment: one GCP 8000 Site Controller, one GGM 8000 Gateway, one LAN switch, Configuration Manager software and all associated software.

Choose CA02259AA for a redundant core. This will generate the following equipment: redundant GCP 8000 Site Controllers, redundant GGM 8000 Gateways, two LAN switches, Configuration Manager software and all associated software. When expanding a Non-Redundant K Core to a Redundant K Core configuration, the core GGM 8000 gateways cannot be used as CCGWs.

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00
ADD: Redundancy	Required: Order Rack or Cabinet	CA02259AA	425	\$20,000.00

Required: Order Rack or Cabinet

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	Optional: Order Additional Features	CA01664AB	183	\$3,000.00

Optional: Order Additional Features

Analog/v.24 Interface Kit

Provides the interface between the MCC 7500 console and ASTRO 25 Conventional (digital) base stations for digital conventional operation. Provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AC) is needed for your system configuration, then do not order this option (CA01618AA) under the SQM01SUM0237A model. Order the Interface Kit from the GGM 8000 price pages. This must be placed on the same order to ensure staging will install the module.

Enhanced Conventional Gateway

The Enhanced Conventional Gateway modules provide increased port density for customers

that require additional capacity. Also supported is the ability to directly connect analog audio to an analog logging solution without the use of an audio bridge, and migration to MCC 7500 consoles for customers with existing Centracom Gold consoles.

The Low Density ECCGW provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports. The High Density ECCGW provides eight (8) V.24 digital ports and eight (8) 4-Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AC) is needed for your system configuration, then do not order options (CA02141AA & CA02086AA) under the SQM01SUM0237A model. Order the Enhanced CCGW module from the GGM 8000 price pages. This must be placed on the same order to ensure staging will install the module.

Description	Full Description	Nomenclature	APC	Price
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

Add Integrated Data and/or MOSCAD NFM

This provides the hardware for the Integrated Data and MOSCAD NFM applications listed below

Description	Full Description	Nomenclature	APC	Price
DATA ENABLEMENT	-	CA02258AA	425	\$20,000.00

If you select CA02258AA you will need to select one or both of the options listed below for MOSCAD and/or Integrated Data. In addition you will need to order Qty 1 of T8177 - VMWARE VSPHERE 1-CPU License.

MOSCAD NFM GMC

This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM VIRTUAL APP A7.15_A3.1	-	CA02634AA	382	\$28,453.00

Conventional Integrated Data

The **Add: Conventional Integrated Data** provides the GGSN, border gateway, DMZ switch, and all associated software. This option also includes your first 8 site licenses. If additional sites are needed, purchase the CA01534AA 8-Channel License option.

Description	Full Description	Nomenclature	APC	Price
ADD:CONVENTIONAL INTEGRATED DATA	Optional: Order Encryption	CA01740AD	405	\$75,450.00

If a firewall is not already present in the system, a firewall & firewall software will be required.

Optional: Order Encryption

If encryption is required on the GGM 8000 Gateway, order the CA02087AA option for the Gateway Encryption. If Common Criteria certification is required, also order CA02134AA. The CA02134AA option will also include FIPS 140-2 Level 2 Encryption.

If the option for Gateway Encryption (CA02087AA) is ordered along with Integrated Data (CA01740AC), order an additional quantity of one for the encryption options to add encryption capability to the border gateway.

For example, if Encryption and Common Criteria certification is required in a K2 redundant configuration, quantity 2 of CA02087AA and quantity 2 of CA02134AA must be ordered. If Integrated Data is also required, quantity 3 of CA02087AA and quantity 3 of CA02134AA must be ordered.

When these options are ordered, the quantity of the Encryption option (CA02087AA) and Common Criteria (CA02134AA) must be equal.

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

DATA Encryption

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA)

and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

Terminal Server

Choose the following option if a terminal server is required.

ADD: TERMINAL SERVER

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Choose the following option if a terminal server is required. A Firewall is required if either integrated data or a terminal server is ordered. If a firewall is not already present in the system, a firewall & firewall software will be required. The CA02635AA option provides both.

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Choose the following option if a backhaul switch is required. Ethernet Use Only. Non-redundant (K1) cores should order one (1); redundant (K2) cores should order two (2).

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	Accessories / FRUs	CA01896AB	425	\$2,250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
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ADD: AC POWER	-	CA01616AA	147	\$0.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
DVD DRIVE	-	DLN6866	280	\$136.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: GGM 8000 V.24 MODULE	Additional Resources	TYN4004	147	\$750.00
FRE: DL380 G8p LC 600-600	-	DVN4292	280	\$16,000.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22

FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTRLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0237	SINGLE ZONE CONV NON-RED CORE	405	19
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

JUMP TO ...

[MODEL](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**ASTRO® 25 Conventional
K1/K2 Core Upgrade / Expansions**

Configuration

Upgrade and/or Expand Existing K Core

NOTE: For detailed information on Orderability and option descriptions check the Ordering Guide at http://compass.mot-solutions.com/doc/469104796/K1K2_Upgrade_Expansion_Ordering_Guide_7_15.doc

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.11 or ASTRO 25 7.12, ASTRO 7.13 system, ASTRO 25 7.14 to an ASTRO 25 7.15 system or to add-on additional features to an existing system. Please be sure to read each step carefully to ensure the factory will correctly build the product.

1. K-Core Upgrade and/or Expansion Supermodel

The following supermodel must be ordered for an upgrade or expansion to either a K1 or K2 configuration.

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

IF you are only expanding from K1 to K2 and not upgrading, skip to step 9.

Choose the following option in order to upgrade your existing K Core. This provides the current release software for the core equipment: GCP 8000 Site Controller, GGM 8000 Gateway, and LAN switch.

Description	Full Description	Nomenclature	APC	Price
K CORE SOFTWARE UPGRADE	-	CA02257AA	425	\$4,700.00

2. Data

Choose the following option if your existing K Core system uses data. This will provide the current release software for the PDG and GGSN.

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Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED DATA UPGRADE	-	CA01888AD	405	\$14,000.00

3. Terminal Server

Choose the following option if your system uses a terminal server. This provides the current release software for the Terminal Server.

4. Firewall

Choose the following option if your system uses a firewall. This provides the current release software for the Firewall.

Description	Full Description	Nomenclature	APC	Price
FIREWALL UPGRADE	-	CA01887AA	425	\$100.00

5. MOSCAD NFM GMC

Choose one of the following option if your system uses a MOSCAD NFM GMC server. This provides the current release software for the MOSCAD NFM GMC for your upgrade path. You need to determine first if you have EMB or OEM software and order the appropriate option:

Description	Full Description	Nomenclature	APC	Price
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02665AA	382	\$12,800.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.13 OEM TO 7.15 EMB	Add-on Opportunities for Existing ASTRO 25 K Core	CA02666AA	382	\$12,800.00

Add-on Opportunities for Existing ASTRO 25 K Core

6. Add Integrated Data and/or MOSCAD NFM

This provides the hardware for the Integrated Data and MOSCAD NFM applications listed below

Description	Full Description	Nomenclature	APC	Price
DATA ENABLEMENT	-	CA02258AA	425	\$20,000.00

If you select CA02258AA you will need to select one or both of the options listed below for MOSCAD or Integrated Data. This option is compatible with A7.13 and newer systems only. If adding Data to a release prior to A7.13 please contact your System Engineer.

MOSCAD NFM GMC

This provides the current release software for the MOSCAD NFM GMC.

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM VIRTUAL APP A7.15_A3.1	-	CA02634AA	382	\$28,453.00

Conventional Integrated Data

Provides the GGSN, border gateway, DMZ switch, and all associated software. This option also includes your first 8 site licenses. If additional sites are needed, purchase the CA01534AA 8-Site License option.

Description	Full Description	Nomenclature	APC	Price
ADD:CONVENTIONAL INTEGRATED DATA	Add Encryption	CA01740AD	405	\$75,450.00

Add Encryption

7. Add Encryption

GGM 8000 Encryption

If encryption is required on the GGM 8000 Gateway, order the TYN4000A for the Gateway Encryption module.

The quantities of encryption options for the core gateway must equal quantity one for ASTRO 25 K1 Cores and quantity two for ASTRO 25 K2 Cores. If the core has Integrated Data, an additional quantity of one will need to be ordered for the border gateway.

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00

PDG Encryption

If your system has Integrated Data and data encryption is required, order the CDEM.

Required Hardware:

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

Required Software:

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

Optional: Add Other Core Equipment

8. Other core equipment available for add-on or upgrade to your existing core:

Terminal Server

Description	Full Description	Nomenclature	APC	Price
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TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
SWITCH ROUTER TERMINAL SERVER SW	Software for the SRC, used for upgrading from release to release.	T7472	147	\$50.00

Firewall

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

Interface Module (Channel Gateway) -

Available for K1 – Non-Redundant Core

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core. CA02141AA and CA02186AA are only compatible with A7.13 and beyond.

Description	Full Description	Nomenclature	APC	Price
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00

Expansion Opportunities for Existing ASTRO 25 K Core

1. Expand from a K1 to a K2 core (Add Redundancy)

Option CA02259AA below will provide a GCP 8000 Site Controller, and the GGM 8000 Transport Gateway. When expanding a K1 core to a K2 core redundant configuration, the core GGM8000 gateways cannot be used as CCGWs. As a result, if the existing K1 core has the core GGM8000 being used as a CCGW, a dedicated GGM8000 with CCGW will need to be ordered to interface to those conventional channels.

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

YOU must order a LAN switch and optional backhaul switches. Please order the appropriate

FRU under a separate line item.

When the cores is expanded with option CA02259AA, an additional backhaul switch is required

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

In addition, the following Cable/Mounting Hardware Kits are available to mount this equipment in your existing rack or cabinet. Must order one of these options.

Description	Full Description	Nomenclature	APC	Price
K CORE EXPANSION RACK KIT	-	DLN6853	425	\$250.00
K CORE EXPANSION CABINET KIT	Accessories / FRUs	DLN6854	425	\$250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
FRE: DL380 G8p LC 600-600	-	DVN4292	280	\$16,000.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6853	K CORE EXPANSION RACK KIT	425	45
FIXEDSTN	SCB	DLN6854	K CORE EXPANSION CABINET KIT	425	45
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	CDP	DLN6866	DVD DRIVE	280	6
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7472	SWITCH ROUTER TERMINAL SERVER SW	147	5
FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	137	25
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY MEDIA	147	32
FIXEDSTN	SCB	TYN4000	FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	147	8

FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® 25 Conventional
7.16 K Core

Ordering Information

[Ordering Guide](#)

General Information

The ASTRO®25 K Core is targeted at small capacity conventional customers who require an ASTRO®25 conventional only system. The K-core allows customers to interface channels to an IP based MCC 7500 Console, provides a migration path for customers with fielded Motorola Conventional solutions, and allows the flexibility for customers to join a larger system in the future while maximizing their equipment investment.

The K-core is an IP capable solution from the RF channel to the operator position, and has been architected to provide flexibility in design in order to meet the needs of varying customers. Customers have the ability to add channels or sites, migrate channels, or join a regional system, all while utilizing their initial investment.

Capacity

The K Core will support the following capacities:

- 1-20 Consoles
- 1-5 Console sites
- 1-25 RF sites
- 1-30 ASTRO 25 Gateways
- 1-75 channels

Redundancy

Customers can optionally add redundancy to both the core equipment and site links. The K Core components in a non-redundant configuration include: one GCP 8000 Site Controller, one ASTRO 25 Gateway, and one LAN switch. A redundant configuration includes: redundant GCP 8000 Site Controllers, redundant ASTRO 25 Gateways, and two LAN switches.

System ID Information

In order to obtain a system ID for a K Core system:

The CSP short form needs to be completed for warranty support only IF no additional System Support Center services are purchased to establish an ID in the Clarify DB/system for Astro K-Core. The link to CSP short form and instructions are available at the following

site: [CSP Short Form and Instructions](#).

Customer name, technical contacts as well as warranty start dates need to be included. The customer ID would follow this format: CVKxxxx (CVK is the prefix and the 'xxxx' would be the actual alpha-numeric ID assigned by the NSS Team).

If there will be additional services, the CSM needs to fill out an Install Base Template and submit to their regional NSS analyst.

Additional Resources

[GTR 8000 Page](#)

[MCC 7500 Dispatch Console Page](#)

[GGM 8000 Gateway Page](#)

Configuration

Required: Order the Core

Redundant or Non-Redundant Core

The following main supermodel must be ordered.

Non Redundant K Core will generate the following equipment: one GCP 8000 Site Controller, one GGM 8000 Gateway, one LAN switch, Configuration Manager software and all associated software.

Choose CA02259AA for a redundant core. This will generate the following equipment: redundant GCP 8000 Site Controllers, redundant GGM 8000 Gateways, two LAN switches, Configuration Manager software and all associated software. When expanding a Non-Redundant K Core to a Redundant K Core configuration, the core GGM 8000 gateways cannot be used as CCGWs.

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00
ADD: Redundancy	Required: Order Rack or Cabinet	CA02259AA	425	\$20,000.00

Required: Order Rack or Cabine

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
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ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	Optional: Order Additional Features	CA01664AB	183	\$3,000.00

Optional: Order Additional Features

Analog/v.24 Interface Kit

Provides the interface between the MCC 7500 console and ASTRO 25 Conventional (digital) base stations for digital conventional operation. Provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AE) is needed for your system configuration, then do not order this option (CA01618AA) under the SQM01SUM0237A model. Order a GGM and the Interface Kit from the GGM 8000 price pages. >

Enhanced Conventional Gateway

The Enhanced Conventional Gateway modules provide increased port density for customers that require additional capacity. Also supported is the ability to directly connect analog audio to an analog logging solution without the use of an audio bridge, and migration to MCC 7500 consoles for customers with existing Centracom Gold consoles.

The Low Density ECCGW provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports. The High Density ECCGW provides eight (8) V.24 digital ports and eight (8) 4-Wire with E&M analog ports.

Note the K1 core gateway can support an ECCGW, but the K2 core gateways cannot support an ECCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AE) is needed for your system configuration, then do not order options (CA02141AA & CA02086AA) under the SQM01SUM0237A model. Order a GGM with the Enhanced CCGW module from the GGM 8000

Description	Full Description	Nomenclature	APC	Price
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

Add Integrated Data and/or UEM Fault Management

This provides the hardware for the Integrated Data and UEM Fault Management applications

listed below. The VMWARE license is also needed with this option.

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AB	425	\$20,000.00
VMWARE LICENSE	-	T8208	405	\$0.00

UEM Fault Management

This provides the current release software for the UEM Fault Management.

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00

Optional features to add on to the UEM Fault Manager.

NOTE: The features below require SDM3000 Remote Terminal Units to be ordered and installed at the K-core and RF sites. Refer to the ASTRO Fault Management Ordering Guide for instructions on how to order SDM3000 units.

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

Conventional Integrated Data

Conventional Integrated Data provides the GGSN, border gateway, a switch, and all associated software.

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	Optional: Order Encryption	CA01740AE	405	\$75,450.00

Optional: Order Encryption

If encryption is required on the GGM 8000 Gateway, order the CA02087AA option for the Gateway Encryption. If Common Criteria certification is required, also order CA02134AA. The CA02134AA option includes FIPS 140-2 Level 2 Encryption.

The quantities of encryption options must match the number of GGM 8000 gateways in the core configuration. Please see the table below for detailed guidance.

Core Type	Standard Encryption	FIPS 140-2 Level 2 Encryption
K1 (non-redundant)	Qty 1 CA02087AA	Qty 1 CA02087AA Qty 1 CA02134AA
K2 (redundant)	Qty 2 CA02087AA	Qty 2 CA02087AA Qty 2 CA02134AA
K1 + Integrated Data	Qty 3 CA02087AA	Qty 3 CA02087AA Qty 3 CA02134AA
K2 + Integrated Data	Qty 4 CA02087AA	Qty 4 CA02087AA Qty 4 CA02134AA

When these options are ordered, the quantity of the Encryption option (CA02087AA) and Common Criteria (CA02134AA) must be equal.

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Data Encryption

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Choose the following option if a terminal server is required.

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

A Firewall is required if either integrated data or a terminal server is ordered. If a firewall is not already present in the system, a firewall & firewall software are required. The CA02635AA option provides both.

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Choose the following option if a backhaul switch is required. Ethernet Use Only. Non-redundant (K1) cores should order one (1); redundant (K2) cores should order two (2).

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	Accessories / FRUs	CA01896AB	425	\$2,250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00

FRE: DL380 G9 LC 600 GB DISK	K-Core Application Server and Common Platform Hardware	DLN6977	877	\$14,586.00
IP PACKET CAPTURE EXPANSION	Additional Resources	T8303	877	\$0.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15

CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0237	SINGLE ZONE CONV NON-RED CORE	405	19
FIXEDSTN	SCB	T8208	VMWARE LICENSE	405	25
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

JUMP TO ...

MODEL

CONFIGURATION

SHIP CARD

Model

**ASTRO® 25 Conventional
K1/K2 Core Upgrade / Expansions**

Configuration

[Ordering Guide](#)

Upgrade and/or Expand Existing K Core

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.14 or ASTRO 25 7.15 system to an ASTRO 25 7.16 system or to add-on additional features to an existing system. Please be sure to read each step carefully to ensure the factory will correctly build the product.

1. K-Core Upgrade and/or Expansion Supermodel

The following supermodel must be ordered for an upgrade or expansion to either a K1 or K2 configuration.

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

2. Expand or Upgrade the K-Core

Choose one of the following:

Description	Full Description	Nomenclature	APC	Price
ADD: K CORE SOFTWARE UPGRADE	-	CA02257AB	425	\$4,700.00
ADD: K-CORE EXPANSION	-	CA02911AA	425	\$0.00

UPGRADE OPTIONS: Choose the following options to upgrade K-Core features to the latest release. Skip to step 7 for add-ons.

3. Data

Choose the following option if your existing K Core system uses data. This will provide the current release software for the PDG and GGSN.

Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED DATA UPGRADE	-	CA01888AE	425	\$14,000.00

4. Terminal Server

Choose the following option if your system uses a terminal server. This provides the current release software for the Terminal Server.

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00

5. Firewall

Description	Full Description	Nomenclature	APC	Price
FIREWALL UPGRADE	Add-on Opportunities for Existing ASTRO 25 K Core	CA01887AA	425	\$100.00

6. MOSCAD NFM GMC

Use model SQM01SUM0291A (Standalone Fault Management Upgrade) to order a 7.16 MOSCAD upgrade.

Add-on Opportunities for Existing ASTRO 25 K Core

7. Add Integrated Data and/or UEM Fault Management

This provides the hardware for the Integrated Data and UEM Fault Management applications listed below. The VMWARE license is also needed with this option.

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AB	425	\$20,000.00
VMWARE LICENSE	-	T8208	405	\$0.00

If you select CA02258AB you will need to select one or both of the options listed below for Integrated Data or UEM Fault Management. This option is compatible with 7.14, 7.15 and 7.16 systems.

UEM Fault Management

This provides the current release software for the UEM Fault Management.

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00

Optional features to add on to the UEM Fault Manager

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00

Conventional Integrated Data

Provides the GGSN, border gateway, a switch, and all associated software.

Description	Full Description	Nomenclature	APC	Price
ADD:CONVENTIONAL INTEGRATED DATA	Add Encryption	CA01740AD	405	\$75,450.00

Add Encryption

8. Add Encryption

GGM 8000 Encryption

If encryption is required on the GGM 8000 Gateway, order the TYN4000A for the Gateway Encryption module.

The quantities of encryption options for the core gateway must equal quantity one for ASTRO 25 K1 Cores and quantity two for ASTRO 25 K2 Cores. If the core has Integrated Data, an additional quantity of one will need to be ordered for the border gateway.

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00

Data Encryption

If your system has Integrated Data and data encryption is required, order the CDEM.

Required Hardware:

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00

Required Software:

Description	Full Description	Nomenclature	APC	Price
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	Optional: Add Other Core Equipment	CA00143AD	137	\$750.00
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00

Optional: Add Other Core Equipment

9. Other core equipment available for add-on or upgrade to your existing core:

Terminal Server

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
SWITCH ROUTER TERMINAL SERVER SW	Software for the SRC, used for upgrading from release to release.	T7472	147	\$50.00

Firewall

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00

Interface Module (Channel Gateway)-

Available for K1 – Non-Redundant Core

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

Description	Full Description	Nomenclature	APC	Price
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00

Expansion Opportunities for Existing ASTRO 25 K Core

10. Expand from a K1 to a K2 core (Add Redundancy)

Option CA02259AA below will provide a GCP 8000 Site Controller, a GGM 8000 Gateway and LAN switch. When expanding a K1 core to a K2 core redundant configuration, the core GGM8000 gateways cannot be used as CCGWs. As a result, if the existing K1 core has the core GGM8000 being used as a CCGW, a dedicated GGM8000 with CCGW will need to be ordered to interface to those conventional channels.

Description	Full Description	Nomenclature	APC	Price

ADD: Redundancy	-	CA02259AA	425	\$20,000.00
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When the K-Core is expanded with option CA02259AA, an additional backhaul switch may be required.

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

In addition, the following Cable/Mounting Hardware Kits are available to mount this equipment in your existing rack or cabinet. Must order one of these options.

Description	Full Description	Nomenclature	APC	Price
K CORE EXPANSION RACK KIT	-	DLN6853	425	\$250.00
K CORE EXPANSION CABINET KIT	Accessories / FRUs	DLN6854	425	\$250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRE: DL380 G9 LC 600 GB DISK	K-Core Application Server and Common Platform Hardware	DLN6977	877	\$14,586.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6853	K CORE EXPANSION RACK KIT	425	45
FIXEDSTN	SCB	DLN6854	K CORE EXPANSION CABINET KIT	425	45
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7472	SWITCH ROUTER TERMINAL SERVER SW	147	5
FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	137	25
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY	147	32

			MEDIA		
FIXEDSTN	SCB	T8208	VMWARE LICENSE	405	25
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20
FIXEDSTN	SCB	TYN4000	FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	147	8
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

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JUMP TO ...
[MODEL](#)
[UPDATES](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SOFTWARE & SERVICES](#)
[UPDATE HISTORY](#)
[SHIP CARD](#)

Model

ASTRO 25 Conventional
7.18 K Core

Updates

Ordering Information

Refer to [Ordering Guidelines for ASTRO 25 K Core New and Expansion 7.18](#) for detailed ordering information and option descriptions.

Configuration

Choose the Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00

add Redundancy if required

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

Choose the Main Model and option for Expanding an existing A7.18 K Core

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

ADD: K-CORE EXPANSION 7.18	-	CA03201AB	425	\$0.00
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Order OPTIONAL UEM Fault Management and/or Integrated Data

Application server hardware is required if UEM Fault Management or Integrated Data is ordered

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AC	425	\$20,000.00

UEM Fault Management. See Ordering Guide for how to order

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

Conventional Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AG	405	\$75,450.00

Link Encryption

If Link Encryption is required, order 1 CA02087AA for Non-redundant K Core or 2 CA02087AA for Redundant K Core

If Integrated Data has also been ordered, add 2 additional CA02087AA options.

If FIPS is also required, order the same total quantity of CA02134AA

Description	Full Description	Nomenclature	APC	Price
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ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Data Encryption

If Integrated Data is ordered and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Order if required

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Order if either Integrated Data or Terminal Server is ordered

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

If required, choose 1 for non-redundant K-Core or 2 for Redundant K-Core

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

Choose Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

ACCESSORIES / FRUs

Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FRE: DL380 G9 LC 600 GB DISK	-	DLN6977	877	\$14,586.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

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JUMP TO ...
[MODEL](#)
[UPDATES](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SOFTWARE AND SERVICES](#)
[UPDATE HISTORY](#)
[SHIP CARD](#)

Model

ASTRO 25 Conventional
2019.2 K-Core

Updates

Ordering Information

Refer to Ordering Guidelines for ASTRO 25 K Core New and Expansion [2019.2](#) for detailed ordering information and option descriptions.

Configuration

Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX1500 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.00

Add Redundancy

Description	Full Description	Nomenclature	APC	Price
	Choose CA02259AA in addition to SQM01SUM0237A for a redundant core.			

ADD: Redundancy	This will generate the following additional equipment: the redundant GCP 8000 Site Controller chassis with the "Site Controller 2" module, the redundant SRX1500 Hub Router, the redundant Aruba 2930-24 Core LAN switch with 2 DAC cables, and all associated software.	CA02259AA	425	\$20,000.00
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Choose this Main Model for an Expansion to an existing K-Core

Choose SQM01SUM0250A and CA3201AA to expand the capabilities for an existing K-Core.

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION 2019.1	-	CA03201AC	425	\$0.00

Add UEM Fault Management and / or Integrated Data

Order the required Application Server hardware for UEM and/or Data. Then choose UEM Lite and optional UEM Lite options if needed. Then choose Conventional Integrated data if needed. Refer to Ordering Guide for more detail.

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AE	425	\$20,000.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AH	405	\$75,450.00

Link Encryption

If encryption is required, order the CA03587AA option for the SRX 1500 Hub Router (quantity 2 for redundant K Cores) . If FIPS certification is required, also order CA03588AA (2 for redundant K Cores), which will provide FIPS 140-2 Level 2 Encryption for the Hub Routers. If Integrated Data (CA01740AH) is ordered and Link Encryption is required, order quantity 2 of the CA02087AA for the GGM 8000 GGSN and GGM 8000 Border Router. If FIPS is also required,

also order quantity 2 of CA02134AA for the GGM 8000s.

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER	-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER	-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Data Encryption

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Required if Terminal Server or Integrated Data is ordered

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Choose the following option if a backhaul switch is required. Non-redundant K Core should order one (1) CA01896AB; Redundant K Core should order two (2) CA01896AB (which will generate 2 DAC Cables).

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

Rack or Cabinet (required)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® 25 Conventional
7.17 K Core

Ordering Information

[Ordering Guide](#)

General Information

The ASTRO®25 K Core is targeted at small capacity conventional customers who require an ASTRO®25 conventional only system. The K-core allows customers to interface channels to an IP based MCC 7500 Console, provides a migration path for customers with fielded Motorola Conventional solutions, and allows the flexibility for customers to join a larger system in the future while maximizing their equipment investment.

The K-core is an IP capable solution from the RF channel to the operator position, and has been architected to provide flexibility in design in order to meet the needs of varying customers. Customers have the ability to add channels or sites, migrate channels, or join a regional system, all while utilizing their initial investment.

Capacity

The K Core will support the following capacities:

- 1-20 Consoles
- 1-5 Console sites
- 1-25 RF sites
- 1-30 ASTRO 25 Gateways
- 1-75 channels

Redundancy

Customers can optionally add redundancy to both the core equipment and site links. The K Core components in a non-redundant configuration include: one GCP 8000 Site Controller, one ASTRO 25 Gateway, and one LAN switch. A redundant configuration includes: redundant GCP 8000 Site Controllers, redundant ASTRO 25 Gateways, and two LAN switches.

System ID Information

In order to obtain a system ID for a K Core system:

The CSP short form needs to be completed for warranty support only IF no additional System Support Center services are purchased to establish an ID in the Clarify DB/system for Astro K-Core. The link to CSP short form and instructions are available at the following

site: [CSP Short Form and Instructions](#).

Customer name, technical contacts as well as warranty start dates need to be included. The customer ID would follow this format: CVKxxxx (CVK is the prefix and the 'xxxx' would be the actual alpha-numeric ID assigned by the NSS Team).

If there will be additional services, the CSM needs to fill out an Install Base Template and submit to their regional NSS analyst.

Additional Resources

[GTR 8000 Page](#)

[MCC 7500 Dispatch Console Page](#)

[GGM 8000 Gateway Page](#)

Configuration

Required: Order the Core

Redundant or Non-Redundant Core

The following main supermodel must be ordered.

Non Redundant K Core will generate the following equipment: one GCP 8000 Site Controller, one GGM 8000 Gateway, one LAN switch, Configuration Manager software and all associated software.

If the Configuration Manager is not co-habbed with a console position, CAM, or UEM-lite then a PC must be ordered as a separate line item.

Choose CA02259AA for a redundant core. This will generate the following equipment: redundant GCP 8000 Site Controllers, redundant GGM 8000 Gateways, two LAN switches, Configuration Manager software and all associated software. When expanding a Non-Redundant K Core to a Redundant K Core configuration, the core GGM 8000 gateways cannot be used as CCGWs.

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	Required: Order Rack or Cabinet	CA02259AA	425	\$20,000.00
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00

Required: Order Rack or Cabinet

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	K-Core Expansions	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

K-Core Expansions

Use both of the following options to expand/add-on to an existing 7.17 K-core

Description	Full Description	Nomenclature	APC	Price
ADD: K-CORE EXPANSION 7.17	Order Additional Features	CA03201AA	425	\$0.00
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

Order Additional Features

Analog/v.24 Interface Kit

Provides the interface between the MCC 7500 console and ASTRO 25 Conventional (digital) base stations for digital conventional operation. Provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports.

Note the K1 core gateway can support a CCGW, but the K2 core gateways cannot support the CCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AE) is needed for your system configuration, then do not order this option (CA01618AA) under the SQM01SUM0237A model. Order a GGM and the Interface Kit from the GGM 8000 price pages. >

Enhanced Conventional Gateway

The Enhanced Conventional Gateway modules provide increased port density for customers that require additional capacity. Also supported is the ability to directly connect analog audio to an analog logging solution without the use of an audio bridge, and migration to MCC 7500 consoles for customers with existing Centracom Gold consoles.

The Low Density ECCGW provides four (4) V.24 digital ports and four (4) 4-Wire with E&M analog ports. The High Density ECCGW provides eight (8) V.24 digital ports and eight (8) 4-Wire with E&M analog ports.

Note the K1 core gateway can support an ECCGW, but the K2 core gateways cannot support an ECCGW. This option is not compatible with a K2 core.

If Conventional Integrated Data (CA01740AF) is needed for your system configuration, then do

not order options (CA02141AA & CA02086AA) under the SQM01SUM0237A model. Order a GGM with the Enhanced CCGW module from the GGM 8000 price pages.

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00

Add Integrated Data and/or UEM Fault Management

This provides the hardware for the Integrated Data and UEM Fault Management applications listed below.

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AC	425	\$20,000.00

UEM Fault Management

This provides the current release software for the UEM Fault Management.

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00

Optional features to add on to the UEM Fault Manager.

NOTE: The features below require SDM3000 Remote Terminal Units to be ordered and installed at the K-core and RF sites. Refer to the ASTRO Fault Management Ordering Guide for instructions on how to order SDM3000 units.

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00

Conventional Integrated Data

Conventional Integrated Data provides the GGSN, border gateway, a switch, and all associated software.

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AF	405	\$75,450.00

Enhanced GeoSelect

Required for each K-core system when the customer's mapping application uses the Enhanced GeoSelect functionality of the UNS API.

Description	Full Description	Nomenclature	APC	Price
ENH: GEOSELECT	Order Encryption	UA00486AA	877	\$40,000.00

Order Encryption

If encryption is required on the GGM 8000 Gateway, order the CA02087AA option for the Gateway Encryption. If Common Criteria certification is required, also order CA02134AA. The CA02134AA option includes FIPS 140-2 Level 2 Encryption.

The quantities of encryption options must match the number of GGM 8000 gateways in the core configuration. Please see the table below for detailed guidance.

Core Type	Standard Encryption	FIPS 140-2 Level 2 Encryption
K1 (non-redundant)	Qty 1 CA02087AA	Qty 1 CA02087AA Qty 1 CA02134AA
K2 (redundant)	Qty 2 CA02087AA	Qty 2 CA02087AA Qty 2 CA02134AA
K1 + Integrated Data	Qty 3 CA02087AA	Qty 3 CA02087AA Qty 3 CA02134AA
K2 + Integrated Data	Qty 4 CA02087AA	Qty 4 CA02087AA Qty 4 CA02134AA

When these options are ordered, the quantity of the Encryption option (CA02087AA) and Common Criteria (CA02134AA) must be equal.

GGM 8000 Encryption

Description	Full Description	Nomenclature	APC	Price
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ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Data Encryption

If Integrated Data is ordered, and data encryption is required, order the CDEM (CA01749AA) and select the appropriate encryption algorithm(s). Both algorithms may be selected.

Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00

Terminal Server

Choose the following option if a terminal server is required.

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

A Firewall is required if either integrated data or a terminal server is ordered. If a firewall is not already present in the system, a firewall & firewall software are required. The CA02635AA option provides both.

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Choose the following option if a backhaul switch is required. Ethernet Use Only. Non-

redundant (K1) cores should order one (1); redundant (K2) cores should order two (2).

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	Accessories / FRUs	CA01896AB	425	\$2,250.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
ADD: AC POWER	-	CA01616AA	147	\$0.00
FRE: DL380 G9 LC 600 GB DISK	K-Core Application Server and Common Platform Hardware	DLN6977	877	\$14,586.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
IP PACKET CAPTURE EXPANSION	Additional Resources	T8303	877	\$0.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0237	SINGLE ZONE CONV NON-RED CORE	405	19
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**ASTRO® 25 Conventional
K1/K2 Core Upgrade**

Updates

PLEASE NOTE:

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to the policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

To ensure adherence to the Software Support Policy, there is a change to how Upgrades are ordered on the K Core for customers that do not currently have a SMA or SUA Lifecycle contract.

Effective 3/1/17

To get an Upgrade quote, please contact your:
Lifecycle Management Consultant; to quote an upgrade via a one-time or multiyear SUA

It is recommended that all upgrades are performed via a certified path and to a release within the Standard Support Period.

Once you have a quote, then proceed to order the upgrade items listed below.

For more information on the Software Support Policy check here: [Software Support Policy](#)
For more information on the orderability changes check here: [SwSP Orderability Changes](#)

Configuration

[Ordering Guide](#)

Upgrade K Core

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.15 or ASTRO 25 7.16 system to an ASTRO 25 7.17 system. Please be sure to read each step carefully to ensure the factory will correctly build the product.

1. K-Core Upgrade Supermodel

The following supermodel must be ordered for an upgrade for either a K1 or K2 configuration.

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Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

2. Upgrade the K-Core

Choose the following:

Description	Full Description	Nomenclature	APC	Price
ADD: K CORE SOFTWARE UPGRADE	-	CA02257AC	425	\$4,700.00

UPGRADE OPTIONS: Choose the following options to upgrade K-Core features to the latest release.

3. Data

Choose the following option if your existing K Core system uses data. This will provide the current release software for the PDG and GGSN.

Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED DATA UPGRADE	-	CA01888AF	405	\$14,000.00

4. UEM Lite

Choose the following option if your existing K Core system uses UEM Lite. This will provide the current release software for the application.

Description	Full Description	Nomenclature	APC	Price
UEM LITE UPGRADE 7.16 TO 7.17	-	CA03182AA	382	\$2,000.00

5. Application Server

Choose the following option if your existing K Core system has an Application Server.

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER UPGRADE	-	CA03200AA	425	\$2,000.00

This option is for a 7.15 system that already has a DL380 G9 server. When upgrading to 7.17 this options is needed:

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Description	Full Description	Nomenclature	APC	Price
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

6. Terminal Server

Choose the following option if your system uses a terminal server. This provides the current release software for the Terminal Server.

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00

7. Firewall

Choose the following option if your system uses a firewall. This provides the current release software for the Firewall.

Description	Full Description	Nomenclature	APC	Price
FIREWALL UPGRADE	Accessories / FRUs	CA01887AA	425	\$100.00

8. MOSCAD NFM GMC

Use model SQM01SUM0291A (Standalone Fault Management Upgrade) to order a 7.16 MOSCAD upgrade.

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRE: DL380 G9 LC 600	K-Core Application Server and	DLN6977	877	\$14,586.00

GB DISK	Common Platform Hardware			
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
FIXEDSTN	SCB	SQM01SUM0250	K Core Upgrade or Expansion	405	26
CNTLPATH	SCB	T8303	IP PACKET CAPTURE EXPANSION	877	20
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO Intrusion Detection System (IDS) - Juniper-Based Solution

Intrusion Detection System (IDS) is an optional feature that monitors ASTRO® 25 network traffic for potential security threats using signature-based detection and anomaly-based detection. In signature-based detection, the IDS uses its attack-signature database to match the traffic with the predefined attack patterns called signatures. For anomaly-based detections, IDS looks for any irregularities in the protocol used for transferring the data.

The IDS feature collects network traffic from Ethernet switch monitor (aka mirror, SPAN) ports via IDS appliance (SRX1500). The IDS solution can inspect non-encrypted traffic in an IP-IP tunnel. Inspection of encrypted traffic is not supported. If suspicious activity is detected, the IDS appliance will send alerts to the Unified Event Manager (UEM), and syslog to the Centralized Event Logging Server (if present in the system).

The initial offer of IDS (Juniper-Based) solution is targeted towards ASTRO 25 Trunking customers who need a customer-managed IDS solution.

Supported System Releases: A7.17.0; A7.17.3; A7.18; A2019.2 and later

Supported System Configurations: ASTRO® 25 Trunking Systems (M-Core, and Simplified Core)

Updates

IMPORTANT NOTE:

The IDS (Juniper-Based) solution is currently under development.

Orders can now be placed for but ALL orders will go on E3 Hold until D2/D1 is achieved for North America.

Target for D2 (Product Readiness) & NA Regional Ship Acceptance (D1) is the end of Jan 2020.

Ordering Information

To add IDS (Juniper-Based) solution to an ASTRO 25 Trunking System (M-Core) or Simplified Core, please refer to the [IDS Ordering Guide](#).

Configuration

Step 1: Order the IDS Kit (Required)

Description	Full Description	Nomenclature	APC	Price
IDS INTRUSION DETECTION SYSTEM KIT	The IDS kit model includes the IDS Appliance Hardware (SRX1500), certified version of Junos OS software, and the SRX1500 software subscription license for IDS signature updates.	SQM01SUM0327	147	\$40,000.00

Step 2: Select the appropriate system release option (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: IDS (A7.17.0)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.0.	CA03598AA	147	\$0.00
ADD: IDS (A7.17.3)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.3.	CA03598AB	147	\$0.00
ADD: IDS (A7.18)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.18.	CA03598AC	147	\$0.00
ADD: IDS (A2019.X)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A2019.2.	CA03598AD	147	\$0.00

Step 3: Order the Internetworking Firewall (Optional)

Note: Internetworking Firewall is required for "Automatic Signature Updates".

If the customer requires "Automatic Online Signature updates". Then the models below are mandatory and must be ordered.

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00

FORTINET FIREWALL RECOVERY MEDIA	-	T8128	147	\$100.00
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Step 4: Order Misc Items if needed (Optional)

IDS Appliance Recovery Media - This is a CD that contains the certified version of Junos OS used with the IDS Appliance. Note: IDS Kit does contain this software.

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE RECOVERY MEDIA	This model contains certified version of Junos OS used with the IDS Appliance (SRX1500).	T8684	147	\$100.00

IDS Appliance Spare / FRU - If an "IDS Appliance" spare or FRU needs to be order, below is the part number to order.

Note: The IDS Appliance spare only contains the hardware.

The spare unit does not include the following software that is required to enable IDS: Junos OS software, SRX1500 SW subscription license for IDS signature updates, along with the updated ASTRO 25 system software (UEM, UNC, DC).

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE	This model only contains the hardware.	T8668	147	\$10,900.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	SQM01SUM0327	IDS INTRUSION DETECTION SYSTEM KIT	147	14
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY MEDIA	147	32

FIXEDSTN	SCB	T8586	FORTINET FIREWALL APPLIANCE	877	16
FIXEDSTN	SCB	T8668	IDS APPLIANCE	147	35
FIXEDSTN	SCB	T8684	IDS APPLIANCE RECOVERY MEDIA	147	4

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO 25 Release 2019.2

ASTRO 25 MASTER SITE *(Replacement for L-Core and M-Core / SRC 7500)*

New Orders and Expansions

Updates

Ordering Information

Follow the below steps for ordering a complete new Zone for a **ASTRO 25 2019.2 Master Site**, or for expanding an existing Zone. If adding **Dynamic System Resiliency**, skip to the **DSR** section. For further clarification, refer to the **ASTRO 25 Master Site [Ordering Guide](#)**.

The following information must be included before placing the order:

- 1. System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
- 2. Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
- 3. System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
- 4. Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)

IN OMAR (not in COF) USE PTO MODEL 'ASTROMASTERSITE'

Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE	-	SQM01SUM0323	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: NEW ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 48-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 licence each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option	CA03515AA	877	\$220,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 48-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system	CA03516AA	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2019.2 systems	CA03517AB	877	\$0.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY

Order with CA03515AA to enable redundancy on Zone 1. Optional for single zone systems that will not require high availability (HA) options. Mandatory (must order) on Zone 1 for MultiZone systems.

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Options include mounting hardware for all standard core components

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE

Operational Licenses, Trunking

Order applicable license for every standalone RF Site, Simulcast Remote Site and RX-only site in the zone, unless otherwise noted. Trunked Classic Data is included per site when FDMA or TDMA is ordered per site.

Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	-	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-				

P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00

Operational Licenses, Conventional Only

Order per Zone. CA01207AA requires at least one UA00712AA, 8 RF CHANNEL CONVENTIONAL DATA, option.

NOTE: The following are not applicable in Conventional Only systems: UA00149AA (RCM), UA00151AA (Affiliation User Reports), UA00148AA (Dynamic Freq Blocking), UA00140AA (Dynamic Shared Services), UA00134AA (Channel Partitioning), UA00142AA (CADI), UA00145AA (System Historical Reports).

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	-	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone	UA00712AA	877	\$20,000.00
ADD: CONVENTIONAL PORT LICENSES (QTY 25)	-	UA00155AA	877	\$1,000.00

Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone	UA00156AA	877	\$5,000.00

DSR Notification

Description	Full Description	Nomenclature	APC	Price

ADD:DSR NOTIFICATION	Must be ordered when ordering DSR for the first time.	CA01499AB	877	\$10,000.00
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Switches and Routers for Added Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS

User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a	UA00152AA	877	\$7,500.00

	total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM			
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00

OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AD) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Required if the # of Channels + Comparators per site exceeds a total of 10. Formula for qty needed per zone (x = # of objects; y = of sites): $(x/y - 10) * y/10 = \#$ of 10 packs that need to be ordered. Ex: (12 channels per site -10) times 4 sites = 8 divided by 10 = .80 Customer would need to order quantity 1 pack of 10 licenses *Be advised this is just a guide for ordering additional UNC Device	CA01316AA	877	\$500.00

	Licenses. Customer systems are unique in design, and once configured, there may be a need for additional device licenses.			
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPM's, GGM gateways, site controllers.	CA02637AE	877	\$30,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: SYSTEM STATISTICS SERVER	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AG	877	\$60,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	Ordered per Zone. Required per Zone when CA02472AF is ordered. Up to 300 can be ordered per zone (Max of 500 per System). Requires CA02472AF for new Zone Core.	UA00165AA	877	\$5,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price

ADD: HOST BASED CSMS (A2019.X)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AC	877	\$85,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	Required when "Host-Based CSMS" (CA03584AC) is ordered. Must order (1) for each Windows device in system.	UA00726AA	877	\$200.00

Location Services

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00

Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236) with USER LOGIN ALIAS UPDATE (UA00533), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed	UA00700AA	877	\$10,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL	Allows an ASTRO 25 conventional digital system to interoperate with third			

TALKGROUPS VIA ISSI/CSSI	party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.00
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SmartConnect

SmartConnect requires Application Subscription. Refer to [SmartConnect End-to-End Ordering Guide](#) for full solution ordering and deployment details

Personnel Accountability

Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price

page: https://www.motorolasolutions.com/en_us/product-catalog/ref-page-display.html?refPath=/catalog/dup/products/apx_personnel_accountability/apx_personnel_accountability#pro

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	-	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$272.00

OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES

Dynamic Transcoding

Both options are required.

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	-	CA03586AA	877	\$40,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Security

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL	Replaces standard Supplemental Trans Configuration	CA02836AD	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AH	877	\$15,000.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/ Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
QNAP J3455 QUAD CORE BAY DRIVE WITH 4 SEAGATE HDD 64MB	Required when BAR (CA01724AH) is ordered or if Baseline Backup that ships standard will be used. Can be used in place of backing up files to DVD. Useful on systems that require	DSTS453BE4GUS	708	\$1,485.00

	regular backup and offsite storage of BAR data.			
MCAFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

High Availability

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD:CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.00

System Management: Fault Management

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Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.00
SAP CRYSTAL REPORTS 2016	-	DDN3135	708	\$930.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical	UA00138AA	877	\$20,000.00

	assistance			
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

Order the Client Workstation

Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	-	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	-	DSF2B56AA	708	\$172.00
ASTRO 2019.1 CLIENT	-	T8597	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)

STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)

Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	If ordered on any zone, all zones must order DSR (up to six zones max) NOTE: You must order DSR System Notification (CA01499AB) on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

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Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 48-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup For software redundancy also order REDUNDANCY, CA03512AB.	CA03520AA	877	\$250,000.00
ADD: DSR ADD ON ZONE	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 48-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard.	CA03519AA	877	\$460,000.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
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ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPTIONAL LICENSES

If option was ordered for Primary Core, must also be ordered for Backup (DSR) Core.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	-	CA01207AA	877	\$15,000.00
ADD:RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: SYSTEM STATISTICS SERVER	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AG	877	\$60,000.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AH	877	\$15,000.00
ADD: WINDOW SUPPLEMENTAL FULL	Replaces standard Supplemental Trans Configuration	CA02836AD	877	\$0.00
	This option includes the G10 Server, JBOD, and Software			

ADD: HIGH CAPACITY UNC	needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPM's, GGM gateways, site controllers.	CA02637AE	877	\$30,000.00
ADD: DYNAMIC TRANSCODING	-	CA03586AA	877	\$40,000.00
ADD: HOST BASED CSMS (A2019.X)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AC	877	\$85,000.00

Switches and Routers for Added Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)

DL380 G10 Server:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 Servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	061	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	-	T8750	877	\$0.00

4525/4125 Direct Attached Storage:

Description	Full Description	Nomenclature	APC	Price
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FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M"	For 4524 and 4525 DAS models	CKN6975	877	\$130.00

Transport:

Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
48 PORT TERMINAL SERVER	-	CLN8489	147	\$8,000.00

Ship Card

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JUMP TO ...

[ORDERING INFORMATION](#)

[SHIP CARD](#)

Ordering Information

It is highly recommended that detailed information of the system configuration is available before quoting or ordering the ASTRO CAC/PIV Smart Card Authentication feature.

To add or enable CAC/PIV Authentication on ASTRO Infrastructure, please refer to the New Deployment Ordering

Guide: <https://docs.google.com/document/d/1pacplQjGcsG3SezdfFHuLivroxnaGlsC15bAvdX46rs/edit?usp=sharing>

To expand to an existing and operational CAC/PIV PKI Infrastructure, please refer to the Upgrade Ordering

Guide: <https://docs.google.com/document/d/1jmvFq9fpTPvYlyX4tkBp3YMcWEi0nQCUDbjrUVDv3D8/edit?usp=sharing>

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	SHK	DDN2626	SECUGEN ID-USB FINGERPRINT AND SMART CARD READER (FBI CERTIFIED)	424	10
QUOTEDS	SHK	DDN2627	VERIFI USB SMART CARD AND FINGERPRINT READER COMBINATION	424	10
QUOTEDS	SHK	DDN2628	SPYRUS USB ENCRYPTED DRIVE & SUPPORT	424	10
QUOTEDS	SHK	DDN2660	SAFENET NETWORK HSM SYSTEM BUNDLE	424	10
QUOTEDS	SHK	DDN2661	SAFENET NETWORK HSM ADDON HARDWARE	424	60
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
FIXEDSTN	SCB	SQM01SUM0318	ASTRO CAC/PIV AUTHENTICATION BASE KIT	877	25
FIXEDSTN	SCB	T8495	ASTRO CAC/PIV SYSTEM RNI MINIMUM SW KIT	877	20

FIXEDSTN	SCB	T8496	ASTRO CAC/PIV ZONE SOFTWARE KIT	877	20
FIXEDSTN	SCB	T8497	CAC/PIV ROOT CA HOST SOFTWARE KIT	877	20
FIXEDSTN	SCB	T8498	CRL PROXY WORKSTATION SOFTWARE KIT	877	20
FIXEDSTN	SCB	T8499	ASTRO CAC/PIV SOFTWARE KIT FOR KMF	877	20
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15
QUOTEDS	PCW	TT3308	ZBOOK 15 G4 256GB 8GB NON RETURNABL	708	7

JUMP TO ...
[MODEL](#)
[UPDATES](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)

Model

ASTRO 25 Trunking

L-Core Non-Redundant / L-Core Redundant

A7.18 New and Expansion

Updates

Ordering Information

For detailed Ordering Information see [L-Core Ordering Guide New & Expansion 7.18](#)

Configuration

ORDER THE MAIN MODEL

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

CHOOSE NON-REDUNDANT OR REDUNDANT FOR A NEW CORE OR CHOOSE EXPANSION

Both options are required for a Non-Redundant L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AC	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AB	425	\$84,950.00

Both options are required for a Redundant L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: L2 REDUNDANT SW	-	CA02882AC	425	\$231,000.00
ADD: L2 REDUNDANT HW	-	CA03112AB	425	\$103,575.00

This option is required to add options to an existing L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION OFF L CORE CAPABILTIES - FEATURE	-	CA02648AD	425	\$2,000.00

SELECT RACK OR CABINET FOR A NEW CORE

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

SELECT OPTIONAL SYSTEM LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M1	-	CA02834AC	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AE	877	\$11,300.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

SmartConnect

SmartConnect requires Application Subscription per radio device. Refer to [SmartConnect End-to-End Ordering Guide](#) for full solution ordering and deployment details

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.18)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AB	877	\$80,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	This option is required when "Host-Based CSMS" (CA03584AB) is ordered. Must order (1) for each Windows device in the system.	UA00726AA	877	\$200.00

Refer to Ordering Guide if ordering Personnel Accountability. Additional items are needed for a full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Location on Receive and Location on PTT

Option UA00482AA also includes Location on Receive capability, in addition to Location on PTT, for TDMA channels only.

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00

SITE LICENSES

1 FDMA license is included standard. Order additional as needed for each FDMA site

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00

1 TDMA Site License is included standard. Order additional as needed for each TDMA site.
Also order TDMA per channel and Dynamic Dual Mode licenses as needed.

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00

Mandatory: Order Classic Data for every site in the system. One license is included standard.
Optional: Order Enhanced Data per site as needed.

Description	Full Description	Nomenclature	APC	Price
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00
ADD: 700/800 MIXED SITE OPERATION	-	CA01395AA	877	\$15,000.00

CAPACITY LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	-	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	-	UA00223AA	226	\$20,000.00
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	-	UA00156AA	877	\$5,000.00
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	-	UA00664AA	877	\$1,000.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00

User Login Alias Update

Description	Full Description	Nomenclature	APC	Price
ADD: USER LOGIN ALIAS UPDATE	-	UA00533AA	591	\$5,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

OPTIONAL SECURITY

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AG	425	\$20,000.00

HIGH AVAILABILITY

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Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AC	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00

OPTIONAL NETWORK MANAGEMENT APPLICATIONS

1 UNC, 1 Provisioning Manager, and 1 UEM license are already included standard

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: PROVISIONING MANAGER INTERFACE	-	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license	UA00150AA	877	\$15,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: FLEXIBLE ATIA	-	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	-	ZA00103AA	285	\$3,000.00

ADD: CADI SOFTWARE OPTION	-	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00104AA	285	\$12,000.00
ADD: EMAIL ALARM NOTIFICATIONS	-	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	-	UA00139AA	877	\$15,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View license	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports	UA00141AA	877	\$25,000.00

Network Management Client

Description	Full Description	Nomenclature	APC	Price
ASTRO 7.18 CLIENT	-	T8538	877	\$850.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Order Anti Malware

Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	-	CA02193AA	877	\$165.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Master Site Network Management / Zone Controller
ASTRO 25 7.15 Upgrade**

Ordering Information

**NOTE: FOR MORE DETAILS ON OPTIONS AND ORDERABILITY DESCRIPTIONS
PLEASE CHECK THE ORDERING GUIDE:**

[http://compass.mot-
solutions.com/doc/469085800/M_Core_NM_Ordering_Guide_7_15_Upgrade_Orders.doc](http://compass.mot-solutions.com/doc/469085800/M_Core_NM_Ordering_Guide_7_15_Upgrade_Orders.doc)

General Information

For Upgrades:

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.13 or ASTRO 25 7.14 system to an ASTRO 25 7.15 system. If you want to add feature/functionality to an existing 7.15 system please see the New 7.15 ordering guide or ECAT page. If you want to order an ADDITIONAL ZONE for your 7.15 system or add DSR to your existing system, please proceed to the New 7.15 ordering guide or Ecat page. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

Ordering Requirements

The following information must be included on the order for all SQM model numbers:

1. **System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. **Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. **System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

Upgrading to 7.15 System

Step 1: Order the Master Site Upgrade model

Order the upgrade model as separate line items PER ZONE

Description	Full Description	Nomenclature	APC	Price
MASTER SITE CONFIG UPGRADE	This will include one soft copy of the System Manual. If you would like a hardcopy set of the manual documentation, see the FRU section below.	SQM01SUM0239	877	\$0.00

Step 2: Order Master Site hardware for 7.15

IF COMING FROM 7.13 M3/M2 WITH T5220-BASED CORE or if you require the new Fortinet Firewall for your system)

Skip this step if a new 7.13 or 7.14 system was ordered or if the system was upgraded to 7.13 previously (and T5220 Servers were replaced with HP DL380 Servers).

For a spare unit of DAS, please order from the FRU section. If you are ordering this as a complete spare to be used for piece parts, the unit will have to be "de-configured" and then have a procedure created for the field team/CCSI.

M2/M3 First Zone -

Must order quantity 2 of High Capacity servers (DLN6961A), quantity 1 of the DAS 4.8TB Dual SC (T8186), quantity 4 of the SAS cable and quantity 4 of DLN6878A.

Description	Full Description	Nomenclature	APC	Price
NAS EXTENDER CABLE AND PANEL	-	CKN6964	877	\$50.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
DAS 4.8 TB PRIMARY	-	T8186	877	\$24,000.00
FRE: DL380G8 2X2.6GHZ 128GH 3QN 1X3HD WD	-	DLN6961	877	\$20,000.00

DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00
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Must order quantity 1 of the Low Capacity server (DLN6962A), quantity 1 of the High Capacity server (DLN6961A), quantity 1 of the DAS 3TB Dual SC (T8187), quantity 4 of the SAS cable and quantity 4 of DLN6878A.

Description	Full Description	Nomenclature	APC	Price
FRE: DL380G8 1X2.6GHZ 64GH 3QN 1X3HD WD	-	DLN6962	877	\$15,000.00
NAS EXTENDER CABLE AND PANEL	-	CKN6964	877	\$50.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
DAS 3.6 TB ADDITIONAL	-	T8187	877	\$20,500.00
FRE: DL380G8 2X2.6GHZ 128GH 3QN 1X3HD WD	-	DLN6961	877	\$20,000.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

Step 3: Order the Upgrade Software (per zone)

Step 3: Order the Upgrade Software (per zone)

Make sure to order the correct upgrade depending on what release your customer is upgrading from.

For M2/M3 Customers:

Pick the appropriate System Configuration Upgrade option(s). If upgrading M2 or the first zone of a M3 system, the System Upgrade SW option must be purchased.

Description	Full Description	Nomenclature	APC	Price
ADD: UCS UPGRADE SW FOR 7.15- REPLACE	-	CA01747AH	877	\$2,300.00
ADD:SSS UPGRADE SW FOR 7.15 - REPLACE SERVER	-	CA01461AK	877	\$1,400.00
ADD: NM/ZC ZONE UPGRADE SW M2/3 7.13-7.15 REPLACE	-	CA02670AA	877	\$300,000.00

Purchase the requisite operational upgrades per zone.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO FDMA TRUNKING UPGRADE	Order if you purchased the ASTRO 25 with IV&D operational license on the original purchase	CA01577AB	877	\$15,000.00
ADD: ASTRO 25 CONV UPGRD LICENSE	-	CA01579AB	877	\$4,500.00
ADD: 700/800 MIXED SITE UPGRD LICENSE	-	CA01580AB	877	\$4,500.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL FULL CONFIG	Full Element Hardening is an ensemble of Windows OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00

Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15 - REPLACE	-	CA01760AF	877	\$100.00
ADD: FULL BAR UPGRADE 7.15 -				

REPLACE	-	CA01761AJ	877	\$4,500.00
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Step 4: Order the License Key

Upgrades: This Key is required for all upgrades.

Description	Full Description	Nomenclature	APC	Price
ADD: ZONE LEVEL UPGRADE KEY 7.15	-	CA02671AA	877	\$0.00

Step 5: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00
ADD: PDG SOFTWARE UPGRADE CONVENTIONAL IV&D	-	CA02145AC	877	\$14,000.00
ADD: PDG SOFTWARE UPGRADE IV&D	-	CA02143AC	877	\$14,000.00
ADD: EVENT LOGGING 7.15	-	CA01762AM	877	\$7,200.00
ADD: INFOVISTA SW UPG 7.15	-	CA01765AF	877	\$2,000.00
ADD: EVENT LOGGING 7.15- REPLACE	-	CA01762AL	877	\$7,200.00
ADD: PDG SOFTWARE UPGRADE HPD	-	CA02144AC	877	\$15,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.13 OEM TO 7.15 EMB	-	CA02666AA	382	\$12,800.00

Step 6: Order the NM Client Upgrade

Description	Full Description	Nomenclature	APC	Price
A25 RADIO AUTH CLIENT SW UPG 7.15	-	T8141	877	\$5,000.00

ASTRO CLIENT APPL SW UPGR 7.15	-	T8140	877	\$850.00
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Step 7: Order the Upgrade Software (per zone)

Make sure to order the correct upgrade depending on what release your customer is upgrading from.

Description	Full Description	Nomenclature	APC	Price
ADD: NM/ZC ZONE UPGRADE SW 7.13-7.15 M1	-	CA02673AA	877	\$300,000.00
ADD: NM/ZC ZONE UPGRADE SW 7.14-7.15 M1	-	CA02675AA	877	\$150,000.00

For M2/M3 Customers:

Pick the appropriate System Configuration Upgrade option(s). If upgrading a M1, M2, or the first zone of a M3 system, the System Upgrade SW option must be purchased.

Description	Full Description	Nomenclature	APC	Price
ADD:SSS UPGRADE SW FOR 7.15	-	CA01461AJ	877	\$1,400.00
ADD: UCS UPGRADE SW FOR 7.15	-	CA01747AG	877	\$2,300.00
ADD: NM/ZC ZONE UPGRADE SW 7.14-7.15 M2/3	-	CA02674AA	877	\$150,000.00
ADD: NM/ZC ZONE UPGRADE SW 7.13-7.15	-	CA02672AA	877	\$300,000.00

Purchase the requisite operational upgrades per zone:

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO FDMA TRUNKING UPGRADE	Order if you purchased the ASTRO 25 with IV&D operational license on the original purchase	CA01577AB	877	\$15,000.00
ADD: ASTRO 25 CONV	-	CA01579AB	877	\$4,500.00

UPGRD LICENSE				
ADD: 700/800 MIXED SITE UPGRD LICENSE	-	CA01580AB	877	\$4,500.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL FULL CONFIG	Full Element Hardening is an ensemble of Windows OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00

Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15	-	CA01760AG	877	\$100.00
ADD: FULL BAR UPGRADE 7.15 - REPLACE	-	CA01761AJ	877	\$4,500.00

Step 8: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION UPGRADE -	-	CA01561AJ	877	\$3,400.00

7.15				
ADD: PDG SOFTWARE UPGRADE CONVENTIONAL IV&D	-	CA02145AC	877	\$14,000.00
ADD: PDG SOFTWARE UPGRADE IV&D	-	CA02143AC	877	\$14,000.00
ADD: EVENT LOGGING 7.15	-	CA01762AM	877	\$7,200.00
ADD: INFOVISTA SW UPG 7.15	-	CA01765AF	877	\$2,000.00
ADD: PDG SOFTWARE UPGRADE HPD	-	CA02144AC	877	\$15,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02665AA	382	\$12,800.00

Step 9: Order the NM Client Upgrade

Description	Full Description	Nomenclature	APC	Price
A25 RADIO AUTH CLIENT SW UPG 7.15	-	T8141	877	\$5,000.00
ASTRO CLIENT APPL SW UPGR 7.15	-	T8140	877	\$850.00

Step 1: Order the Master Site Upgrade Model

Description	Full Description	Nomenclature	APC	Price
MASTER SITE CONFIG UPGRADE	This will include one soft copy of the System Manual. If you would like a hardcopy set of the manual documentation, see the FRU section below.	SQM01SUM0239	877	\$0.00

Step 2: Order Master Site Hardware for 7.15

Ordering instructions

Skip this step if DSR was ordered new in 7.13 or 7.14

M3 back up core for first zone: if upgrading from 7.11 (any M-CORE) or 7.13 with a T5220-Based Core, order quantity 2 of the High Capacity server and quantity 1 of the DAS 4.8TB Dual SC, quantity 4 of the SAS cable and quantity 4 of the DLN6878A.

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Description	Full Description	Nomenclature	APC	Price
SAS CABLE 1M	-	CKN6952	454	\$96.00
DAS 4.8 TB PRIMARY	-	T8186	877	\$24,000.00
FRE: DL380G8 2X2.6GHZ 128GH 3QN 1X3HD WD	-	DLN6961	877	\$20,000.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

M3 back up core for additional zones – If upgrading from 7.11 (any M-CORE) or 7.13 with a T5220-Based Core, order quantity 1 of the Low Capacity server, quantity 1 of the High Capacity server, quantity 1 of the DAS 4.8TB, Dual SC, quantity 4 of the SAS cable and quantity 4 of the DLN6878A.

Description	Full Description	Nomenclature	APC	Price
FRE: DL380G8 1X2.6GHZ 64GH 3QN 1X3HD WD	-	DLN6962	877	\$15,000.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
DAS 3.6 TB ADDITIONAL	-	T8187	877	\$20,500.00
FRE: DL380p G8 HC 300GB DISK	Used in redundant core configurations. Two per L2, M2, and M3 1st zone and 1 per M3 add-on zone.	DLN6822	280	\$20,000.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

Step 3: Order the Upgrade Software (per zone)

Make sure to order the correct upgrade depending on what release your customer is upgrading from.

Description	Full Description	Nomenclature	APC	Price
ADD: UCS UPGRADE SW FOR 7.15-REPLACE	-	CA01747AH	877	\$2,300.00

ADD: NM/ZC ZONE DSR UPGRADE SW 7.13-7.15 REPLACE	-	CA02679AA	877	\$7,000.00
ADD:SSS UPGRADE SW FOR 7.15 - REPLACE SERVER	-	CA01461AK	877	\$1,400.00

Step 4: Order the License Key for DSR

Upgrades: This is required to be ordered when upgrading DSR back-up Master Site

Description	Full Description	Nomenclature	APC	Price
ADD: ZONE LEVEL UPGRADE KEY 7.15	-	CA02671AA	877	\$0.00

If these optional features are currently on your customers system, the upgrade version is required.

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00
ADD: EVENT LOGGING 7.15- REPLACE	-	CA01762AL	877	\$7,200.00
ADD: INFOVISTA SW UPG 7.15	-	CA01765AF	877	\$2,000.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00
ADD: WINDOWS	Full Element Hardening is an ensemble of Windows			

SUPPLEMENTAL FULL CONFIG	OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
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Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15 - REPLACE	-	CA01760AF	877	\$100.00
ADD: FULL BAR UPGRADE 7.15 - REPLACE	-	CA01761AJ	877	\$4,500.00

Step 5: Order the Upgrade Software (per zone)

Description	Full Description	Nomenclature	APC	Price
ADD: NM/ZC ZONE DSR UPGRADE SW 7.14-7.15 M1	-	CA02678AA	877	\$7,000.00
ADD: NM/ZC ZONE DSR UPGRADE SW 7.14-7.15 M3	-	CA02677AA	877	\$7,000.00
ADD: NM/ZC ZONE DSR UPGRADE SW 7.13-7.15	-	CA02676AA	877	\$7,000.00

Pick the appropriate System Configuration Upgrade option

Description	Full Description	Nomenclature	APC	Price
ADD: UCS UPGRADE SW FOR 7.15	-	CA01747AG	877	\$2,300.00

If you have a SSS, pick the appropriate upgrade option

Description	Full Description	Nomenclature	APC	Price
ADD:SSS UPGRADE SW FOR 7.15	-	CA01461AJ	877	\$1,400.00

Step 6: Additional Licenses for DSR

These are required to be ordered when upgrading DSR back up master site:

Description	Full Description	Nomenclature	APC	Price
ADD: ZONE LEVEL UPGRADE KEY 7.15	-	CA02671AA	877	\$0.00
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00
ADD: EVENT LOGGING 7.15	-	CA01762AM	877	\$7,200.00
ADD: INFOVISTA SW UPG 7.15	-	CA01765AF	877	\$2,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02665AA	382	\$12,800.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL FULL CONFIG	Full Element Hardening is an ensemble of Windows OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00

Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15	-	CA01760AG	877	\$100.00

ADD: FULL BAR UPGRADE 7.15	-	CA01761AK	877	\$4,500.00
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Upgrading an Existing Common Platform Hardware (CPH) Unit

If you have a ZCP syslog server:

Description	Full Description	Nomenclature	APC	Price
ZCP SYSLOG UPGRADE 7.15	-	T8211	877	\$7,200.00

If you have a Domain Controller deployed at a remote console site:

Description	Full Description	Nomenclature	APC	Price
DOMAIN CONTROLLER UPGRADE 7.15	-	T8212	877	\$5,000.00

Accessories and Field Replacement Units (FRU's)

Description	Full Description	Nomenclature	APC	Price
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00
FRE: DL380 G8p LC 600- 600	-	DVN4292	280	\$16,000.00
	This CD contains a document			

CADI OVERVIEW AND USER'S MANUAL	that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRE: DL380p G8 HC 300GB DISK	Used in redundant core configurations. Two per L2, M2, and M3 1st zone and 1 per M3 add-on zone.	DLN6822	280	\$20,000.00
FRE: DL380 G8p LC 300GB DISK	Used in M3 add-on Core (one per add-on zone).	DLN6823	280	\$15,000.00
ASTRO 7.13 DOCUMENTATION DVD	-	CLN8836	454	\$20.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
FRE: DL380p G8 HC NO DISK	Server used in non-redundant core configurations. One per L1 and M1.	DLN6863	280	\$19,500.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	CKN6952	SAS CABLE 1M	454	2
FIXEDSTN	SCB	CKN6964	NAS EXTENDER CABLE AND PANEL	877	45
CNTRLR	SCB	CLN8836	ASTRO 7.13 DOCUMENTATION DVD	454	40
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4

CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
FIXEDSTN	SCB	DLN6691	HP LASERJET PRINTER CP3525DN 220V	424	18
FIXEDSTN	SCB	DLN6692	HP LASERJET PRINTER CP3525DN 110V	877	18
CNTRLR	SCB	DLN6822	FRE: DL380p G8 HC 300GB DISK	280	68
CNTRLR	SCB	DLN6823	FRE: DL380 G8p LC 300GB DISK	280	45
CNTRLR	SCB	DLN6863	FRE: DL380p G8 HC NO DISK	280	45
CNTRLR	CDP	DLN6864	FRU: DL380 G8p POWER SUPPLY	280	6
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTLPATH	SCB	DLN6961	FRE: DL380G8 2X2.6GHZ 128GH 3QN 1X3HD WD	877	45
CNTLPATH	SCB	DLN6962	FRE: DL380G8 1X2.6GHZ 64GH 3QN 1X3HD WD	877	45
CNTRLR	SCB	DVN4292	FRE: DL380 G8p LC 600-600	280	45
CNTRLR	SCB	SQM01SUM0239	MASTER SITE CONFIG UPGRADE	877	10
CNTLPATH	SCB	T8140	ASTRO CLIENT APPL SW UPGR 7.15	877	45
CNTLPATH	SCB	T8141	A25 RADIO AUTH CLIENT SW UPG 7.15	877	45
CNTLPATH	SCB	T8186	DAS 4.8 TB PRIMARY	877	45
CNTLPATH	SCB	T8187	DAS 3.6 TB ADDITIONAL	877	45

CNTLPATH	SCB	T8211	ZCP SYSLOG UPGRADE 7.15	877	45
CNTLPATH	SCB	T8212	DOMAIN CONTROLLER UPGRADE 7.15	877	45

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Master Site Network Management/Zone Controller
ASTRO 25 7.16
-- New Orders --

Ordering Information

Detailed Information on Options

For detailed information and description of orderables options please check the Ordering Guide: [7.16 M-Core New and Expansion Guide](#).

General Information

The ASTRO 25 solution has continued to mature and offer a feature rich solution to provide mission critical voice and multiple data solutions. Motorola will continue to introduce new and expanded functionality.

The first choice to be made on the ordering sequence is what size of a system does the customer desire and what functionality is needed on the system? For example, how many sites do they need? Will it be a voice only system? Does the customer plan to use data applications that require IVD? Is it a conventional only system?

Operational Licenses

The required customer functionality will be ordered as a operational licenses. At least one operational license must be purchased or any combination of them.

ASTRO 25 FDMA Trunking - This license is for a Project 25 FDMA Phase 1 compliant solution. This license supports both P25 Trunking and Conventional Phase 1 CAI voice operation. Analog conventional operation is also supported.

ASTRO 25 Conventional - This license is for an ASTRO 25 Conventional only solution. This license supports Project 25 Conventional voice and/or analog conventional voice.

HPD and Integrated Data - Operational licenses for HPD, Trunked Integrated Data and Conventional Integrated Data are now included in the price of the Data Capabilities options. No separate operational license is required for HPD or Integrated Data.

NOTE: Trunked Integrated Data or Conventional Integrated Data is now Mandatory are all new cores.

P25 Phase 2 TDMA & Dynamic Options - Phase 2 TDMA licenses enable an ASTRO 25 system to operate with the spectrally-efficient Project 25 Phase 2 TDMA air interface. The Phase 2 TDMA licenses can be ordered for select zones, sites and stations that require the 2:1 spectrum-efficient "6.25e" capability. Optional Dynamic capabilities can be added to a

Phase 2 TDMA system to provide further FDMA/TDMA interoperability and grade-of-service enhancements. Those options are: Dynamic Channel Assignment and Dynamic Talkgroup Assignment

Dynamic Channel Assignment provides improved station efficiency and grade of service by enabling dynamic switching between Phase 1 FDMA mode and Phase 2 TDMA mode for a given station based on the needs for the call assigned to the station. Dynamic Channel Assignment can be ordered for select stations as needed.

Dynamic Talkgroup Assignment improves interoperability by seamlessly switching APX subscribers between Phase 1 FDMA and Phase 2 TDMA modes without user intervention depending on the capabilities of the affiliated subscribers. Dynamic Talkgroup Assignment can be ordered for select sites that will be using this functionality.

The combination of these two options provides optimal grade-of-service and efficiency for Phase 1 FDMA/Phase 2 TDMA interoperability. If Dynamic options are purchased, then ASTRO 25 FDMA Site licenses and P25 Phase 2 TDMA Site license are required.

Capacity Licenses

To support the operational functionality required, specific capacity licenses have also been set up. Licenses are available for the following:

- Users - ASTRO 25 FDMA and HPD (does not apply to ASTRO 25 Conventional-only systems)
- Sites - ASTRO 25 Voice, HPD, DDM, SmartX & IPv6
- Channels - ASTRO 25 Conventional only systems
- MCC7500/MCC7100 console positions
- Refer to the ordering section below for further detail on the user, site and console license options.

For further detail related to features and functionality, please visit the links below:

[ASTRO 7.16 System Planner](#)

Field Replaceable Units (FRUs)

Field replaceable units (FRUs) are orderable via the accessory numbers shown below.

Ordering Requirements

These pages will lead you through the necessary steps required to order your new ASTRO 25 7.16 system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The following information must be included before placing the order:

1. **System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. **Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. **System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has

intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).

4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

NOTE: Software licenses are automatically generated based on the System, Zone and System Extension ID provided on the order. **It is critical that valid information is entered on the order, otherwise software licenses will fail to install.**

Please verify ID information using the following guidelines before submitting an order.

- **New System:** Follow the Trunked Data Repository (TDR) process to request a new System ID (<http://tdr.corp.mot.com/TDRPRD/>). System Extension ID should always be set to 0000 except for rare cases when the same System ID is shared across multiple customer systems.
- **Existing System:** Login to the License Manager application from an NM Client Workstation and locate the Device ID at the bottom right of the screen. The Device ID will be in the following format: System ID - Zone ID - System Extension ID - xxxx -xxxx -xxxxxxxxxxx
- *For example, Device ID 09FF-0003-0000-0001-9283-130493454762 corresponds to System ID 09FF, Zone ID 0003, and System Extension ID 0000.*

System level licenses must always be ordered on the same Zone as the User Configuration Server (UCS) with Unified Network Configurator (UNC) & Provisioning Manager (PM).

When ordering a DSR backup core, a duplicate software license file will be automatically generated based on the primary core with matching System, Zone and System Extension ID. Software licenses do not need to be re-ordered on the DSR backup core unless explicitly noted in the DSR ordering instructions.

If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

Configuration

Ordering Your Zone

Step 1: Order the Master Site Model (Required)

Description	Full Description	Nomenclature	APC	Price
MASTER SITE CONFIGURATION	-	SQM01SUM0273	877	\$0.00

Step 2a: Order the Required Configuration

For a new zone, choose a M1, M2 or M3 Configuration. For expansions/add-ons choose the M Expansion option.

M1 Configuration (24 sites or less)

Description	Full Description	Nomenclature	APC	Price
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network Managment Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.	UA00237AA	877	\$40,000.00
ADD: M1 SYSTEM (24 SITES OR LESS)	-	CA02830AA	877	\$66,280.00

M2 Configuration (24 sites or less)

Description	Full Description	Nomenclature	APC	Price
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network Managment Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.	UA00237AA	877	\$40,000.00
ADD: M2 SYSTEM WITH				

REDUNDANCY	-	CA02831AA	877	\$136,280.00
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M3 Configuration (25-100 sites)

Description	Full Description	Nomenclature	APC	Price
ADD: M3 SYSTEM (1-150 SITES)-1ST ZONE	-	CA02832AA	877	\$206,280.00
ADD: M3 SYSTEM (1-150 SITES)-ADDTL ZONE	-	CA02833AA	877	\$146,280.00

M Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.16 M CORE	Use this option to expand an existing 7.16 zone. Order this along with the additional capabilities being added to the system.	CA02629AB	877	\$0.00

Step 2b: Required for New Trunking Cores Only

Description	Full Description	Nomenclature	APC	Price
ADD: INTEROPERABILITY ENABLEMENT 7.16	<p>This is a mandatory option for Trunking Zone Level operation only. If selecting CA01207AA - ASTRO 25 Conventional, this is optional.</p> <p>CA02950AA includes virtualized ISGW application, a Fortinet Firewall and an Enablement Server that resides in the CEN. The ISGW application is virtualized on the M-Core Servers. Roaming licenses are NOT included for ISSI.</p> <p>WAVE trial licenses are loaded on the Enablement Server. If your customer wants WAVE, see the WAVE ordering guide for additional ordering instructions. If</p>	CA02950AA	877	\$40,000.00

	ordered, UNS can also cohab on the Enablement server. Firewall is used for WAVE and ISSI.			
ADD: NM/ZC CABINET	Only valid for M1/M2. M3 ships standard with cabinet.	CA02839AA	877	\$3,000.00
ADD: NM/ZC RACK	Only valid for M1/M2. M3 ships standard with cabinet.	CA02838AA	877	\$0.00

Step 3: Order the Zone Level Operational Licenses

If you desire voice capability, at least one operational license must be purchased per zone. Data site licenses are now a part of the G-series ordering guide.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	<p>This license is for a Project 25 Phase 1 compliant conventional only solution. This license supports both voice and integrated data. Analog conventional is also supported.</p> <p>NOTE: The following applications are not applicable in ASTRO 25 Conventional</p> <p>Only systems: RCM, Affiliation User Reports, Dynamic Freq Blocking, Dynamic Shared Services, Channel Partitioning, CADI and System Historical Reports.</p>	CA01207AA	877	\$15,000.00
ADD: PHASE 2 TDMA TRKG OP ZONE LIC	-	UA00158AA	877	\$25,000.00
ADD: ASTRO 25 FDMA	<p>ASTRO 25 FDMA TRKG OPERATION This license is for a Project 25 Phase 1 compliant trunking solution. This license also supports ASTRO 25 Conventional voice operation and Analog Conventional. This is not required for a conventional only operation or for TDMA-only systems. It is required if a system is</p>			

TRKG OPERATION	operating with the combination of TDMA and Dynamic Dual Mode (Dynamic Talkgroup Assignment and/or Dynamic Channel Assignment) because Dynamic Dual Mode utilizes both TDMA and FDMA modes of operation. No longer includes IV&D Operation. See the Trunked Integrated Data License below.	CA02113AA	877	\$35,000.00
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Order Dynamic Transcoding capabilities for your zone

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls Two servers are included with this option.	CA02919AA	877	\$40,000.00
ADD: DYNAMIC TRANSCODER	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls One server is needed for Dynamic Transcoding, which ships as standard on L1/M1. ISSI8000 and Dynamic Transcoding cohab on this server.	CA02834AA	877	\$20,000.00
ADD: DYNAMIC TRANSCODER M3	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls Two servers are included with this option.	CA02920AA	877	\$45,000.00

Order data capabilities for your zone

Description	Full Description	Nomenclature	APC	Price
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ADD:HIGH PERFORMANCE DATA	-	CA02082AD	222	\$113,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA02080AD	222	\$83,000.00
8 RF CHANNEL LICENSE	Conventional Integrated Data can support up to the 510 channels, where a channel is defined as a conventional repeater channel or a conventional simulcast, voting, or multicast channel.	CA01534AA	222	\$20,000.00
ADD:TRUNKED INTEGRATED DATA	-	CA02081AD	222	\$114,000.00

Choose all optional capabilities that apply for your zone

Description	Full Description	Nomenclature	APC	Price
ADD:EVENT LOGGING 7.16	-	CA01725AE	877	\$12,000.00
IPV6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPV6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00

700/800 mixed site operation is not required. If ordered, you must order it per zone.

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.	CA01395AA	877	\$15,000.00

Order High Availability capabilities at the master site (this is not applicable to High Availability Simulcast sites, either prime or remote). This option is utilized to enable your system/1st zone and your add-on zone for High Availability services (such as HA Data). Requires a redundant system configuration, i.e. not applicable to M1.

NOTE: This option does not include additional CNI (Customer Network Interface) equipment, such as, firewalls, border routers, switches, etc., or additional GGSN units.

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00

If you have chosen to order High Availability capabilities you can now choose the services you would like to deploy in a High Availability configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ENH: HA HIGH PERFORMANCE DATA	Provides High Availability for the HPD PDG.	CA02396AA	222	\$53,000.00
ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ENH: HA TRUNKED DATA	Provides High Availability for the Trunked Integrated Data PDG. Option comes with	CA02397AA	222	\$59,000.00

	Enhanced Integrated Data capability.			
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Choose one of the two backup solutions below:

Baseline backup will backup only the Network Management Database and the Zone Controllers, Full backup solution will back up critical files form other system elements to allow for a more rapid recovery if a complete box failure occurs. For a full list of system devlices that are covered by the full back up soltuion, consult the BAR manual.

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK UP 7.16	-	CA01723AE	877	\$500.00
ADD: BACK UP & RECOVERY (BAR) 7.16	-	CA01724AE	877	\$15,000.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD:WINDOW SUPPLEMENTAL FULLCONFIG 7.16	-	CA02836AA	877	\$0.00
ADD:WINDOW SUPPLEMENTAL TRANSCONFIG 7.16	-	CA02835AA	877	\$0.00

Step 4: Order the System Level Options

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00
ADD: FORTINET FIREWALL MANAGER 7.16	-	CA02638AB	877	\$9,000.00

ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00
ADD: DSR SYSTEM NOTIFICATION	This license provides notification to the license keys that the system/zones include DSR. This option is valid for adding Full DSR to an M1 or M3 System. NOTE: You must order CA01499AA when ordering DSR for the first time.	CA01499AA	877	\$10,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AC	877	\$11,300.00
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00

If ordering Two-Factor Authentication, order as a separate line item

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	-	DDN1933	708	\$560.00
	(For A7.15 and			

FORTITOKENMOBILE - PACK OF 5 SOFT-T	beyond)Internet and SMS capabilities (iOS or Android smartphone/tablet) are required to activate token. The RNI-DMZ firewall must have internet connectivity, Email/SMS server settings will need to be configured for token provisioning.	DDN1881	708	\$272.00
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Step 5: Order the Associated Capacity Licenses

IMPORTANT NOTE: Every RF site or simulcast sub-site (INCLUDING receive-only sites) will count as ONE site. It is important that the site count is accurate so that the customer will receive the proper number of managed object licenses. Quote the capacity licenses required remembering that as the system grows new licenses can be purchased. Do not quote an unnecessary high number of licenses up front. Capacity licenses for Integrated Data are now ordered with the GTR8000 Site Subsystem site controller.

Order the number of site licenses needed for your Trunking zone. For Trunking systems, you must order at least one of these (required).

Description	Full Description	Nomenclature	APC	Price
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y	CA01316AA	877	\$500.00
ADD: HPD SITE	-	UA00154AA	877	\$8,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00

ADD: IPV6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00

of objects = x

of sites = y

If $x/y < 10$ = No further action is required

If $x/y > 10$ = Additional UNC device licenses need to be ordered

Formula used to determine how many packs need to be ordered: $(x/y - 10) y / 10 = \#$ of 10 packs that need to be ordered

Ex:(12 channels per site -10) times 4 sites = 8 divided by 10 = .80

Customer would need to order 1 qty. pack of 10

*Please be advised this is guide for ordering additional UNC Device Licenses. Customer systems are unique in design, and once configured, there may be a need for additional device licenses.

Order the console licenses for your Trunking Zone.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

P25 Phase 2 TDMA Base Radio Licenses (Required if ordering Phase 2 TDMA)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00

Dynamic Transcoded Calls

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Conventional Talkgroup via CSSI per Base Radio License

Order the number of Trunking Radio and HPD User licenses needed for your system.

For single zone systems, the sum of radio IDs below cannot exceed 64,000. For multi-zone systems, the sum of the radio IDs below cannot exceed 128,000.

A radio ID is defined as an ID with or without an associated alias in the UCS. One physical radio can have multiple radio ids:

Home trunking radio IDs.

Interoperability trunking radio IDs

digital conventional radio IDs.

MDC1200 radio IDs.

MCC 7100 / MCC 7500consoles that access trunking resources .

MCC 7100 / MCC 7500consoles that access digital conventional resource

MCC 7100 / MCC 7500consoles that access MDC1200 resource

HPD radio IDs

From the above list only trunking and data user licenses have a fee but all radio IDs are counted towards the system limits.

If your system has 40,000 radio users each with a trunking radio IDs and digital conventional

radio IDs, you will need to purchase qty 80 of UA00152AA option (there are no user licenses required for conventional radio IDs). The system database will see a total of 80,000 ids (requiring a M3 multizone system). Any interoperability users belonging to a neighboring ASTRO 25 system, will count towards this database capacity, additional user licenses may be needed for those users.

Note: User license fees apply only to trunked radio IDs and HPD radio IDs as detailed in the options below.

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 HPD USER LICENSES	-	UA00157AA	877	\$10,000.00
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00

Order the number of capacity licenses needed for Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

Order the number of capacity licenses needed for your ASTRO 25 Conventional only zone. For ASTRO 25 Conventional only systems, you must order at least one of these.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y	CA01316AA	877	\$500.00
ADD: CONVENTIONAL PORT LICENSES (QTY 25)	-	UA00155AA	877	\$1,000.00

of objects = x

of sites = y

If $x/y < 10$ = No further action is required

If $x/y > 10$ = Additional UNC device licenses need to be ordered

Formula used to determine how many packs need to be ordered: $(x/y - 10) y / 10 = \# \text{ of } 10 \text{ packs that need to be ordered}$

Ex: (12 channels per site -10) times 4 sites = 8 divided by 10 = .80

Customer would need to order 1 qty. pack of 10

*Please be advised this is guide for ordering additional UNC Device Licenses. Customer systems are unique in design, and once configured, there may be a need for additional device licenses.

Step 6: Order the Required System Management Application User Licenses

Description	Full Description	Nomenclature	APC	Price
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ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
ADD: HIGH CAPACITY UNC 7.16	-	CA02637AB	877	\$25,000.00
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00

Step 7: Order the Required Zone Management Application User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00

Step 8: Enhance your Network Management Capabilities

The following options enhance the capability of the Fault Management applications.

Description	Full Description	Nomenclature	APC	Price
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ENH: NBI TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00992AA	285	\$12,000.00
ADD: UEM ENHANCED NAVIGATION	Order one per zone	UA00225AA	877	\$50,000.00
ADD: MICROWAVE MAP AND SEGMENT VIEW	Order one per zone.	UA00226AA	877	\$12,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00

Optional Configuration Features:

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC FREQUENCY				

BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
ADD:CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00

Optional Accounting and Performance Features:

Description	Full Description	Nomenclature	APC	Price
ENH: TECHNICAL	This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order			

ASSISTANCE, FORTY HRS	<p>can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance.</p> <p>Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	ZA00104AA	285	\$12,000.00
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	<p>This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance.</p> <p>Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	ZA00103AA	285	\$3,000.00
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00
ADD: AFFLIATION USER				

RPTS	-	UA00151AA	877	\$7,000.00
ADD: ZONE HISTORICAL RPTS	-	UA00144AA	877	\$5,000.00
ADD: DYNAMIC REPORTS	-	UA00150AA	877	\$15,000.00
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: INFOVISTA 7.16	-	CA01989AD	877	\$153,000.00

Step 9: Order the NM Client

Order the Personal Computer (PC) workstations that serve as the client terminal. The mouse and keyboard are included but the PC hardware and monitor are sold separately; please be sure to include all items when ordering.

Certified Network Management Workstation Statement

Description	Full Description	Nomenclature	APC	Price
ASTRO CLIENT APPL SW 7.16	-	T8206	877	\$850.00
ASTRO 7.16 RADIO AUTHENTICATION CLIENT SOFTWARE	-	T8205	877	\$5,000.00

Step 10: Order the Anti Malware

Order 1 for each Windows/Linux based device in the system that will be managed by the AntiMalware server. Note that the Anti-Malware client is a license and software is included. The T model listed below is another copy of the software for products that do not embed Anti Malware in their server. It does not need to also be ordered if you are ordering a Master Site system.

Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS	CA02193AA	877	\$165.00

	and MOSCAD NFM devices that DO NOT embed McAfee.			
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00

Step 11: Custom Reports (Optional)

Description	Full Description	Nomenclature	APC	Price
CRYSTAL REPORTS	Works in conjunction with Historical Reports application to allow users to modify existing report templates or create new templates according to their specific requirements.	DDN9657	708	\$994.00

Step 12: Order the Monitor, Mouse, Keyboard

Order the monitors and peripherals for your Network Management clients. The monitor, keyboard and mouse may also be ordered for use with the Transport Network Performance Server.

Description	Full Description	Nomenclature	APC	Price
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3226A	708	\$30.00

Step 13: Common Platform Hardware

Order this common platform hardware if a separate remote Domain Controller or ZCP Logging functionality is required. This is only applicable if you are ordering Zone Core Protection (part of IA ordering guide/ECAT page) and Event Logging (CA01725AE)

Description	Full Description	Nomenclature	APC	Price
ADD: COMMON PLATFORM HW 7.16	-	CA03189AA	877	\$20,000.00

Choose one of these options:

Description	Full Description	Nomenclature	APC	Price
ADD: DC STANDALONE 7.16	-	CA03190AA	877	\$0.00
ADD: ZCP SYSLOP 7.16	-	CA03191AA	877	\$11,052.00

Only required when ordering DC Stand Alone. Choose either transparent OR full configuration per customers system. One must be ordered per Windows OS.

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL FULL CONFIG	Full Element Hardening is an ensemble of Windows OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00

System Expansions

When ordering a System Expansion, the M Expansion option is needed. The following options only contain software.

Description	Full Description	Nomenclature	APC	Price
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network	UA00237AA	877	\$40,000.00

	Management Sites, CCGWs, ISSI.1 Gateway, or SmartX Converter. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.			
ADD:M2-M3 CORE EXPANSION	-	CA02682AA	877	\$68,000.00
ADD:M2-M3 CORE EXPANSION ADDITIONAL ZONE	-	CA02683AA	877	\$10,000.00
ENH: L TO M MIGRATION	-	CA02606AA	425	\$150,000.00

Ordering Additional Zones

When ordering additional zones, skip steps 4,6 and 10.

You may now choose to add the optional System Statistics Server and System Historical Reports

Note: SSS is only available for M3 Multi-zone **Trunking** Customers only

Description	Full Description	Nomenclature	APC	Price
ADD: SYSTEM STATISTICAL SERVER	-	CA01416AD	877	\$40,000.00
ADD: SYSTEM HISTORICAL REPORTS	-	UA00145AA	877	\$10,000.00

Ordering Dynamic System Resilience (DSR)

This section will lead you through the necessary steps required to order your ASTRO 25 7.13 DSR feature. Please be sure to read each step carefully and supply the personality information required to assure the factory will correctly build the product.

NOTE: You are required to order DSR System Notification option (CA01499AA) with your main core the first time you order DSR.

The following information must be included on the order:

1. System ID. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Enhancements to existing systems will use the

existing System ID.

2. Zone ID. This is a three digit number used to identify each zone in a system and is used by the factory to consolidate the equipment for each zone.

If Adding M1 or M3 DSR, follow steps 1-3

Step 1: Order M1/M3 with Full DSR

Description	Full Description	Nomenclature	APC	Price
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network Management Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.	UA00237AA	877	\$40,000.00
DSR VOICE	-	CA01511AA	877	\$0.00
ADD: M3 ADDITIONAL ZONE DSR 7.16	-	CA02847AA	877	\$146,280.00
ADD: M3 1ST ZONE DSR 7.16	-	CA02846AA	877	\$206,280.00
ADD: NM/ZC CABINET	Only valid for M1/M2. M3 ships standard with cabinet.	CA02839AA	877	\$3,000.00
DSR DATA	If you utilize data on your system, you must first order this option. Not valid for M1 systems with Voice-only DSR	CA01512AA	877	\$0.00
ADD: M1 ZONE DSR 7.16	-	CA02845AA	877	\$66,280.00

ADD: NM/ZC RACK	Only valid for M1/M2. M3 ships standard with cabinet.	CA02838AA	877	\$0.00
DYNAMIC SYSTEM RESILIENCE	If ordered on any zone, all zones must order DSR functionality (up to six zones maximum)	SQM01SUM0231	877	\$20,000.00

Step 2: Order System Level Licenses

If these were ordered in your primary system, they must be ordered in your secondary.

Description	Full Description	Nomenclature	APC	Price
ADD: SYSTEM STATISTICAL SERVER	-	CA01416AD	877	\$40,000.00
ADD: DSR MULTI-ZONE OPERATIONAL LICENSE	-	CA01513AA	877	\$75,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AC	877	\$11,300.00

You may now choose to order Infovista. It is not required to order this even if it exists in your primary system.

Description	Full Description	Nomenclature	APC	Price
ADD: INFOVISTA 7.16	-	CA01989AD	877	\$153,000.00

Step 3: Order Zone Level Licenses

If these were ordered in your primary master site, they must be ordered in your secondary master site.

Description	Full Description	Nomenclature	APC	Price
ADD: DSR CAPABILITY CONVENTIONAL INTEGRATED DATA	-	CA02631AB	222	\$45,000.00
ADD:EVENT LOGGING 7.16	-	CA01725AE	877	\$12,000.00
	Required to transcode audio at the zone level			

ADD: DYNAMIC TRANSCODER M2/L2	when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls Two servers are included with this option.	CA02919AA	877	\$40,000.00
ADD:DSR CAPABILITY TRKD INT DATA	-	CA02077AD	222	\$59,000.00
ADD: DYNAMIC TRANSCODER	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls One server is needed for Dynamic Transcoding, which ships as standard on L1/M1. ISSI8000 and Dynamic Transcoding cohab on this server.	CA02834AA	877	\$20,000.00
ADD:DSR CAPABILITY HPD	-	CA02398AC	222	\$53,000.00
ADD: DYNAMIC TRANSCODER M3	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls Two servers are included with this option.	CA02920AA	877	\$45,000.00

Order High Availability capabilities at the master site (this is not applicable to High Availability Simulcast sites, either Prime or remote). This option is utilized to enable your secondary

master site for High Availability services (such as HA Data). If this was ordered in your primary master site, it must be ordered in your secondary master site. Not Valid for M1 DSR

NOTE: This option does not include additional CNI (Customer Network Interface) equipment, such as, firewalls, border routers, switches, etc., or additional GGSN units.

Description	Full Description	Nomenclature	APC	Price
ADD: DSR CAPABILITY CONVENTIONAL INTEGRATED DATA	-	CA02631AB	222	\$45,000.00

If these were ordered in your primary master site, they must be ordered in your secondary master site. Not Valid for M1 DSR

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOWS SUPPLEMENTAL FULL CONFIG	Full Element Hardening is an ensemble of Windows OS configuration settings that implement a higher level of security.	CA01472AA	877	\$0.00
ENH: HA HIGH PERFORMANCE DATA	Provides High Availability for the HPD PDG.	CA02396AA	222	\$53,000.00
ADD: BASELINE BACK UP 7.16	-	CA01723AE	877	\$500.00
ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ADD: WINDOWS SUPPLEMENTAL TRANS CONFIG	Transparent Element Hardening includes an ensemble of Windows OS configuration settings that implement good security practices, but do not harden the Windows computers to the extent required for system FISMA certification.	CA01471AA	877	\$0.00
ADD: BACK UP & RECOVERY (BAR) 7.16	-	CA01724AE	877	\$15,000.00
	Provides High Availability for			

ENH: HA TRUNKED DATA	the Trunked Integrated Data PDG. Option comes with Enhanced Integrated Data capability.	CA02397AA	222	\$59,000.00
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Accessories

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00

FRE: DL380 G9 HC NO DISK	High Capacity UNC server	DLN6974	877	\$23,405.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRE: DL380 G9 LC 600 GB DISK	K-Core Application Server and Common Platform Hardware	DLN6977	877	\$14,586.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 &	280	4

			BEYOND		
QUOTEDS	FTI	DDN1881	FORTITOKENMOBILE - PACK OF 5 SOFT-T	708	20
QUOTEDS	FNT	DDN1933	PURCHASED SOFTWARE,FORTITOKEN PACK	708	20
QUOTEDS	PCW	DDN9657	CRYSTAL REPORTS	708	10
CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
FIXEDSTN	SCB	DLN6691	HP LASERJET PRINTER CP3525DN 220V	424	18
FIXEDSTN	SCB	DLN6692	HP LASERJET PRINTER CP3525DN 110V	877	18
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15

CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
QUOTEDS	CDZ	L3225A	CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	708	7
QUOTEDS	PCW	L3226A	CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	708	7
CNTLPATH	SCB	SQM01SUM0231	DYNAMIC SYSTEM RESILIENCE	877	30
FIXEDSTN	SCB	SQM01SUM0273	MASTER SITE CONFIGURATION	877	20
CNTRLR	SCB	T7885	MCAFFEE WINDOWS AV CLIENT	708	21
CNTLPATH	SCB	T8205	ASTRO 7.16 RADIO AUTHENTICATION CLIENT SOFTWARE	877	6
CNTLPATH	SCB	T8206	ASTRO CLIENT APPL SW 7.16	877	8

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Master Site Network Management / Zone Controller
ASTRO 25 7.16 Upgrade

Updates

NOTE: FOR MORE DETAILS ON OPTIONS AND ORDERABILITY DESCRIPTIONS PLEASE CHECK THE ORDERING GUIDE: [7.16 M-Core Upgrade Ordering Guide](#).

Ordering Information

General Information

For Upgrades:

These pages will lead you through the necessary steps to upgrade your ASTRO 25 7.14 or ASTRO 25 7.15 system to an ASTRO 25 7.16 system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

**Please note the changes to the NM/ZC upgrade options and prices. There are now two NM/ZC upgrade options for systems upgrading either from 7.14 to 7.16, or from 7.15 to 7.16.

Ordering Requirements

The following information must be included on the order for all SQM model numbers:

1. **System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. **Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. **System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

Upgrading your System

REQUIRED UPGRADES FOR ALL SYSTEMS:

Step 1: Order the Master Site Upgrade model

Description	Full Description	Nomenclature	APC	Price
MASTER SITE UPGRADE MODEL	-	SQM01SUM0288	877	\$0.00
ADD: UPGRADE TO 7.16	-	CA02901AA	877	\$0.00

Step 2: Order the Software Upgrade (per zone)

Make sure to order the correct upgrade depending on what release your customer is upgrading from.

Description	Full Description	Nomenclature	APC	Price
ENH: ZONE UPG SOFTWARE FOR 7.15-7.16	-	CA02898AA	877	\$150,000.00
ENH: ZONE UPG SOFTWARE FOR 7.14-7.16	-	CA02897AA	877	\$300,000.00

Order 1 per System. If upgrading M1, M2 or the Primary M3 Zone, the System Upgrade SW option CA01747AJ must be purchased.

Description	Full Description	Nomenclature	APC	Price
ADD: UCS UPGRADE SW FOR 7.16	-	CA01747AJ	877	\$2,300.00
ADD:SSS UPGRADE SW FOR 7.15	-	CA01461AL	877	\$1,400.00

Purchase the requisite operational upgrades per zone.

Description	Full Description	Nomenclature	APC	Price
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ADD: 700/800 MIXED SITE UPGRD LICENSE	-	CA01580AB	877	\$4,500.00
ADD: ASTRO 25 CONV UPGRD LICENSE	-	CA01579AB	877	\$4,500.00
ADD: ASTRO FDMA TRUNKING UPGRADE	Order if you purchased the ASTRO 25 with IV&D operational license on the original purchase	CA01577AB	877	\$15,000.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD:WINDOW SUPPLEMENTAL FUL LCONFIG 7.16	-	CA02836AA	877	\$0.00
ADD:WINDOW SUPPLEMENTAL TRANS CONFIG 7.16	-	CA02835AA	877	\$0.00

Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15	-	CA01760AH	877	\$100.00
ADD: FULL BAR UPGRADE 7.16	-	CA01761AL	877	\$4,500.00

Step 3: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: EVENT LOGGING 7.16	-	CA01762AN	877	\$7,200.00
ADD: PDG SOFTWARE UPGRADE CONVENTIONAL IV&D	-	CA02145AD	877	\$14,000.00

ADD: INFOVISTA SW UPG 7.16	-	CA01765AG	877	\$2,000.00
ADD: NORTHBOUND INTERFACE UPGRADE	-	CA02910AA	877	\$5,000.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14_15 TO.16	-	CA02908AA	382	\$12,800.00
ADD: PDG SOFTWARE UPGRADE IV&D	-	CA02143AD	877	\$14,000.00
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00
ADD: PDG SOFTWARE UPGRADE HPD	-	CA02144AD	877	\$15,000.00

Step 3: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: EVENT LOGGING 7.16	-	CA01762AN	877	\$7,200.00
ADD: PDG SOFTWARE UPGRADE CONVENTIONAL IV&D	-	CA02145AD	877	\$14,000.00
ADD: INFOVISTA SW UPG 7.16	-	CA01765AG	877	\$2,000.00
ADD: NORTHBOUND INTERFACE UPGRADE	-	CA02910AA	877	\$5,000.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14_15 TO.16	-	CA02908AA	382	\$12,800.00
ADD: PDG SOFTWARE UPGRADE IV&D	-	CA02143AD	877	\$14,000.00
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00
ADD: PDG SOFTWARE UPGRADE HPD	-	CA02144AD	877	\$15,000.00

Step 4: Order the NM Client Upgrade

Description	Full Description	Nomenclature	APC	Price
ASTRO CLIENT APPL SW UPGR 7.16	-	T8270	877	\$850.00
A25 RADIO AUTH CLIENT SW UPG 7.16	-	T8271	877	\$5,000.00

Upgrading your DSR System

REQUIRED UPGRADES FOR ALL SYSTEMS:

Step 1: Order the Master Site Upgrade model

Order the upgrade model as separate line items PER ZONE

Description	Full Description	Nomenclature	APC	Price
MASTER SITE UPGRADE MODEL	-	SQM01SUM0288	877	\$0.00
ADD: UPGRADE TO 7.16	-	CA02901AA	877	\$0.00

Step 2: Order the Software Upgrade (per zone)

Make sure to order the correct upgrade depending on what release your customer is upgrading from.

Description	Full Description	Nomenclature	APC	Price
ENH: DSR UPG SW 7.14-7.16	-	CA02899AA	877	\$7,000.00
ENH: DSR UPG SW 7.15-7.16	-	CA02900AA	877	\$7,000.00

Pick the appropriate System Configuration Upgrade Option.

Description	Full Description	Nomenclature	APC	Price
ADD: UCS UPGRADE SW FOR 7.16	-	CA01747AJ	877	\$2,300.00
ADD:SSS UPGRADE SW FOR 7.15	-	CA01461AL	877	\$1,400.00

Choose either transparent OR full configuration per customers system.

Description	Full Description	Nomenclature	APC	Price
ADD:WINDOW SUPPLEMENTAL FULLCONFIG 7.16	-	CA02836AA	877	\$0.00
ADD:WINDOW SUPPLEMENTAL TRANS CONFIG 7.16	-	CA02835AA	877	\$0.00

Choose one of the following back up upgrade options:

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK-UP UPGRADE 7.15	-	CA01760AH	877	\$100.00
ADD: FULL BAR UPGRADE 7.16	-	CA01761AL	877	\$4,500.00

Step 3: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: EVENT LOGGING 7.16	-	CA01762AN	877	\$7,200.00
ADD: INFOVISTA SW UPG 7.16	-	CA01765AG	877	\$2,000.00
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00

Step 3: Order the Optional Features Upgrades

If these optional features are currently on your customers system, the upgrade version is required. Please make sure to check that you are ordering the correct upgrade.

Description	Full Description	Nomenclature	APC	Price
ADD: EVENT LOGGING 7.16	-	CA01762AN	877	\$7,200.00

ADD: INFOVISTA SW UPG 7.16	-	CA01765AG	877	\$2,000.00
ADD: RADIO AUTHENTICATION UPGRADE - 7.15	-	CA01561AJ	877	\$3,400.00

Step 4: Upgrade an Existing Common Platform Hardware

Description	Full Description	Nomenclature	APC	Price
ZCP SYSLOG UPGRADE 7.16	-	T8272	877	\$7,200.00
DOMAIN CONTROLLER UPGRADE 7.16	-	T8273	877	\$5,000.00

Accessories and Field Replacement Units (FRU's)

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00

DAS POWER SUPPLY	-	DLN6867	280	\$665.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRE: DL380 G9 LC 600 GB DISK	K-Core Application Server and Common Platform Hardware	DLN6977	877	\$14,586.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre- sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRE: DL380 G9 HC NO DISK	High Capacity UNC server	DLN6974	877	\$23,405.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
FIXEDSTN	SCB	DLN6691	HP LASERJET PRINTER CP3525DN 220V	424	18
FIXEDSTN	SCB	DLN6692	HP LASERJET PRINTER CP3525DN 110V	877	18
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45

CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
CNTLPATH	SCB	SQM01SUM0288	MASTER SITE UPGRADE MODEL	877	17
CNTLPATH	SCB	T8270	ASTRO CLIENT APPL SW UPGR 7.16	877	45
CNTLPATH	SCB	T8271	A25 RADIO AUTH CLIENT SW UPG 7.16	877	45
CNTLPATH	SCB	T8272	ZCP SYSLOG UPGRADE 7.16	877	45
CNTLPATH	SCB	T8273	DOMAIN CONTROLLER UPGRADE 7.16	877	45

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO 25 7.17
MASTER SITE
-- New Orders and Expansions --

Ordering Information

Detailed Information on Options

For detailed information and description of orderable options please reference the Ordering Guide: [7.17 M-Core New and Expansion Guide](#).

General Information

Ordering Requirements

These pages will lead you through the necessary steps required to order your new ASTRO 25 7.17 system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The following information must be included before placing the order:

- 1. System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
- 2. Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
- 3. System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
- 4. Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

Ordering Your Zone

Order the Master Site Model (Required)

Description	Full Description	Nomenclature	APC	Price
MASTER SITE CONFIGURATION	-	SQM01SUM0273	877	\$0.00

New A7.17 Cores are no longer available

If expanding an existing 7.17 system, proceed to the M Expansions/Add-on Section.

M3 Configuration Add'l Zone (25-100 sites)

Description	Full Description	Nomenclature	APC	Price
ADD: M3 REDUNDANT ADD ON ZONE (1-150 SITES)	-	CA02833AB	877	\$200,000.00
ADD: M3 - ADD-ON ZONE REDUNDANT HW	-	CA03119AA	877	\$60,280.00

M Expansions/Add-ons

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.17 M CORE	-	CA02629AC	877	\$0.00
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network Management Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system.	UA00237AA	877	\$40,000.00

	Also available on expansion orders.			
ADD:M2-M3 CORE EXPANSION	-	CA02682AA	877	\$68,000.00
ADD:M2-M3 CORE EXPANSION ADDITIONAL ZONE	-	CA02683AA	877	\$10,000.00
ENH: L TO M MIGRATION	-	CA02606AA	425	\$150,000.00

Order the Zone Level Operational Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA TRKG OPERATION	<p>ASTRO 25 FDMA TRKG OPERATION This license is for a Project 25 Phase 1 compliant trunking solution. This license also supports ASTRO 25 Conventional voice operation and Analog Conventional. This is not required for a conventional only operation or for TDMA-only systems. It is required if a system is operating with the combination of TDMA and Dynamic Dual Mode (Dynamic Talkgroup Assignment and/or Dynamic Channel Assignment) because Dynamic Dual Mode utilizes both TDMA and FDMA modes of operation. No longer includes IV&D Operation. See the Trunked Integrated Data License below.</p>	CA02113AA	877	\$35,000.00
ADD: PHASE 2 TDMA TRKG OP ZONE LIC	-	UA00158AA	877	\$25,000.00
	<p>This license is for a Project 25 Phase 1 compliant conventional only solution. This license supports both voice and integrated data. Analog conventional is also supported.</p>			

ADD: ASTRO 25 CONVENTIONAL	NOTE: The following applications are not applicable in ASTRO 25 Conventional Only systems: RCM, Affiliation User Reports, Dynamic Freq Blocking, Dynamic Shared Services, Channel Partitioning, CADI and System Historical Reports.	CA01207AA	877	\$15,000.00
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Data Capabilities

Trunked Integrated Data or Conventional Integrated Data is Standard on the Primary Core for new 7.17 systems. Whether your system is equipped with a Trunking or Conventional PDG is based on the Zone Voice Operational License chosen for this zone.

DO NOT choose CA02081AE or CA02080AE for a new 7.17 zone. If you are expanding a system that did not ship with the desired PDG, then you can order one or both of those with CA02629AC.

Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED INTEGRATED DATA	-	CA02081AE	877	\$114,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA02080AE	877	\$83,000.00
8 RF CHANNEL LICENSE	Conventional Integrated Data can support up to the 510 channels, where a channel is defined as a conventional repeater channel or a conventional simulcast, voting, or multicast channel.	CA01534AA	222	\$20,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00

Order the Zone Level Features/Capacities

Integrated Data Operation

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Description	Full Description	Nomenclature	APC	Price
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00
ADD: HPD SITE	-	UA00154AA	877	\$8,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00

FDMA/TDMA Interoperability

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00

Radio Alias Update

Description	Full Description	Nomenclature	APC	Price
ADD: USER LOGIN ALIAS UPDATE	-	UA00533AA	591	\$5,000.00

MCC Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M3	-	CA02920AB	877	\$45,000.00
ADD: DYNAMIC TRANSCODER M2/L2	-	CA02919AB	877	\$40,000.00
ADD: DYNAMIC TRANSCODER M1/L1	-	CA02834AB	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Backup Solutions/Anti-Malware

Description	Full Description	Nomenclature	APC	Price
ADD: BASELINE BACK UP 7.17	-	CA01723AF	877	\$500.00
ADD: BACK UP & RECOVERY (BAR) 7.17	-	CA01724AF	877	\$15,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.17	-	CA02836AB	877	\$0.00
ADD: WINDOW SUPPLEMENTAL TRANS CONFIG 7.17	-	CA02835AB	877	\$0.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
	This is a standalone installer			

MCAFEE WINDOWS AV CLIENT	for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00
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High Availability Data

Order High Availability capabilities at the master site (this is not applicable to High Availability Simulcast sites, either prime or remote).

This option is utilized to enable your system/1st zone and your add-on zone for High Availability services.

Requires a redundant system configuration, i.e. not applicable to M1.

This option DOES NOT include the redundant CNI (Customer Network Interface) equipment (Firewall, GGSN, border router, switch etc.)

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AB	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ENH: HA TRUNKED DATA	Provides High Availability for the Trunked Integrated Data PDG. Option comes with Enhanced Integrated Data capability.	CA02397AA	222	\$59,000.00
ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ENH: HA HIGH PERFORMANCE DATA	Provides High Availability for the HPD PDG.	CA02396AA	222	\$53,000.00

Other Optional Zone Capabilities

Description	Full Description	Nomenclature	APC	Price
IPV6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a	CA01417AA	877	\$50,000.00

	<p>corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.</p>			
ADD: IPV6 SITE LICENSE	<p>Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites).</p> <p>Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses.</p> <p>If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.</p>	CA01418AA	877	\$15,000.00
ADD: EVENT LOGGING 7.17	-	CA01725AF	877	\$12,000.00
ADD: 700/800 MIXED SITE OPERATION	<p>This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.</p>	CA01395AA	877	\$15,000.00

Order the System Level Features

Personnel Accountability

Enables Personnel Accountability operation over the ASTRO IV&D Infrastructure. Additional items are required for a complete Personnel Accountability solution. Please visit APX Personnel Accountability price page:

APX Personnel Accountability PCAT page

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

SmartConnect

SmartConnect requires Application Subscription. Refer to [SmartConnect End-to-End Ordering Guide](#) for full solution ordering and deployment details

Location on PTT

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	-	CA02472AD	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.17.3)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AA	877	\$80,000.00
	This option is required when			

ADD: HOST BASED CSMS DEVICE LICENSES	"Host-Based CSMS" (CA03584AA) is ordered. Must order (1) for each Windows device in the system	UA00726AA	877	\$200.00
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Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces.	UA00223AA	226	\$20,000.00

Firewall Management Service

Description	Full Description	Nomenclature	APC	Price
ADD: FORTINET FIREWALL MANAGER 7.17	-	CA02638AC	877	\$9,000.00

DSR Notification

Description	Full Description	Nomenclature	APC	Price
ADD: DSR SYSTEM NOTIFICATION	This license provdies notification to the license keys that the system/zones include DSR. This option is valid for adding Full DSR to an M1 or M3 System. NOTE: You must order CA01499AA when ordering DSR for the first time.	CA01499AA	877	\$10,000.00

SmartX Operation

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Description	Full Description	Nomenclature	APC	Price
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	-	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	(For A7.15 and beyond)Internet and SMS capabilities (iOS or Android smartphone/tablet) are required to activate token. The RNI-DMZ firewall must have internet connectivity, Email/SMS server settings	DDN1881	708	\$272.00

	will need to be configured for token provisioning.			
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Order System Level Capacity Licenses

Order the number of Trunking Radio and HPD User licenses needed for your system.

For M1/M2 systems, the sum of radio IDs cannot exceed 16,000.

For M3 systems, the sum of radio IDs per zone cannot exceed 150,000.

For multi-zone systems, the sum of the radio IDs cannot exceed 250,000.

A radio ID is defined as an ID with or without an associated alias in the UCS. One physical radio can have multiple radio ids:

- Â· Home trunking radio IDs,
- Â· Interoperability trunking radio IDs
- Â· digital conventional radio IDs,
- Â· MDC1200 radio IDs,
- Â· MCC 7100 / MCC 7500 consoles that access trunking resources ,
- Â· MCC 7100 / MCC 7500 consoles that access digital conventional resource
- Â· MCC 7100 / MCC 7500 consoles that access MDC1200 resource
- Â· HPD radio IDs

From the above list only trunking and data user licenses have a fee but all radio IDs are counted towards the system limits.

If your system has 40,000 radio users each with a trunking radio IDs and digital conventional radio IDs, you will need to purchase qty 80 of UA00152AA option (there are no user licenses required for conventional radio IDs). The system database will see a total of 80,000 ids (requiring a M3 multizone system). Any interoperability users belonging to a neighboring ASTRO 25 system, will count towards this database capacity, additional user licenses may be needed for those users.

Note: User license fees apply only to trunked radio IDs and HPD radio IDs as detailed in the options below.

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO	Each option ordered provides a license for 500 trunked radio users that are "home" to another	UA00664AA	877	\$1,000.00

USER LICENSES	radio system. These are meant to be radios that are not daily users of the system			
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00
ADD: 500 HPD USER LICENSES	-	UA00157AA	877	\$10,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y	CA01316AA	877	\$500.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00

Order capacity licenses for ASTRO 25 Conventional only systems

Description	Full Description	Nomenclature	APC	Price
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ADD: CONVENTIONAL PORT LICENSES (QTY 25)	-	UA00155AA	877	\$1,000.00
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00
ADD: WAVE ADC SEAT LICENSE	Required for each WAVE Advanced Desktop Communicator seat purchased to provide communications on Conventional systems through the WAVE 5000 Gateway. **Available on 7.17.2 or later releases.**	UA00663AA	877	\$7,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y	CA01316AA	877	\$500.00

Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required.

of objects = x

of sites = y

If $x/y < 10$ = No further action is required

If $x/y > 10$ = Additional UNC device licenses need to be ordered

Formula used to determine how many packs need to be ordered: $(x/y - 10) y / 10 = \#$ of 10 packs that need to be ordered

Ex: $(12 \text{ channels per site} - 10) \text{ times } 4 \text{ sites} = 8$ divided by 10 = .80

Customer would need to order 1 qty. pack of 10

*Please be advised this is guide for ordering additional UNC Device Licenses. Customer systems are unique in design, and once configured, there may be a need for additional device licenses.

Order System Management Application User Licenses

Required System Management Applications

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00

Optional System Management Applications

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH CAPACITY UNC 7.17	-	CA02637AC	877	\$25,000.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00
ADD: FLEXIBLE ATIA	-	UA00138AA	877	\$20,000.00
	This option is required with ATIA and Flexible ATIA.			

<p>ENH: TECHNICAL ASSISTANCE, TEN HOURS</p>	<p>Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.</p>	<p>ZA00103AA</p>	<p>285</p>	<p>\$3,000.00</p>
<p>ADD: CADI SOFTWARE OPTION</p>	<p>-</p>	<p>UA00142AA</p>	<p>877</p>	<p>\$45,000.00</p>
<p>ENH: TECHNICAL ASSISTANCE, FORTY HRS</p>	<p>This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the</p>	<p>ZA00104AA</p>	<p>285</p>	<p>\$12,000.00</p>

	System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.			
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Order Zone Management Application User Licenses

Required Zone Management Applications

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00

Optional Zone Management Applications

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View. Order one per zone	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports	UA00141AA	877	\$25,000.00

ADD: DYNAMIC REPORTS	Includes Affiliation User Reports	UA00150AA	877	\$15,000.00
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00
ENH: NBI TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00992AA	285	\$12,000.00

Order the NM Client

Order the Personal Computer (PC) workstations that serve as the client terminal. The mouse and keyboard are included but the PC hardware and monitor are sold separately; please be sure to include all items when ordering.

Certified Network Management Workstation Statement

Description	Full Description	Nomenclature	APC	Price
ASTRO 7.17 CLIENT	-	T8363	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION CLIENT SOFTWARE	-	T8364	877	\$5,000.00
Z2 MINI WORKSTATION 258G 8G NON RET	Note: Due to its small form factor, the workstation computer does not contain a built-in DVD drive. Please make sure to order at least one USB External DVD Drive for each location for use in upgrades and replacing hard drives	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00

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Description	Full Description	Nomenclature	APC	Price
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00

Custom Reports (Optional)

Description	Full Description	Nomenclature	APC	Price
CRYSTAL REPORTS 2013 SP6	-	DDN2282	708	\$994.00

Order the Monitor, Mouse, Keyboard

Order the monitors and peripherals for your Network Management clients. The monitor, keyboard and mouse may also be ordered for use with the Transport Network Performance Server.

Description	Full Description	Nomenclature	APC	Price
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3226A	708	\$30.00

Common Platform Hardware

Order this common platform hardware if a separate remote Domain Controller or ZCP Logging functionality is required. This is only applicable if you are ordering Zone Core Protection (part of IA ordering guide/ECAT page) and Event Logging (CA01725AF)

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.17	-	CA02836AB	877	\$0.00
ADD: WINDOW SUPPLEMENTAL TRANS CONFIG 7.17	-	CA02835AB	877	\$0.00
ADD: COMMON PLATFORM HW 7.17	-	CA03192AA	877	\$20,000.00

ADD: ZCP SYSLOG 7.17	-	CA03194AA	877	\$11,052.00
ADD: DC STANDALONE 7.17	-	CA03193AA	877	\$0.00

Ordering Additional Zones

You may now choose to add the optional System Statistics Server and System Historical Reports

Note: SSS is only available for M3 Multi-zone Trunking Customers only

Description	Full Description	Nomenclature	APC	Price
ADD: SYSTEM STATISTICS SERVER	-	CA01416AE	877	\$40,000.00
ADD: SYSTEM HISTORICAL REPORTS	-	UA00145AA	877	\$10,000.00

Ordering Dynamic System Resilience (DSR)

This section will lead you through the necessary steps required to order your ASTRO 25 7.17 DSR feature. Please be sure to read each step carefully and supply the personality information required to assure the factory will correctly build the product.

NOTE: You are required to order DSR System Notification option (CA01499AA) with your main core the first time you order DSR.

The following information must be included before placing the order:

1. System ID. Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. Zone ID. Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. System Extension ID. Four digit hexadecimal number, typically 0000. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
4. Valid Email Address. This email will be used to deliver all software licensing entitlements to the customer.

When ordering a DSR backup core, a duplicate software license file will be automatically generated based on the primary core with matching System, Zone and System Extension ID. Software licenses do not need to be re-ordered on the DSR backup core unless explicitly noted in the DSR ordering instructions.

If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

OrderM1/M3 with Full DSR

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Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	If ordered on any zone, all zones must order DSR functionality (up to six zones maximum)	SQM01SUM0231	877	\$20,000.00
DSR VOICE	-	CA01511AA	877	\$0.00
DSR DATA	If you utilize data on your system, you must first order this option. Not valid for M1 systems with Voice-only DSR	CA01512AA	877	\$0.00
ADD: DSR - NON-REDUNDANT M1(UP TO 24 SITES	-	CA02845AB	877	\$15,000.00
ADD: DSR HW - NON-REDUNDANT M1	-	CA03141AA	877	\$51,280.00
ADD: NM/ZC RACK	Only valid for M1/M2. M3 ships standard with cabinet.	CA02838AA	877	\$0.00
ADD: NM/ZC CABINET	Only valid for M1/M2. M3 ships standard with cabinet.	CA02839AA	877	\$3,000.00
ADD: M3 1ST ZONE DSR 7.17	-	CA02846AB	877	\$140,000.00
ADD: M3 1ST ZONE DSR 7.17 HW	-	CA03142AA	877	\$66,280.00
ADD: M3 ADDITIONAL ZONE DSR 7.17	-	CA02847AB	877	\$86,000.00
ADD: M3 ADDITIONAL ZONE DSR 7.17 HW	-	CA03143AA	877	\$60,280.00

Order System Level Licenses

If these were ordered on your primary master site, they must be ordered on your

secondary master site.

Description	Full Description	Nomenclature	APC	Price
ADD: DSR MULTI-ZONE OPERATIONAL LICENSE	-	CA01513AA	877	\$75,000.00
ADD: SYSTEM STATISTICS SERVER	-	CA01416AE	877	\$40,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AD	877	\$11,300.00
ADD: HOST BASED CSMS (A7.17.3)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AA	877	\$80,000.00

Order Zone Operational Level Licenses

If these were ordered on your primary master site, they must be ordered on your secondary master site.

Trunked Integrated Data or Conventional Integrated Data is Standard on the Primary Core for new 7.17 systems.

It is NOT Standard for the DSR core. DSR Data options need to be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: DSR CAPABILITY TRKD INT DATA	-	CA02077AE	877	\$59,000.00
ADD: DSR CAPABILITY CONVENTIONAL INTEGRATED DATA	-	CA02631AC	877	\$45,000.00

ADD: DYNAMIC TRANSCODER M1/L1	-	CA02834AB	877	\$20,000.00
ADD: DYNAMIC TRANSCODER M3	-	CA02920AB	877	\$45,000.00

Order High Availability capabilities at the master site (this is not applicable to High Availability Simulcast sites, either prime or remote).

This option is utilized to enable your system/1st zone and your add-on zone for High Availability services.

Requires a redundant system configuration. NOT Valid for M1 DSR

This option DOES NOT include the redundant CNI (Customer Network Interface) equipment (Firewall, GGSN, border router, switch etc.)

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AB	877	\$20,000.00

If you have chosen to order High Availability capabilities you can now choose the services you would like to deploy in a High Availability configuration.

Description	Full Description	Nomenclature	APC	Price
ENH: HA TRUNKED DATA	Provides High Availability for the Trunked Integrated Data PDG. Option comes with Enhanced Integrated Data capability.	CA02397AA	222	\$59,000.00
ENH: HA HIGH PERFORMANCE DATA	Provides High Availability for the HPD PDG.	CA02396AA	222	\$53,000.00
ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD: EVENT LOGGING 7.17	-	CA01725AF	877	\$12,000.00
ADD: BACK UP & RECOVERY (BAR) 7.17	-	CA01724AF	877	\$15,000.00
ADD: BASELINE BACK UP 7.17	-	CA01723AF	877	\$500.00
ADD: WINDOW				

SUPPLEMENTAL TRANS CONFIG 7.17	-	CA02835AB	877	\$0.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.17	-	CA02836AB	877	\$0.00

Accessories

Description	Full Description	Nomenclature	APC	Price
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
1.2 TB HARD DRIVE	FRU: DL380 G9 1.2TB HARD DRIVE Replacement for DLN6970A Hard Drive	DLN6942	454	\$1,750.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00

FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CKN6967	CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	877	9
CNTLPATH	SCB	CKN6975	CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M"	877	1
CNTRLR	SCB	CVN6565	SPARE CABINET ASTRO 7.9 & BEYOND	280	4
QUOTEDS	FTI	DDN1881	FORTITOKENMOBILE - PACK OF 5 SOFT-T	708	20
QUOTEDS	FNT	DDN1933	PURCHASED SOFTWARE,FORTITOKEN PACK	708	20
QUOTEDS	PCW	DDN2282	CRYSTAL REPORTS 2013 SP6	708	10

CNTRLR	SCB	DLN6523	CADI OVERVIEW AND USER'S MANUAL	454	4
CNTRLR	SCB	DLN6649	FLEXIBLE ATIA OVERVIEW CD	591	4
FIXEDSTN	SCB	DLN6691	HP LASERJET PRINTER CP3525DN 220V	424	18
FIXEDSTN	SCB	DLN6692	HP LASERJET PRINTER CP3525DN 110V	877	18
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6878	DAS - 600 GB SAS HARD DRIVE	454	22
CNTRLR	SCB	DLN6880	DAS - CHASSIS ONLY	877	13
FIXEDSTN	SCB	DLN6942	1.2 TB HARD DRIVE	454	8
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
CNTLPATH	SCB	DLN6977	FRE: DL380 G9 LC 600 GB DISK	877	15
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
CNTLPATH	SCB	DLN6979	FRU: JBOD MODULE 4124	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
CNTLPATH	SCB	DLN7009	FRE: DL380 G9 900GB DISK WD2	877	15

CNTLPATH	SCB	DLN7010	FRE: DL380 G9 HC NO DISK WD2	877	16
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
CNTLPATH	SCB	DVN4359	SOFTWARE,VMWARE VSPHERE 6.X FDN 2 CPU SW	877	45
FIXEDSTN	CDP	HKVN4797	LICENSE,SMARTCONNECT ENABLEMENT	877	28
QUOTEDS	CDZ	L3225A	CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	708	7
QUOTEDS	PCW	L3226A	CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	708	7
CNTLPATH	SCB	SQM01SUM0231	DYNAMIC SYSTEM RESILIENCE	877	30
FIXEDSTN	SCB	SQM01SUM0273	MASTER SITE CONFIGURATION	877	20
CNTRLR	SCB	T7885	MCAFFEE WINDOWS AV CLIENT	708	21
CNTLPATH	SCB	T8363	ASTRO 7.17 CLIENT	877	26
CNTLPATH	SCB	T8364	ASTRO 25 RADIO AUTHENTICATION CLIENT SOFTWARE	877	8
CNTLPATH	SCB	T8399	CEN SERVER	877	12
FIXEDSTN	SCB	T8586	FORTINET FIREWALL APPLIANCE	877	16
QUOTEDS	SYD	TT3028	APAA PC CLIENT LICENSES	708	1
QUOTEDS	SYD	TT3029	APAA SERVER SOFTWARE LICENSE	708	1
QUOTEDS	SYD	TT3030	APAA EASYSTAFF RADIO ACCESS LICENSE	708	1
QUOTEDS	SYD	TT3031	APAA MIXED MODE CONVENTIONAL SYSTEM LICENSE	708	14
			INFORMATION ASSURANCE		

QUOTEDS	SYD	TT3108	LICENSE FOR APAA SERVER	708	1
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Master Site Network Management / Zone Controller ASTRO 25 7.17 Upgrade

Ordering Information

General Information

PLEASE NOTE:

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to the policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

To ensure adherence to the Software Support Policy, there is a change to how Upgrades are ordered on the Master Site for customers that do not have an SMA or SUA Lifecycle Contract.

It is recommended that all upgrades are to an ASTRO release that is still within the Standard Support Period.

Effective 1/1/17

To get an Upgrade quote, please contact your:

- Lifecycle Management Consultant; to quote an upgrade via a one-time or multiyear SUA
- It is recommended that all upgrades are performed via a certified path

Once you have a quote, then contact:

- Upgrade Operations; to request a system upgrade - [Project Request for Upgrade Operations](#)
- UO will not provide a la carte upgrade quotes

For more information on the Software Support Policy check here: [Software Support Policy](#)

For more information on the orderability changes check here: [SwSP Orderability Changes](#)

For **Pre-Sales purposes only** - an Upgrade Guide can be found here: [Pre-Sales Only Upgrade Ordering Guide](#)

Configuration

ORDERING GUIDELINES FOR UPDATING TO 7.17.3 FROM 7.17 OR 7.17.1

In order to use any new capabilities introduced in the 7.17.3 release, the new 7.17.3 version of the software for the applicable components must be installed.

The 7.17.3 Update model number below (T8485) will contain CD(s) with the new software version for the 7.17.3 impacted products. Each impacted product has to be updated before new functionality is enabled.

Updating a 7.17 or 7.17.1 system to 7.17.3 is a 2-step process. Before a 7.17 or 7.17.1 system can be updated to 7.17.3, the system must be updated to 7.17.2. Both kits below are required to be ordered to update a 7.17 or 7.17.1 system to 7.17.3. Note: It is possible to remain at 7.17.2 if the capabilities introduced in 7.17.3 are not needed.

To update to 7.17.3 from 7.17.2, see section below.

Upgrades from 7.15 or 7.16 to 7.17.3 are quoted by the Lifecycle Management Consultants.

7.17.3 Update from 7.17 or 7.17.1 (both models are required)

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 7.17.2 SW	-	T8687	877	\$0.00
ASTRO 25 7.17.3 SW	-	T8485	877	\$0.00

ORDERING GUIDELINES FOR UPDATING to 7.17.3 FROM 7.17.2

In order to use any new capabilities introduced in the 7.17.3 release, the new 7.17.3 version of the software for the applicable components must be installed.

The model number below will contain CD(s) with the new software version for the 7.17.3 impacted products. Each impacted product has to be updated before new functionality is enabled.

Upgrades from 7.15 or 7.16 to 7.17.3 are quoted by the Lifecycle Management Consultants.

7.17.3 Update from 7.17.2

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 7.17.3 SW	-	T8485	877	\$0.00

The T8485 contains 7.17.3 Update Software CDs for the following products:

RF SITE KIT

- GTR 8000, Conventional
- GCP 8000 Conventional Site Controller
- GSLC (GPW Link Converter SW)
- GPW 8000, Conventional Receiver app
- GRV & GCM 8000, Conventional Comparator
- ALL SDM CONFIG AND FW TO A7.17.3
- MOSCAD NFM VIRTUAL APP A7.17.3
- MOSCAD NFM GMC/GWS A7.17.3

CONSOLES KIT

- Voice Dispatch API
- MCC7500
- MCC7500E
- PRX 7000
- Voice Dispatch Assistant

CALL PROCESSING KIT

- ISSI/CSSI 8000

NETWORK TRANSPORT KIT

- Motorola Network Router and Gateway EOS
- HP Procurve OS

PLATFORM KIT

- Domain Controller Plugin Media
- CSMS Supplementary CD
- Virtual Appliance - CSMS - Disk 1
- Virtual Appliance - CSMS - Disk 2
- Window Supplemental Full Config
- Window Supplemental Trans Config
- Windows Supplemental Common Config
- McAfee Standalone Media
- McAfee Software Media

PROVISIONING and FAULT MANAGEMENT KIT

- ATR SW w/AES-128
- UEM SW w/AES-128

- ZDS SW w/AES-128
- UCS SW w/AES-128
- PMI API Documentation
- UNC DS Virtual App w/AES-128
- UNC w/AES-128
- Configuration Manager SW
- NM Client w/ AES-128
- Configuration services SW
- MKM 7000 CAM or A7.17

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T8485	ASTRO 25 7.17.3 SW	877	27
CNTLPATH	SCB	T8655	ASTRO 25 7.17.1 SW	877	15
FIXEDSTN	SCB	T8687	ASTRO 25 7.17.2 SW	877	5

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

ASTRO 25 7.18
M-CORE MASTER SITE
-- New Orders and Expansions --

Updates

Ordering Information

For detailed ordering information and description of options please reference the [7.18 M-Core New and Expansion Ordering Guide](#).

These pages will lead you through the necessary steps required to order your new ASTRO 25 7.18 system. Please be sure to read each step carefully and supply the personality information required for the different model numbers to assure the factory will correctly build the product.

The following information must be included before placing the order:

- 1. System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
- 2. Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
- 3. System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
- 4. Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

Configuration

Order the Master Site Model (Required)

Description	Full Description	Nomenclature	APC	Price
MASTER SITE CONFIGURATION	-	SQM01SUM0273	877	\$0.00

Order the Required Configuration

For a new zone, choose a M1, M2 or M3 Configuration. Need to select both the Software and the Hardware option.

All configurations include Integrated Voice and Data (IV&D). There is no need to order IV&D. The Core Enablement Server and ISGW is also included with each configuration below.

Event Logging (Syslog) which was previously optional (as option CA01725) is now standard per zone with each configuration and does not need to be ordered.

System Management user licenses for UNC, PM, and UEM are required to be ordered for primary zones (M1, M2 and M3 zone 1). System Management user license for UEM only is required to be ordered for an add-on zone.

For M1 or M2, choose a rack or cabinet option. M3 ships standard in a cabinet.

If expanding an existing 7.18 system, proceed to the M-Core Expansions / Add-on Section.

M1 Configuration (24 sites or fewer)

Description	Full Description	Nomenclature	APC	Price
ADD: M1 NON REDUNDANT ZONE (24 SITES OR LESS)	-	CA02830AC	877	\$148,000.00
ADD: M1 - NON REDUNDANT HW	-	CA03116AB	877	\$72,280.00
ADD: NM/ZC RACK	-	CA02838AA	877	\$0.00
ADD: NM/ZC CABINET	-	CA02839AA	877	\$3,000.00
	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites,			

ADD: INCREASED CAPACITY	Receive Only Sites, Console Sites, Remote Network Management Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.	UA00237AA	877	\$40,000.00
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M2 Configuration (Redundant, 24 sites or fewer)

Description	Full Description	Nomenclature	APC	Price
ADD: M2 REDUNDANT ZONE (UP TO 24 SITES)	-	CA02831AC	877	\$206,000.00
ADD: M2 - REDUNDANT HW	-	CA03117AB	877	\$84,280.00
ADD: NM/ZC RACK	-	CA02838AA	877	\$0.00
ADD: NM/ZC CABINET	-	CA02839AA	877	\$3,000.00
ADD: INCREASED CAPACITY	Increases site capacity for M1/M2 up to 75 sites, 500 channels and 125 Console Operator Positions. The following all count towards the site capacity: RF Repeater Sites, Simulcast Subsites, HPD Sites, Receive Only Sites, Console Sites, Remote Network Management Sites, CCGWs, ISSI.1 Gateway, or SmartX Convertor. Need to order CA02830AA, CA02831AA or CA02845AA with this option for a new system. Also available on expansion orders.	UA00237AA	877	\$40,000.00

M3 Configuration

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Description	Full Description	Nomenclature	APC	Price
ADD: M3 REDUNDANT ZONE (1-150 SITES)-1ST ZONE	-	CA02832AC	877	\$272,000.00
ADD: M3 - 1ST ZONE REDUNDANT HW	-	CA03118AB	877	\$88,280.00

M3 Configuration Additional Zone

Description	Full Description	Nomenclature	APC	Price
ADD: M3 REDUNDANT ADD ON ZONE (1-150 SITES)	-	CA02833AC	877	\$200,000.00
ADD: M3 - ADD-ON ZONE REDUNDANT HW	-	CA03119AB	877	\$60,280.00

M-Core Expansions / Add-on

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.18 M CORE	-	CA02629AD	877	\$0.00

ORDER THE ZONE LEVEL OPERATIONAL LICENSES

Trunked Integrated Data or Conventional Integrated Data is Standard and no longer needs to be ordered for new 7.18 systems. The Zone Voice Operational License chosen for this zone determines whether the system is equipped with a Trunking or Conventional PDG.

There is no need to order CA02081 - Trunked Integrated Data or CA02389 - Trunked Enhanced Data or CA02080 - Conventional Integrated Data for a 7.18 Zone.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA TRKG OPERATION	-	CA02113AA	877	\$35,000.00
ADD: PHASE 2 TDMA TRKG				

OP ZONE LIC	-	UA00158AA	877	\$25,000.00
ADD: ASTRO 25 CONVENTIONAL	This license is for a Project 25 Phase 1 compliant conventional only solution. This license supports both voice and integrated data. Analog conventional is also supported. NOTE: The following applications are not applicable in ASTRO 25 Conventional Only systems: RCM, Affiliation User Reports, Dynamic Freq Blocking, Dynamic Shared Services, Channel Partitioning, CADI and System Historical Reports.	CA01207AA	877	\$15,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00

ORDER ZONE LEVEL FEATURES / CAPACITIES

Site Licenses

Choose FDMA and/or TDMA per site. For TDMA also choose TDMA per Base Radio. Data is standard at the Core level but still needs to be ordered per site for Trunking or per additional 8 RF Channels for Conventional.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00

Optional TDMA/FDMA Interoperability Feature licenses

Description	Full Description	Nomenclature	APC	Price
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: DYNAMIC TRANSCODER M1	-	CA02834AC	877	\$20,000.00
ADD: DYNAMIC TRANSCODER M3	-	CA02920AC	877	\$45,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Zone Level Console Capacity License

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Includes a license for up to 5 operator positions. A license is required for each MCC 7500 and MCC 7500E operator position.	UA00156AA	877	\$5,000.00

Order High Availability and HA options if needed

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AC	877	\$20,000.00
ENH: HA TRUNKED DATA	Provides High Availability for the Trunked Integrated Data PDG. Option comes with Enhanced Integrated Data capability.	CA02397AA	222	\$59,000.00

ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00

Optional Zone Capabilities

Note: Event Logging (Syslog) is now standard

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	-	CA01395AA	877	\$15,000.00
ADD: CONVENTIONAL PORT LICENSES (QTY 25)	-	UA00155AA	877	\$1,000.00
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Includes a license for up to 5 operator positions. A license is required for each MCC 7500 and MCC 7500E operator position.	UA00156AA	877	\$5,000.00
ADD: WAVE ADC SEAT LICENSE	Required for each WAVE Advanced Desktop Communicator seat purchased to provide communications on Conventional systems through the WAVE 5000 Gateway.	UA00663AA	877	\$7,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	Add up the number of Trunking channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y . Formula used to determine how many packs need to be ordered: $(x/y - 10) y / 10 = \# \text{ of } 10 \text{ packs that need to be ordered}$ Ex:(12 channels per site -10) times 4	CA01316AA	877	\$500.00

	<p>sites = 8 divided by 10 = .80 Customer would need to order quantity 1 pack of 10 licenses.</p>			
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ORDER SYSTEM LEVEL FEATURES

SmartConnect

SmartConnect requires Application Subscription per radio device. Refer to [SmartConnect End-to-End Ordering Guide](#) for full solution ordering and deployment details

Personnel Accountability

Reference Ordering Guide for how to order Personnel Accountability. Additional orderable items needed for a complete solution can be found on the APX Personnel Accountability Price Catalog Page.

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Location on PTT - INCLUDES LOCATION ON RECEIVE

See Ordering Guide for detailed feature information

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	Location on Voice, 500 Users: Includes Location on PTT and Location on Receive	UA00482AA	877	\$3,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	-	CA02472AE	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.18)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AB	877	\$80,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	This option is required when "Host-Based CSMS" (CA03584AB) is ordered. Must order (1) for each Windows device in the system.	UA00726AA	877	\$200.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00

Order if system will have DSR

Description	Full Description	Nomenclature	APC	Price
ADD: DSR SYSTEM NOTIFICATION	This license provides notification to the license keys that the system/zones include DSR. This option is valid for adding Full DSR to an M1 or M3 System. NOTE: You must order CA01499AA when ordering DSR for the first time.	CA01499AA	877	\$10,000.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	-	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$272.00

System Level Radio User Capacities

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Each option ordered provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system	UA00664AA	877	\$1,000.00

Broadband Gateway Interface

Additional Device Licenses

Description	Full Description	Nomenclature	APC	Price
	Add up the number of Trunking			

ADD: UNC ADDTL DEVICE LIC (QTY 10)	channels, Conventional channels, and number of Comparators. Then, divide by the number of sites. If your total is more than 10, the purchase of additional UNC licenses is required. # of objects = x # of sites = y . Formula used to determine how many packs need to be ordered: $(x/y - 10) y / 10 =$ # of 10 packs that need to be ordered Ex:(12 channels per site -10) times 4 sites = 8 divided by 10 = .80 Customer would need to order quantity 1 pack of 10 licenses.	CA01316AA	877	\$500.00
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Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: USER LOGIN ALIAS UPDATE	-	UA00533AA	591	\$5,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00

Configuration

Anti-Malware/BAR/Windows Hardening

Description	Full Description	Nomenclature	APC	Price
ADD: BACK UP & RECOVERY (BAR) 7.18	-	CA01724AG	877	\$15,000.00
ADD: BASELINE BACK UP 7.18	-	CA01723AG	877	\$500.00
ADD:WINDOW SUPPLEMENTAL TRANS CONFIG 7.18	-	CA02835AC	877	\$0.00

ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.18	-	CA02836AC	877	\$0.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
QNAP J3455 QUAD CORE BAY DRIVE WITH 4 SEAGATE HDD 64MB	-	DSTS453BE4GUS	708	\$1,485.00

Required System Management Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00

Optional System Management Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH CAPACITY UNC 7.18	-	CA02637AD	877	\$25,000.00
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

Required Zone Management Application User License

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00

Optional Zone Level Management Application User Licenses

Fault Management

Description	Full Description	Nomenclature	APC	Price
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ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00
ENH: NBI TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00992AA	285	\$12,000.00
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View license. Order one per zone.	UA00225AA	877	\$50,000.00

Configuration Management

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00

Accounting and Performance Management

Description	Full Description	Nomenclature	APC	Price
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00

ENH: TECHNICAL ASSISTANCE, TEN HOURS	This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00103AA	285	\$3,000.00
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00104AA	285	\$12,000.00
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license	UA00150AA	877	\$15,000.00
CRYSTAL REPORTS 2013 SP6	-	DDN2282	708	\$994.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license	UA00141AA	877	\$25,000.00

Network Management Client

Description	Full Description	Nomenclature	APC	Price
	Note: Due to its small form factor, the			

Z2 MINI WORKSTATION 258G 8G NON RET	workstation computer does not contain a built-in DVD drive. Please make sure to order at least one USB External DVD Drive for each location for use in upgrades and replacing hard drives	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00
ASTRO 7.18 CLIENT	-	T8538	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION CLIENT A7.18 SW	-	T8537	877	\$5,000.00
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Order as a main line item.	L3226A	708	\$30.00

Common Platform Hardware

Order this common platform hardware and DC Stand Alone option if a separate remote Domain Controller is required. E.g. – Optional at a remote console site

CA03192AB is required with CA03193AB

Windows Config option required when ordering DC Stand Alone. Order either transparent or full as per customer's system.

Description	Full Description	Nomenclature	APC	Price
ADD: COMMON PLATFORM HW 7.18	-	CA03192AB	877	\$20,000.00
ADD: DC STAND ALONE 7.18	-	CA03193AB	877	\$0.00
ADD: WINDOW SUPPLEMENTAL TRANS CONFIG 7.18	-	CA02835AC	877	\$0.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.18	-	CA02836AC	877	\$0.00

System Expansions

Description	Full Description	Nomenclature	APC	Price

ADD:M2-M3 CORE EXPANSION	-	CA02682AA	877	\$68,000.00
ADD:M2-M3 CORE EXPANSION ADDITIONAL ZONE	-	CA02683AA	877	\$10,000.00
ENH: L TO M MIGRATION	-	CA02606AA	425	\$150,000.00

Ordering Additional Zones

If an additional zone is desired:

Order the Master Site Model and M3 Additional Zone Config.

Order the appropriate Zone and System Level features.

NOTE: If Channel Partitioning or Security Partitioning were ordered on the Primary Zone, they must be ordered for any additional zones as well.

Order the desired Network Management Zone Level Features.

If additional System Level Licenses are needed, purchase those on a different order with the Master Site Model and the M-Core Expansion option.

You may now choose to add the optional System Statistics Server and System Historical Reports

Description	Full Description	Nomenclature	APC	Price
ADD: SYSTEM STATISTICS SERVER	-	CA01416AF	877	\$40,000.00
ADD: SYSTEM HISTORICAL REPORTS	-	UA00145AA	877	\$10,000.00

Dynamic System Resilience (DSR)

This section will lead you through the necessary steps required to order your ASTRO 25 7.18 DSR feature. Please be sure to read each step carefully and supply the personality information required to assure the factory will correctly build the product.

NOTE: You are required to order the DSR System Notification option CA01499AA with your main core the first time you order DSR.

The following information must be included on the order:

1. System ID. Four digit hexadecimal number used to uniquely identify a system.
2. Zone ID. Number used to uniquely identify each zone in a system.

3. System Extension ID. Four digit hexadecimal number, typically 0000.
4. Valid Email Address. This email will be used to deliver all software licensing entitlements to the customer.

Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	If ordered on any zone, all zones must order DSR functionality (up to six zones maximum)	SQM01SUM0231	877	\$20,000.00

M1 DSR

Configuration includes Integrated Voice and Data (IV&D). There is no need to order IV&D. Event Logging (Syslog), which was previously optional (as option CA01725), is now standard with M1 DSR and does not need to be ordered.

Both SW and HW options need to be ordered for an M1 DSR, plus a Rack or Cabinet option

Description	Full Description	Nomenclature	APC	Price
ADD: DSR - NON-REDUNDANT M1(UP TO 24 SITES)	-	CA02845AC	877	\$15,000.00
ADD: DSR HW - NON-REDUNDANT M1	-	CA03141AB	877	\$51,280.00
ADD: NM/ZC RACK	-	CA02838AA	877	\$0.00
ADD: NM/ZC CABINET	-	CA02839AA	877	\$3,000.00

M3 DSR

Configuration includes Integrated Voice and Data (IV&D). There is no need to order IV&D. Event Logging (Syslog), which was previously optional (as option CA01725), is now standard per DSR zone and does not need to be ordered.

Both options need to be ordered for an M3 DSR

Description	Full Description	Nomenclature	APC	Price
ADD: M3 1ST ZONE DSR 7.18	-	CA02846AC	877	\$140,000.00
ADD: M3 1ST ZONE DSR 7.18 HW	-	CA03142AB	877	\$66,280.00

M3 Additional Zone DSR

For additional zones, order another main model with the Additional Zone DSR SW and HW options.

Event Logging (Syslog), which was previously optional (as option CA01725), is now standard per DSR zone and does not need to be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: M3 ADDITIONAL ZONE DSR 7.18	-	CA02847AC	877	\$86,000.00
ADD: M3 ADDITIONAL ZONE DSR 7.18 HW	-	CA03143AB	877	\$60,280.00

System Level Options

If these were ordered in your primary system, they must be ordered in your secondary (DSR) Master Site

Description	Full Description	Nomenclature	APC	Price
ADD: DSR MULTI-ZONE OPERATIONAL LICENSE	-	CA01513AA	877	\$75,000.00
ADD: SYSTEM STATISTICS SERVER	-	CA01416AF	877	\$40,000.00
ADD:RADIO AUTHENTICATION	-	CA02472AE	877	\$11,300.00
ADD: HOST BASED CSMS (A7.18)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AB	877	\$80,000.00

Zone Level Options

If these were ordered in your primary master site, they must be ordered in your secondary master site.

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M1	-	CA02834AC	877	\$20,000.00
ADD: DYNAMIC TRANSCODER M3	-	CA02920AC	877	\$45,000.00

ENH: HA TRUNKED DATA	Provides High Availability for the Trunked Integrated Data PDG. Option comes with Enhanced Integrated Data capability.	CA02397AA	222	\$59,000.00
ENH: HA CONVENTIONAL INTEGRATED DATA	-	CA02632AA	222	\$45,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD: HIGH CAPACITY UNC 7.18	-	CA02637AD	877	\$25,000.00
ADD: BACK UP & RECOVERY (BAR) 7.18	-	CA01724AG	877	\$15,000.00
ADD: BASELINE BACK UP 7.18	-	CA01723AG	877	\$500.00
ADD: WINDOW SUPPLEMENTAL TRANS CONFIG 7.18	-	CA02835AC	877	\$0.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG 7.18	-	CA02836AC	877	\$0.00

Accessories and Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
FRE: DL380 G10 VHC 256GH DAS 2	-	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	-	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	-	DLN8010	877	\$27,000.00

FRE: DL380 G10 MC 64GH 1200-12	-	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	-	DLN8012	877	\$18,000.00

Software & Services

Update History

Ship Card

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[SHIP CARD](#)

Model

ASTRO® Digital Spectra Plus and Consolette™
FLASHport® Aftermarket Upgrades
VHF, UHF, and 800 MHz Bands
Secure/Conventional/ Trunked Radio Systems

Ordering Information

General Information

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package, to upgrade to a different System Enhancement Software Package, or to order enhancements for existing ASTRO Digital Spectra Plus radios in the field. FLASHport Upgrade Kit contains upgrade software and upgrade documentation.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as your main line item (T6766, T6767, T6768, T6769, T6929, or T6930), and order quantity 1 at \$0 (No Charge).
2. Choose the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Option (s) and enter as sub-items.
3. FLASH Model (factory model number) and FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and FLASHcode. (FLASHcode can be read from using ASTRO Digital Spectra Plus Flash/programming cable (HKN6155) and CPS (RVN4165/RVN4166) and/or from the radio display in service mode.)
4. ALL Sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.

CURRENT SYSTEM SOFTWARE PACKAGE						
	T6929	T6930	T6766	T6767	T6768	T6769
	ANALOG CONVENTIONAL PKG	DIGITAL CONVENTIONAL	ANALOG SMARTNET®	DIGITAL SMARTNET	ANALOG SMARTZONE®	DIGITAL SMARTZONE
OPERATION MODES (List as sub items)						
ENH: ASTRO Digital CAI Operation G808	X	N/A	X	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)						

ENH: Upgrade to Conventional G344	X	X	N/A	N/A	N/A	N/A
ENH: Upgrade to SMARTNET G346	X	X	X	X	N/A	N/A
ENH: Upgrade to SmartZone G347	X	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)						
ADD: ID Display (8 Numeric Characters) G114 NOTE 2	X	X	X	X	X	X
ENH: RS232 ASTRO Data W947 NOTE 4	X	X	X	X	X	X
ENH: Radio Trace G170	X	X	X	X	X	X
ENH: SmartZone OmniLink™ Operation G173 NOTE 3	N/A	N/A	N/A	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items) - Radios must contain Encryption to add Encryption Enhancement Options NOTE 1						
ADD: Multikey Operation W969	X	X	X	X	X	X
ADD: ASTRO P25 and MDC OTAR (includes Multikey) G298	X	X	X	X	X	X

NOTE 1: See Encryption Field Upgrade Kits' Section under the General Information on the ASTRO Digital Spectra Plus 800MHz page, if radios do not currently contain encryption.

NOTE 2: ID Display uses ASTRO Signaling in digital mode and MDC™ signaling in analog model. Consequently, it is not available in Trunked analog modes.

NOTE 3: For Feature Details, see Mobile Section under the General Information page, for System Enhancement Software Feature Packages on ASTRO Digital Spectra Plus Mobile.

NOTE 4: SmartZone operation (either G51 from factory or G347 from FLASHport) and IMBE ASTRO

Digital (either G806 from factory or G806 or G808 from FLASHport) must reside in radio for operation of this feature set. The G173 (OmniLink) option is included at "No Charge" with this option.

NOTE 5: High power ASTRO Digital Spectra Plus modes may require a hardware upgrade. Installation must be quoted separately.

An ASTRO Digital Spectra Plus Mobile programming cable is required to "FLASH" the FLASHport Software into the ASTRO Digital Spectra Plus (see Field Programming section for pricing and ordering information.) The existing HKN6155 is required along with the CPS to program the ASTRO Digital Spectra Plus and it does support FLASHport.

Aftermarket Software below is **NOT** discountable and **DO NOT** include field programming. Pricing reflects per radio upgrade charge.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

☞ Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® DIGITAL Spectra Plus 800MHz

[ASTRO® DIGITAL Spectra Plus UHF](#)

[ASTRO® DIGITAL Spectra Plus VHF 136-162 MHz](#)

[ASTRO® DIGITAL Spectra Plus VHF 146-174 MHz](#)

[ASTRO® DIGITAL Spectra Plus Motorcycle](#)

Ship Card

Data Not Available

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

ASTRO-TAC®
ASTRO-TAC 3000™ COMPARATOR
FLASHport® UPGRADES

Ordering Information

General Information

1. FLASHport® Upgrades are used to upgrade an ASTRO-TAC® Comparator to a different version of System Software, or to add features to existing comparators in the field.
2. FLASHport® Upgrades are also used to upgrade an ASTRO-TAC 3000™ Comparator to software download capability.
 - T6340 ASTRO-TAC 3000® FLASHport® upgrade.
 - New wireline cards (input/output port X223 - X230) may be required to upgrade to software download capability.
3. All of the upgrades shown will require the use of the Radio Service Software (RSS) to reconfigure the station after upgrade installation.
 - It is recommended that the current version of RSS should also be ordered when ordering an upgrade.

Ordering Requirements

1. If upgrading an ASTRO-TAC 3000™ to an ASTRO-TAC 3000™ with software download capability is desired, please order the following:
 - T6340 as the main line item.
 - If the wireline boards kits in the existing ASTRO-TAC 3000™ in the field are NOT CLN6883 OR CLN1269, please select U454aa (ENH: SOFTWARE DOWNLOAD CAP W/WL & ICS) as the FIRST sub-item.
 - The appropriate Input/Output option (X223 - X230) as the second sub-item.
 - If the wireline board kits in the existing ASTRO-TAC 3000™ in the field ARE CLN6883 OR CLN1269, please select U455aa (ENH: SOFTWARE DOWNLOAD CAP IC) as the FIRST sub-item. The Input/Output option is not required with U455aa option.
2. If upgrading an ASTRO-TAC 3000™ with software download capability to the next version of software is desired, please order the following:
 - T6341 as the main line item (quantity of 1).
 - CA00007aa ADD: SOFTWARE UPGRADE as the first sub-item.

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE UPGRADE DISK ONLY	-	T6341	729	\$0.00
SW SWNLD CAP FOR ATAC3K	Upgrades ASTRO-TAC 3000 to ASTRO-TAC 3000 with software download capability.	T6340	729	\$0.00

Options

Software Download Capable

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE UPGRADE	Order with T6341 only. Backplane IDs required. Backplane IDs must be entered in the same quantity as the option quantity.	CA00007AA	729	\$1,800.00
ENH: SOFTWARE DOWNLOAD CAP W/WL & ICS	Order with T6340 only	U454AA	729	\$150.00
ENH: SOFTWARE DOWNLOAD CAP IC	Order with T6340 only.	U455AA	729	\$400.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ENH: 2 I/O SW DNLD	Software Download Capable Input/Output port option. For Astro- TAC to ASTRO-TAC 3000 upgrades, order with T5730 and	X223AH	729	\$1,000.00

CAP UPGR	U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.			
ENH: 4 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X224AH	729	\$2,000.00
ENH: 6 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X225AH	729	\$3,000.00
ENH: 8 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X226AH	729	\$4,000.00
ENH: 10 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X227AH	729	\$5,000.00
ENH: 12 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X228AH	729	\$6,000.00
ENH: 14 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000	X229AF	729	\$7,000.00

	upgrades, order with T6340 and U454 or U455.			
ENH: 16 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X230AE	729	\$8,000.00

Accessories

FRU Kits

Description	Full Description	Nomenclature	APC	Price
FRU ASTRO TAC CONTROL PANEL	-	CLN1318	509	\$374.00
FRU ASTRO TAC LEFT PANEL	-	CLN1319	509	\$295.00
FRU ASTRO TAC RIGHT PANEL	-	CLN1320	509	\$200.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1318	FRU ASTRO TAC CONTROL PANEL	509	15
FIXEDSTN	SCB	CLN1319	FRU ASTRO TAC LEFT PANEL	509	15
FIXEDSTN	SCB	CLN1320	FRU ASTRO TAC RIGHT PANEL	509	15
CNTLPATH	SCB	T6340	SW SWNLD CAP FOR ATAC3K	729	92

CNTLPATH	SCB	T6341	SOFTWARE UPGRADE DISK ONLY	729	7
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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

**ASTRO-TAC® RECEIVER
CONVENTIONAL - FLASHport® AFTERMARKET UPGRADES**

Ordering Information

Ordering Requirements

FLASHport® Aftermarket Upgrades are used to upgrade ASTRO-TAC® receiver to a different version of System Software, or to add features to existing receiver in the field.

- 1. Order** the model number for the upgrade kit that represents the software version currently in the receiver as the Main-line item (T5756).
- 2. Select** a Station Control Board (SCB) as the first sub-item (X793)
 - The current selection is limited to the 'EPIC Board already in use' option (X793).
 - Both conventional and 6809 trunked ASTRO-TAC receivers have only used a version of the EPIC Station Control Board to date.
- 3. Select** a single station capability option as the second sub-item (U222, U223).
 - If the receiver is currently operating with 3.0 or a later version of the system software or Software Download (X980) has been ordered previously, then the receiver has software download capability (U222).
 - If the receiver is currently operating with pre 3.0 system software or Software Download (X980) has not been ordered previously, then the receiver does not have software download capability (U223).
4. Below are the kit numbers which appear on the SCB to help identify what version of SCB is currently being used within an existing receiver in the field.

System Type	SCB	EPIC I	EPIC II
Conv/6809 Trunked		TTN4094	CLN6873

5. The Serial Number for ASTRO-TAC® Receiver is REQUIRED when ordering any FLASHport® System or Feature upgrade package.

- The COF user will be prompted to enter the receiver serial number after ordering the main model for a FLASHport® upgrade.
- The serial number can be obtained through the use of the Radio Service Software, or from the label on the back of the receiver, or from the original invoice.

6. The SCB Number for ASTRO-TAC® Receiver is REQUIRED when ordering any FLASHport® System or Feature upgrade package.

- The COF user will be prompted to enter the SCB number after ordering the main model for a FLASHport® upgrade.
- The SCB# will be used to check that the correct SCB option (shown below) is ordered. It can be obtained by pulling the board.

7. The Station Identification Number (or Backplane ID#) for ASTRO-TAC® Receiver is REQUIRED when Software Download Capable (U222) is selected.

NOTE

All of the upgrades shown below will require the use of the Radio Service Software (RSS) to reconfigure the receiver after installation. It is strongly recommended that the current version of RSS should also be ordered when ordering any upgrade.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
CONVENTIONAL ASTRO TAC RECEIVER UPGRADE	-	T5756	729	\$650.00

Options

Station Capability

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE DOWNLOAD CAPABLE	Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has been ordered previously.	U222	729	\$0.00
ENH: NON-SFTWRE DOWNLOAD CPBLE	Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has not been ordered previously.	U223	729	\$0.00

Control Board

Description	Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE	Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00

Conventional Upgrades

Description	Full Description	Nomenclature	APC	Price
ENH: SPECTRA TAC CONVENTIONAL	Requires that station be equipped with either a 4-wire or 8-wire wireline. Standard when ordered with X777 or X888. NOT COMPATIBLE with X84.	X269	509	\$310.00
ENH: MULTI PL COMPATIBILITY	Provides two modes of operations; user selects one or the other with the RSS:	X286	509	\$460.00
ENH: REMOTE RSS COMPATIBILITY	-	X288	509	\$200.00
ENH: CONV ASTRO CAI UPGRADE	For Conventional Analog (X597) migrating to Conventional ASTRO CAI. **REQUIREMENTS --EPIC SCB(X791 or X793) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797) built prior to 9/15/96. OR --Wireline board in use built after 9/15/96 (U438) **To utilize Ethernet capability, Ethernet Service Kit (REX4430) is required.	X806 G	729	\$1,782.00
ENH: 6809 TRUNKING UPGRADE	REQUIRED 1 Cable (X244, X337, X338 or X339)	X997	195	\$220.00
	REQUIRES:n--EPIC SCB (X791, X792, or X793)n--MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline			

ENH: SW DWNLD W/ETHRNT CAPBLTY	(X797)built prior to 9/15/96. OR n--Wireline board in use built after 9/15/96 (X438)n**In additonn--One Cable options is required (X841, X844, X145, X146 or X147.) n--Requires IR Site Termination Hardware (X843) PER SITE.	X980	729	\$400.00
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Trunking Cables

Description	Full Description	Nomenclature	APC	Price
ADD: CABLE TRUNKING 25'	-	X244	195	\$50.00

Trunking Upgrades

Description	Full Description	Nomenclature	APC	Price
ENH: CURRENT SFTW VERSION	Provides latest version of conventional software, with no feature upgrades.	X795	195	\$200.00
ENH: SZ6809 ASTR CAI TRK UPGRADE	REQUIRES: --EPIC SCB (X791) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797)built prior to 9/15/96. OR Wireline board in use built after 9/15/96 (X438) -- CHOOSE ONE CABLE(X244, X337, X338, X339) --X889 may be required.	X897 D	195	\$1,961.00

Wireline Options

Description	Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE	Conventional, 6809 Trunked, amd IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T5756	CONVENTIONAL ASTRO TAC RECEIVER UPGRADE	729	56

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[JUMP TO ...](#)
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SHIP CARD](#)

Model

ASTRO-TAC® 9600
Comparator
For Project 25 Systems

Ordering Information

General Information

One comparator unit is required for each group of base stations on a single inbound RF frequency in a ASTRO®25 Trunked simulcast system. In multiple inbound frequency systems, a separate comparator is required for each frequency. The ASTRO-TAC 9600 comparator will vote or process ASTRO® (digital) signals only with ASTRO 25 systems using compatible stations and receivers, e.g. STR 3000, ASTRO-TAC Receiver, QUANTAR® ISR. The ASTRO-TAC 9600 comparator is **NOT** compatible with existing analog equipment using status tone. It is also **NOT** compatible with mixed mode or SECURENET® systems.

Ordering Requirements

1. ASTRO-TAC 9600 Comparator hardware has been cancelled. Software upgrades to the final certified release are still available.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
A-TAC 9600 UPGRADE	Comparator Upgrade CD. Must add CA00093AA option for number of upgrades required.	T6592	729	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO-TAC 9600	Order with T6592. Quantity should be equal to number of	CA00093AA	729	\$400.00

SOFTWARE UPGRADE	comparators being upgraded			
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	T6592	A-TAC 9600 UPGRADE	729	2

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

MODEL



**AVIGILON
VIDEO
SURVEILLANCE**

AVIGILON VIDEO SURVEILLANCE

Acquired by Motorola Solutions on March 28, 2018, Avigilon offers video surveillance and door access control systems. This page contains the video surveillance products, including high resolution cameras, Video Management Software, Video Analytic Software, video storage, and ancillary components for video surveillance systems.

ORDERING INFORMATION

Products that are available for direct ordering in COF are noted in the appropriate column on the [product spreadsheet](#). If you require an item that is not yet set up in COF, please contact Marian Cosmides (847-576-0572) or Luis Germoso (847-576-0577) for assistance. Once your ordering requirements are finalized, the process generally takes 48 hours to complete.

Once available in COF, Avigilon products can be ordered and delivered in the same manner as any radio product.

CONFIGURATION

A training video is available [at this link](#) to obtain a high level familiarity with Avigilon, its

products and the primary markets they serve.

Opportunities for Avigilon sales should be registered at avoleads.motorolasolutions.com

Complete product descriptions and marketing materials can be found at Avigilon's website at: <http://avigilon.com/products/>

Local sales and engineering design support may be arranged by registering your opportunity at avoleads.motorolasolutions.com, or by contacting the local Avigilon Sales Representative for your area. A complete contact list is available [at this link](#).

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GENERAL INFORMATION

BUILDINGS AND SHELTERS

For product/ordering information or questions, contact the Product Planner, [Luis Germoso](#) (847-344-0574).

Motorola's building offerings are completely customizable, allowing the customer to only pay for their specific needs. The Motorola Standard Building (MSB) & and Motorola Alternate Building (MAB) enclosures are designed to maximize space, which allows the customer to purchase what they need with the ability to expand in the future. Motorola provides a complete end to end solution for the customer.

MSB vs MAB

MSB

- All inclusive concrete shelter with the ability to delete a few major items, such as UPS, generator, etc.
- Ships fully assembled.
- 2 year Interior Warranty & 10 year Structural.

MAB

- Lightweight fiberglass "aggregate" panel shelter with wood floor & concrete floor option.
- Contains basic R56 components w/ lengthy list of options to add based on desired level of compliance.
- 2 year Interior Warranty & 2 year Structural.

Product Comparison

-

MSB (Motorola Standard Building)	Description	MAB (Motorola Alternative Building)
300 psf concrete waffle design	Floor and loadings	200psf wood with i-beam skid perimeter (upgrade to concrete)
150 psf solid concrete	Roof and loading	100 psf Galvaneal steel with membrane
150 MPH wind loading; 4" solid concrete with exposed aggregate exterior; level 4 bullet resistant; 2 hour fire rated	Walls and loadings	120 MPH wind loading; galvaneal steel with exposed aggregate fiberglass panels exterior
300 psf floor;150 psf roof;150MPH Wall	Loadings	200psf floor;100psf roof;120MPH Wall
Exposed aggregate	Exterior	Exposed aggregate fiberglass panels

Redundant (2 units) system	HVAC	Fresh air, thermostat controlled exhaust fan system (optional upgrade to single or dual HVAC units)
Utility power panel, TVSS, enclosed circuit breakers as safety disconnect all separate components	Electrical service	Utility power panel with separate MOV/SAD Type 1 TVSS required. An Integrated Load Center may be used and is acceptable.
R-4	Insulation (R-factor) floor	R-11
Standard	Generator	(Optional Upgrade)
Standard	UPS	(Optional Upgrade)
24" wide	Cable tray size	18" Wide
Standard set	Alarms	(Optional Upgrade)
Eye wash and first aid kit and (2) fire extinguishers per room	Safety Equipment	Eye wash and first aid kit (optional upgrade to add both fire extinguishers) per room
Meets or exceeds R-56	Grounding	Meets or exceeds R-56
10 year structural, 2 year HVAC, 2 year generator set, 2 year TVSS, 2 year UPS	Warranty	2 year structural, 2 year HVAC, 2 year generator set, 2 year TVSS, 2 year UPS

Below are examples of standard products.

Motorola Model Number	Description	List Price
TT1000	MSB, 12' X 16' CONCRETE BLDG, INCLS UPS & GENERATOR, FULLY COMPLETE	\$143,929.60
TT1004	MSB, 12' X 10' CONCRETE BLDG, INCLS UPS & GENERATOR, FULLY COMPLETE	\$126,859.20

Motorola competitively bids every custom shelter quote with 3 suppliers to obtain the best cost.

Preferred Suppliers:

[VFP](#)

[Thermo Bond](#)

[Oldcastle](#)

Custom Quotes

If the standard MSB or MAB configurations do not meet the customer's needs, please contact the Building Product Planner and provide a complete list of requirements The Product Planner will work with the building vendors, in order to provide a quote.

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Model

CAC/PIV Security Update Service (SUS) and CAC/PIV Support Services

Command Access Card (CAC), Personal Identity Verification(PIV)

SECURITY UPDATE SERVICE (SUS)

CAC/PIV SUS is an additional option in addition to SUS. Customer must be have an active SUS contract addition to CAC/PIV SUS. CAC/PIV Security Update Service supports ASTRO 7.17.3 System Release (SR) and follows the Services Lifecycle Support Policy. Motorola reserves the right to adjust which releases are supported as business conditions dictate. Contact your Customer Service Manager for the latest supported releases.

CAC/PIV SUS is available for any L or M core system in a supported release.

Systems that have non-standard configurations that have not been certified by Motorola Systems Integration and Testing (SIT) are specifically excluded from this Service unless otherwise agreed in writing by Motorola.

CAC/PIV SUS services includes clients and servers to enable CAC/PIV capability.

Benefits

- Maintain Compliance
- Protect Continuity of System Operations
- Minimize Risk and Cost
- Increased network availability
- Reduce the vulnerabilities addressed by security patches and increase the safeguards of confidentiality, integrity, and availability of mission-critical systems.
- Reduced maintenance costs
- Dramatically reduce potential for system downtime; resulting in fewer maintenance costs to restore the system back to proper operational state.
- Assurance
- Motorola assumes responsibility to verify security updates without unnecessary burden to your staff.
- Better use of technical resources

- Keep staff focused on core responsibilities relying on Motorola to deliver the expertise and support for a proper cybersecurity regimen.

Statement of Work

Ordering Requirements

Applicable to an ASTRO 7.17.3 system release. Complete the Quote Tool for all applicable pricing.

Configuration

CAC/PIV SUPPORT SERVICES ASTRO25 SYSTEM ADVANCED PLUS PACKAGE

Motorola's Advanced Plus Services are designed for customers who would benefit from Motorola's support experience. Advanced Plus Services are delivered through a combination of centralized resources within Motorola's Solutions Support Center (SSC) collaborating with authorized local field services delivery resources that are experienced in managing mission-critical networks and associated technologies. The MSI SSC operates 24 x 7 x 365, leveraging field resources that are either dedicated to the network or engaged as needed.

Advanced Plus Services applies to fixed end communications network equipment located at the network core, RF site, and dispatch sites. Advanced Plus Services do not include maintenance of mobile or portable devices or network backhaul.

ASTRO25 SYSTEM ADVANCED PLUS PACKAGE	LSV01S01109A	15 % of CAC/PIV Product List Price	APC 0373
MSI Security Update Service	\$30,000 USD per year		
MSI Preventive Maintenance 1			
MSI Dispatch			
MSI Onsite Sys Support-Std			
MSI System Tech Support			
MSI Repair and Return			
MSI Network Monitoring			
MSI Remote SUS Mgt			
MSI Advance Exchange	optional		
MSI Preventive Maintenance 2	optional		
MSI Onsite Sys Support-Premier	optional		
MSI Security Monitoring	optional		
MSI Backhaul Monitoring	optional		
MSI ASTRO Pkg Upsell A Applied if renewal meets for the Upsell criteria	optional		
MSI ASTRO Pkg Upsell B Applied if renewal meets for the Upsell criteria and Advanced Replacement option is selected	optional		

SVC02SVC0433A ASTRO SUA II FIELD IMPLEMENTATION SVC	mandatory		
SVC02SVC0343A RELEASE IMPACT TRAINING	mandatory		
SVC02SVC0344A RELEASE IMPLEMENTATION TRAINING	mandatory		
For Itemized CAC/PIV Service capability allocation , please refer the below table (P.S - Based on the standard advanced service package allocation)			
Network Monitoring	5%		
Technical Support	5%		
Dispatch Service	2%		
Onsite - Regular	19%		
Preventive Maintenance	10%		
Infrastructure Repair	23%		
Advanced Replacement	7%		
Network Security Monitoring	3%		
Security Update Service	N/A	Refer above	
Remote SUS	N/A	Refer above	
SUA	25%		

SELF-INSTALLED COMMAND ACCESS CARD AND PERSONAL IDENTITY VERIFICATION WITH SECURITY UPDATE SERVICE		
Service Model	Description	
LSV01S01673A	SELF-INSTALLED CAC/PIV	\$30,000 USD per year
Requires		
SVC04SVC0016C	SECURITY UPDATE SERVICE	Use Quote Tool for associated pricing
Optional		
LSV01S00712A	REBOOT SUPPORT	Use Quote Tool for associated pricing

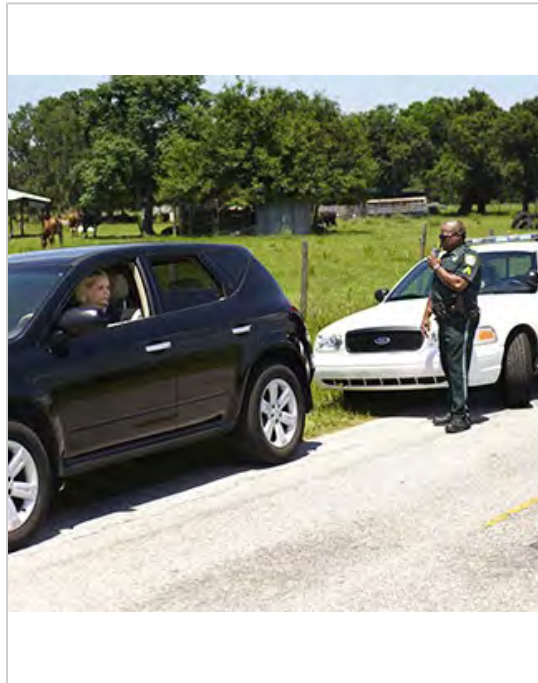
COMMAND ACCESS CARD AND PERSONAL IDENTIFY VERIFICATION WITH REMOTE SECURITY UPDATE SERVICE		
Service Model	Description	
LSV01S01674A	CAC/PIV WITH RSUS	\$30,000 USD per year
Requires		
SVC04SVC0016C	SECURITY UPDATE SERVICE	Use Quote Tool for associated pricing
SVC01SVC0140A	REMOTE SUS	Use Quote Tool for associated pricing
Optional		
LSV01S00712A	REBOOT SUPPORT	Use Quote Tool for associated pricing

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



CAI Data Encryption Module (CDEM)

Ordering Information

General Information

The CAI Data Encryption Module (CDEM) is an optional component that provides data encryption and decryption services for the ASTRO® 25 Conventional with Integrated Data feature. The CDEM is located in the Radio Network Infrastructure (RNI) and connects to the Packet Data Gateway (PDG). The CDEM performs packet data encryption and decryption for inbound and outbound datagrams. This unit provides secure communications between the endpoints of the subscriber unit and the PDG. Packet data is in the form of Common-Air-Interface datagrams. The CDEM supports centralized key management via store and forward using Key Variable Loader (KVL) as well as Over-the-Ethernet Keying (OTEK).

Features

- Supports DES-OFB and AES 256 Encryption Algorithms
- FIPS-140-2 level 3 Security
- Easy installation with standard RJ-45 Ethernet ports for network interfaces
- Data encryption keys can be centrally managed using a Key Management Facility (KMF)
- Easy to configure
- Low Power Consumption
- Small size/light weight

APCO Project 25 Compliant Algorithms

- AES 256
- DES-OFB

FIPS 140-2 Certified Algorithms

- AES 256

Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

Ordering Requirements

When requiring data encryption in a Conventional system, please select the following items for the CAI Data Encryption Module (CDEM):

1. Orders for a new CDEM Unit must select main hardware model (T7618A).
2. Must select at least one (1) RS232 Cable (DLN6693) per CDEM Unit.
3. Must select one (1) required ASTRO 25 CDEM Operation (CA01535AA).
4. Must select at least (1) of the single Encryption Algorithm Kits listed below:
5. Select one (1) AES Encryption Kit (CA00182AT) or (1) DES-OFB Encryption Kit (CA00143AD) or (1) of both Encryption Kits.

The following items are shipped with the ASTRO 25CDEM Unit Hardware (T7618A) :

- 2 Ethernet Cables
- 1 AC Power Supply

Accessory Information:

Customers must order one TKN9284 Rack/Cabinet Mounting Tray if the CDEM unit is to be installed in a rack or cabinet with PDG unit.

Customers must order at least one TKN8531C Keyloader Cable for loading encryption keys on Encryption Unit, if utilizing the KVL 3000 Plus.

Note: In order to perform encrypted only key fill on the CDEM (which is required to operate the CDEM in a FIPS 140-2 Level 3 compliant mode), a Key Variable Loader which supports encrypted key fill is required. A KVL 3000 Plus with software version R03.52.45 or later, or KVL 4000 with any software version is necessary to support encrypted only key fill.

If spares are required please order an additional unit.

Products, kits, components and software that contain encryption functions or features, and technology related to the development or implementation of encryption functions or features, will generally require an approved export license prior to export. If required, export license approvals will be based on the algorithms involved, the country of final destination and the specific end user. Depending on the location of the entity making the sale and the source location of the encryption items it may be necessary to obtain licensing from more than one country for the same sale. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Configuration

Model

HARDWARE

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00

Options

SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Accessories

Description	Full Description	Nomenclature	APC	Price
RACK/CABINET MOUNTING TRAY	-	TKN9284	137	\$85.00
CABLE FOR RNC, DIU MGEN	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00

RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00
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CDEM Upgrade Kits

An Existing CDEM can be upgraded to the latest software. This is required for ASTRO customers upgrading to A7.15 of higher, who currently have CDEMs purchased prior to A7.16.

For upgrade with KVL 4000, Order the following to upgrade CDEM software:

Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: CDEM SOFTWARE UPGRADE	-	CA01847AA	137	\$50.00

CDEM Encryption Upgrade Kits

An existing CDEM user can add on an AES or DES-OFB algorithm kit to their fielded unit by using a Key Variable Loader (KVL) 4000 unit.

Below is the Encryption Upgrade Kit that needs to be ordered when using a KVL 4000 unit:

1. Must order (1) CDEM Encryption Upgrade Kit (T7666)
2. Must choose only (1) AES (CA00182AT) or (1)DES-OFB (CA00143AD) algorithm option with model T7666

Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

NOTE: KVL3000 flashport upgrade has been cancelled, effective September 30, 2015

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	137	25
FIXEDSTN	SCB	T7666	CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	137	4
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGE G	362	19
FIXEDSTN	SCB	TKN9284	RACK/CABINET MOUNTING TRAY	137	25

JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE & SERVICES](#)

Model

**NEN 2000 - Calypso**

Ordering Information

General Information

The NEN 20000 - CALYPSO is a highly capable and robust software-defined radio (SDR) transceiver that eliminates the need to carry multiple pieces of equipment to support varying mission types. The NEN 20000 - CALYPSO provides the technical agility to process multiple radio technologies and frequencies from TETRA to LTE all in a single, low SWaP platform.

The platform allows for generic transmission and reception for the rapid prototyping and development of custom and commercial radio technologies residing in the 70 MHz thru 6 GHz spectrum. Demonstrated waveforms include: GSM, UMTS, CDMA2K, LTE, 802.11b/g, and TETRA.

Features

- Gigabit Ethernet for command and control
- Status LEDs
 - Ethernet Link
 - Ethernet Activity
- Locking custom 9 pin antenna connector
 - 1 GPS connection
 - 8 generic half-duplex RF connections

- Communication and Power for connection to custom antennas
- Locking DC Power (+5VDC)
- eSATA port
- uSD interface
- uUSB port
- Supported Bands
 - Tunable from 70 MHz thru 6 GHz
 - 56 MHz instantaneous bandwidth per transceiver
- Internal GPS
- Freescale i.MX6 Quad-Core processor @1.0 GHz/core
- Xilinx Virtex-7 VX485T-2
- Size: 6.9"x 3"x 1.25" Weight: 1.1lbs

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Model

Description	Nomenclature	Price
Calypso SDR (Kit)	EDKT00162	\$40,150

One (1) Calypso unit consisting of an advanced, state-of-the-art, small-form-factor Software Defined Radio (SDR), utilizing modern embedded microprocessor and FPGA technology suitable to handle complex radio applications in the 70-6000 MHz spectrum. Each Calypso unit provides the user with the following:

- (1) locking custom 9-pin antenna connector providing:
 - (1) GPS connection
 - (8) generic half-duplex RF connections
- (1) 10/100/1000 Ethernet connector (RJ45)
- (1) +9 to +36VDC power input connector (Custom Ruggedized)
- (1) eSATA port

One (1) Calypso power cable consisting of a Tin leaded 36" power cable with mating connector to Calypso unit.

- One (1) CD with RF Recorder application (Version 2.4 or later)

Product description: The RF Recorder application provides the end user with a capability to view and record RF spectrum. It provides an easy to use graphical interface that allows the user to select the center frequency and bandwidth of interest and save the captured digital base-band I/Q data. It also allows the user to play back saved files for later analysis.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR LOST SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

Model



NEN 2100

Calypso-3U-VPX

Ordering Information

General Information

CALYPSO-3U-VPX Software Defined Radio is

Open Architecture, Low cost,

Robust, Highly capable,

Powerful, Low power consumption

Right for your mission.

CALYPSO-3U-VPX Software Defined Radio is available in 2 form factors (options); the standard **CALYPSO-3U-VPX** form factor and the **CALYPSO-3U-VPX-MORA** form factor.

Technically agile solution. The **CALYPSO-3U-VPX** has a flexible front end giving the user the agility to process a variety of radio technologies from TETRA to LTE with a single, compact piece of hardware. Perform a variety of missions using the **CALYPSO-3U-VPX** integrated RF solution using either form factor.

MORA compliant option:

The **CALYPSO-3U-VPX-MORA** is the latest addition to the **CALYPSO** small-form factor

SDR family. The **CALYPSO-3U-VPX-MORA** product supports the U.S. Army's Modular Open RF Architecture (MORA) initiative. The unit is a MORA compliant RF system implemented in the popular OpenVPX™ module form factor. The **CALYPSO-3U-VPX-MORA** low-SWaP software defined radio addresses the size, weight, and power consumption (SWaP) constraints of today's ground vehicles and aircraft.

Features

- CALYPSO-3U-VPX-MORA connectors
 - P0 and P1 - power, utility, data, control
 - 1000Base-BX and 10GBASE-KX4 on P1
 - OpenVPX
 - MORA 2.0 Compliant
 - Compliant with ANSI/VITA 65 and 67.2
 - 8RF Transceiver connections per VITA 67.2
 - Multiple I/O Options per VITA/MORA standards

- Generic Transmission and Reception - 70 MHz thru 6 GHz
- Supports Instantaneous Bandwidth Rx: 56MHz, Tx: 40MHz
- Freescale i.MX6 Quad-Core processor @1.0 GHz/core
- Xilinx Virtex-7 VX485T-2
- Power Output: -4 to 18 dBm
- RX Gain: 53 to 78 dB
- Input Voltage: 12 volts
- Idle Current: 0.5 to 1.5 amps
- Max Current: 2.1 amps
- Size: 170.6mm x 100mm Weight: 1.1lbs

SUPPORTED APPLICATIONS/TECHNOLOGIES

- Direction Finding/Line of Bearing
 - GSM, CDMA2K, UMTS, LTE, WiMax

- Rapidly Deployable Base Station
 - GSM, CDMA2K, UMTS, LTE-FDD

- RF spectrum record and playback

TARGET ENVIRONMENTS

- FIXED SITE
- GROUND VEHICLES
- AIRBORNE

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Models

Description	Nomenclature	Price
CALYPSO-3U-VPX-MORA	FDKT00449	\$60,500
CALYPSO-3U-VPX	EATD00383	\$49,500

The CALYPSO-3U-VPX and CALYPSO-3U-VPX-MORA units consist of an advanced, state-of-the-art, small-form-factor Software Defined Radio, utilizing modern embedded microprocessor and FPGA technology suitable to handle complex radio applications in the 70-6000 MHz spectrum.

CALYPSO-3U-VPX and CALYPSO-3U-VPX-MORA Basic Kit Product description: The RF Recorder application provides the end user with a capability to view and record RF spectrum. It provides an easy to use graphical interface that allows the user to select the center frequency and bandwidth of interest and save the captured digital base-band I/Q data. It also allows the user to play back saved files for later analysis.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR LOST SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Cambium Networks PTP and PMP Maintenance Services

Ordering Information

Executive Summary

Cambium Networks Point-to-Multipoint (PMP) and Point to Point (PTP) solutions help municipalities and government agencies of all sizes realize the benefits of high-speed wireless connectivity. PMP and PTP systems can be deployed faster, easier and more cost-effectively, helping communities connect underserved areas, improve community safety with video surveillance, save tax dollars, empower public works and public safety departments to be more effective. PTP and PMP solution are available in a variety of Unlicensed and Licensed bands which enable wireless broadband to send data, voice, and/or video simultaneously. These solutions are cost effective, easy to deploy, reliable, and can be configured in a way that best suits your customer's needs. The PMP and PTP solution is a build-as-you-grow for your Motorola system. Its advanced scalability allows you to quickly accommodate changing needs, wider geographical areas, larger populations and higher traffic volumes. In addition, its high tolerance for interference and its directional antennas assure that adding additional transmitters increases capacity without degradation of performance.

Product Description

Overview

Cambium Networks 1st Year All Risk Advance Maintenance Service

This is an enhanced maintenance service that would replace the 12 month standard warranty that a customer would normally receive when purchasing this equipment. The All risk Advance Maintenance will entitle a customer to receive a replacement unit and all accidental damages are covered. The replaced unit will ship out same business day if the unit is reported to the call center by 3PM EST. If the call center receives the request after 3PM EST then the unit will be shipped out next business day. This service also entitles the customer to remote monitoring and 7X24 technical supports.

Cambium Networks Hardware Repair Maintenance Service

This Service will enable for a customer to send their unit back for repair services. The repair services will only cover manufacturer's defects. If the unit is deemed to be irreparable, then the unit will be the supplier's responsibility to replace the unit with a refurbished unit. The average cycle time for Point-to-Point and Point-to Multi-Point repairs is 30 days.

Cambium Networks All Risk Advance Maintenance Service

The All risk Advance Maintenance will entitle a customer to receive a replacement unit and

all accidental damages are covered. The replaced unit will ship out same business day if the unit is reported to the call center by 3PM EST. If the call center receives the request after 3PM EST then the unit will be shipped out next business day. This service also entitles the customer to remote monitoring and 7X24 technical support.

NOTE: The terms and conditions of all Statement of Works (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Key Websites

MSI Service Wiki site: <http://compass.mot-solutions.com/web/gpsvc3rdp>

Dispatch Page: [Dispatch Services](#)

Onsite Page: [Onsite Infrastructure Response Service](#)

****Please click on the MSI Service Wiki site for all key service documents; such as SOWs, How to Guide, and the Service FAQ. ****

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of [Work](#)

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Ordering Requirements

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application (SLC). Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

[How to Order Guide](#)

Models & Options

Cambium Networks™ Delivered Services		
Model Number	Description	Annual Price

SVC02SVC0349A	All Risk Advanced Replacement during 1st Year Warranty	Quote required
SVC02SVC0350A	Hardware Repair 1 Additional Year	Quote required
SVC02SVC0351A	All Risk Advanced Replacement 1 Additional Year	Quote required
SVC02SVC0352A	Hardware Repair 2 Additional Years	Quote required
SVC02SVC0353A	All Risk Advanced Replacement 2 Additional Years	Quote required
SVC02SVC0354A	Hardware Repair 4 Additional Years	Quote required
SVC02SVC0355A	All Risk Advanced Replacement 4 Additional Years	Quote required

Configuration

Motorola Delivered Services

SVC01SVC1410C

Onsite Infrastructure Response Service

Description	Full Description	Nomenclature	APC	Price
PTP UNITS 1-50	-	SVC806AG	769	\$300.00
PTP UNITS 51-75	-	SVC807AG	769	\$450.00
PTP UNITS 75-150	-	SVC808AG	769	\$774.00
PTP UNITS 151-225	-	SVC809AG	769	\$1,125.00
CANOPY 1-50 PCS -ALL COMPONENTS	-	SVC826AB	769	\$300.00
CANOPY 51-75 PCS ALL COMPONENTS	-	SVC827AB	769	\$450.00

CANOPY 76-150 PCS ALL COMPONENTS	-	SVC828AB	769	\$774.00
CANOPY 151-225 PCS ALL COMPONENTS	-	SVC829AB	769	\$1,125.00

SVC01SVC1102C

Dispatch Service

Description	Full Description	Nomenclature	APC	Price
PMP UNITS	-	SVC810AG	006	\$70.00
PTP800 SERIES UNITS	-	SVC811AG	006	\$70.00
PTP CONNECTORIZED LINKS AND END	-	SVC812AG	006	\$102.00
PTP INTEGRATED LINKS AND END	-	SVC813AG	006	\$102.00


SVC01SVC1105C

Customer Technician Dispatch

Description	Full Description	Nomenclature	APC	Price
PMP UNITS	-	SVC814AG	006	\$70.00
PTP 800 SERIES UNITS	-	SVC803AG	006	\$70.00
PTP CONNECTORIZED LINKS AND END	-	SVC804AG	006	\$102.00
PTP INTEGRATED LINKS AND END	-	SVC805AG	006	\$102.00

Ship Card

Data Not Available



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JUMP TO ...

[MODEL](#)

[GENERAL INFORMATION](#)

[FEATURES](#)

[ORDERING REQUIREMENTS](#)

MODEL

CirrusCentral Management

GENERAL INFORMATION

CirrusCentral Management provides users with tools that will increase troubleshooting efficiency of system network faults and provide better insights so customers can make better decisions about their network. These applications are not a replacement of any ASTRO P25 system management applications that our customers rely on today, but rather a complementary set of modern applications that enhance the current network management suite and can be accessed from anywhere. Customers will still be able to access all of their current on-premise applications that they rely on today.

CirrusCentral cloud-based system management will support the following customers:

WHO?



Commercial, Utility, & Public Safety

* Federal Customers will be supported in future release due to FedRAMP certifications

SYSTEM CONFIGURATION

Minimum Requirements:

Trunked ASTRO P25

A7.17+

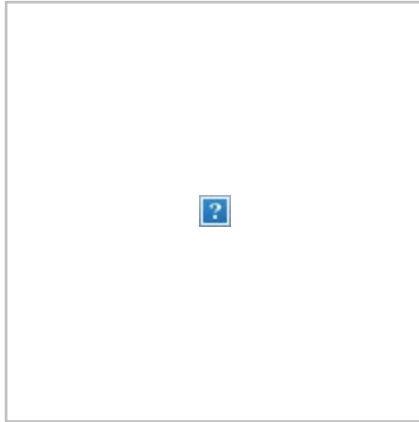
Single Zone Only

1-50 Sites

* Further design and performance considerations will need to be made for multi-zone & conventional systems

WHERE?

UNITED STATES



* US Hosted Cloud → international customers not currently supported due to requirement of cloud instances hosted in their home country

FEATURES

- **System Health Dashboard:** An at-a-glance view of the customers system health. This view includes fault status for each RF site in the system and trends for the last two hours.
- **Alarm & Event Lists:** Provides customers a list of alarms and events in their system.
- **System Topology Drill Down:** Provides customers the ability to view their system in a drill down menu and determine which infrastructure devices are triggering alarms along with information on what those alarms are.
- **Alarm Aggregations & Filtering:** To prevent alarm flooding, alarm aggregation groupings are created through predefined rules. In addition, customers will have the ability to create their own alarm aggregation groupings to address use cases that are not covered by the predefined rules. This feature also adds alarm filtering so the user can easily locate specific alarms of interest.
- **Call Monitoring & Affiliations:** Provides customers with the ability to monitor call activity and get insights into the faults associated with call activity in a new modern web-based user interface. With this feature, customers will also have insights into their affiliations in their system by site and talkgroup.
- **System Performance Reporting:** Provides customers with reporting capability to make better decisions about their system network. Customers will have insights into their system's radio activity, system and site availability, system busies & rejects, and limited anomaly detection (cloned radio) reports.
- **Email & SMS Fault Notifications:** Provides customers the ability to subscribe to notifications based on the user's preference. These notifications are configurable based on the user's preferences.

- **System Load View:** Provides customers the ability to see their site loading at a glance. Customers can visually see how close to busy they are along with the trunking status at each site.

For more information about CirrusCentral Management, visit www.motorolasolutions.com/cirruscentral or refer to Motorola Solutions Sales for additional information.

ORDERING REQUIREMENTS

Please contact CirrusPdM@motorolasolutions.com if you have questions that this ordering guide does not cover - or if you need any further clarification.

The CirrusCentral Management solution will be offered as a pure subscription model. A subscription to CirrusCentral Management includes 3 main elements.

- Software Subscription Licenses
- Minimal on-premise hardware
- Connectivity transport (LTE) to the CirrusCentral Cloud

Software Subscription Licenses:

Customers who subscribe to CirrusCentral Management will have the option of choosing the Basic or Advanced Package via a yearly subscription. The subscription will be billed on an annual recurring basis until the customer elects to end their subscription. If the customer elects to end their software subscription, the software subscription will be deactivated and the customer and all users associated with that system will no longer have access to the software.

Both packages include the CirrusCentral Management hardware cloud enablement package which is included in the cost of the subscription. The CirrusCentral Management hardware cloud enablement package includes the following hardware:

- Sierra Wireless MP70 modem with Verizon LTE SIM card for transport to the cloud. The monthly subscription to Verizon is included in the cost of the software subscription.
- Dell 3930 and network cables required for connecting to the customer's DMZ firewall

No additional standalone hardware is required.

CirrusCentral Management also requires the Provisioning Manager Interface and North Bound Interface - these two licenses are included with each subscription.

The CirrusCentral Management basic package includes the following features:

- System Health Dashboard
- System Performance Trends

- Alarm & Event Lists
- System Topology Drill Down
- System Monitoring for up to 10 RF sites
- Support for up to 5 Users
- 90 days historical data storage

Description	Full Description	Nomenclature	APC	Price
CirrusCentral Management Basic Software Subscription	Annual software subscription for CirrusCentral Basic System Management	SSV02S01931A	360	\$35,000.00

The CirrusCentral Management basic package comes with RF site monitoring for up to 10 sites. To add additional RF site monitoring, order the quantity of RF sites that you have minus 10. The max number of RF sites that CirrusCentral Management supports is 50.

Description	Full Description	Nomenclature	APC	Price
ADD: Monitoring for 1 RF site	Monitoring for 1 additional RF site	SSV01S01932A	360	\$1,000.00

The CirrusCentral Management basic package comes with 5 user accounts. To add additional user accounts, order the following:

Description	Full Description	Nomenclature	APC	Price
ADD: Cirrus access for 1 user	Access to Cirrus for 1 additional user	SSV01S01933A	360	\$1,000.00

*NOTE: There is no maximum to the number of accounts a customer can have.

The CirrusCentral Management basic package comes with 90 days of historical data storage. If you would like to add additional data storage, please order Quantity 1 for each additional year:

Description	Full Description	Nomenclature	APC	Price
ADD: 1 Year historical data storage	Add 1 additional year of historical data storage	SSV01S01934A	360	\$5,000.00

*NOTE: Customer can add up to 10 years of historical data storage.

The following feature add-on options are available with CirrusCentral Management Basic package:

Description	Full Description	Nomenclature	APC	Price
ADD: Call monitoring and affiliations	Feature option for CirrusCentral call monitoring and affiliations.	SSV01S01935A	360	\$15,000.00
ADD: System performance reporting	Feature option for CirrusCentral system performance reporting	SSV01S01936A	360	\$10,000.00
ADD: Alarm aggregations and filtering	Feature option for CirrusCentral alarm aggregations and filtering	SSV01S01937A	360	\$10,000.00
ADD: Site load view	Feature option for CirrusCentral site load view	SSV01S01938A	360	\$10,000.00
ADD: Email and SMS fault notifications	Feature option for CirrusCentral email and SMS fault notifications	SSV01S01939A	360	\$7,000.00

The CirrusCentral Management Advanced package includes the following features:

- System Health Dashboard
- System Performance Trends
- Alarm & Event Lists
- System Topology Drill Down
- **Alarm Aggregations**
- **Call Monitoring & Affiliations**
- **System Performance Reporting**
- **System Monitoring for up to 20 RF sites**
- **Unlimited User Accounts**
- **1 year historical data storage**

* Items in **bold** indicate features above and beyond the basic package.

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Description	Full Description	Nomenclature	APC	Price
CirrusCentral management advanced software subscription	Annual software subscription for CirrusCentral advanced system management	SSV01S01940A	360	\$75,000.00

The CirrusCentral Management advanced package comes with site monitoring for up to 20 RF sites. To add additional RF site monitoring, order the quantity of RF sites that you have minus 20. The max number of RF sites that CirrusCentral Management supports is 50.

Description	Full Description	Nomenclature	APC	Price
ADD: Monitoring for 1 RF site	Monitoring for 1 additional RF site	SSV01S01932A	360	\$1,000.00


The CirrusCentral Management advanced package comes with 1 year of historical data storage. If you would like to add additional data storage, please order quantity 1 for each additional year:

Description	Full Description	Nomenclature	APC	Price
ADD: 1 Year historical data storage	Add 1 additional year of historical data storage	SSV01S01934A	360	\$5,000.00

NOTE: Customers can add up to 10 years of historical data storage.

FIELD REPLACEMENT UNITS (FRU):

Description	Full Description	Nomenclature	APC	Price
Cirrus management enablement package - Cirrus subscription required	Field replacement unit of Cirrus hardware enablement package	DSQUOTE 18304139	811	\$3,000.00
FRU: Cirrus management modem w/ LTE SIM card - Cirrus subscription required	Field replacement unit of Cirrus management modem and LTE SIM	DSQUOTE 18304149	811	\$1,163.00
FRU: Cirrus management node PC - Cirrus subscription required	Field replacement unit of Cirrus management node PC	DSQUOTE 18304160	811	\$1,707.00



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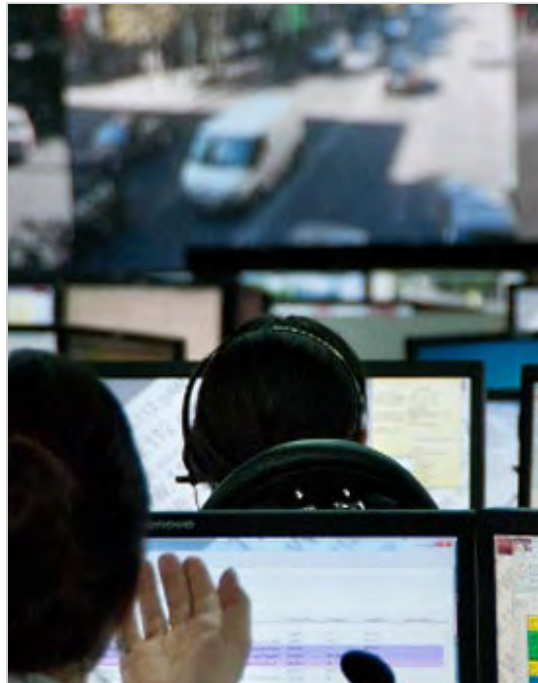
[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**Certificate Management Solution
CMS**

Ordering Guide

Ordering Information

[Ordering Guide](#)

For questions about ordering or quoting the CMS please contact the Product Manager, Jahnvi Kurapati:

jahnvi.kurapati@motorolasolutions.com

Configuration

Description	Full Description	Nomenclature	APC	Price
CERTIFICATE MANAGEMENT SOLUTION SOFTWARE	-	T8386	212	\$30,000.00
ADD: GEO REDUNDANCY	-	CA03136AA	212	\$30,000.00

ADD: 1 CMS LICENSE	-	CA03137AA	212	\$72.00
ADD: 100 CMS LICENSES	-	CA03138AA	212	\$6,481.00
ADD: 1,000 CMS LICENSES	-	CA03139AA	212	\$58,333.00
ADD: 50,000 CMS LICENSES	-	CA03140AA	212	\$525,000.00
G9 SERVER HARDWARE	-	SQM01SUM0295	704	\$18,000.00
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	060	\$115.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	060	\$20.00
EJBCA ENTERPRISE PKI APPLIANCE.	-	GMDN7167A	078	\$45,451.00
SLA-STANDARD SUPPORT PER UNIT AND YEAR	-	GMDN7168A	011	\$9,090.00
CMS AFTER MARKET UPGRADES	-	T8387	212	\$0.00
EJBCA APPLIANCE SIZE MEDIUM VERSION 2.8 PRICE/UNIT EXCLUDING SUPPORT A	-	GMDN7167B	078	\$58,167.00
PKI APPLIANCE EXTERNAL BATTERY ADAPTER	-	GMDN9021A	078	\$222.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	EPRI	GMDN7167A	EJBCA ENTERPRISE PKI APPLIANCE.	078	45

QUOTEDS	EPRI	GMDN7167B	EJBCA APPLIANCE SIZE MEDIUM VERSION 2.8 PRICE/UNIT EXCLUDING SUPPORT A	078	45
QUOTEDS	EPRI	GMDN7168A	SLA-STANDARD SUPPORT PER UNIT AND YEAR	011	45
QUOTEDS	EPRI	GMDN9021A	PKI APPLIANCE EXTERNAL BATTERY ADAPTER	078	45
FIXEDSTN	SCB	SQM01SUM0295	G9 SERVER HARDWARE	704	20
FIXEDSTN	SCB	T8386	CERTIFICATE MANAGEMENT SOLUTION SOFTWARE	212	20
FIXEDSTN	SCB	T8387	CMS AFTER MARKET UPGRADES	212	20

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Co-Channel and Adjacent Channel Interference Analysis Service

Ordering Information

General Information

Co-channel and adjacent channel interference will address the interference performance of a radio system with recommendations on mitigating harmful interference. This study will identify the risks associated with undesired co-channel and adjacent channels for the radio system technology used or proposed and aid in the development of plans for radio technology solution choices, system growth, expansion, and how to manage the system technology. Harmful interference will impact the radio system by reducing useable radio coverage, causing repeated transmissions which results in wasting time and compromising safety. This analysis will help lead to a radio system that operates in a highly reliable manner at reasonable cost.

For more information, please review the [Solution Resource Guide](#).

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager (ASM) or Customer Support Manager (CMS) for more details.
- **This product CANNOT be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

CommandCentral Analytics

Ordering Information

General Information

CommandCentral Analytics can help extrapolate meaningful intelligence quickly and easily

Use powerful data analytics, visualization, and information sharing to enable your agency to make better intelligence-led decisions at every level with CommandCentral Analytics. Your analyst and detectives can access the web-based tool from any internet-connected device to effortlessly turn crime data into intelligence, identify strategic priorities, and break down information silos. Visualize the data in heat maps, graph analytics, and geospatial views in the powerful and intuitive crime analytics dashboard. Automatically create reports for roll call, trendcasting, time-of-day (TOD)/day-of-week (DOW) reporting and more that can be shared with anyone.

Features

- **Real-Time Analytics:** Executive-style dashboards, roll call, trendcasting, heat maps, area breakdowns, crime-type analysis, time of day/day of week analysis and more.
- **Robust, Sharable Reporting:** Create ad hoc or scheduled reports and graphics custom to your organization's needs and send them to any email recipient.
- **Data Quality and Validation:** Eliminate common data entry errors such as mismatched and misclassified crimes. The Data Quality and Validation (DQV) tool includes built-in notifications regarding data fidelity, click-to-correct mismatched crimes, and rule assignments to ensure mismappings are fixed and prevented in the future.
- **Interjurisdictional Data Sharing:** Interjurisdictional Data Sharing is a premium module for CommandCentral Analytics. It gives users the ability to compile, review, and analyze data across two or more law enforcement jurisdictions at the same time. Switching from your agency's data to all shared data is as simple as the click of an on/off switch.
- **Shape File Support:** Segment your policing jurisdictions into separate beats or zones in order to provide staff with crime map reports detailing the criminal activity that occurred during their off time.
- **Unlimited Custom Analysis Tabs:** In addition to five preconfigured views, users can create an unlimited number of custom analysis tabs each allowing them to customize their preferred layout, what information they want to see, and how they want to see it.
- **Full Narrative Case Reports:** There are no restrictions on narrative length so you get a more complete and detailed understanding of incidents.

- **Vendor Agnostic:** Integrate CAD and RMS data from any existing vendor.
- **Device Agnostic:** Work seamlessly from desktop to mobile, regardless of device type or operating system used.
- **NOTE:** More information can be found on the Motorola Solutions Website found [here](#).

Ordering Requirements

CommandCentral can currently only be ordered via SLC 11i.

1. This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.
2. CommandCentral Analytics is Software as a Service (SaaS) delivered by Public Engines via our Smart Public Safety Solutions.
3. Enter the main service line
4. Service is subcontracted to Public Engines
5. Customer site will be loaded as sub-option
6. Population options can be found under pricing attributes
7. All dollar amounts reflect an annual one year pricing

Configuration

Service Models & Licenses

Software Subscriptions

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS BELOW 100K	-	SVC06SVC0611	138	\$0.00
POP QTY 0-1K	-	SVC531AH	138	\$999.00
POP QTY 1001-5K	-	SVC532AH	138	\$2,599.00
POP QTY 5001-10K	-	SVC533AH	138	\$5,099.00
POP QTY 10001-25K	-	SVC534AH	138	\$6,399.00

POP QTY 25001-50K	-	SVC535AH	138	\$7,399.00
POP QTY 50001-75K	-	SVC536AH	138	\$8,399.00
POP QTY 75001-100K	-	SVC537AH	138	\$9,399.00

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS ABOVE 100K	-	SVC06SVC0612	138	\$0.00
POP QTY 100001-125K	-	SVC538AH	138	\$10,599.00
POP QTY 125001-150K	-	SVC539AH	138	\$11,899.00
POP QTY 150001-200K	-	SVC540AH	138	\$13,299.00
POP QTY 200001-250K	-	SVC541AH	138	\$15,899.00
POP QTY 250001-300K	-	SVC542AH	138	\$16,599.00
POP QTY 300001-350K	-	SVC543AH	138	\$17,199.00
POP QTY 350001-400K	-	SVC544AH	138	\$17,399.00
POP QTY 400001-450K	-	SVC545AH	138	\$18,199.00
POP QTY 450001-500K	-	SVC546AH	138	\$18,799.00
POP QTY 500001-1M	-	SVC547AH	138	\$35.00
POP QTY ABOVE 1M	-	SVC548AH	138	\$30.00

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS IJDS	-	SVC06SVC0613	138	\$0.00
ANNUAL SUB	-	SVC529AH	138	\$12.00

ONE TIME SETUP FEE	-	SVC530AH	138	\$799.00
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Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS SET-UP FEE	-	SVC06SVC0614	138	\$0.00
ONE TIME SETUP FEE	-	SVC549AH	138	\$399.00

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Model

CommandCentral Analytics Plus, powered by LexisNexis

Motorola Solutions (“Motorola”) is pleased to offer a next-generation crime analysis and intelligence solution which will help you uncover more actionable insights to more effectively allocate resources and fight crime. CommandCentral Analytics Plus, powered by LexisNexis, integrates with your existing data sources, leverages a nationwide network of interjurisdictional data and includes integrated search of billions of public records from over 10,000 sources. It is designed to provide role-based experiences with purpose-built tools for users across your agency.

By investing in CommandCentral Analytics Plus, analysts can quickly identify crime trends with robust, but easy to use visualization tools. Detectives can use link analysis across datasets to easily track down leads. And, with the ability to seamlessly share insights across your agency you and your team can develop proactive initiatives to effectively allocate resources to address crime and better protect the community.

This is a cloud-based product, subscribed to as-a-service. It is highly accessible and cost-effective with predictable pricing. Product updates are seamless with new capabilities being delivered regularly. And, the cloud also provides proven security, reliability and availability that keeps you operationally ready.

CommandCentral Analytics Plus includes a professional services engagement for implementation and deployment, and is built upon our operational expertise, tools and best practices, perfected over our 90+ year history of working side-by-side with public safety.

Key Features and Functionality:

- Agnostic CAD / RMS Integration
- Configurable, Role-Based Experiences
- Robust Analytic Visualization
- Advanced Searching
- Accurint for Law Enforcement License
- Nationwide Public Safety Data Exchange
- Cloud-Based & Delivered as-a-Service
- Simple Visualization Controls
- LexID Link Analysis
- Easy Insight Sharing
- Access 10,000+ Public Records Sources
- Unlimited Dashboard Creation
- Granular Incident Data Detail
- Investigative Project Creation
- Reporting & Data Export

The CommandCentral Platform:

CommandCentral Analytics Plus is your path forward for uncovering more actionable data insights. But, it’s also a part of something more. We build software for mission-critical environments where every second matters. By unifying big data and streamlining workflows

from call to case closure, our CommandCentral Platform puts your information to better use, improves safety for critical personnel and helps keep your focus on the communities you serve. With 90 years of experience and proven public safety leadership, our suite is transforming public safety with a focus on evolution, not revolution, in order to help you digitally transform your operation.

Ordering Information

General Information

CommandCentral Analytics Plus can currently be ordered via CPQ in the Analytics model.

Analytics Plus is sold based on the # of First Responders (or # Sworn Officers).

# of First Responders (Sworn Officers)	List Price
0-25	\$11,800
26-74	\$13,800
75-124	\$16,800
125-249	\$20,550
250-499	\$34,850
500-749	\$47,350
750-999	\$69,700
1000-1499	\$104,550
1500-1999	\$135,800
2000-7999	\$268,000
8000+	\$649,000

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

CommandCentral Predictive

Ordering Information

General Information

CommandCentral Predictive solution can help predict 30% of next-day crime.

Utilize the power of analytics and prediction to identify where, when and what type of crimes will occur with CommandCentral Predictive. Using your Records Management System (RMS) data, the system "learns" from historical data specific to your jurisdiction and creates a prediction model for future crime. You receive daily, targeted crime forecasts in areas that are one-third smaller than their average patrol area, field tested to accurately predict on average 30% of next-day crime. Your officers receive detailed information on each prediction area, including full narratives, giving them the information required to take action in the field.

Features

- **Targeted Area Predictions (TAP):** Focused predictions are created by day, area and shift so they are relevant for each officer. Prediction boxes as small as 500' x 500' are easy to patrol and prioritized to help officers better understand where to spend their time.
- **Detailed Prediction Information:** Only CommandCentral Predictive tells officers where to look, and also what and who to look for. Summary data provides crime type, time frame and location, and is paired with detailed information including area crime history and full report narratives.
- **Data Quality and Validation:** Eliminate common data entry errors such as mismatched and misclassified crimes. The Data Quality and Validation (DQV) tool includes built-in notifications regarding data fidelity, click-to-correct mismatched crimes, and rule assignments to ensure mismappings are fixed and prevented in the future.
- **Vendor Agnostic:** Integrate Computer-Aided Dispatch (CAD) and RMS data from any existing vendor.
- **Device Agnostic:** Work seamlessly from desktop to mobile, regardless of device type or operating system used.
- **Street View:** Quickly and easily see a street-level view of prediction areas, centered at the point of the last crime, for greater situational awareness before heading out on the street.
- **CommandCentral Analytics Integration:** Built on the same platform with the same user interface, you can seamlessly switch between Predictive and Analytics for more efficient workflows.

NOTE: More information can be found on the Motorola Solutions Website found [here](#).

Ordering Requirements

CommandCentral Predictive can currently only be ordered via SLC 11i.

1. This product cannot be ordered directly through COF at this time. This product must

be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

2. CommandCentral Predictive is Software as a Service (SaaS) delivered by Public Engines via our Smart Public Safety Solutions.

3. Enter the main service line

4. Service is subcontracted to Public Engines

5. Customer site will be loaded as sub-option

6. Population options can be found under pricing attributes

7. All dollar amounts reflect an annual one year pricing

Configuration

Service Models


Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-PREDICTIVE BELOW 100K	-	SVC06SVC0615	138	\$0.00
COMMANDCENTRAL-PREDICTIVE ABOVE 100K	-	SVC06SVC0616	138	\$0.00
COMMANDCENTRAL-PREDICTIVE SET-UP FEE	-	SVC06SVC0617	138	\$0.00

Service Models & Licenses

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-PREDICTIVE BELOW 100K	-	SVC06SVC0615	138	\$0.00
POP QTY 0-1K	-	SVC550AH	138	\$2,799.00
POP QTY 1001-5K	-	SVC551AH	138	\$7,199.00

POP QTY 5001-10K	-	SVC552AH	138	\$13,999.00
POP QTY 10001-25K	-	SVC553AH	138	\$17,599.00
POP QTY 25001-50K	-	SVC554AH	138	\$20,399.00
POP QTY 50001-75K	-	SVC555AH	138	\$22,999.00
POP QTY 75001-100K	-	SVC556AH	138	\$25,999.00
COMMANDCENTRAL-PREDICTIVE ABOVE 100K	-	SVC06SVC0616	138	\$0.00
POP QTY 100001-125K	-	SVC557AH	138	\$32,799.00
POP QTY 125001-150K	-	SVC558AH	138	\$32,799.00
POP QTY 150001-200K	-	SVC559AH	138	\$36,599.00
POP QTY 200001-250K	-	SVC560AH	138	\$43,799.00
POP QTY 250001-300K	-	SVC579AH	138	\$45,699.00
POP QTY 300001-350K	-	SVC580AH	138	\$47,299.00
POP QTY 350001-400K	-	SVC581AH	138	\$47,899.00
POP QTY 400001-450K	-	SVC582AH	138	\$49,999.00
POP QTY 450001-500K	-	SVC583AH	138	\$51,999.00
POP QTY 500001-1M	-	SVC584AH	138	\$94.00
POP QTY ABOVE 1M	-	SVC585AH	138	\$83.00
COMMANDCENTRAL-PREDICTIVE SET- UP FEE	-	SVC06SVC0617	138	\$0.00
ONETIME SETUP FEE	-	SVC586AH	138	\$399.00

****All Items are orderable in SLC only****



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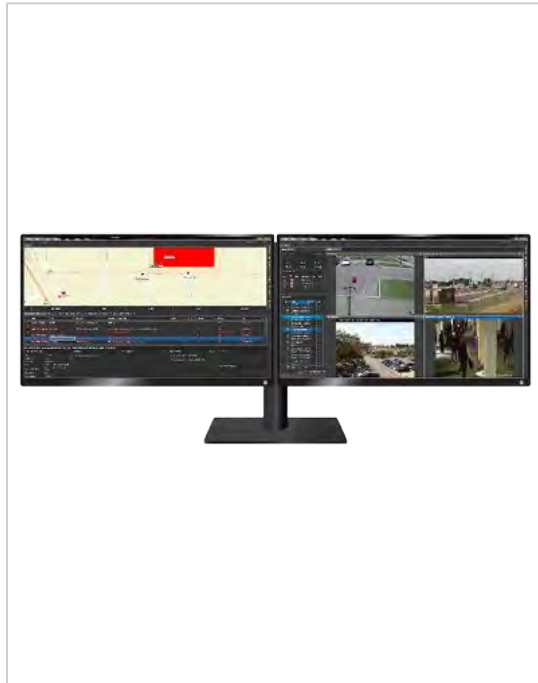
JUMP TO ...

MODEL

**GENERAL
INFORMATION**

CONFIGURATION

Model



Command Central Aware Alerts

General Information

CommandCentral Aware provides a complete operating picture, integrating real-time intelligence in the command center to remotely assist officers in the field. Simplify your operational view by consolidating your resources into one single pane of glass. Support officer safety by monitoring CAD incidents, responder location and real-time alerts. Alerts indicating a weapon draw, vest pierce or other emergency display the location and type of incident in real time on the consolidated map, helping dispatchers provide immediate support and improving officer and citizen safety.

MONITOR ACTIVITY FROM ANYWHERE

View all of your location-based data together, in real-time, on a single map display. This common operating picture can be accessed anywhere, from any internet-connected device.

ACT WITH THE NECESSARY CONTEXT

Communicate a more informed response to a critical incident and enhance responder safety for those in the field by accessing a common operating picture through CommandCentral Aware - directly from your agency's map.

COLLABORATE WITHOUT DISTRACTION

Control specific viewing permissions based on groups of users to ensure a focused

response from every team member during a critical event. Filter your view to only the datasets you need in the moment.

Further information can be found [here](#).

RESPOND QUICKLY TO ESCALATING INCIDENTS

Aware Alerts automatically show the command center what's happening to officers during an incident, whether that be an emergency, weapon drawn, vest pierce, man down alerts, and more. Alerts showing the location and type of incident on the consolidated map help personnel enhance situational awareness and improve officer and citizen safety.

Features

- **Command Central Aware Mapping:** Alerts inherits all functionality and capability of the Command Central Aware Mapping offer. CommandCentral Aware automatically informs the command center that a situation has escalated, with alert type, location and user identification without further action by the officer
- **Weapon Draw Alert and Conducted Electrical Weapon (Stun Gun) Draw Alert:** Sensors can be retrofitted to the most common holsters used and will send notifications when an officer un-holsters and re-holsters a weapon.
- **Weapon Fired Alert (Handguns Only):** This sensor can be retrofitted to certain handguns to send an alert that the weapon has been discharged. The sensor is located in the grip of the handgun.
- **Vehicle Impact Alert:** When a responder vehicle, equipped with APX mobile radios, experiences significant impact, an emergency alert will notify the command center of the situation and location.
- **Man Down Alert:** A man down emergency alert generated by all enabled APX portable radios appears as a notification when the radio is at an angle and there is no movement based on user parameters.
- **Vest Pierce Alert:** When a piercing event is detected, such as a shot or stab, an emergency alert is transmitted to notify command staff that a responder may be incapacitated and needs help. Insert sensors into existing body armor.
- **Si500 Contextual Activation:** Sensor activates Motorola Solutions' Si500 Video Speaker Microphone, a body-worn camera solution used for capturing, storing, and analyzing crucial video evidence, to start recording for post-event analysis.

For more information about CommandCentral Aware, visit motorolasolutions.com/aware or refer to Motorola Solutions Sales for additional information.

Ordering Information

The solution provides mapping of responder location and alerts. This offer also includes Enhanced Data Network and IMW Software Upgrades. If users also have ASTRO 25 consoles MC7200 and MC7500 on their system, the alert will also be sent to the consoles.

On an ASTRO 25 system release of 7.18 or higher, the customer will differentiate the

emergency event notification received. For example: If user pressed the orange emergency button, it will receive an emergency, but if emergency alert was activated from a vest pierced event, the console as well as CommandCentral Aware will be able to show vest pierced alert type and icon instead of emergency only.

Weapon Drawn, Conducted Electrical Weapon drawn and weapon fired alerts require sensors that are connected via Bluetooth Low Energy (BT LE) to a hub device (radio) Vest Pierce alert sensor connects to BT 2.1 capable radios. Vehicle Impact and Man Down are available within the APX 8500 mobile and APX subscribers respectively and do not require Bluetooth connectivity.

Data is sent from APX subscriber or mobile over ASTRO P25 Network to Command Central Aware.

	ASTRO
Network	ASTRO 7.16+
Data Capability	Enhanced Data
APX Radios	Radio Firmware required is 7.18.8 or beyond;. Vest Pierced is available on APX subscribers with Bluetooth Capabilities. Vehicle Impact is available on APX 8500 radios. Man Down is available on an APX model. Weapon Drawn, Conducted Electrical Weapon Drawn and Weapon Fired alerts is available on APX 6000BN or APX 8000.
Device Feature Set	APX P25 Radio w/ GPS, Standard BT or BT 4.0+, Enhanced Data
IMW services & Deployment	IMW 5.2.1
Application	Command Central Aware
Supported Weapons: Weapon Drawn Alert	Sig Sauer P226 (9mm, .4); P229 (9mm, .4), P320; S&W (9mm, .4); Glock 17,19,21,22,34 With these Safariland holster Models: Safariland 6280, 6360, 6390, 7360 and 7390
Supported Weapons: Conducted Electrical Weapon Drawn Alert	X26P and X2 (Taser) With these BlackHawk holster models: 22501, 22504 (X2); 11501, 11504 (X26P)

Weapon Fired	Gen 4 Glocks 17, 22, 34 and 35
Vest pierced	All Vests. Isabel Paul will also work with third Party (SES) and Bid & Quote for sizing https://docs.google.com/document/d/1vcZ2hSuSCWPMXctlyNlrYXPEz-YrBL42ZqWDScfGRVc/edit?usp=sharing

Service Offering

Software updates with technical support.

How to Order

Contact Isabel Paul for quote. She will coordinate across CPQ, PCAT, and COF for quoting

Configuration

Aware Alerts

Description	Full Description	Nomenclature	APC	Price
Aware Alerts Subscription		SSV00S01442A	612	inc
Aware Mapping Subscription	Aware Mapping is a feature in Aware Alerts offer	SSV00S01441A	612	inc
Radio Services		SSV00S01371A	612	\$0
Connector: Motorola Solutions IMW		SSV00S01120A	146	\$0
IMW License Bundle		UA00640AA	368	\$0
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMV6susp=sharing>

Required Hardware

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Description	Full Description	Nomenclature	APC	Price
CLOUDCONNECT ON-PREMISE SERVER	CloudConnect Server	SQM01SUM0307	492	\$13,200.00

Optional Hardware

Description	Full Description	Nomenclature	APC	Price
Weapon Drawn Sensor - Right		PMLN7593A	434	\$240
Weapon Drawn Sensor - Left		PMLN7594A	434	\$240
Weapon Fired Sensor		TT3283A	572	\$568
Conducted Electrical Drawn Sensor		PMLN7848A	572	\$300
Vest Pierced Sensor LE		TT3421A	434	\$600
Vest Pierced Sensor LE Classic		TT3422A	434	\$600

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	128	Calculated/ Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	208	Calculated/ Custom
IV&D	SI Engineering	SI128AD	0128	Calculated
Capacity Analysis	SI Engineering	SI128AD	0128	Calculated

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for

				each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each addl year

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JUMP TO ...

[MODEL](#)

[GENERAL
INFORMATION](#)

[CONFIGURATION](#)

Model

CommandCentral Aware Mapping

General Information

CommandCentral Aware provides a complete operating picture, integrating real-time intelligence in the command center to remotely assist officers in the field. Simplify your operational view by consolidating your resources into one single pane of glass. Support officer safety by monitoring responders and real time incident information.

MONITOR ACTIVITY FROM ANYWHERE

View all of your location-based data together, in real-time, on a single map display. This common operating picture can be accessed anywhere, from any internet-connected device.

ACT WITH THE NECESSARY CONTEXT

Communicate a more informed response to a critical incident and enhance responder safety for those in the field by accessing a common operating picture through CommandCentral Aware - directly from your agency's map.

COLLABORATE WITHOUT DISTRACTION

Control specific viewing permissions based on groups of users to ensure a focused response from every team member during a critical event. Filter your view to only the datasets you need in the moment.

Features

- **Unified Mapping:** Utilizing a common Esri base map, geographically locate real-time events such as CAD incidents, device and unit location, alert and alarms, tactical decision data and camera locations. Incorporate other Esri-based map layers from your agency for enriched spatial orientation such as property boundaries, landmarks, buildings, and asset locations. In addition, streaming and stationary weather layers are provided to enhance visual situational awareness. Organize your devices through group management to further refine ownership to adhere to logical inter agency and intra agency configurations. Manage the content seen by these agencies via groups of users provisioned and authorized to see specific mapping layers.
- **Desktop & Mobile Accessibility:** Work seamlessly from desktop to mobile. CommandCentral Aware is accessible via a web browser on any computer as well as from any tablet or smartphone with an internet connection.

- **Data Layer Filtering:** Show or hide data layers, such as CAD incidents, by selecting or deselecting them in the data layer panel, ensuring your teams are seeing only what they need in that moment. Data layers can also be prioritized to ensure certain information takes visual precedence on the map.
- **Critical Information Display:** Associate critical information with each event or resource on the map display.
- **Team-Based Permissions:** Restrict what personnel see based on what their team needs to be most effective, while still ensuring that consistent and relevant information is being referenced from a shared common operating picture.
- **“View-Only” Information Access:** Ensure workflows are unhindered by access to information in the simplest form possible.
- **CAD Integration** CommandCentral Aware integrates with PremierOne CAD or Spillman Flex CAD to provide a CAD status and event monitor capability. The CAD status monitor will allow the user to see a listing of incidents that includes: event type, location incidents, narrative, priority, status, geographic area, location of devices or units. The application consumes event driven data from multiple CAD systems allowing for real time assessment with other relevant data published to the platform such as officer location, alarms, alerts, tips, tactical information, voice and video.

Further information can be found [here](#).

How to Order

Contact Isabel Paul for Quote. She will coordinate across CPQ, PCAT, and COF for quoting.

Configuration

Aware Mapping

Description	Full Description	Nomenclature	APC	Price
Aware Mapping Subscription		SSV00S01441A	612	inc
Connector: Motorola Solutions IMW		SSV00S01120A	146	\$0
IMW License Bundle		UA00640AA	368	\$0
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CLOUDCONNECT ON-PREMISE SERVER	-	SQM01SUM0307	492	\$13,200.00

System Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	0128	Calculated/ Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	0208	Calculated/ Custom
IV&D	SI Engineering	SI128AD	0128	Calculated
Capacity Analysis	SI Engineering	SI128AD	0128	Calculated

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each

				addl year
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JUMP TO ...

[MODEL](#)

[GENERAL INFORMATION](#)

[CONFIGURATION](#)

Model



Command Central Mid Tier Video Aware SaaS

General Information

The Motorola CommandCentral Aware provides an aggregated user-configurable console view integrating multiple disparate public safety systems. CommandCentral Aware provides real-time intelligence for a complete operating picture with major components including mapping, video, and event monitoring. CommandCentral Aware provides a complete operating picture, integrating real-time intelligence in the command center to remotely assist officers in the field. This offer covers video and video analytics, workflow configuration and key software integrations.

Features:

Place eyes on the scene within seconds of a critical incident, communicating a more informed response and enhance responder safety through the common operating picture via CommandCentral Aware providing information via:

- Receiving incident locations, alerts and analytic notifications and identifies cameras in vicinity so that intelligence analyst can view a live stream from the area in real time.
- Visualize critical 911 call information on the map, along with the relevant information (location of interest) and related live video streams, video analytics to enhance details provided to CAD.
- Video Analytics from Avigilon Control Center (ACC) and Blue highlight a capability to

alert a CommandCentral Aware user to video that put eyes on the scene in seconds. Avigilon brings with it a wide swath of analytics to the fixed VMS that define rules that set triggers on breaches by bounded area, object detection, motion detection, path crossed, directional pattern changes. Avigilon ACC and Blue allows for video analytics with motion detection sending alerts to CommandCentral Aware.

- Real-Time Video Streaming: Virtually patrol your community or get eyes on scene of an event in seconds by viewing cameras simultaneously from video feeds via any supported video management system you currently use. Easily reference the video source, date, time and location as well as customize camera groups for quicker access to particular locations

For more information about CommandCentral Aware, visit motorolasolutions.com/aware or refer to Motorola Solutions Sales for additional information.

How to Order

Contact territory leads for quote. Larry Freeman or Francesca Schuler can assist with obtaining a quote for the Avigilon bundle

Configuration

Subscription Licenses - Hosted

Description	Full Description	Nomenclature	APC	Price
Aware Mid Video Tier	*Video only option	SSV00S01444A	612	Configured price
Radio Services		SSV00S01371A	612	0
Connector: Motorola Solutions IMW		SSV00S01120A	146	\$0
IMW License Bundle		UA00640AA	368	\$0
Disk Storage Subscription		SSV00S00333A	616	Configured price
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMV6susp=sharing>

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CLOUDCONNECT ON-PREMISE SERVER	CloudConnect Server	SQM01SUM0307	492	\$13,200.00

Workstation Hardware - Optional

Description	Full Description	Nomenclature	APC	Price
AWARE WORKSTATION - HP INC. : HP Z6G4T X6136 WITH 5 YEAR WARRANTY		DSSYNWQ86542312	572	\$10,409.26
HP Z27N G2 LED 27IN MONITOR		DS1JS10A4ABA	572	\$598.00

Operational Integration

Description	Full Description	Nomenclature	APC	Price
Operational Integration		PSV00S01159A	612	Calculated

- [Lower Level Details](#)

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	128	Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	208	Custom

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for

				each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each addl year

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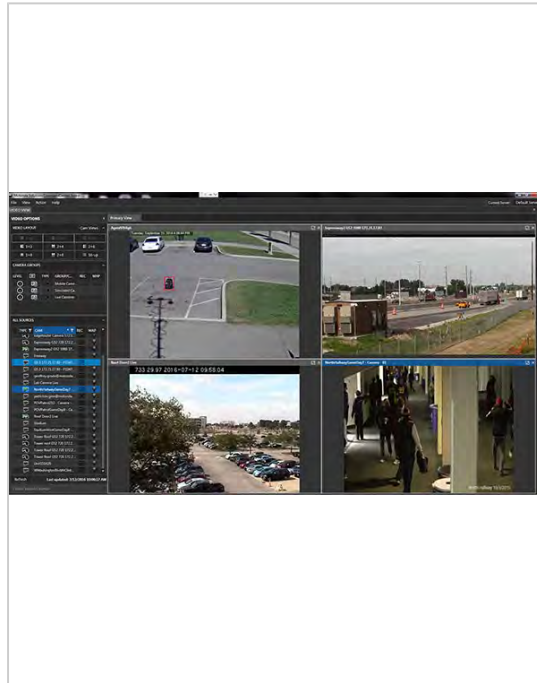
JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model



Command Central Aware On Premise

Ordering Information

General Information

Shape your response more appropriately with CommandCentral Aware's real-time video access and notifications, which allow PSAP fusion operators or intelligence analysts to access nearby video feeds from within the consolidated map for greater visibility into an escalating situation. CommandCentral Aware brings users' attention to key video content, enhancing officer safety and boosting productivity

Features:

- **Geospatial Event Mapping:** Include camera locations, CAD incidents, personnel status and location, open-source data alerts, sensors and more, on a single map that can be customized with any of your agency's other data layers.
- **Alerts:** Alerts indicating a weapon draw, vest pierce or other emergency display the location and type of incident in real time on the consolidated map, helping dispatchers provide immediate support and improving officer and citizen safety.
- **Activity Monitor:** View a real-time feed of alerts and incident occurrences as they populate on the map. Each event can be viewed in detail with information drawn from additional data sources pertaining to that specific event.

Workflow Configuration: Automate workflows by associating related data together from disparate systems to get a comprehensive picture of the incident or threat occurrence. This can include video sources, related open-source data alerts, a CAD incident, sensor alarms, and more.

- **Real-Time Video Streaming:** Virtually patrol your community and quickly get eyes on the scene of an event by viewing cameras simultaneously from fixed or mobile video feeds via any video management system. Easily reference the video source, date, time, and location as well as customize camera groups for quicker access to particular locations.
- **Communications integration:** CommandCentral Aware has the capability to interface with Motorola's ASTRO 25 MCC 7500E Dispatch Console solution. This allows the customer to integrate radio dispatch capabilities into CommandCentral Aware client workstation without requiring an alternate method to perform (i.e. a handheld radio).
- **Security Compliance:** Rely on applications secured and compliant to CJIS, security standards.

For more information about CommandCentral Aware, visit motorolasolutions.com/aware or refer to Motorola Solutions Sales for additional information.

How to Order:

Contact Isabel Paul for Quote. She will coordinate across CPQ, PCAT, and COF for quoting.

Configuration

AWARE Software Licenses - On Premise Deployment

Description	Full Description	Nomenclature	APC	Price
Aware Seat License		SSV00S01024A	612	\$37,500
Add: Messaging Feature	P1 CAD modules	SSV00S01044A	368	\$25,000
Add: Query Feature	P1 CAD modules	SSV00S01045A	368	\$25,000
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMusp=sharing>

Server Hardware - Required

Description	Full Description	Nomenclature	APC	Price
RIC/RTVI/CSDP HW & SW VM	Aware Appliance/Server	SQM01SUM0287	002	\$20,013.00
CLOUDCONNECT ON-PREMISE SERVER	CloudConnect Server	SQM01SUM0307	492	\$13,200.00

Workstation Hardware - Optional

Description	Full Description	Nomenclature	APC	Price
AWARE WORKSTATION - HP INC. : HP Z6G4T X6136 WITH 5 YEAR WARRANTY	-	DSSYNWQ86542312	572	\$10,409.26
HP Z27N G2 LED 27IN MONITOR		DS1JS10A4ABA	572	\$598.00

Operational Integration

Description	Full Description	Nomenclature	APC	Price
Operational Integration		PSV00S01159A	612	Calculated

1 Seat: \$12,300; 2-3 Seats: \$16,400; 4+ Seats: \$20,500; Tier 0: Additional \$20,500

[Lower Level Details](#)

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	0128	Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	0208	Custom

Risk SI	SI Risk	SI440AD	0440	Custom
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Warranty Wrap

Description	Full Description	Nomenclature	APC	Price	Notes
Warranty Wrap		SSV00S01294A	612	Custom	1.5% of the Hardware on the order for New orders only

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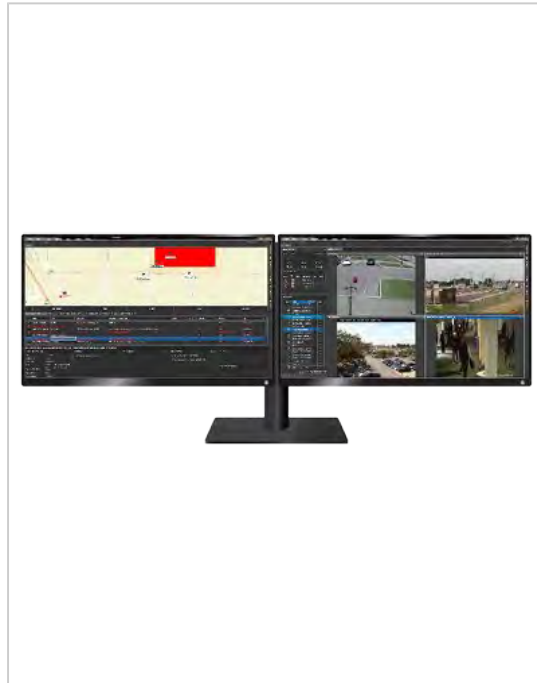
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[MODEL](#)

[GENERAL INFORMATION](#)

[CONFIGURATION](#)

Model



Command Central Aware SaaS

General Information

Shape your response more appropriately with CommandCentral Aware's real-time video access and notifications, which allow PSAP fusion operators or intelligence analysts to access nearby video feeds from within the consolidated map for greater visibility into an escalating situation. CommandCentral Aware brings users' attention to key video content, enhancing officer safety and boosting productivity

Features:

- **Geospatial Event Mapping:** Include camera locations, CAD incidents, personnel status and location, open-source data alerts, sensors and more, on a single map that can be customized with any of your agency's other data layers.
- **Alerts:** Alerts indicating a weapon draw, vest pierce or other emergency display the location and type of incident in real time on the consolidated map, helping dispatchers provide immediate support and improving officer and citizen safety.
- **Activity Monitor:** View a real-time feed of alerts and incident occurrences as they populate on the map. Each event can be viewed in detail with information drawn from additional data sources pertaining to that specific event.
- **Workflow Configuration:** Automate workflows by associating related data together from disparate systems to get a comprehensive picture of the incident or threat occurrence.

This can include video sources, related open-source data alerts, a CAD incident, sensor alarms, and more.

- **Real-Time Video Streaming:** Virtually patrol your community and quickly get eyes on the scene of an event by viewing cameras simultaneously from fixed or mobile video feeds via any video management system. Easily reference the video source, date, time, and location as well as customize camera groups for quicker access to particular locations.
- **Communications Integration:** CommandCentral Aware has the capability to interface with Motorola's ASTRO 25 MCC 7500E Dispatch Console solution. This allows the customer to integrate radio dispatch capabilities into CommandCentral Aware client workstation without requiring an alternate method to perform (i.e. a handheld radio).
- **Security Compliance:** Rely on applications secured and compliant to CJIS, security standards.

For more information about CommandCentral Aware, visit motorolasolutions.com/aware or refer to Motorola Solutions Sales for additional information.

How to Order

Contact Isabel Paul for quote. She will coordinate across CPQ, PCAT, and COF for quoting.

Configuration

Subscription Licenses - Hosted

Description	Full Description	Nomenclature	APC	Price
Aware Subscription		SSV00S01233A	612	Configured price
Aware Alerts Subscription		SSV00S01442A	612	\$0
Aware Mapping Subscription		SSV00S01441A	612	\$0
Radio Services		SSV00S01371A	612	0
Connector: Motorola Solutions IMW		SSV00S01120A	146	\$0
IMW License Bundle		UA00640AA	368	\$0

Disk Storage Subscription		SSV00S00333A	616	Configured price
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMV6susp=sharing>

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CLOUDCONNECT ON-PREMISE SERVER	CloudConnect Server	SQM01SUM0307	492	\$13,200.00

Optional Hardware

Description	Full Description	Nomenclature	APC	Price
Weapon Drawn Sensor - Right		PMLN7593A	434	\$240.00
Weapon Drawn Sensor - Left		PMLN7594A	434	\$240.00
Weapon Fired Sensor		TT3283A	572	\$568.00
Conducted Electrical Drawn Sensor		PMLN7848A	572	\$300.00
Vest Pierced Sensor LE		TT3421A	434	\$600.00
Vest Pierced Sensor LE Classic		TT3422A	434	\$600.00
AWARE WORKSTATION - HP INC. : HP Z6G4T X6136 WITH 5 YEAR WARRANTY		DSSYNWQ86542312	572	\$10,409.26
HP Z27N G2 LED 27IN MONITOR		DS1JS10A4ABA	572	\$598.00

Operational Integration

Description	Full Description	Nomenclature	APC	Price
Operational Integration		PSV00S01159A	612	Calculated

- [Lower Level Details](#)

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	128	Calculated/ Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	208	Calculated/ Custom
Training SI- Integration	SI Training	SI286AB	286	Calculated
IV&D	SI Engineering	SI128AD	128	Calculated
Capacity Analysis	SI Engineering	SI128AD	128	Calculated

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each addl year

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MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

Motorola CommandCentral AXS Dispatch Console

Ordering Information

[Ordering Guide](#)

General Information

Ordering a Motorola CommandCentral AXS dispatch console requires ordering hardware, software licenses and the annual AXS console subscription agreement.

- The hardware includes speakers, microphones, headset jacks, footswitches, monitors, keyboards, mice and hubs used in the dispatch clients as well as the servers used in the cluster.
- The software licenses include the dispatch client licenses, the various feature licenses, the capacity licenses and the RAN gateway licenses.
- The mandatory annual AXS console subscription agreement is required for all AXS consoles. The subscription includes a contract that covers all the dispatch clients and clusters on the order and subscription enablement licenses for each cluster. The contract's price is based on the number of dispatch clients on the order. A subscription enablement license is automatically generated for each cluster covered by the contract. The subscription enablement license is a time-limited license with start and stop dates that match the start and stop dates of the subscription contract. A cluster must have a valid subscription enablement license installed before it will allow console application software to be installed or upgraded. The initial subscription is for a period of one year, but additional years may be added if desired.

The Stratus Radio On Line (ROL) tool is used by the presale teams to generate an equipment list and quote for the AXS console's hardware and software licenses. ROL can also include the console site networking equipment as well as other equipment associated with dispatch centers in the equipment list and quote. Once that quote has been created in ROL, a quote for the AXS console subscription agreement must be created in CPQ. The field team must then manually combine the ROL quote and CPQ quote into a single quote for presentation to the customer.

After the customer has issued a purchase order for the console/subscription, the hardware and software license items are ordered through COF in the standard way. The subscription is ordered through CPQ, but the order is not immediately booked. Instead, it is placed on hold until the customer is ready to start beneficial use of the AXS console. At that time, the Customer Service Manager (CSM) must contact someone on the presales team to have

them go into CPQ to enter the start date for the subscription and release the subscription order from hold.

Email address(es) must be entered into COF and CPQ for the various licenses associated with the AXS console. A license entitlement file will be emailed to the provided email address(es). This entitlement file is used to activate the licenses and associate them with a cluster. Do not lose this email!

The AXS console subscription agreement allows the AXS product software to be downloaded from the MyView portal. The AXS product software is not directly orderable. It must be obtained via a subscription.

Additional ordering information may be found in the [CommandCentral AXS Dispatch Console Ordering Guide](#).

Ordering Requirements

The AXS console must be ordered in COF and CPQ. It is not orderable in OMAR or MOL.

An email address is required for the software licenses and the subscription licenses. The license entitlement files for those licenses will be sent to the email address.

The following information is required to order the subscription agreement:

- The date the subscription should start.
- The duration, in years, of the subscription.
- The email address the subscription entitlement license file should be mailed to.
- The system ID of the ASTRO 25 system the console is connected to.
- The site name where the console is installed.
- The address of the location where the cluster is installed.

The software subscription agreement contract is mandatory for each AXS console. Without it, it is not possible to install or upgrade console software.

Tech Edit will put all orders for the AXS console on E3 hold for Product Management review.

Configuration

Cluster Hardware

In its initial releases, an AXS cluster consists of three servers and supports up to ten dispatch clients. Later releases will support additional servers per cluster for increased capacities.

All the servers within a cluster are physically identical.

Order a server using the DSDL20G10SVR part number. A cluster requires three DSDL20G10SVRs.

The servers do not include keyboards, mice or monitors. The DSB07000819 rackmount KVM switch and DSB078101USB1 server interface unit can be used to provide access to the servers for installation, servicing and maintenance. One DSB07000819 KVM switch can be used with up to eight servers. Each server connected to the DSB07000819 KVM switch requires a

DSB078101USB1 interface unit.

Description	Full Description	Nomenclature	APC	Price
COMPUTER, DL20 G10	Provides one DL20 server for use in an AXS cluster. Includes a friction rail mounting kit. Does not include monitor, keyboard or mouse. A cluster requires three servers.	DSDL20G10SVR	708	\$4,150.00
8-PORT CONSOLE CAT5 KVM SWITCH 1U RM 19IN LCD RACKMOUNT	Provides one rack mounted, 8-port KVM switch with keyboard, touchpad and folding display. Requires one DSB078101USB1 server interface unit for each server connected to the KVM switch.	DSB07000819	708	\$1,469.00
USB SINGLE SRVR INTERFACE UNIT VIRTUAL MEDIA KVM SWITCH HD15 USB RJ4	Provides one server interface unit to enable one server to connect to a DSB07000819 KVM switch. One required for each server connected to the KVM switch.	DSB078101USB1	708	\$93.00

Cluster Enablement Licenses

Each AXS cluster requires a HKVN4728A license when it is connected to an ASTRO 25 radio system. One HKVN4728A is required per cluster per ASTRO 25 system. An email address must be entered into the ordering system for the HKVN4728A.

Each AXS cluster also requires a HKVN4828A license to be able to do the initial installation of software on the cluster's servers. This is a time-limited license with a lifetime of 15 months, starting when the license is first shipped. It is intended to cover the staging and deployment before the customer begins beneficial use of the console. Once the console is ready for beneficial use, this license is replaced by the license associated with the SSV01S01669A item (see Subscription section below for more details).

Description	Full Description	Nomenclature	APC	Price
	One HKVN4728A is			

LICENSE,AXS ASTRO 25 SYSTEM WI	required for each ASTRO 25 system that is connected to an AXS cluster. Each cluster needs it own HKVN4728A if it is connected to an ASTRO 25 system.	HKVN4728	504	\$0.00
LICENSE,AXS ASTRO 25 SYSTEM WIRELINE GATEWAY LICENSE	One KHVN4828A is required for each cluster. This license enables the cluster to do the initial installation of software on the cluster. When the customer starts beneficial use of the console, this license will be replaced by the license that is generated by the SSV01S01669A.	HKVN4828	504	\$0.00

Dispatch Client Feature and Capacity Enablement Licenses

The dispatch client feature licenses and dispatch client capacity licenses are installed on the cluster. Each cluster needs to have the appropriate set of licenses for the dispatch clients that will be logging into it.

The licenses are “pooled” on the cluster. That is, they are not dedicated to any particular dispatch client. When dispatch clients log into the cluster, they are assigned licenses for the features they will be using based on their screen configurations. Make sure to order enough licenses to cover the maximum number of dispatch clients that are expected to be simultaneously logged into a cluster.

If a dispatch client will connect to different clusters at different times (main and backup clusters, for example), each cluster needs to have the appropriate set of licenses to support the client. That is, the licenses are not transferable between clusters.

An email address is required to be entered into the ordering system for the licenses.

The HKVN4729 AXS Dispatch Client License is required for each dispatch client accessing a cluster. As mentioned above, if a client will be connecting to different clusters at different times, it needs to have a HKVN4729 license on each cluster.

Description	Full Description	Nomenclature	APC	Price
AXS DISPATCH CLIENT LICENSE	One HKVN4729A is required per AXS dispatch client that will be accessing the cluster.	HKVN4729	504	\$7,900.00

The feature licenses (HKVN4730 thru HKVN4736) are only needed if the dispatch client will use

the functionality associated with a license. Each dispatch client needs to have feature licenses for the features it will use.

Description	Full Description	Nomenclature	APC	Price
LICENSE,AXS TRUNKING SERVICES	One HKVN4730A is required per AXS dispatch client that will be monitoring trunking resources on one or more ASTRO 25 systems.	HKVN4730	504	\$6,600.00
LICENSE,AXS ADVANCED CONVENTION	One HKVN4731A is required per AXS dispatch client that will be monitoring advanced conventional resources on one or more ASTRO 25 conventional and/or MDC 1200 channels.	HKVN4731	504	\$3,960.00
LICENSE,AXS SECURE VOICE SERVICES	One HKVN4732A is required per AXS dispatch client that will be using voice encryption functionality on trunking and/or conventional resources.	HKVN4732	504	\$6,340.00
LICENSE,AXS SECURE OTEK SERVICE	One HKVN4739A is required per AXS dispatch client that will be using OTEK functionality on trunking and/or conventional resources.	HKVN4739	504	\$4,420.00
LICENSE,AXS CHANNEL BASED IRR	One HKVN4733A is required per AXS dispatch client that will be using Channel Based IRR functionality.	HKVN4733	504	\$3,200.00
LICENSE,AXS MULTIPLE GUI WINDOWS	One HKVN4734A is required per AXS dispatch client that will be displaying its GUI in multiple web browser windows.	HKVN4734	504	\$7,975.00
LICENSE,AXS INBOUND EVENT DISPLAY	One HKVN4735A is required per AXS dispatch client that will be using Inbound Event Display functionality.	HKVN4735	504	\$6,300.00
	One HKVN4736A is required per AXS dispatch client that will			

LICENSE,AXS AMBE+2 VOCODER ROY	be monitoring trunking resources on one or more ASTRO 25 systems.	HKVN4736	504	\$50.00
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Each dispatch client requires at least one radio resource capacity license (HKVN4737 or HKVN4738).

The HKVN4737 enables a dispatch client to affiliate with up to 160 radio resources. Only one HKVN4737 may be used with a dispatch client. The HKVN4737 cannot be used with the HKVN4748 on the same dispatch client.

The HKVN4738 enables a dispatch client to affiliate with up to 15 radio resources. The HKVN4738 licenses are “additive” to enable a dispatch client's capacity to be scaled up to 150 radio resources in increments of 15. The HKVN4738 cannot be used with the HKVN4737 on the same dispatch client.

Description	Full Description	Nomenclature	APC	Price
LICENSE,AXS STANDARD LEVEL RADIO	Enables an AXS dispatch client to affiliate with up to 160 radio resources (trunked + conventional). Each AXS dispatch client requires a radio resource capacity license (HKVN4737A or HKVN4738A).	HKVN4737	504	\$20,700.00
LICENSE,AXS VALUE LEVEL RADIO	Enables an AXS dispatch client to affiliate with up to 15 radio resources (trunked + conventional). Each AXS dispatch client requires a radio resource capacity license (HKVN4737A or HKVN4738A).	HKVN4738	504	\$3,850.00

Dispatch Client Hardware

The CommandCentral Hub is an appliance that can be used with AXS dispatch clients. It contains a workstation class computer motherboard, thirteen USB ports, a number of analog inputs and outputs for connecting various devices and four 24 VDC power ports for powering up to four B1952 speakers. The thirteen USB ports consist of ten Type A ports, one Type B port and two Type C ports. A dispatch client is capable of supporting a single hub.

The hub provides the computing platform for the AXS dispatch client along with USB and analog interfaces for the various peripheral devices that can be connected to a dispatch position client.

A line cord option must be ordered with the hub.

If desired, up to four 24VDC power cables can be ordered for use in powering B1952 speakers

directly from the hub. The CA03548AA option provides two cables. The CA03583AA option provides four cables.

A mounting kit can be ordered using the CA03547AA option. The mounting kit allows the hub to be mounted in a 19" rack or to a flat surface. Order one kit per hub.

It is strongly recommended to order the BHN6114A cable retention bracket for the hub. This allows the cables that are connected to the rear of the hub to be secured to prevent accidental disconnection. It also provides strain relief for the cables.

The hub does not come with a keyboard or mouse or monitor. These must be ordered separately.

The hub and its optional items are shown below.

Description	Full Description	Nomenclature	APC	Price
PERIPHERAL DEVICES HUB	Provides one CommandCentral Hub with integrated PC workstation.	B1956	754	\$5,250.00
ADD: AC LINE CORD, NORTH AMERICA	Provides one North American AC line cord.	CA03553AA	754	\$13.00
ADD: CABLE, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides two cables which allow two B1952 speakers to be powered from the hub.	CA03548AA	754	\$75.00
ADD: FOUR CABLES, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides four cables which allow four B1952 speakers to be powered from the hub.	CA03583AA	754	\$150.00
ADD: BRACKET, MOUNTING 2RU	Mounting brackets for the CommandCentral Hub. Can be used to mount the hub in a 19" rack or on a flat	CA03547AA	754	\$30.00

	surface.			
FRU: BRACKET, CABLE RETENTION	Cable retention bracket and mounting screws for the CommandCentral Hub. This bracket is used to secure and strain relieve the various cables that connect to the rear of the hub.	BHN6114	754	\$65.00
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Keyboard	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Mouse	L3226A	708	\$30.00

Monitors that may be used with AXS dispatch clients are shown below. The CommandCentral Hub has two DisplayPort++ ports and one HDMI port for supporting up to three monitors.

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,557.00
TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00

Up to one USB microphone can be connected to a CommandCentral Hub. The B1951 USB microphone requires a USB cable to connect it to the hub. Either the CA03412AA or

CA03413AA option may be used to order the USB cable.

Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1951	754	\$445.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00

Up to ten USB speakers can be connected to a CommandCentral Hub. The B1952 USB speaker requires a USB cable to connect it to the hub. Either the CA03412AA or CA03413AA option may be used to order the USB cable. The hub can provide 24VDC power to up to four speakers (see CommandCentral Hub section above). If more than four speakers are used, the CA03405AA option can be used to provide 24VDC power supplies for the additional speakers. One power supply is used per speaker. An AC line cord option must also be ordered for each power supply.

Description	Full Description	Nomenclature	APC	Price
SPEAKER, DESKTOP, USB	The B1952 speaker is specifically designed for use with the AXS console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch positions's hub or PC. Each speaker has its own	B1952	754	\$485.00

	individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.			
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00

Up to two headset jack boxes can be connected to a CommandCentral Hub. The B1913 provides one headset jack box.

Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00

Up to one "analog" footswitch can be connected to a CommandCentral Hub. The DSTWIN6328A provides one dual pedal "analog" footswitch.

Description	Full Description	Nomenclature	APC	Price

PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	Provides one dual pedal footswitch.	DSTWIN6328A	708	\$290.00
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The certified headsets used with AXS dispatch clients are described below. Order the desired number of headset tops and bases from the list below. Both a top and base are required to form a complete headset.

Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6099A	706	\$242.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5151A	706	\$156.00

Dispatch Client Spares and Field Replaceable Units (FRUs)

It is generally recommended that one set of spares and FRUs be ordered for each dispatch center location. Spares of some items (for example, headsets, monitors and footswitches) may be ordered using the part numbers in the sections above.

FRUs for the CommandCentral Hub may be ordered using the part numbers below.

Description	Full Description	Nomenclature	APC	Price
GR500 AC POWER CORD	Provides one North American AC line cord.	3082933N08	454	\$33.25

CABLE - MCD 5000 DESKSET TO LOGGER	Provides one cable with an RJ45 connector on one end and individual stripped and tinned wires on the other end. May be used with the three audio output ports, the Aux I/O port or the EPI port on the CommandCentral Hub.	FKN8696	202	\$40.00
FRU: POWER CABLE, 24VDC	Provides one cable for connecting a B1952 speaker to a 24 VDC power port on the CommandCentral Hub.	BKN2002	754	\$35.00
FRU: MOUNTING BRACKET KIT, PDH	Mounting kit for mounting the CommandCentral Hub in a 19" rack or to a flat surface. Includes two brackets and the screws required to attach them to the hub. Does not include any screws for attaching to the rack.	BLN1325	754	\$40.00
FRU: COVER, FRONT PDH	Front cover for the CommandCentral Hub	BHN1024	754	\$90.00

FRUs for the USB speaker, USB microphone and analog headset jack box can be ordered using the part numbers below.

Description	Full Description	Nomenclature	APC	Price
FRU, MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$445.00
FRU, SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$485.00
FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one of the ends.	BKN2000	754	\$79.00
FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00

FRU, POWER SUPPLY WITH DC CORD	Power supply with DC cable for USB speaker. Does not include an AC line cord.	BPN1030	754	\$150.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
CABLE ASSY, 16 PIN CONNECTOR	Cable, CommandCentral Hub to Headset Jack Box (for B1913)	3071113H01	443	\$108.00
CABLE ASSY, EXTENDER	Cable, Extender, Headset Jack Box (for B1913)	3071114H01	443	\$97.50

Subscription Agreement

The AXS console requires a subscription agreement. The subscription has an annual fee that is based on the number of dispatch clients being used in the console.

The subscription is quoted and ordered in CPQ. Once a quote has been created, it will remain in “draft” mode until the customer is ready to start beneficial use of the console (this is typically the time the warranty wrap for the AXS console takes place). At that time, the Customer Service Manager (CSM) must contact someone on the presales team and have them go into CPQ to update and release the order for the subscription. The following information will be required to be verified or updated when this is done:

- The number of clusters to be covered by the subscription.
- The number of servers to be covered by the subscription.
- The number of dispatch clients to be covered by the subscription.
- The date the subscription should start.
- The duration, in years, of the subscription.
- The email address the subscription entitlement license file should be mailed to.
- The system ID of the ASTRO 25 system the console is connected to.
- The site name where the console is installed.
- The address of the location where the cluster is installed.

CPQ will automatically generate three part numbers (SSV01S01669A, SSV01S01900A and SSV01S01774A) that are used to create the subscription contract.

- One SSV01S01669A ASTRO AXS CLUSTER SUBSCRIPTION is generated per cluster. The SSV01S01669AA will trigger an enablement license to be generated by the factory. This

enablement license must be installed on the cluster. The AXS software cannot be installed without this license.

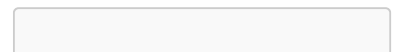
- One SSV01S01900A ASTRO AXS SERVER SUBSCRIPTION is generated per server. The SSV01S01900A is used to track the annual subscription payments Motorola Solutions must make for the anti-malware software used on the servers. It does not generate any enablement licenses.

- One SSV01S01774A ASTRO AXS CLIENT SUBSCRIPTION is generated per dispatch client. The SSV01S01774A is used to track the annual subscription payments Motorola Solutions must make for some of the 3rd party software used in the AXS console. The price of the SSV01S01774A is per client. The actual price of the SSV01S01774A depends on the number of years being ordered for the subscription contract. CPQ will show the price when the quote is created. The SSV01S01774A does not generate any enablement licenses.

Only one subscription agreement may be ordered at a time in CPQ due to the requirement for the address of the cluster location. If a customer has multiple locations with clusters, then multiple quotes will need to be generated in CPQ.

Description	Full Description	Nomenclature	APC	Price
ASTRO AXS CLUSTER SUBSCRIPTION	Each cluster requires a SSV01S01669A to be able to install and upgrade its software. This SSV will automatically generate an enablement license that must be installed on the AXS cluster. The AXS software cannot be installed without this license.	SSV01S01669A	0823	\$0.00
ASTRO AXS SERVER SUBSCRIPTION	One SSV01S01900A is required for each AXS server that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01900A	0823	\$0.00
ASTRO AXS CLIENT SUBSCRIPTION	One SSV01S01774A is required for each AXS client that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01774A	0823	\$3,500.00

Ship Card



Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	3071113H01	CABLE ASSY, 16 PIN CONNECTOR	443	2
PARTS	CDP	3071114H01	CABLE ASSY, EXTENDER	443	2
PARTS	CDP	3082933N08	GR500 AC POWER CORD	454	5
PARTS	RNS	3082933N08	GR500 AC POWER CORD	454	0
PARTS	DCH	3082933N08	GR500 AC POWER CORD	454	15
CNTRLR	SSO	B1913	MCC SERIES HEADSET JACK	443	20
FIXEDSTN	CDP	B1951	MICROPHONE, DESKTOP, USB	754	5
FIXEDSTN	CDP	B1952	SPEAKER, DESKTOP, USB	754	8
FIXEDSTN	SSO	B1956	PERIPHERAL DEVICES HUB	754	40
ACCESSORY	CDP	BHN1024	FRU: COVER, FRONT PDH	754	40
ACCESSORY	SCB	BHN6114	FRU: BRACKET, CABLE RETENTION	754	40
FIXEDSTN	CDP	BKN2000	FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	754	13
FIXEDSTN	CDP	BKN2001	FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	754	5
ACCESSORY	CDP	BKN2002	FRU: POWER CABLE, 24VDC	754	40
CNTRLR	SSO	BLN1277	HEADSET JACK CIRCUIT BOARD FRU	443	19
ACCESSORY	CDP	BLN1325	FRU: MOUNTING BRACKET KIT, PDH	754	40
			FRU, MICROPHONE, DESKTOP,		

FIXEDSTN	CDP	BMN2000	USB	754	40
FIXEDSTN	CDP	BPN1030	FRU, POWER SUPPLY WITH DC CORD	754	40
FIXEDSTN	CDP	BSN2000	FRU, SPEAKER, DESKTOP, USB	754	3
QUOTEDS	PCW	DSB07000819	8-PORT CONSOLE CAT5 KVM SWITCH 1U RM 19IN LCD RACKMOUNT	708	10
QUOTEDS	PCW	DSB078101USB1	USB SINGLE SRVR INTERFACE UNIT VIRTUAL MEDIA KVM SWITCH HD15 USB RJ4	708	10
QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
QUOTEDS	HPS	DSDL20G10SVR	COMPUTER, DL20 G10	708	10
QUOTEDS	TIS	DSEV191B	TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	708	80
QUOTEDS	TIS	DSEV221B	TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	708	80
QUOTEDS	TIS	DSEV241B	TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	708	80
QUOTEDS	TIS	DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	708	80
QUOTEDS	TIS	DSTG221B	TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	708	80
QUOTEDS	TIS	DSTG241B	TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	708	80
QUOTEDS	LMS	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	708	84
SYSPERIPH	SCB	FKN8696	CABLE - MCD 5000 DESKSET TO LOGGER	202	11

ACCESSORY	CDP	HKVN4728	LICENSE,AXS ASTRO 25 SYSTEM WI	504	40
ACCESSORY	CDP	HKVN4729	AXS DISPATCH CLIENT LICENSE	504	40
ACCESSORY	CDP	HKVN4730	LICENSE,AXS TRUNKING SERVICES	504	40
ACCESSORY	CDP	HKVN4731	LICENSE,AXS ADVANCED CONVENTION	504	40
ACCESSORY	CDP	HKVN4732	LICENSE,AXS SECURE VOICE SERVICES	504	40
ACCESSORY	CDP	HKVN4733	LICENSE,AXS CHANNEL BASED IRR	504	40
ACCESSORY	CDP	HKVN4734	LICENSE,AXS MULTIPLE GUI WINDOWS	504	40
ACCESSORY	CDP	HKVN4735	LICENSE,AXS INBOUND EVENT DISPLAY	504	40
ACCESSORY	CDP	HKVN4736	LICENSE,AXS AMBE+2 VOCODER ROY	504	40
ACCESSORY	CDP	HKVN4737	LICENSE,AXS STANDARD LEVEL RADIO	504	40
ACCESSORY	CDP	HKVN4738	LICENSE,AXS VALUE LEVEL RADIO	504	40
ACCESSORY	CDP	HKVN4739	LICENSE,AXS SECURE OTEK SERVICE	504	40
ACCESSORY	CDP	HKVN4828	LICENSE,AXS ASTRO 25 SYSTEM WIRELINE GATEWAY LICENSE	504	40
QUOTEDS	CDZ	L3225A	CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	708	7
QUOTEDS	PCW	L3226A	CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	708	7

PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
ACCESSORY	CDP	RMN5150A	OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	706	22
ACCESSORY	CDP	RMN5151A	OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	706	6
ASTRO_SUA	U01	SSV01S01669A	ASTRO AXS CLUSTER SUBSCRIPTION	0823	
ASTRO_SUA	U01	SSV01S01774A	ASTRO AXS CLIENT SUBSCRIPTION	0823	
ASTRO_SUA	U01	SSV01S01900A	ASTRO AXS SERVER SUBSCRIPTION	0823	

JUMP TO ...

MODEL

**GENERAL
INFORMATION**

CONFIGURATION

Model



**Command Central Low Tier Video Aware
SaaS**

General Information

The Motorola CommandCentral Aware provides an aggregated user-configurable console view integrating multiple disparate public safety systems. CommandCentral Aware provides real-time intelligence for a complete operating picture with major components including mapping, video, and event monitoring. CommandCentral Aware provides a complete operating picture, integrating real-time intelligence in the command center to remotely assist officers in the field.

This offer covers video and video analytics, workflow configuration and key software integrations.

Features:

Place eyes on the scene within seconds of a critical incident, communicating a more informed response and enhance responder safety through the common operating picture via CommandCentral Aware providing information through:

- Receiving incident locations, alerts and analytic notifications and identifies cameras in vicinity so that intelligence analyst can view a live stream from the area in real time.
- Visualize critical 911 call information on the map, along with the relevant information

(location of interest) and related live video streams, video analytics to enhance details provided to CAD.

- Video Analytics from Avigilon Blue highlight a capability to alert a CommandCentral Aware user to video that put eyes on the scene in seconds. Avigilon brings with it a wide swath of analytics to the fixed VMS that define rules that set triggers on breaches by bounded area, object detection, motion detection, path crossed, directional pattern changes. Blue allows for cloud based video analytics with motion detection sending alerts to CommandCentral Aware.
- Real-Time Video Streaming: Virtually patrol your community or get eyes on scene of an event in seconds by viewing cameras simultaneously from video feeds via any supported video management system you currently use. Easily reference the video source, date, time and location as well as customize camera groups for quicker access to particular locations

For more information about CommandCentral Aware, visit motorolasolutions.com/aware or refer to Motorola Solutions Sales for additional information.

How to Order

Contact territory leads for quote. Larry Freeman or Francesca Schuler can assist with obtaining a quote for the Avigilon bundle

Configuration

Aware Subscription

Description	Full Description	Nomenclature	APC	Price
Aware Low Video Tier	*Video only option	SSV00S01443A	612	Configured price
Disk Storage Subscription		SSV00S00333A	616	Configured price
Third Party Connectors	Refer to Connector Link	See List in Link	146	See List in Link

List of Third Party

Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMV6susp=sharing>

Operational Integration

Description	Full Description	Nomenclature	APC	Price

Operational Integration		PSV00S01159A	612	Calculated
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- [Lower Level Details](#)

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	128	Calculated/ Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	208	Calculated/ Custom

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each addl year

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

COMPASSCOM Location Application

Ordering Information

General Information

CompassCom Empowers On Premise Real-Time Tracking With Motorola ASTRO 25 Radio Networks. CompassCom is an authorized partner and provider of real time GPS tracking and fleet management solutions leveraging the Motorola ASTRO 25 IV&D and Outdoor Location Solutions. The enterprise software solution is configured as a Common Operational Picture and is integrated side-by-side with Motorola infrastructure to track in-vehicle terminals, portable and mobile radios enabled with GPS. Based in an Esri GIS environment, real-time vehicle, handset and sensor information is viewed on CompassTrac® desk top and browser based solutions enables our clients to view map information and telemetry data. The CompassTrac6, Javascript API, is the web based viewing software that shows real-time location, status and the state of your mobile assets. On the fly digitizing of geofences, custom alerts via pop-up, SMS or e-mail, route validation, engine diagnostics and replay are a few of CompassTrac 6 functions. CompassReports, based on SQL Reports, is an easy way to get accurate information on fleet or vehicle use, performance, history or after action accountability. CompassReports provides Standard, Customized or Scheduled Reports. The CompassCom solution enables supervisors, field managers and commanders to make meaningful decisions that save lives, improves customer service, ensure worker accountability and drives more efficient operations while leveraging their investment in Motorola technology

NOTE: ESRI mapping is not part of this solution. It is assumed that the customer already has the mapping application. If mapping application other than ESRI is needed, please contact Renata Oiticica Lampert for details.

This solution is also available for OFF NETWORK usage.

Features

- Interfaces with ASTRO 7.X Integrated Voice and Data Networks Interfaces with ASTRO 25 Outdoor Location Server
- On Premise Solution with open architecture for 3rd party integration
- CompassTrac map display supports desktop, web based and mobile deployment
- Support ESRI and ArcGIS Online map data
- Displays vehicle positions, speed, heading and status in real-time
- Customizable vehicle icons
- Supports geocoding and reverse geocoding
- Provides map zoom and pan capabilities
- Breadcrum rules allowing view choices ranging from 0 to 24 hours
- Playback mode
- Geofencing
- Monitor vehicle/asset inputs and attached sensors
- Supports in-vehicle GPS
- Locate portable and mobile radios in real-time or last reported location
- User definable reports
- Monitor driver safety

Ordering Requirements

Step 1 - Complete Questionnaire

- In order to get a formal quote on the Compasscom application please fill out the questionnaire below with your customers information.
- Please return completed Questionnaire to your local BdM or directly to Mike Kovacs (Compasscom) for processing
- [Link to Questionnaire](#)
- **Request Pre Sales Business Manager (PBM) quote for MSI deployment services**

Step 2 - Radio required options

- GPS needs to be enabled
- Enhanced Data must be enabled (Version 7.14+)
- Location on PTT is recommended (Version 7.17+)

FLASHport Option - If the portable radios already exist in the field, please go to the corresponding FLASH port upgrades page and select appropriate T-Model.

Step 3 - System Requirement

- IMW version 5.2 or above is required

Resource Documentation

Quote Request	Sales Tools	Product Manuals
<p>The main purpose of the questionnaire is to capture relevant Department data to properly quote a suitable CompassTrac solution.</p>		
<ul style="list-style-type: none"> • In order to get a formal quote on the CompassTrac application from Compasscom please fill out the questionnaire above with your customers information • Please return completed Questionnaire to Mike Kovacs (mgkovacs@compasscom.com) from Compasscom or your local BdM for processing 	<ul style="list-style-type: none"> • CompassLDE Marketing Brief • Brochure • CompassCom and ASTRO trunked presentation • Motorola CompassCom Overview v2 	<ul style="list-style-type: none"> • CompassTrac6 • CompassTrac V6 functionality matrix • Cal Amp LMU 4200 • Cal Amp LMU 2600
Selling strategy	INTERDEPENDENCIES	COMPETITIVE DIFFERENTIATORS
<ul style="list-style-type: none"> • On Premise, behind firewall • Common Operational Picture • Open architecture – integrate • Leverage investment - Motorola/Esri • Esri ArcGIS 10.X compatible • Interface - Astro, 4G, WiFi, Satellite • Telemetry data – engine diagnostics, snow operations, discrete I/O, etc 	<p>Compatible with the all mobiles and portables from the APX line. Please contact your subscriber support person for more</p>	<ul style="list-style-type: none"> • The only AVL solution that works without a network. • Support of different sensors • Operates on an IA hardened workstation such that the IA posture is expected to be acceptable to government IA Designated

<ul style="list-style-type: none"> • Incident messages with map pin • Web Services: weather, traffic, etc • Astro Trunked, Conventional, GPS Tactical 	information.	Approval Authorities
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Configuration

Models

Description	Full Description	Nomenclature	APC	Price
COMPASSLDE ASTRO OUTDOOR LOCATION SERVER INTERFACE	-	DSCCASTROLOCATION	572	\$3,750.00
COMPASSTRAC V6 JAVASCRIPT MOBILE	-	DSCCMOBILE	571	\$1,250.00
COMPASSLDE PER MOBILE RADIO INCL SENSOR SUPPORT WITH OPT HARDWARE	-	DSCCMOBILERADIO	488	\$250.00
COMPASSCOM ONSITE SUPPORT PER DAY	-	DSCCONSITESUPPORT	572	\$2,200.00
COMPASSCOM REMOTE SUPPORT PER HOUR	-	DSCCREMOTESUPPORT	572	\$250.00
COMPASSTRAC V6 JAVASCRIPT SMARTPHONE	-	DSCCSMARTPHONE6	571	\$320.00
COMPASSTRAC WORKSTATION V4.8	-	DSCCWORKSTATION	571	\$1,250.00
GPS GATE	-	DSCGPSGATE	571	\$71.00
LMU-2630/CDMA/BATTERY/INT ANT/ACTIVATION	-	DSCLMU	571	\$240.00
COMPASSLDE SERVER SOFTWARE	-	DSCCOMPASSLDE	572	\$11,250.00
PELICAN KIT	-	DSCPELICAN	488	\$57.00
PROXIMITY SENSOR FOR PLOW UP/DOWN	-	DSCPROXIMITY	571	\$211.00
ANNUAL SOFTWARE MAINTENANCE - YEAR TWO	-	DSCYRMAINTENANCE	571	\$1.00

TABLET ANNUAL SOFTWARE MAINTENANCE/SUPPORT	-	DQANNSWMAINSUPP	488	\$36.00
FA 6100 DATA AUTHENTICATION KEY FOR LMU	-	DQCCDATAAUTH	488	\$400.00
LICENSE FOR LMU SNOW APP - DJ, CIRUS, FA -MSI	-	DQCCLMUMIDDLE	572	\$138.00
IN VEHICLE TABLET SNOW APPLICATION	-	DQCCTABLETAPP	488	\$137.00
SERVICE HOURS FOR CUSTOMIZATION DEVELOPMENT	-	DQCUSTDEVSERVICES	488	\$250.00
LMU CABLE FOR MSI RADIO	-	DQLMUCABLE	488	\$36.00
LMU4233H-UBH0-G1000 W/ BLUETOOTH, GPS, EXT ANTENNA, DUAL BAND HSPA, JP	-	DSLMU4233HUBH0G100	488	\$390.00

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

CONTROL STATION COMBINERS

This page contains parts information for MSI preferred vendors including TXRX, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzI0tA-wgtg/edit

Ordering Information

General Information

For technical questions, please contact [Gary Owens](#)

For pricing/ordering questions, please contact the product planner, [Tim Martin](#).

For more information on TXRX products, please see the [TXRX portal](#) or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

For more information on RFI products, please see the [RFI portal](#) or contact [Sean Johnson](#) at sean.johnson@rfiamericas.com (330-486-0706).

For more information on dbSpectra products, please see the [dbSpectra portal](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972) 841-4893).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

RFI CONTROL STATION COMBINER GUIDE

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/RFI%20Control%20Station%20Combiners%20-%20Overview%20%26%20Applications.pdf

Configuration

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
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8 CHANNEL SHORT HAUL COMBINER, CSC01, 100-960MHZ	DBSPECTRA PART#: BCH00008 SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-181.B_(DSBCHShortHaulCSC).pdf	DSBCH00008	457	\$2,811.00
16 CHANNEL CONTROL STATION COMBINER, CSC01,100-960MHZ	DBSPECTRA PART#: BCH00016 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH00016	457	\$6,150.00
6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11006 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11006	457	\$9,338.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11008 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11008	457	\$10,005.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11012 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11012	457	\$21,045.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11016 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11016	457	\$21,563.00
18 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11018 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11018	457	\$22,971.00
24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11024 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11024	457	\$33,799.00
32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA PART#: BCH11032 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11032	457	\$44,454.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11106 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11106	457	\$9,545.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11108 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11108	457	\$10,005.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11112 SPEC SHEET LINK: www.dbspectra.com/specifications/ControlStationCombiners(DSBCH)_096000-180.B.PDF	DSBCH11112	457	\$20,988.00

16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11116 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11116	457	\$21,563.00
18 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11118 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11118	457	\$22,971.00
24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11124 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11124	457	\$33,799.00
32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	DBSPECTRA PART#: BCH11132 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11132	457	\$44,454.00
6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 896-960 MHZ	DBSPECTRA PART#: BCH11206 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11206	457	\$9,545.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 896-960 MHZ	DBSPECTRA PART#: BCH11208 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11208	457	\$9,545.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA PART#: BCH11212 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11212	457	\$20,988.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA PART#: BCH11216 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11216	457	\$21,563.00
24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA PART#: BCH11224 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11224	457	\$33,800.00
32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA PART#: BCH11232 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11232	457	\$44,454.00
6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA PART#: BCH11306 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11306	457	\$9,338.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	DBSPECTRA PART#: BCH11308 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11308	457	\$10,005.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA PART#: BCH11316 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11316	457	\$21,563.00

12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	DBSPECTRA PART#: BCH11312 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11312	457	\$20,988.00
24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA PART#: BCH11324 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11324	457	\$33,978.00
32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	DBSPECTRA PART#: BCH11332 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11332	457	\$44,454.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 400-475 MHZ	DBSPECTRA PART#: BCH11404 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11404	457	\$10,925.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	DBSPECTRA PART#: BCH11404R SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11404R	457	\$10,925.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,350-405MHZ	DBSPECTRA PART#: BCH11408 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11408	457	\$22,425.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	DBSPECTRA PART#: BCH11408R SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11408R	457	\$22,425.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,400-475MHZ	DBSPECTRA PART#: BCH11412 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11412	457	\$33,925.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	DBSPECTRA PART#: BCH11412R SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11412R	457	\$33,925.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,350-405MHZ	DBSPECTRA PART#: BCH11416 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11416	457	\$45,425.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	DBSPECTRA PART#: BCH11416R SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11416R	457	\$45,425.00
4 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	DBSPECTRA PART#: BCH11504 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11504	457	\$12,650.00
	DBSPECTRA PART#: BCH11508 SPEC SHEET			

8 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11508	457	\$25,300.00
12 CH COMBINER CONTROL STATION (PASSIVE) CSC02 150-174 MHZ	DBSPECTRA PART#: BCH11512 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11512	457	\$37,950.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,150-174MHZ	DBSPECTRA PART#: BCH11516 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11516	457	\$50,600.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA PART#: BCH11604 SPEC SHEET LINK:	DSBCH11604	457	\$10,925.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA PART#: BCH11608 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11608	457	\$22,425.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA PART#: BCH11612 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11612	457	\$33,925.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA PART#: BCH11616 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11616	457	\$45,425.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	DBSPECTRA PART#: BCH11704 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11704	457	\$10,925.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	DBSPECTRA PART#: BCH11708 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11708	457	\$22,425.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	DBSPECTRA PART#: BCH11712 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11712	457	\$33,925.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	DBSPECTRA PART#: BCH11716 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11716	457	\$45,425.00
700 MHZ CONTROL STATION COMBINER MILLED WINDOW RX FILTER 769-775,	DBSPECTRA PART#: MWF7AMCSRX SPEC SHEET LINK: www.dbspectra.com/specifications/096000-256_Rev_B_MWF7AMC_MWF8AMC_CSC_TX_&_RX_Filters.pdf	DSMWF7AMCSRX	457	\$2,024.00
700 MHZ CONTROL STATION COMBINER MILLED WINDOW TX	DBSPECTRA PART#: MWF7AMCSTX SPEC SHEET LINK:			

FILTER 769-775,	www.dbspectra.com/specifications/096000-256_Rev_B_MWF7AMC_MWF8AMC_CSC_TX_&_RX_Filters.pdf	DSMWF7AMCSTX	457	\$2,024.00
800 MHZ CONTROL STATION COMBINER MILLED WINDOW RX FILTER 769-775,	DBSPECTRA PART#: MWF8AMCSRX SPEC SHEET LINK: www.dbspectra.com/specifications/096000-256_Rev_B_MWF7AMC_MWF8AMC_CSC_TX_&_RX_Filters.pdf	DSMWF8AMCSRX	457	\$2,024.00
800 MHZ CONTROL STATION COMBINER MILLED WINDOW TX FILTER 769-775,	DBSPECTRA PART#: MWF8AMCSTX SPEC SHEET LINK: www.dbspectra.com/specifications/096000-256_Rev_B_MWF7AMC_MWF8AMC_CSC_TX_&_RX_Filters.pdf	DSMWF8AMCSTX	457	\$2,024.00
8700/800 MHZ CONTROL STATION COMBINER MILLED WINDOW FILTER DUPLEXERTX:	DBSPECTRA PART#: MWFD78CMCSN SPEC SHEET LINK: www.dbspectra.com/specifications/MWFD78CMC_SN_700_800_MHz_CSC_Duplexer.pdf	DSMWFD78CMCSN	457	\$5,302.00
700MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWFD7CMCSN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWFD-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWFD7CMCSN	457	\$3,533.00
800MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWFD8CMCSN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWFD-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWFD8CMCSN	457	\$3,533.00
900MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWFD9CMCSN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWFD-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWFD9CMCSN	457	\$3,533.00
DSD-HC113, 800MHZ CNTRL STATION COMBINER DUPLEXER 100 WATTS	DBSPECTRA PART#: DSD-HC113 SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-068.D_(DSD-HC113).pdf	DSDSDHC113	351	\$2,875.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11804 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11804	457	\$17,250.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11808 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11808	457	\$34,500.00

12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11812 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11812	457	\$51,750.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11904 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11904	457	\$18,975.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11908 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11908	457	\$37,950.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11912 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11912	457	\$56,925.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11916 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11916	457	\$75,900.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 4 CH.	RFI PART#: CS1517-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170405SN	457	\$13,910.00
	RFI PART#: CS1517-0805-SN SPEC SHEET			

HYBRID CONTROL STATION COMBINER, 150-174 MHZ 8 CH.	LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 12 CH.	RFI PART#: CS3845-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451205SN	457	\$27,684.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 16 CH.	RFI PART#: CS3845-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451605SN	457	\$33,337.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 32 CH.	RFI PART#: CS3845-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38453205SN	457	\$70,231.00

HYBRID CONTROL STATION COMBINER, 380-450 MHZ, HEAD END 4 PORT	RFI PART#: CS3852-01-04-HE SPEC SHEET LINK: TBD	DSCS38520104HE	457	\$3,096.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 4 CH.	RFI PART#: CS4552-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520405SN	457	\$7,867.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 8 CH.	RFI PART#: CS4552-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520805SN	457	\$18,078.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 12 CH.	RFI PART#: CS4552-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521205SN	457	\$27,684.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 16 CH.	RFI PART#: CS4552-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521605SN	457	\$33,337.00
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 2 CH. HEAD END	RFI PART#: CS7486-01-02-HE SPEC SHEET LINK: TBD	DSCS74860102HE	457	\$2,710.00
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 4 CH. HEAD END	RFI PART#: CS7486-01-04-HE SPEC SHEET LINK: TBD	DSCS74860104HE	457	\$3,612.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 8 CH.	RFI PART#: CS7486-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74860805SN	457	\$12,172.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 16 CH.	RFI PART#: CS7486-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74861605SN	457	\$26,514.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 32 CH.	RFI PART#: CS7486-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74863205SN	457	\$40,467.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: TBD	DSUB1	351	\$16.50
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 4 CHANNEL	RFI PART#: CS8996-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89960405SN	457	\$7,750.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 16 CHANNEL	RFI PART#: CS8996-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89961605SN	457	\$26,514.00

HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 24 CHANNEL	RFI PART#: CS8996-2405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89962405SN	457	\$39,048.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 32 CHANNEL	RFI PART#: CS8996-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89963205SN	457	\$57,709.00
DUPLEXER TRI BAND 762-776 MHZ, 792-824 MHZ, 851-869 MHZ	RFI PART#: DP767985-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP767985-0801-32_41011-2.pdf	DSDP767985080132	457	\$2,696.00
DUPLEXER 762-776 MHZ, 792-806 MHZ	RFI PART#: DP7680-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP7680-0801-32-41011-3.pdf	DSDP7680080132	457	\$1,581.00
DUPLEXER FOR 896-902 MHZ AND 935-941 MHZ PASSBANDS	RFI PART#: DP8010-0883-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP8010-0883-32_41011-4.pdf	DSDP8010088332	457	\$2,177.00
ANTENNA TRIPLEXER 30-180 MHZ, 330-520 MHZ, 746-960 MHZ	RFI PART#: SP0000-1151-11 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/SP0000-1151-11_P41011-1.pdf	DSSP0000115111	457	\$1,468.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 4 CHANNEL	TXRX PART#: 43-05-01A-04-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JikEqMwrwvLpKhzya6kBAbwE1OhY_Gx/view?usp=sharing	DS430501A04SH	457	\$1,638.00
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 8 CHANNEL	TXRX PART#: 43-05-01A-08-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JikEqMwrwvLpKhzya6kBAbwE1OhY_Gx/view?usp=sharing	DS430501A08SH	457	\$3,276.00
COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 12 CHANNEL	TXRX PART#: 43-05-01A-12-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JikEqMwrwvLpKhzya6kBAbwE1OhY_Gx/view?usp=sharing	DS430501A12SH	457	\$4,914.00
	TXRX PART#: 43-05-01A-16-SH SPEC SHEET			

COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 16 CHANNEL	LINK: https://drive.google.com/file/d/15JikEqMwrvwLpKhzya6kBAbwE1OhY_Gx/view?usp=sharing	DS430501A16SH	457	\$6,552.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 4 CHANNEL	TXRX PART#: 43-83G-01A-04 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A04	457	\$9,467.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 8 CHANNEL	TXRX PART#: 43-83G-01A-08 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A08	457	\$13,549.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 12 CHANNEL	TXRX PART#: 43-83G-01A-12 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A12	351	\$23,593.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 16 CHANNEL	TXRX PART#: 43-83G-01A-16 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A16	457	\$29,624.00
CONTROL STATION COMBINER, 746-869 MHZ, 24 CHANNEL	TXRX PART#: 43-83G-01A-24 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A24	351	\$42,390.00
CONTROL STATION COMBINER, 746-869 MHZ, 28 CHANNEL CSC	TXRX PART#: 43-83G-01A-28 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1VWcl3np_5bSqBjImDDLae7o7/view?usp=sharing	DS4383G01A28	351	\$48,870.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS430501A04SH	SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 4 CHANNEL	457	20
QUOTEDS	TXR	DS430501A08SH	SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 8 CHANNEL	457	20

QUOTEDS	TXR	DS430501A12SH	COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 12 CHANNEL	457	20
QUOTEDS	TXR	DS430501A16SH	COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 16 CHANNEL	457	20
QUOTEDS	TXR	DS4383G01A04	CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 4 CHANNEL	457	21
QUOTEDS	TXR	DS4383G01A08	CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 8 CHANNEL	457	21
QUOTEDS	TXR	DS4383G01A12	CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 12 CHANNEL	351	30
QUOTEDS	TXR	DS4383G01A16	CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 16 CHANNEL	457	21
QUOTEDS	TXR	DS4383G01A24	CONTROL STATION COMBINER, 746-869 MHZ, 24 CHANNEL	351	40
QUOTEDS	TXR	DS4383G01A28	CONTROL STATION COMBINER, 746-869 MHZ, 28 CHANNEL CSC	351	40
QUOTEDS	DBP	DSBCH00008	8 CHANNEL SHORT HAUL COMBINER, CSC01, 100-960MHZ	457	30
QUOTEDS	DBP	DSBCH00016	16 CHANNEL CONTROL STATION COMBINER, CSC01, 100-960MHZ	457	25
QUOTEDS	DBP	DSBCH11006	6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11008	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11012	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11016	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11018	18 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11024	24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25
QUOTEDS	DBP	DSBCH11032	32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	457	25

QUOTEDS	DBP	DSBCH11106	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11108	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11112	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11116	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11118	18 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11124	24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11132	32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,746-806MHZ	457	25
QUOTEDS	DBP	DSBCH11206	6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 896-960 MHZ	457	25
QUOTEDS	DBP	DSBCH11208	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 896-960 MHZ	457	25
QUOTEDS	DBP	DSBCH11212	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	457	25
QUOTEDS	DBP	DSBCH11216	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	457	25
QUOTEDS	DBP	DSBCH11224	24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	457	25
QUOTEDS	DBP	DSBCH11232	32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	457	25
QUOTEDS	DBP	DSBCH11306	6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	457	25
QUOTEDS	DBP	DSBCH11308	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	457	25
QUOTEDS	DBP	DSBCH11312	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	457	25

QUOTEDS	DBP	DSBCH11316	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	457	25
QUOTEDS	DBP	DSBCH11324	24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	457	25
QUOTEDS	DBP	DSBCH11332	32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,806-869MHZ	457	25
QUOTEDS	DBP	DSBCH11404	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 400-475 MHZ	457	25
QUOTEDS	DBP	DSBCH11404R	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	457	25
QUOTEDS	DBP	DSBCH11408	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,350-405MHZ	457	25
QUOTEDS	DBP	DSBCH11408R	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	457	25
QUOTEDS	DBP	DSBCH11412	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,400-475MHZ	457	25
QUOTEDS	DBP	DSBCH11412R	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	457	25
QUOTEDS	DBP	DSBCH11416	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,350-405MHZ	457	25
QUOTEDS	DBP	DSBCH11416R	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 350-405 MHZ	457	25
QUOTEDS	DBP	DSBCH11504	4 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	457	25
QUOTEDS	DBP	DSBCH11508	8 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	457	25
QUOTEDS	DBP	DSBCH11512	12 CH COMBINER CONTROL STATION (PASSIVE) CSC02 150- 174 MHZ	457	25
QUOTEDS	DBP	DSBCH11516	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,150-174MHZ	457	25
QUOTEDS	DBP	DSBCH11604	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	457	25

QUOTEDS	DBP	DSBCH11608	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	457	25
QUOTEDS	DBP	DSBCH11612	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	457	25
QUOTEDS	DBP	DSBCH11616	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	457	25
QUOTEDS	DBP	DSBCH11704	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	457	25
QUOTEDS	DBP	DSBCH11708	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	457	25
QUOTEDS	DBP	DSBCH11712	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	457	25
QUOTEDS	DBP	DSBCH11716	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	457	25
QUOTEDS	DBP	DSBCH11804	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	457	25
QUOTEDS	DBP	DSBCH11808	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	457	25
QUOTEDS	DBP	DSBCH11812	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	457	25
QUOTEDS	DBP	DSBCH11816	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	457	25
QUOTEDS	DBP	DSBCH11904	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	457	25
QUOTEDS	DBP	DSBCH11908	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	457	25
QUOTEDS	DBP	DSBCH11912	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	457	25
QUOTEDS	DBP	DSBCH11916	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	457	25
QUOTEDS	RFA	DSCS0496040531	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 4 CH.	457	5
			SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 8		

QUOTEDS	RFA	DSCS0496080531	CH.	457	5
QUOTEDS	RFA	DSCS0496160531	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	457	20
QUOTEDS	RFA	DSCS0496320531	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	457	30
QUOTEDS	RFA	DSCS13150805SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	457	20
QUOTEDS	RFA	DSCS13151205SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 12 CH.	351	30
QUOTEDS	RFA	DSCS13151605SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	457	20
QUOTEDS	RFA	DSCS13153205SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	457	40
QUOTEDS	RFA	DSCS15170405SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 4 CH.	457	20
QUOTEDS	RFA	DSCS15170805SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 8 CH.	457	20
QUOTEDS	RFA	DSCS15171205SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 12 CH.	457	30
QUOTEDS	RFA	DSCS15171605SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 16 CH.	457	40
QUOTEDS	RFA	DSCS15173205SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	457	30
QUOTEDS	RFA	DSCS38450405SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	457	20
QUOTEDS	RFA	DSCS38450805SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 8 CH.	457	20
QUOTEDS	RFA	DSCS38451205SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 12 CH.	457	30
QUOTEDS	RFA	DSCS38451605SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 16 CH.	457	30
QUOTEDS	RFA	DSCS38453205SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 32 CH.	457	30
QUOTEDS	RFA	DSCS38520104HE	HYBRID CONTROL STATION COMBINER, 380-450 MHZ, HEAD END 4 PORT	457	20
QUOTEDS	RFA	DSCS45520405SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 4 CH.	457	20
QUOTEDS	RFA	DSCS45520805SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 8 CH.	457	20
QUOTEDS	RFA	DSCS45521205SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 12 CH.	457	20

QUOTEDS	RFA	DSCS45521605SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 16 CH.	457	30
QUOTEDS	RFA	DSCS45523205SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 32 CH.	457	30
QUOTEDS	RFA	DSCS74860102HE	STANDARD CONTROL STATION COMBINER, 746-870 MHZ 2 CH. HEAD END	457	20
QUOTEDS	RFA	DSCS74860104HE	STANDARD CONTROL STATION COMBINER, 746-870 MHZ 4 CH. HEAD END	457	20
QUOTEDS	RFA	DSCS74860405SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 4 CH.	457	20
QUOTEDS	RFA	DSCS74860805SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 8 CH.	457	20
QUOTEDS	RFA	DSCS74861205SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 12 CH.	457	20
QUOTEDS	RFA	DSCS74861605SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 16 CH.	457	20
QUOTEDS	RFA	DSCS74862405SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 24 CH.	457	30
QUOTEDS	RFA	DSCS74863205SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 32 CH.	457	30
QUOTEDS	RFA	DSCS89960405SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 4 CHANNEL	457	30
QUOTEDS	RFA	DSCS89960805SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 8 CHANNEL	457	20
QUOTEDS	RFA	DSCS89961605SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 16 CHANNEL	457	40
QUOTEDS	RFA	DSCS89962405SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 24 CHANNEL	457	40
QUOTEDS	RFA	DSCS89963205SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 32 CHANNEL	457	40
QUOTEDS	RFA	DSDP767985080132	DUPLEXER TRI BAND 762-776 MHZ, 792-824 MHZ, 851-869 MHZ	457	20
QUOTEDS	RFA	DSDP7680080132	DUPLEXER 762-776 MHZ, 792-806 MHZ	457	20
QUOTEDS	RFA	DSDP8010088332	DUPLEXER FOR 896-902 MHZ AND 935-941 MHZ PASSBANDS	457	30
QUOTEDS	RFA	DSDP8086080132	DUPLEXER 806-824 MHZ, 851-869 MHZ	457	20
QUOTEDS	DBP	DSDSDHC113	DSD-HC113, 800MHZ CNTRL STATION COMBINER DUPLEXER 100 WATTS	351	20

QUOTEDS	DBP	DSMWF7AMCSRX	700 MHZ CONTROL STATION COMBINER MILLED WINDOW RX FILTER 769-775,	457	20
QUOTEDS	DBP	DSMWF7AMCSTX	700 MHZ CONTROL STATION COMBINER MILLED WINDOW TX FILTER 769-775,	457	20
QUOTEDS	DBP	DSMWF8AMCSRX	800 MHZ CONTROL STATION COMBINER MILLED WINDOW RX FILTER 769-775,	457	20
QUOTEDS	DBP	DSMWF8AMCSTX	800 MHZ CONTROL STATION COMBINER MILLED WINDOW TX FILTER 769-775,	457	20
QUOTEDS	DBP	DSMWF78CMCSN	8700/800 MHZ CONTROL STATION COMBINER MILLED WINDOW FILTER DUPLEXERTX:	457	20
QUOTEDS	DBP	DSMWF7CMCSN	700MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	457	25
QUOTEDS	DBP	DSMWF8CMCSN	800MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	457	25
QUOTEDS	DBP	DSMWF9CMCSN	900MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	457	25
QUOTEDS	RFA	DSSP0000115111	ANTENNA TRIPLEXER 30-180 MHZ, 330-520 MHZ, 746-960 MHZ	457	5
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Public Safety and Private LTE

Core L2/L3 Switch (AC Power)

Ordering Information

General Information

The Core Switch/Router enables network elements and applications within the Private LTE network to communicate with one another.

Features

The LTE Core Switch/Router has the following attributes:

- The Extreme Networks X670-G2 Series provides high-density Layer 2/3 10Gb networking with low latency cut-through switching, IPv4 & IPv6 unicast and multicast routing in a 1 RU form factor.
- Redundant (3) fan modules
- Redundant (2) AC power supplies and cables
- 48 ports of 1/10Gb SFP+ with 4 ports of 10/40Gb QSFP+, The X670-G2-48x-4q supports four QSFP+ ports of 40 GbE. Each 40 Gigabit Ethernet port can be independently configured as 40 Gigabit Ethernet or 4 x 10 Gigabit Ethernet.
- ExtremeXOS® feature set supporting switching and routing
- Optional MPLS feature pack: MPLS provides the ability to implement traffic engineering and multiservice networks, and improve network resiliency. The MPLS protocol suite provides the ability to deploy services based on L2VPNS (VPLS/VPWS), BGP-based L3VPNS; LSP Establishment based on LDP, RSVP-TE, Static provisioning; Integrated OAM tools like VCCV, BFD and CFM; And MPLS Fast Reroute to support rapid local convergence around network failures.

For additional information, search on model number X670-G2 at www.extremenetworks.com

The listed equipment is recommended by the MSI engineering product team. Because this recommendation is new, system management and full integration of the equipment in MSI engineering labs are roadmap items. The target level of system management is fault management by the Unified Event Manager and security monitoring of syslog events by the LXN SIEM.

In advance of a software update to the UEM to provide FM support, the field may make use of the UEM fault management toolkit to integrate supplier's traps into a Device Definition Package that can then be loaded into the UEM.

Golden configs are part of the product team's roadmapped integration effort. This means that before completion of that effort, that the field will need to supply their own configurations for the networking equipment.

Ordering Requirements

For the following deployment types, the switch/router is a mandatory function provided by Motorola Solutions or the Customer.

- LXN 6000 Deployment (Nomadic Deployable + Colocated MSI/Customer App(s) - More than 1 eNB deployment, Bubble Coverage): Order one switch/router per deployment for non-locally redundant transport or two switch/routers per deployment for locally redundant transport.
- LXN 7100 Local Redundancy Deployment: Order one switch/router per deployment for non-redundant transport or two switch/routers per deployment for locally redundant transport.
- LXN 7100 Geo Redundancy Deployment: Order one switch/router per geographic location for non-locally redundant transport or two switch/routers per geographic location for locally redundant transport.

For the following deployment type, the switch/router is optional:

- LXN 6000 Deployment (Nomadic Deployable + Colocated Customer App(s) - Single eNB, trailer type deployment - Bubble Coverage): Order one switch/router per deployment for non-locally redundant transport or two switch/routers per deployment for locally redundant transport.

For the following deployment type, the switch/router is not required:

- LXN 6000 Deployment (Nomadic Deployable + Single Colocated MSI App - Single eNB, trailer type deployment - Bubble Coverage)

For each instance of Motorola Solutions provided switch/router, please order the following models and options:

- qty 1 TT3685A Summit X670-G2-48x-4q-Base-Unit
- qty 3 TT06560AA Summit X670 fan module FB
- qty 2 TT06561AA Summit 550W AC PSU FB
- qty 1 TT06562AA Summit X670 Series Core License
- qty 2 TT06564AA Pwr Cord, 10A, CEE 7/7, C13

If the optional MPLS feature pack is desired, order qty 1 of the following for each instance of switch/router:

- qty 1 TT06563AA Summit X670 MPLS Feature Pack.

Year One of Maintenance and Support for each switch/router must be ordered through iProcurement. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

For LXN 8100 transport ordering information, please contact [Product Management](#).

Configuration

Models

AC Power:

Description	Full Description	Nomenclature	APC	Price
SUMMIT X670 G2 48X 4Q BASE UNIT	-	TT3685	055	\$16,560.00

Options

Description	Full Description	Nomenclature	APC	Price
SUMMIT X670 FAN MODULE FB	-	TT06560AA	055	\$425.00
SUMMIT 550W AC PSU FB	-	TT06561AA	055	\$515.00
SUMMIT X670 SERIES CORE LICENSE	-	TT06562AA	055	\$4,365.00
SUMMIT X670 MPLS FEATURE PACK	-	TT06563AA	055	\$2,910.00
PWR CORD,10A,CEE 7/7,C13	-	TT06564AA	055	\$15.00

Accessories

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	EXL	TT3685	SUMMIT X670 G2 48X 4Q BASE UNIT	055	20

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Public Safety and Private LTE

Core/EPC Firewall

Ordering Information

General Information

The FortiGate Security Gateway is located in the LTE Core network and can be used for the following functions, depending on the deployment use case and LXN product line:

1. OAM Firewall
2. PDN Firewall
3. RAN Firewall. Note: For LXN 6000 & 7100, the RAN Firewall function can be provided as a RAN Firewall Virtual Domain or provided internally by the EPC, which currently can terminate IPsec towards up to 15 eNBs per the default call profile.

For high availability, order the FortiGate Security Gateway in pairs for local redundancy. All models are fully scalable. If higher capacity is required, additional units can be added. Private Broadband [LTE Product Management](#) should be consulted before adding additional capacity to ensure proper configuration.

The listed equipment is recommended by the MSI engineering product team. Because this recommendation is new, system management and full integration of the equipment in MSI engineering labs are roadmap items. The target level of system management is fault management by the Unified Event Manager and security monitoring of syslog events by the LXN SIEM.

In advance of a software update to the UEM to provide FM support, the field may make use of the UEM fault management toolkit to integrate supplier's traps into a Device Definition Package that can then be loaded into the UEM.

Golden configs are part of the product team's roadmapped integration effort. This means that before completion of that effort, that the field will need to supply their own configurations for the networking equipment.

Specifications

FortiGate Security Gateway 500E specifications (for LXN 6000):

- Firewall Throughput (1518/512/64 byte UDP): 36 / 36 / 22 Gbps
- Interfaces: 2x 10 GE SFP+, 10x GE RJ45, 8x GE SFP, 2 SFP (SX 1 GE) transceivers included
- Power Supplies: Single

- Rack Units: 1

FortiGate Security Gateway 1500D specifications (for LXN 7100):

- Firewall Throughput (1518/512/64 byte UDP): 80 / 80 / 55 Gbps
- Interfaces: 8x 10GE SFP+/GE SFP, 16x GE SFP, 18x GE RJ45, 2 SFP+ (SR 10GE) transceivers included
- Power Supplies: Dual
- Rack Units: 2

FortiGate Security Gateway 3100D specifications (for LXN 8100):

- Firewall Throughput (1518/512/64 byte UDP): 80 / 80 / 55 Gbps
- Interfaces: 32x 10G SFP+/GE SFP Slots, 2x GE RJ45, 2 SFP+ (SR 10 GE) transceivers included
- Power Supplies: Dual
- Rack Units: 2

Note that certification and system management of the FortiGate Security Gateway 500E and 1500D models are being finalized, and related capabilities will be available in future LXN releases.

For additional features and specifications, please visit <http://www.fortinet.com> and search on the model number:

- For LXN 6000, search on “500E”.
- For LXN 7100, search on “1500D”.
- For LXN 8100, search on “3100D”.

Ordering Information

LXN 6000

A firewall is not required when the LXN 6000 is deployed in a trailer type deployment with a single eNB providing bubble coverage. The firewall is optional for all other LXN 6000 deployment types.

If local redundancy is not needed, order one FortiGate Security Gateway 500E firewall with each LXN 6000:

Qty 1 TT3706 FIREWALL FG-500

If local redundancy is needed, order two FortiGate Security Gateway 500E firewalls with each LXN 6000:

Qty 2 TT3706 FIREWALL FG-500

If required by project needs, order 10GE SFP+ transceiver modules (short range for all systems with SFP+ and SFP/SFP+ slots):

DDN2585 10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE

LXN 7100

The firewall is optional for the LXN 7100.

If local redundancy is not needed, order one FortiGate Security Gateway 1500D firewall with each LXN 7100:

Qty 1 TT3298 FIREWALL FG-1500D

If local redundancy is needed, order two FortiGate Security Gateway 1500D firewalls with each LXN 7100:

Qty 2 TT3298 FIREWALL FG-1500D

If required by project needs, order 10GE SFP+ transceiver modules (short range for all systems with SFP+ and SFP/SFP+ slots):

DDN2585 10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE

LXN 8100

Please contact [LTE Product Management](#) for a custom configuration of the FortiGate Security Gateway 3100D based on your project requirements.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
FIREWALL FG-500E	-	TT3706	055	\$8,925.00
FIREWALL FG-1500D	-	TT3298	055	\$28,080.00
10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE	-	DDN2585	055	\$114.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
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QUOTEDS	FON	DDN2585	10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE	055	20
QUOTEDS	FON	TT2633	LTE CORE FIREWALL	055	20
QUOTEDS	FON	TT3298	FIREWALL FG-1500D	055	20
QUOTEDS	FON	TT3706	FIREWALL FG-500E	055	10

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JUMP TO ...

**GENERAL
INFORMATION**

General Information

Mobile Data, Programming and Keyloading Cables

Part Number	Description	Used For
HKN6182	GCAI Cable Adapter For Keyloader	For use with Keyloading Cable TKN8531 to adapt for use with GCAI Port on XTL or APX Mobile Radios.
TKN8531	Keyload Cable	For use with KVL and XTL or APX Mobiles. Requires HKN6182.
HKN6183	GCAI RS232 Program/Flashport Cable (XTL Only)	Programming Mid or High Power Radios through control head or TIB GCAI connector on transceiver.
HKN6184	GCAI USB Programming/Flashport Cable	Programming APX and XTL Radios through Microphone GCAI Connector on the M5/O5/O9. On XTL through the GCAI TIB connector on the transceiver for High Power Radios Only. On APX through the GCAI TIB connector on the transceiver for All Mid and High Power Radios. Note: Recommended for High Power O3 Control Heads for Programming. Not recommended as a Data Cable. Not compatible with O9 Control Head for Data.
HKN6122	RS232 Data cable (XTL Only)	Can also be used for programming Remote Mount Mid or High Power Radio through the J600 TIB Connector.
HKN6160	6 ft. RS232 Data Cable (XTL Only)	Data cable and can be used to program Mid Power radios through the J2 Accessory Connector on rear of the radio. Can also program both remote mount Mid Power and High Power radios through the J2 Accessory Connector on the rear of the M5/O5. Cannot be used on a High Power radio with an O3 Control Head. Note: On Dash Mount O5 radios this cable needs to be pinned out if using Speaker or Ignition Sense.
HKN6161	20 ft. RS232 Data Cable	Data cable and can be used to program Mid Power radios through the J2 Accessory Connector on rear of the radio. Can also program both remote mount Mid Power and High Power radios through the J2 Accessory Connector on the rear of the M5/O5. Cannot be used on a

	(XTL Only)	High Power radio with an O3 Control Head. Note: On Dash Mount O5 radios this cable needs to be pinned out if using Speaker or Ignition Sense.
HKN6163	6 ft. USB Data Cable (APX and XTL)	Data cable and can be used to program Mid Power radios through the J2 Accessory Connector on rear of the radio. Can also program both remote mount Mid Power and High Power radios through the J2 Accessory Connector on the rear of the M5/O5/O9. Cannot be used on a High Power radio with an O3 Control Head. Note: On Dash Mount O5 radios this cable needs to be pinned out if using Speaker or Ignition Sense.
HKN6172	15 ft. USB Data Cable (APX and XTL)	Data cable and can be used to program Mid Power radios through the J2 Accessory Connector on rear of the radio. Can also program both remote mount Mid Power and High Power radios through the J2 Accessory Connector on the rear of the M5/O5/O9. Cannot be used on a High Power radio with an O3 Control Head. Note: On Dash Mount O5 radios this cable needs to be pinned out if using Speaker or Ignition Sense.
HKN6177	6 ft. USB Data Cable	HPD 1000 - Can also be used as Program/ Flashport Cable
HKN6178	16.5 ft. USB Data Cable	HPD 1000 - Can also be used as Program Cable
HKN6180	RS232 Data Cable	HPD 1000 - Can also be used as Program/ Flashport Cable

JUMP TO ...

Critical Connect

The MSI Critical Connect solution is a platform that enables the seamless exchange of information, voice, data, and video, between disparate networks, applications and agencies. With one secure interface, agencies get virtual direct connections to other agencies or personnel outside of their LMR coverage – providing seamless, interoperable communication across town, across state, or across the nation.

The initial offering of the Critical Connect Platform is focused on providing interoperable PTT communication between different ASTRO®25 land mobile radio networks and between ASTRO®25 networks and MSI carrier-integrated broadband PTT. Additional capabilities will be offered as they become available.

Critical Connect is orderable in CPQ, and sold as a subscription for **3, 4, or 5 years**.

Feature	ASTRO ISSI 8000 Solution	Universal Gateway Interop Service	
Group call w/ clear audio	Supported	Supported	
Emergency Alarm	Supported	Supported	
Emergency Call	Supported	Supported	
MultiGroup Call	Supported	Supported	
LMR Radio Alias distribution	Supported	Supported	
Interface capacity	200 calls	Scalable. Each WRG supports up to 50 calls and more WRGs can be added to have more capacity	
Guaranteed Call Participation (AllStart / FastStart)	AllStart/FastStart Supported	Supported	
	Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)
Packages	Unique Connection - 2 Simul. Talk Paths - 10	Unique Connection - 5 Simul. Talk Paths - 25	Unique Connection - 20 Simul. Talk Paths - 50
Basic Voice Interop Package (includes LMR-BB and LMR-LMR)	\$4,500 / \$54,000	\$7,000 / \$84,000	\$8,500 / \$102,000

Advanced Voice Interop Package (Optimized RF utilization on ASTRO)	\$5,000	\$7,500	\$9,000
Option: Voice encryption (LMR-BB)	\$2,500	\$5,000	\$5,000
Option: Secure MPLS Backhaul	\$2,000	\$3,000	\$4,000

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[SHIP CARD](#)

Model



CRYPTRmicro ORDERING GUIDE

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[ORDERING GUIDE LINK](#)

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Data Not Available



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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Customer Programming Software (CPS)

Ordering Information

BASIC PAK MODEL

The Customer Programming Software (CPS) is a single user utility disk designed to function with standard off the shelf Radio Service Software (RSS). The CPS enables this software to program trunking system related features and unit IDs into subscriber radio code plugs. The CPS is designed for customers who want radio code plug programming capabilities, but who have a strategy to manage their subscriber radio fleetmap without using Motorola's Local Assignment System (LAS) product offering.

PLEASE NOTE! Pak customers will be required to order subscriber mobile and portable radios from the factory using the "add field programming" option. Radio fleetmap information for CPS customers will not be maintained in TCMS, and existing fleetmap information will be removed.

Ordering Requirements

If the CPS is to be used for an existing trunking system, include the Trunking System ID as an **"Item Note"** to the CPS model number. If the CPS is to be used for more than one trunking system, all Trunked System ID's must be listed on the order.

Since there is no executable software or stored data on the CPS disk, a signed license agreement from the customer is not required.

If a Trunked System ID is not assigned to the CPS customer, then a letter from the trunking system owner(s) authorizing inclusion of their ID(s) into the CPS must be attached to the order and received before an order for the CPS can be processed.

Order the appropriate Radio Service Software (RSS) packages for programming trunking subscriber radios from Aftermarket Accessory Division.

Return to ASTRO® Digital Spectra Plus

Return to LCS 2000®

Return to LTS 2000®

Return to MCS 2000®

Return to MTS 2000®

Return to XTS 3000®

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
PROGAMMING ACCESS KEY (PAK) 3.5" MEDIA	-	CVN6143	647	\$750.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CVN6143	PROGAMMING ACCESS KEY (PAK) 3.5" MEDIA	647	19

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Customer Technician Dispatch Service

Ordering Information

General Information

Customer Technician Dispatch Service is a variation of Dispatch Service specifically design for Customer Owned and Maintained (COAM) customers who are providing their own on-site response for infrastructure. Motorola will dispatch the customer's technicians to the appropriate site when necessary. This service is for our COAM customers who want Network Monitoring Service, but do not want Motorola to provide the on-site response.

The Call Center Operation (CCO) at Motorola's SSC will provide a central point of contact for technical customer service requests 7-days per week, 24 hours per day, 365 days per year. The CCO is staffed with customer support representatives who will coordinate the appropriate service response and resources to Customer. Service requests are tracked and monitored by Motorola from creation of a Case through an electronic Case process.

Features

- Escalation Management
- 24 Hour/365 Day Service Availability
- Single Point of Contact
- Toll Free Service Number
- (800) 221-7144
- Activity Reporting
- Computer Aided Dispatch
- Electronic Case Tracking
- Dispatch of customer's own field technicians

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. Customer Technician Dispatch Service requires the purchase of Network Monitoring Service. Do not purchase Dispatch Service if purchasing Customer Technician Dispatch Service. See below.

	Network Monitoring Service	Technical Support	Dispatch Service	Customer Technician Dispatch	OnSite Infrastructure Response
Motorola Maintained	Required	Suggested	Required	N/A	Required
Customer Maintained (COAM)	Required	Suggested	N/A	Required	N/A

7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

CUSTOMER TECHNICIAN DISPATCH SERVICE Service for Astro25 System Releases in Standard Support

Description	Nomenclature	APC	Price
CUSTOMER TECHNICIAN DISPATCH	SVC01SVC1105C	006	\$0.00
K1 Master Site		006	\$971.30

K2 Master Site		006	\$971.30
Prime Site		006	\$971.30
Remote Site		006	\$194.70
Dispatch Site		006	\$364.10
L1 Master Site		006	\$2,427.70
L2 Master Site		006	\$2,427.70
Prime Site		006	\$1,214.40
Remote Site		006	\$194.70
Dispatch Site		006	\$364.10
M1 Master Site		006	\$7,283.10
M2 Master Site		006	\$7,283.10
M3 Master Site (First Zone)		006	\$7,280.90
Additional Zones		006	\$7,280.90
DSR Site		006	\$2,379.30
Prime Site		006	\$2,986.50
Remote Site		006	\$194.70
Dispatch Site		006	\$364.10

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Cybersecurity Professional Services

Ordering Information

General Information

The digital world has brought to life unprecedented ways to increase productivity, maximize value, and ultimately improve the lives of billions of people. At the same time, an explosion of cyber security incidents has brought unique challenges to businesses and government agencies alike. Today, polymorphic attacks capable of modifying themselves with every execution are ubiquitous. While many organizations would like to think their most sensitive mission-critical information is inoculated; it is becoming increasingly clear that no one is immune. Cyber security goes beyond hacker attacks and technical controls.

The cyber security regulatory and enforcement landscape is also dynamic and rapidly evolving, creating more challenges in complying with a myriad of industry standards while managing appropriate security controls. As mission-critical networks evolve into dynamic systems of interconnected networks with more open-source platforms and cloud-based solutions, governance and oversight throughout the system's operational lifecycle is required. This encompasses a coordinated and regular re-evaluation of people, processes and technology to assure organizational readiness to protect, detect and respond to evolving threats.

Motorola's Cyber Security Professional Services provide a comprehensive and systematic process for identifying, assessing and managing cyber security risk throughout enterprise systems. With Cyber Security Professional Services, you will be able to fully understand your cyber security risk posture related to your organization's operational environment. Motorola provides a comprehensive assessment of your attack surface profile; a cost/benefit evaluation and detailed remediation recommendations. With ever-changing technologies and business processes, security threats are always changing and your organization's security posture is never static. Periodic security posture assessments help to maintain a current record of vulnerabilities and help to prioritize remediation activities necessary based on overall risk to your operations.

In 2014, the National Institute of Standards and Technology (NIST) issued the Framework for Improving Critical Infrastructure Cybersecurity for organizations to achieve specific cyber security outcomes. The Framework comprises leading practices from various standards bodies that have proved to be successful when implemented. Motorola Solutions participated alongside government and industry partners to help develop this framework. As a result, Motorola's assessment leverages the NIST recommendations by mapping the NIST Cybersecurity Framework to your organization's current risk management processes and procedures to determine your current cyber security profile risk levels and recommendations.

Features

Scope Only applicable controls spanning Technical, Management and Operational categories are selected to conduct a tailored risk analysis. Mitigation steps such as security architecture changes, integration of specific products or implementation of procedural control are recommended and discussed with the stakeholders only after the environment is methodically evaluated, risks are identified, analyzed, clearly understood and risk prioritized.

Approach Using physical observation, in-person interviews, manual, computerized, commercially available and custom tools, Motorola will evaluate potential threat scenarios and assess potential risk implications to confidentiality, integrity and availability of the organization's mission.

Methodology All applicable risk factors are considered and taken into account prior and during the assessment. After capturing all necessary data pertaining to the scope of the assessment, a threat profile is developed and prepared as a Risk Scorecard report indicating low, moderate, high and critical values for each finding/issue identified. A remediation or risk acceptance recommendation will follow each finding/issue. Using physical observation, in-person interviews, manual, computerized, commercially available and custom tools, Motorola will evaluate potential threat scenarios and assess potential risk implications to confidentiality, integrity and availability of the organization's mission. Only applicable controls spanning Technical, Managed and Operational categories are selected to conduct a tailored risk analysis. Mitigation steps such as security architecture changes, integration of specific products or implementation of procedural control are recommended and discussed with the stakeholders only after the environment is methodically evaluated, risks are identified, analyzed, clearly understood and risk prioritized.

CYBERSECURITY PROFESSIONAL SERVICES DISCIPLINES

Management

- Business Impact Analysis
- Asset Identification Classification
- NIST Framework Readiness Assessment
- Framework Governance Structure and Institutionalization
- Cyber Risk Scorecard and Organizational Key Performance Indicators (KPIs)
- Organizational Policy and Standards Development
- Operational Processes Effectiveness
- Threat Modeling/Threat Intelligence
- Intellectual Property Risk Assessment
- Off-shore Manufacturing and Software Development Risk Evaluation
- Secure Development Lifecycle
- Threat Analysis/Research
- Regulatory Compliance Impact Evaluation
- Third-Party Vendor Management Policy Process
- Training and Awareness

Operational

- Ad-Hoc Customer Inquires
- Operational Security Assistance
- Incident Response Assistance
- Digital Forensics Investigation
- Tailored Security Monitoring
- Customized Anomaly Detection Monitoring

Social Engineering Testing

Technical

- Technical Risk Cyber Security Assessments
 - Vulnerability Scans
 - Web Application Security
 - LAN and Wireless Penetration Testing
 - Physical Penetration Testing
 - Cloud Implementation Assessment
- Compliance Evaluation
- Network Architecture Review
- Third-Party Connectivity Evaluation
- SCADA Environment Risk Assessment
- Network Architecture Review
- Application Audit/Code Review
- Security Reference Architecture
- Enterprise Architecture Security
- Cryptographic Services
- Secure Mobile Technology Adoption
- "Honey Pot" Deployment and Monitoring
- Open Source Software Licensing Compliance

Statement of Work

Cybersecurity Professional Services will be unique to each customer's operational environment. As such, it will be highly customizable. Please reach out to security services offer management team for specifics.

Cybersecurity Professional Services [SOW and Addendum](#)

Ordering Requirements

Initial Purchase of Service - SVC03SVC0113D CYBERSECURITY PROFESSIONAL SERVICES

This product cannot be ordered directly through COF at this time. This product must be ordered using an internal Installation Agreement (IA).

Ongoing Maintenance Orders use mode - SVC05SVC0483A SP-CYBERSECURITY PROFESSIONAL SERVICES

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#).

Configuration

CYBERSECURITY PROFESSIONAL SERVICES

Description	Full Description	Nomenclature	APC	Price
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CYBERSECURITY PROFESSIONAL SERVICES (Initial Purchase)	Please contact Paul Hill at paul.hill@motorolasolutions.com for a quote.	SVC03SVC0113D	969	\$0.00
CYBERSECURITY PROFESSIONAL SERVICES (On-going maintenance)	Please contact Paul Hill at paul.hill@motorolasolutions.com for a quote.	SVC05SVC0483A	969	\$0.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SMSS	SVC03SVC0113D	CYBERSECURITY PROFESSIONAL SERVICES	969	30
HW_MAINTENANCE	US1	SVC05SVC0483A	CYBERSECURITY PROFESSIONAL SERVICES	0814	

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

DC POWER SYSTEMS, BATTERIES and GENERATORS

Ordering Information

General Information

Additional information on DC Power Systems can be found on the SIO 3rd Party Drop Ship wiki at <http://compass.mot-solutions.com/web/3rdpartydropship>.

DC POWER, BATTERIES AND GENERATORS

Motorola supplies DC power systems, batteries, and generators through leading technology third party suppliers.

DC Power System Preferred Suppliers include Eltek, Alpha Technologies, and Weldy Lamont (Distributor for La Marche)

The National Site Design and Integration Team (NSDIT) can provide information on site design and MSI R56 standards compliance (click here for [NSDIT contacts](#)).

To request a DC Power System quote, please complete this [form](#) and email it to Tim Shevlin at timothy.shevlin@motorolasolutions.com.

Configuration

DC Power Systems

Motorola supplies DC Power Systems through leading technology third party suppliers. Power Suppliers include Eltek, Alpha Technologies, and Weldy Lamont

The National Site Design and Integration Team (NSDIT) can provide information on site design and MSI R56 standards compliance (click here for [NSDIT contacts](#)).

To request a custom Power Systems quote, please contact our preferred suppliers Eltek, Alpha Technologies, and Weldy Lamont

Description	Full Description	Nomenclature	APC	Price
DC POWER SYS, FP2 SYSTEM / REAR				

WIRE 600AMP MAX, 23 IN RM -48V 2 BATT	-	DS259723	0207	\$9,181.00
FP2 SYSTEM, -48V, 168A MAX, 19IN., (4)REC POS, (6) BREAKER POS	-	DS264118	0207	\$2,330.00
DC POWER SYS, FP2 600 AMP -48V 23IN RACK MT DUAL AC INPUT PER RECTIFIE	-	DS299199	0207	\$10,579.00
DC POWER SYSTEM, FP2 23IN RACK MOUNTED 1344 AMP -48V DUAL AC INPUT	-	DS299235	0207	\$17,907.00
FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	-	DS305827	0207	\$5,435.00
FP2 SYSTEM / FRONT/REAR WIRE 500AMP MAX, LVBD ONLY -48V 19IN 7RU	-	DS305831	0207	\$5,972.00
FP2 DC/DC PRIMARY 48V/333, SEC 224V/224	-	DS315268	0207	\$5,932.00
DC PWR SYS FP2 REAR WIRE 168AMP -48V 19IN DUAL AC INPUT (4) RECTIFIER	-	DS327061	0207	\$4,615.00
DC POWER SYSTEM, 48V, 84X23X22 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPSX2001	0207	\$6,046.00
DC POWER SYSTEM, 48V, 84X19X18 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPSX200193	0207	\$6,961.00
48V, 200A, 19IN. SYSTEM W/(3) BATT TRAYS TO ACCOM (2)LG STRINGS 48V BT	-	DSDCPSX20019BC	207	\$7,803.00
48V, 200A DC POWER SYS, 84X23X22 RACK, 2 BATT TRAY, 2 BATT BRK	-	DSDCPSX2002S	0207	\$6,797.00
48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK	-	DSDCPSX2003BS	0207	\$8,031.00
RECTIFIER, 48V, 75AMP	-	DSLMHF7548VZE1	0207	\$1,560.00

800A, 48VDC POWER SYSTEM, 1200A LMDC, (9) 75A RECT POS, 800A BATT DISC	-	DSL MHFX800BD	0207	\$15,566.00
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Batteries

Motorola supplies batteries through leading technology third party suppliers. Batteries are typically sourced through our preferred power system suppliers as part of a complete DC Power System. Power Suppliers include Eltek, Alpha Technologies, and Weldy Lamont

The National Site Design and Integration Team (NSDIT) can provide information on site design and MSI R56 standards compliance (click here for [NSDIT contacts](#)).

To request a custom Battery System quote, please contact our preferred suppliers Eltek, Alpha Technologies, and Weldy Lamont

Description	Full Description	Nomenclature	APC	Price
BATTERY,VRLA,48V,840AH,4X6,MSENDUR AT-15P	-	DS1810150	0207	\$21,372.00
BAT,VRLA,48V STRG,800AH,GNB100G17,TAL (NON-LOI)	-	DS18135210	0207	\$19,302.00
48V 62AH 12V62F BATT SET	-	DS0991055758	0207	\$1,802.00
48V 190AH BATT SET # SBS190F	-	DS0991072458	0207	\$4,032.00
48V 1360AH BATTERY SET DDM85-33	-	DS208874	0207	\$32,708.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	0207	\$37,067.00
48V 2000AH BATTERY SET #DDM125-33	-	DS222707	0207	\$42,218.00
BATTERY 48V 850AH DDM85-21 BATT SET 4WX6H	-	DS222865	0207	\$22,664.00
BATTERY, 48V 1000AH DDM100-21 BATT SET 3WX8H	-	DS222806	0207	\$25,360.00
BATTERY, 48V 1300AH BATT SET# DDM100-27 3 WIDE X 8 HIGH	-	DS222708	0207	\$31,277.00

48V 2000AH BATTERY SET #DDM125-33	-	DS222707	0207	\$42,218.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	0207	\$37,067.00

Inverters/Converters

Description	Full Description	Nomenclature	APC	Price
INVERTER, 1000 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS17254812060U	207	\$1,952.00
INVERTER, 250 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS16524812060P	207	\$1,006.00
INVERTER, 1 KVA, 24VDCIN/120VACOUT 2RU RM 19/23 INCH	Inverter	DS298510	207	\$2,605.00
CONVERTER, 200-WATT, SINGLE OUTPUT 48 VDC INPUT TO 13 VDC OUTPUT	-	DS1720481315	207	\$943.00
CONVERTER, MOBILE, 24 VDC INPUT TO 12 VDC OUTPUT, 15 AMPS	-	DS1650241215	207	\$253.00
CONVERTER, 400W, 48VDC INPUT TO 13 VDC OUTPUT W/ PARALLELING OPTION	-	DS1720481330M3	0207	\$1,548.00

Generators

Motorola supplies generators through leading technology third party suppliers.

Generator preferred suppliers are Cummins Onan and Generac

The National Site Design and Integration Team (NSDIT) can provide information on site design and MSI R56 standards compliance (click here for [NSDIT contacts](#)).

To request a Generator quote or require engineer assistance, please contact the preferred suppliers

Description	Full Description	Nomenclature	APC	Price
GENERATOR, 35KW NAT GAS,	-	DSSG035IDNG	0329	\$22,850.00

120/240V 1-PH, NO ENCL				
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, ID 5.4 L, UPSIZE TO 40KW	-	DSSG035IDVP	0207	\$23,272.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODNG	0207	\$26,443.00
GENERATOR, 35KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODVP	0207	\$28,030.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SANG	0207	\$30,223.00
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SAVP	0207	\$30,223.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, OUTDOR HOUSING	-	DSSG050ODNG	0207	\$32,736.00
GENERATOR, 50KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG050ODVP	0207	\$32,766.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SANG	0207	\$35,678.00
GENERATOR, 50KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SAVP	0207	\$36,554.00
GENERATOR, 70KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070ODNG	0207	\$39,203.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070ODVP	0207	\$39,204.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG070SAVP	0207	\$43,229.00
80KW;LPV; INDOOR; 120/240VAC;1PH; 8.0L; LOW	-	DSSG080IDVP	0207	\$39,804.00

EMISSION; NO ENCL; UPSIZE				
GENERATOR, 80KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG080ODVP	0207	\$39,575.00
GENERATOR, 100KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG100SAVP	0207	\$45,450.00
130KW;LPV; OUTDOOR; 120/240VAC;1PH; 9.0L; LOW EMISSION; LVL2 ENCL	-	DSSG130SAVP	0207	\$64,278.00
GENERATOR, 25KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS25CD6ODDL	0207	\$36,602.00
GENERATOR, 25KW NAT GAS, 120/240V SOUND ATTENUATED HOUSING	-	DS25CN6SANG	0207	\$29,782.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS35CD6ODDL	207	\$38,738.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, SOUND ATTENUATED HOUSING	-	DS35CD6SADL	0207	\$40,653.00
GENERATOR, 35KW NG, 120/208V 3PH, SA HOUSING	-	DS35CN6HSANG3PH	0207	\$31,263.00
GENERATOR, 35 KW 1 PHASE OUTDOOR SOUND ATTENUATED HOUSING	-	DS35CN6SANG	0207	\$48,450.00
GENERATOR, 50 KW 1 PHASE OUTDOOR	-	DS50CD60ODDL	0207	\$66,880.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, OD HOUSING	-	DS50DGHDAODDL	0207	\$43,615.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, LVL2 SOUND ATTENUATED HSG (OD)	-	DS50DGHDASADL	0207	\$49,257.00
80KW DIESEL GENERATOR, 1PH,	-	DS80DSFAESADL	0207	\$55,946.00

SOUND ATTN HOUSING				
GENERATOR, 80KW DIESEL ,120/240 1PH, SOUND ATTENUATED HOUSING	-	DSC80D6CSADL	0207	\$57,055.00

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Product Type	FC	Nomenclature	Description	APC
QUOTEDS	AGR	DQ1810396M	BATTERY,VRLA,48V,1105AH,DDM85-27,4X6	0207
QUOTEDS	PCP	DS0991055758	48V 62AH 12V62F BATT SET	0207
QUOTEDS	PCP	DS0991072458	48V 190AH BATT SET # SBS190F	0207
QUOTEDS	SHI	DS1650241215	CONVERTER, MOBILE, 24 VDC INPUT TO 12 VDC OUTPUT, 15 AMPS	207
QUOTEDS	SHI	DS16524812060P	INVERTER, 250 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	207
QUOTEDS	SHI	DS1720481315	CONVERTER, 200-WATT, SINGLE OUTPUT 48 VDC INPUT TO 13 VDC OUTPUT	207
QUOTEDS	SHI	DS1720481330	CONVERTER, 400 WATT, SINGLE OUTPUT 48 VDC INPUT TO 13 VDC OUTPUT	207
QUOTEDS	SHI	DS1720481330M3	CONVERTER, 400W, 48VDC INPUT TO 13 VDC OUTPUT W/ PARALLELING OPTION	0207
QUOTEDS	SHI	DS17254812060U	INVERTER, 1000 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	207
QUOTEDS	AGR	DS1810150	BATTERY,VRLA,48V,840AH,4X6,MSENDUR AT-15P	0207

QUOTEDS	AGR	DS18135210	BAT,VRLA,48V STRG,800AH,GNB100G17,TAL (NON-LOI)	0207
QUOTEDS	PCP	DS208874	48V 1360AH BATTERY SET DDM85-33	0207
QUOTEDS	PCP	DS222007	BATTERY, 48V 1600 AH SET #DDM100-33	0207
QUOTEDS	PCP	DS222707	48V 2000AH BATTERY SET #DDM125-33	0207
QUOTEDS	PCP	DS222708	BATTERY, 48V 1300AH BATT SET# DDM100-27 3 WIDE X 8 HIGH	0207
QUOTEDS	PCP	DS222806	BATTERY, 48V 1000AH DDM100-21 BATT SET 3WX8H	0207
QUOTEDS	PCP	DS222865	BATTERY 48V 850AH DDM85-21 BATT SET 4WX6H	0207
QUOTEDS	PCP	DS259723	DC POWER SYS, FP2 SYSTEM / REAR WIRE 600AMP MAX, 23 IN RM -48V 2 BATT	0207
QUOTEDS	ONA	DS25CD6ODDL	GENERATOR, 25KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	0207
QUOTEDS	ONA	DS25CN6SANG	GENERATOR, 25KW NAT GAS, 120/240V SOUND ATTENUATED HOUSING	0207
QUOTEDS	PCP	DS264118	FP2 SYSTEM, -48V, 168A MAX, 19IN., (4)REC POS, (6) BREAKER POS	0207
QUOTEDS	PCP	DS298510	INVERTER, 1 KVA, 24VDCIN/120VACOUT 2RU RM 19/23 INCH	207
QUOTEDS	PCP	DS299199	DC POWER SYS, FP2 600 AMP -48V 23IN RACK MT DUAL AC INPUT PER RECTIFIE	0207
QUOTEDS	PCP	DS299235	DC POWER SYSTEM, FP2 23IN RACK MOUNTED 1344 AMP -48V DUAL AC INPUT	0207
QUOTEDS	PCP	DS305827	FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	0207
QUOTEDS	PCP	DS305831	FP2 SYSTEM / FRONT/REAR WIRE	0207

			500AMP MAX, LVBD ONLY -48V 19IN 7RU	
QUOTEDS	PCP	DS315268	FP2 DC/DC PRIMARY 48V/333, SEC 224V/224	0207
QUOTEDS	PCP	DS327061	DC PWR SYS FP2 REAR WIRE 168AMP -48V 19IN DUAL AC INPUT (4) RECTIFIER	0207
QUOTEDS	ONA	DS35CD6ODDL	GENERATOR, 35KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	207
QUOTEDS	ONA	DS35CD6SADL	GENERATOR, 35KW DIESEL, 120/240V 1PH, SOUND ATTENUATED HOUSING	0207
QUOTEDS	ONA	DS35CN6HSANG3PH	GENERATOR, 35KW NG, 120/208V 3PH, SA HOUSING	0207
QUOTEDS	ONA	DS35CN6SANG	GENERATOR, 35 KW 1 PHASE OUTDOOR SOUND ATTENUATED HOUSING	0207
QUOTEDS	ONA	DS50CD60ODDL	GENERATOR, 50 KW 1 PHASE OUTDOOR	0207
QUOTEDS	ONA	DS50DGHDAODDL	GENERATOR, 50KW DIESEL, 120/240V 1PH, OD HOUSING	0207
QUOTEDS	ONA	DS50DGHIDASADL	GENERATOR, 50KW DIESEL, 120/240V 1PH, LVL2 SOUND ATTENUATED HSG (OD)	0207
QUOTEDS	ONA	DS80DSFAESADL	80KW DIESEL GENERATOR, 1PH, SOUND ATTN HOUSING	0207
QUOTEDS	ONA	DSC80D6CSADL	GENERATOR, 80KW DIESEL ,120/240 1PH, SOUND ATTENUATED HOUSING	0207
QUOTEDS	LAM	DSDCPSX2001	DC POWER SYSTEM, 48V, 84X23X22 RELAY RACK 4RU DCPS-200A LVL2	0207
QUOTEDS	LAM	DSDCPSX200193	DC POWER SYSTEM, 48V, 84X19X18 RELAY RACK 4RU DCPS-200A LVL2	0207
QUOTEDS	LAM	DSDCPSX20019BC	48V, 200A, 19IN. SYSTEM W/(3) BATT TRAYS TO ACCOM (2)LG STRINGS 48V BT	207

QUOTEDS	LAM	DSDCPSX2002S	48V, 200A DC POWER SYS, 84X23X22 RACK, 2 BATT TRAY, 2 BATT BRK	0207
QUOTEDS	WDL	DSDCPSX2003BS	48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK	0207
QUOTEDS	WDL	DSDCPSX2003BS	48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK	0207
QUOTEDS	LAM	DSL MHF7548VZE1	RECTIFIER, 48V, 75AMP	0207
QUOTEDS	GRC	DSQT025SANG	GENERATOR, 25KW NAT GAS/LPV, QT SERIES, 120/240V 1PH, OD HSG	0207
QUOTEDS	GRC	DSSD020ODDL	GENERATOR, 20KW DIESEL, 120/240V 1-PH, OUTDOOR HSG	0207
QUOTEDS	GRC	DSSD025	GENERATOR, 25KW DIESEL, 120/240V 1PH, OD, 1PH, 132 GAL, UPSIZE 35KW	0207
QUOTEDS	GRC	DSSD025ODDL	GENERATOR, 25KW DIESEL, OD ENCL W/MUFF	0207
QUOTEDS	GRC	DSSD035ODDL	GENERATOR, 35KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSD035ODDL300G	GENERATOR, 35KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING 300 GAL TANK	0207
QUOTEDS	GRC	DSSD035SADL	GENERATOR, 35KW DIESEL, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSD040IDDL	40KW; DIESEL; INDOOR; 120/240VAC; 1PH; 3.4L ENG; 132 GAL TANK; NO ENCL	0207
QUOTEDS	GRC	DSSD040IDDL211G	40KW; DIESEL; INDOOR; 120/240VAC; 1PH; 3.4L ENG; 211 GAL TANK; NO ENCL	0207
QUOTEDS	GRC	DSSD050IDDL	GENERATOR, 50KW DIESEL, 120/240V 1-PH, NO HOUSING (INDOOR USE ONLY)	0207
QUOTEDS	GRC	DSSD050ODDL	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING	0207

QUOTEDS	GRC	DSSD050ODDL211G	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING 211 GAL TANK	0207
QUOTEDS	GRC	DSSD050ODDL300G	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING 300 GAL TANK	0207
QUOTEDS	GRC	DSSD050ODDL3PH	GENERATOR, 50KW DIESEL, 120/208 3-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSD050SADL	GENERATOR, 50KW DIESEL, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSD080ODDL	GENERATOR, 80KW DIESEL, 120/240V 1-PH , OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSD100ODDL	GENERATOR, 100KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSD17520112616	GEN 175KW; DIESEL; OUTDOOR; 120/208 3PH;6.7L; 946 GAL TANK; LVL 2 ENCL	0207
QUOTEDS	GRC	DSSG035IDNG	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, NO ENCL	0329
QUOTEDS	GRC	DSSG035IDVP	GENERATOR, 35KW LP VAPOR, 120/240V 1PH, ID 5.4 L, UPSIZE TO 40KW	0207
QUOTEDS	GRC	DSSG035ODNG	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSG035ODVP	GENERATOR, 35KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSG035SANG	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG035SAVP	GENERATOR, 35KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG050ODNG	GENERATOR, 50KW NAT GAS, 120/240V 1-PH, OUTDOR HOUSING	0207
QUOTEDS	GRC	DSSG050ODVP	GENERATOR, 50KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	0207

QUOTEDS	GRC	DSSG050SANG	GENERATOR, 50KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG050SAVP	GENERATOR, 50KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG070ODNG	GENERATOR, 70KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSG070ODVP	GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSG070SAVP	GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG080IDVP	80KW;LPV; INDOOR; 120/240VAC;1PH; 8.0L; LOW EMISSION; NO ENCL; UPSIZE	0207
QUOTEDS	GRC	DSSG080ODVP	GENERATOR, 80KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	0207
QUOTEDS	GRC	DSSG100SAVP	GENERATOR, 100KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	0207
QUOTEDS	GRC	DSSG130SAVP	130KW;LPV; OUTDOOR; 120/240VAC;1PH; 9.0L; LOW EMISSION; LVL2 ENCL	0207

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JUMP TO ...

[GENERAL INFORMATION](#)

[DEVICE MANAGEMENT SERVICE PACKAGES AND INFORMATION](#)

[LEGACY RADIO MANAGEMENT LICENSES](#)

[ORDERING INFORMATION](#)

[INCLUDED IN THE BASE MODEL](#)

Model: Device Management Service

Ordering Information

General Information

The Device Management Service (DMS) for the North America/ASTRO market is a package with options for some of the most desirable device features available such as APX radio programming, Radio Management database hosting, Device Preventive Maintenance and the MyView Portal dashboard. The DMSO package is designed to support a range of customer types from self-maintained to managed. To meet that need, package tiers have been created along a service continuum with three steps called Essential, Advanced and Premier.

The Essential package is a baseline starting point - designed for customers who want to limit their service investment to Device warranty support. Advanced is ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Premier is a managed service experience with a tailored 'concierge' approach to accept new tasks for completion and perform maintenance activities on the customer's behalf.

Benefits of Device Management Service

- Coverage for device maintenance & configuration
- Essential, Advanced, and Premier offers meeting customer needs from self-maintained to MSI-managed
- Better Management of Agency Costs
- The opportunity for an OPEX operating model to better meet agency budgets
- More robust radio inventory operations
- Remote hosting & MyView Portal provide radio inventory repository with attributes and radio status

Device Management Service Packages and Information

Device Management is offered as a subscription and pricing will be different for a Current Radio Management Customer who is Transitioning to DMS vs a New Customer. Pricing is per device per year unless otherwise noted

THE DMS Configurator is now available on Converge

[DMS Quote configurator](#)

Legacy Radio Management Licenses

As of January 2019, Legacy Radio Management (Cap Ex) licenses are no longer orderable for new Radio Management Customers, The Legacy Radio Management Catalog page references Licenses but these are only for add-ons for existing Radio Management Customers who are not transitioning to DMS and have invested beyond the 100 free trial licenses originally provided with DMS.

Please reference the APX Radio Management Page for add-on Radio Management Licenses.

[APX Radio Management](#)

Ordering Information

Advanced Package:

With this package the customer will have a “do it yourself with MSI support” approach will be employed for fulfilment. MSI will provide a subscription to the Radio Management Programming Tool and the customer will then self-maintain their codeplugs/fleetmaps (including any associated jobs) and contact the SSC for failure of the Programming Tool. In order to facilitate a stronger user experience, Motorola also offers three options which can be added to the Standard Base of the Advanced Package.

- Advanced is now a base STANDARD offer with three optional adders
- Pricing is offered in one-year increments (except Hardware Repair offered in 3yr)
- Note that pricing differs for Current RM and Non-RM Customers
- Option 1 is offered as a one-time charge per unit and it requires a 500-unit minimum order quantity
- Option 3 pricing is standard Hardware Repair Warranty in Lite or Comprehensive versions
- Option 3 is priced for a 3yr standard term where the rest of the offer is 1yr term
- No additional network consulting or radio template creation work is included with this offer

DMS-Advanced APX Portables or Mobiles: Current RM Customer

Description	Model	APC	List Price-One time charge	List Price Per Year Per Device
Base Model: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$10.00
OPTION 1: Includes Onsite Setup, 2-day Radio Commissioning and Training (500-unit minimum)	LSV01S01030A	700	\$40.00	
OPTION 2: Radio Management MSI Database				

Hosting and MyView Portal	LSV01S01033A	700		\$5.00
OPTION 3a: Hardware Repair (SFS Lite) - 3yr	See next sheet	700	\$110.00	
OPTION 3b: Hardware Repair (SFS Comprehensive) - 3yr	See next sheet	700	\$310.00	

DMS-Advanced APX Portables or Mobiles: New RM Customer

Description	Model	APC	List Price- One time charge	List Price Per Year Per Device
BASE MODEL: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$32.00
OPTION 1: Includes Onsite Setup, 2-day Radio Commissioning and Training (500-unit minimum)	LSV01S01030A	700	\$60.00	
OPTION 2: Radio Management NOC-based Database Hosting and MyView Portal	LSV01S01033A	700		\$13.00
OPTION 3a: Hardware Repair (SFS Lite) - 3yr	See next sheet	700	\$110.00	
OPTION 3b: Hardware Repair (SFS Comprehensive) - 3yr	See next sheet	700	\$310.00	

DMS-FAST TRACK Advanced APX Portables or Mobiles: New RM Customer

This package only applies to new RM customers and is only valid for customers who want the Base Model Package only ; Options 1 and 2 are incompatible.

It is a paid in full 5 year non serialized alternative. Non serialized means serial number collection is not required prior to obtaining licenses.

This package can be placed through COF or MOL and does not require the standard SAOF form.

- **5 year on prem RM licenses**
- **Does not support hosted RM service or on site set up and training options**
- **Invoiced upfront for the 5 years and a standard duration of 5 years.**
- **No serial number collection/no contract**
- **COF or MOL Order, Ordering done Outside NSS; no SAOF required**
- **Only available on Advanced DMS**

Note: Both Model Numbers below MUST be on the order

HKVN4691A WILL ALWAYS BE QUANTITY OF 1

HKVN4692A WILL BE QUANTITY OF DEVICES

Description	Model	APC	List Price- One time charge	List Price Per Year Per Device
5YR PREPAID DMS ADVANCE APX RM SUBSCRIPTION	HKVN4691A	700	\$0	
5YR PREPAID DMS ADVANCE APX RM LICENSE	HKVN4692A	700		\$160.00

Hardware for Advanced Packages:

Hardware for Advanced Packages are not part of the DMS offer. There is a list of hardware specifications in RM System Planner. Sales/CSM's can quote hardware listed and order via a standard drop ship order, or obtain specifications and work with the hardware vendor directly.

Premier Package:

With this package , a “concierge service” approach will be employed for fulfilment with the customer and their supporting partner shop. MSI will perform initial consultation with customer to understand the initial state of the customer’s current codeplugs and make a plan to read/write each radio into the Radio Management Tool. MSI will then perform commissioning of the radio management database, customer site deployment of remote radio programming equipment and provisioning/programming of entire radio fleet. Training will be made available to customers (or their service shop as proxy) in the amount of 3 class seats per each 500-unit DMS purchase. Motorola Data Center Operation will maintain existing customer codeplugs, accepting requests for adds/deletes/modifications to codeplugs/templates in the quantity of 12 tasks per year (with additional tasks available for purchase as required by customer).

- Premier is offered as a 3yr program, expandable to 5 or more
- Minimum order quantity for DMSO-Premier is 500 units
- No additional network consulting or initial radio template creation work is included with this offer

Included in the Base Model

- Radio Management Programming License per Radio
- Onsite Setup & Commissioning of Radios and On-Premise Hardware
- Technical Support for Radio Hardware & Software
- Essential Services (SFS) - Comprehensive 3yr
- Radio Management User Database Hosting at NOC
- Radio Management Training Course Seats (3 per every 500 subscriptions)

- On-Demand Radio Provisioning & Programming - 12 tasks/yr standard
- Annual Radio Preventive Maintenance - 25% of fleet/yr standard
- MyView Portal Dashboard

DMS-Premier APX Portables or Mobiles

Description	Model	APC	List Price- per device per month	List Price Per device Per year
BASE MODEL: Premier 3 yr See above for inclusions	MSV01S00843A	700	\$24.00	\$864.00

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JUMP TO ...[DEVICE MANAGEMENT SERVICE OFFER](#)[EXECUTIVE SUMMARY](#)[ADDITIONAL DOCUMENTATION](#)[SERVICE OFFER DESCRIPTION](#)[SERVICE OFFER PART NUMBERS, PRICING AND CONFIGURATION](#)

Device Management Service Offer

Executive Summary

The Device Management Service Offer (or DMSO) for North America Market and APX Radios is new to our Services category and available for sale in 2Q2017 via Direct Sale and MR Sale. It features Essential, Advanced and Premier packages of some of our most popular device service features plus some new and innovative ones that will help us reach the needs of more customers. Each of the packages is additive, meaning that Advanced includes everything from Essential and Premier includes everything from Advanced and Essential. DMSO may be sold with existing 4000-8000 series APX radios or in sale with new radios.

Additional Documentation

Additional information on the Device Management Service Offer may be found at www.motorolasolutions.com/sales, select Services and then Devices. Included at this site are a Sales Planning Guide, Product Description, FAQ, Price Configuration Matrix, Presentations and other materials to assist you in the learning and selling processes.

Service Offer Description

DMSO is available in a 3-year or 5-year term and can be sold via a monthly OpEx model or bulk CapEx model. Current Service-from-the-Start or Radio Management customers may join a DMSO package and will receive full remaining value for their previous investment (for more, please see the Current Customer Transition Plan section). Below you will find a descriptive diagram of Essential, Advanced and Premier offerings for DMSO, followed by a description of each:

Essential	Advanced	Premier
Extended Warranty Support (formally SFS-Lite or Comp)	Radio Mgt Software License per Radio	Radio Mgt Software License per Radio
Technical Support	Radio Mgt Training	Radio Mgt Training
	Radio Mgt User Database	Radio Mgt User Database

	Hosting	Hosting
	Technical Support	NOC Concierge Technical Support
	My View Portal (available 24x7)	Premier My View Portal (available 24x7)
	DMSO-Essential (formally SFS-Lite or Comp)	On-Demand Provisioning & Programming
		Preventive Maintenance per Radio
		DMSO-Essential (formally SFS-Comp)

DMSO Essential

This is the base offer, and rebrands the Service from the Start extended warranty program.

Simplicity is the goal here, introducing Essential as a direct transition without the addition of any other features. The remaining value of any current customer Service from the Start investments will be transferred directly into the Essential, Advanced or Premier packages they choose. Essential is recommended for existing Service from the Start customers as well as those who prefer to remain primarily self-maintained.

DMSO Advanced

This offer is one step up from Essential and recommended for customers who are currently self-maintained and prefer to remain so. The baseline of what's included in the Advanced package is everything from Essential, i.e. Hardware Extended Warranty Support. Additional features include Radio Management licenses and user training, Radio Management user database hosting, tech support and the advanced version of the MyView Portal. Advanced is primarily recommended for self-maintained customers or those who receive regular and significant support from a service partner. Once again, current customer investments in Service from the Start or Radio Management will be transferred directly into the Essential, Advanced or Premier packages they choose.

DMSO Premier

Premier is our highest tier Device Management offer, providing a 'concierge-like' experience for customers who wish to leave the management of their radio fleets to us. DMSO-Premier includes everything from Advanced plus an on-demand radio programming service, annual radio preventive maintenance, concierge-level tech support and a premier version of the MyView Portal. Premier Services are recommended for customers who want to have someone else take responsibility for the management of the radios in their inventory. Once again, current customer investments in Service from the Start or Radio Management will be transferred directly into the Essential, Advanced or Premier packages they choose.

Service Offer Part Numbers, Pricing and Configuration

DEVICE MANAGEMENT SERVICE OFFER PART NUMBERS & PRICING

Part numbers and Pricing for DMSO-Essential (formerly SfS) configurations can be found on the APX radio pages and are rebranded as DMSO-Essential. Parts and Pricing for Advanced and Premier versions can be found in the matrix below:

[DMSO Price Configurator v1.0.NA APX.042017](#)

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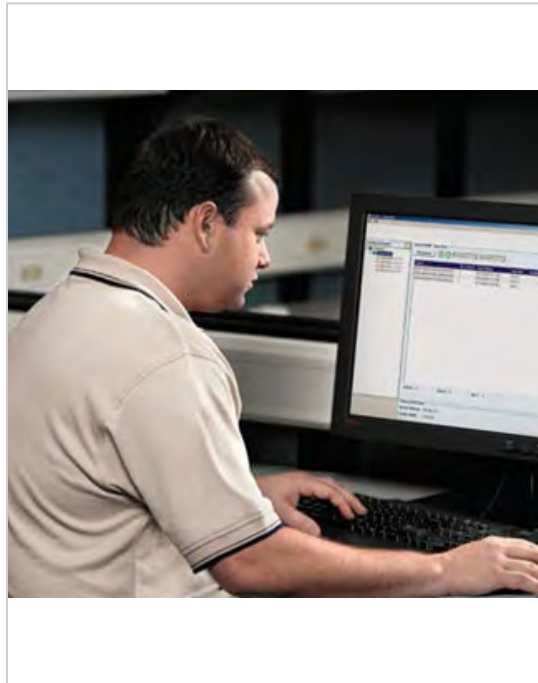
[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



Public Safety LTE Device Manager 'DM'

Ordering Information

General Information

Motorola's Public Safety LTE Device Manager is no longer available for new deployments. The ordering instructions below are applicable only to existing deployments.

For new LTE deployments requiring a Device Manager solution, the recommended solution is VMware's Workspace ONE (formerly branded as Airwatch). LTE Infrastructure will not productize the Workspace ONE solution; but product management can provide product information, cost structure, and recommended pricing. Regions will need to procure, deploy, and support new Device Manager solutions within the region. Please contact product management for more details at LTEWS1@motorolasolutions.com.

Detailed Ordering Information

If you already have a DMS and capacity expansion is needed, then order expansion packs under T8058A. Please ensure that the total UE licenses after expansion is limited to 100K.

CA03233AA: ADD: 1K to 5K CLIENT UPGRD

CA03234AA: ADD: 5K to 10K CLIENT UPGRD

CA03235AA: ADD: 10K to 25K CLIENT UPGRD

CA03236AA: ADD: 25K to 50K CLIENT UPGRD

CA03237AA: ADD: 50K to 100K CLIENT UPGRD

For example, if expansion is required from 1K to 10K UEs, then order both CA03233AA (first 5K) and CA03234AA (second 5K).

For expansions to an existing redundant node, order T8058A (Expansion Packs), THEN select the expansion client license tier(s):

CA03233AA: ADD: 1K TO 5K CLIENT EXPANSION

CA03234AA: ADD: 5K TO 10K CLIENT EXPANSION

CA03235AA: ADD: 10K TO 25K CLIENT EXPANSION

CA03236AA: ADD: 25K TO 50K CLIENT EXPANSION

CA03237AA: ADD: 50K TO 100K CLIENT EXPANSION

To UPGRADE to BSR 4.3, order CVN7263A. The upgrade kit includes the DM software (no licenses).

Configuration

Non-Redundant or Redundant Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD: 1K TO 5K CLIENT EXPANSION	-	CA03233AA	056	\$52,920.00
ADD: 5K TO 10K CLIENT EXPANSION	-	CA03234AA	056	\$47,460.00
ADD: 10K TO 25K CLIENT EXPANSION	-	CA03235AA	056	\$134,400.00
ADD : 25K TO 50K CLIENT EXPANSION	-	CA03236AA	056	\$158,340.00
ADD: 50K TO 100K CLIENT EXPANSION	-	CA03237AA	056	\$179,760.00
MSM-CLIENT LIC ADDS	-	T8058	056	\$0.00

Upgrade from MD Release 9 to 11:

Description	Full Description	Nomenclature	APC	Price
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SOFTWARE,OMA DM SERVER	-	CVN7263	877	\$0.00
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SPARES

OMA_DM Server FRE:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00

*** management capabilities for 3PV devices might be limited*

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	SCB	CVN7263	SOFTWARE,OMA DM SERVER	877	5
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTLPATH	SCB	DLN6976	FRE: DL380 G9 HC 600 GB DISK	877	23
FIXEDSTN	SCB	T8058	MSM-CLIENT LIC ADDS	056	10
FIXEDSTN	SCB	T8608B	OMA -DM PSLTE R9 TO PSLTER11.1 SW UP GRADE KIT	056	50

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Diameter Routing Agent (DRA)

Ordering Information

General Information and Features

The Diameter Routing Agent (DRA) is the key network component to secure and centralize Diameter communication with other roaming partners and to increase the operational efficiency and reliability of the internal Diameter signaling network. DRA is also needed in a geo-redundant core configuration for routing diameter traffic, in the event of a core element failure that has diameter interfaces.

RFC 6733 introduced Diameter agents to define distinguished roles, based on how the DRA should handle incoming messages. The four types of agents are relay agent, proxy agent, redirect agent and translation agent, although the DRA currently implements only relay agent and proxy agent.

DRA has three modes of operation, comprised in the same physical node: Diameter Agent (DA), Diameter Routing Agent, and Diameter Edge Agent. In general, DRA acts as a Diameter Agent (DA), routing messages between the clients and servers, where its peers are typically applications using the Diameter protocol or another DSC (Diameter Signaling Controller) in the path to the client or server. 3GPP has defined a new logical Diameter entity in the PCC (Policy and Charging Control) architecture. This is called Diameter Routing Agent (DRA). The LTE roaming guidelines (GSMA PRD IR.88) defines a logical Diameter entity called Diameter Edge Agent (DEA) to simplify the roaming interface.

The DRA provides the following functions:

Signaling aggregation through the Diameter Agent (DA)

- Remote peer connection
- Touring
- Network level load balancing
- Overload protection
- HSS Address resolution

LTE Roaming through the Diameter Edge Agent (DEA)

- Topology hiding
- Roaming relations
- Message screening



- Transit traffic management
- Diameter policing
- Diameter accounting and statistics



PCRF binding through the Diameter Routing Agent (DRA)

- Gx/Rx session binding
- PCRF selection
- Session verification

DSC capacity dimensioning will be determined by the following factors, but should be based on the call model of the specific customer:

- Number of interfaces that will connect to the DSC - S6a, Gx, Rx, Cx, Sh
- Number of subscribers for LTE/VoLTE
- Examples of EPS events for DSC dimensioning:
 - Total frequency of LTE attached per SAU/BH
 - Frequency of selective authentication
 - Frequency of Gx user reports per SAU/BH
 - Frequency of ULI reports per SAU/BH

For additional information, please see the product spec sheet at: http://compass.mot-solutions.com/doc/490040993/Product_SPEC_SHEET_DRA.pdf

Configuration

New System Ordering Guidelines

A new DRA system can be ordered as a package/bundle of both software and hardware. The DRA is licensed based upon the number of messages per second (MPS). MPS per system deployment can vary greatly, depending on system complexity and configuration. Before ordering the licenses below, please contact [GDSE and Product Management](#)

Please choose from one of the following options when ordering a new DRA system:

Description	Full Description	Nomenclature	APC	Price
DRA HW/SW 500 MPS	-	TT2795	054	\$160,550.00
DRA HW/SW 1K MPS	-	TT2796	054	\$177,540.00

DRA HW/SW 2.5K MPS	-	TT2797	054	\$228,500.00
DRA HW/SW 5K MPS	-	TT2798	054	\$312,670.00
DRA HW/SW 10K MPS	-	TT2799	054	\$476,930.00
DRA HW/SW 25K MPS	-	TT2800	054	\$932,110.00
DRA HW/SW 50K MPS	-	TT2801	054	\$1,564,770.00
DRA HW/SW 100K MPS	-	TT2802	054	\$2,862,600.00

Existing System Capacity Expansion Guidelines

When ordering a DRA user license capacity expansion for an existing system, please choose from one of the following options. Please note that capacity expansions can only occur as mentioned below. If the capacity expansion needs to span multiple steps, then all steps in between need to be accounted for. For example, if a capacity expansion is needed for 5K to 25K, then 5K to 10K and 10K to 25K needs to be accounted for.

Description	Full Description	Nomenclature	APC	Price
DRA HW/SW FROM 500 TO 1K	-	TT2803	054	\$27,200.00
DRA HW/SW FROM 1K TO 2.5K	-	TT2804	054	\$66,250.00
DRA HW/SW FROM 2.5K TO 5K	-	TT2805	054	\$103,530.00
DRA HW/SW FROM 5K TO 10K	-	TT2806	054	\$197,110.00
DRA HW/SW FROM 10K TO 15K	-	TT2807	054	\$197,110.00
DRA HW/SW FROM 15K TO 25K	-	TT2808	054	\$311,580.00
DRA HW/SW FROM 25K TO 35K	-	TT2809	054	\$311,580.00
DRA HW/SW FROM 35K TO 50K	-	TT2817	054	\$459,310.00
DRA HW/SW FROM 50K TO 75K	-	TT2818	054	\$713,820.00
DRA HW/SW FROM 75K TO 100K	-	TT2819	054	\$713,820.00

Spares

Description	Full Description	Nomenclature	APC	Price
PFM LOD	-	DDN1976	054	\$10,361.00
CMXB3 EGEM2	-	DDN1977	054	\$9,380.00
SCXB3	-	DDN1978	054	\$9,473.00
GEP5-48GB	-	DDN1979	054	\$14,588.00
GEP5-1200	-	DDN1980	054	\$27,771.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN1976	PFM LOD	054	80
QUOTEDS	ERS	DDN1977	CMXB3 EGEM2	054	80
QUOTEDS	ERS	DDN1978	SCXB3	054	80
QUOTEDS	ERS	DDN1979	GEP5-48GB	054	80
QUOTEDS	ERS	DDN1980	GEP5-1200	054	80
QUOTEDS	ERS	TT2795	DRA HW/SW 500 MPS	054	80
QUOTEDS	ERS	TT2796	DRA HW/SW 1K MPS	054	80
QUOTEDS	ERS	TT2798	DRA HW/SW 5K MPS	054	80
QUOTEDS	ERS	TT2799	DRA HW/SW 10K MPS	054	80

QUOTEDS	ERS	TT2800	DRA HW/SW 25K MPS	054	80
QUOTEDS	ERS	TT2801	DRA HW/SW 50K MPS	054	80
QUOTEDS	ERS	TT2802	DRA HW/SW 100K MPS	054	80
QUOTEDS	ERS	TT2803	DRA HW/SW FROM 500 TO 1K	054	80
QUOTEDS	ERS	TT2804	DRA HW/SW FROM 1K TO 2.5K	054	80
QUOTEDS	ERS	TT2805	DRA HW/SW FROM 2.5K TO 5K	054	80
QUOTEDS	ERS	TT2806	DRA HW/SW FROM 5K TO 10K	054	80
QUOTEDS	ERS	TT2807	DRA HW/SW FROM 10K TO 15K	054	80
QUOTEDS	ERS	TT2808	DRA HW/SW FROM 15K TO 25K	054	80
QUOTEDS	ERS	TT2809	DRA HW/SW FROM 25K TO 35K	054	80
QUOTEDS	ERS	TT2817	DRA HW/SW FROM 35K TO 50K	054	5
QUOTEDS	ERS	TT2818	DRA HW/SW FROM 50K TO 75K	054	5
QUOTEDS	ERS	TT2819	DRA HW/SW FROM 75K TO 100K	054	5

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



DIGITAL VEHICULAR REPEATER 700MHz

Ordering Information

General Information

[Functional Description](#) for APX mobile applications (Product Planner)

[Functional Description](#) for XTL mobile applications (Product Planner)

[DVR Ordering Guide](#)

[DVR Brochures](#)

[ASTRO DVR Wiki](#)

SUPPORT DOCUMENTATION

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective January 1st, 2020 FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW. This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPERED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT
1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)

1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)
1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT
1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

NEW DECEMBER 2, 2019:

Please note, orders cannot be on hold indefinitely on FUTURECOM SYSTEMS. If required information (supplemental form) is not received within 60 days of the PO receipt date, the PO will be cancelled from Futurecom's system.

Futurecom's production queue has reached capacity to ship orders in Q4 2019. All new orders will be scheduled with the best possible ship date in Q1 2020, based on material availability and production capacity at the time of an order. The standard delivery lead time for all Futurecom products (DVR, VRX1000, PDR8000, SLIM) is 10-12 weeks.

NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option (TT05715AA, TT05716AA or TT06279AA).

If XTL interface is required, this order code DQDVR2012 must be ordered.

If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.

The APX mobile platform is now fully certified for integration with the DVR. Please note the new ordering options required to distinguish APX from XTL applications.

When operating in system mode, the DVR utilizes a special interface between its host mobile in the following configurations:

XTL

- Remote Mount XTL 5000 with O3 or O5 control heads
- Remote Mount XTL 2500 with M5 control head
- If any ASTRO digital functionality will be used end-to-end, the mobiles will require the G806 option (ASTRO operation). This option is not required if operating in analog-only mode.

APX

- Remote Mount APX 6500 or APX 7500 with O2, O3, O5, O7, or O9 control heads
- Transportable configurations are not available for use with O9 control heads
- APX mobiles must be configured with the DVR MSU Activation option GA00631 when used as the host for the DVR.

General Ordering Information:

- One mobile Operation Mode options is required for all In-Band and Cross-Band DVR models (but not for Tactical DVRs which do not utilize a mobile)
- Subscriber units must be loaded with the most current version of software to enable all DVR features.
- APX Portable Radios operating through a DVR utilizing the enhanced DVR digital feature set, require subscriber option QA00631. No special option is required for XTS Portable Radios.
- The DVR programming software (called Tweaker) is compatible with Windows 2000, XP, and Windows 7. Vista has not been certified.
- Standard lead time for this product is approximately 10 weeks upon approved orders - See ordering requirements below.
- Vehicular Mount (Side-by-Side) units can be ordered with the DVR-to-Mobile cable from 3-25 ft in length. Please specify this value in the order entry process.
- Due to FCC regulations, Fixed Mount DVRs operating in the 806-809 / 851-854MHz range in the US and Canada require a mandatory High Stability Oscillator - item DQDVR1017. Fixed Mount DVRs operating from 809-816 / 854-861MHz do NOT require this extra option.
- High power VHF mobile radios - M20KTS9PW1 (XTL5000), M21KTM9PW1 (XTL2500), M25KTS9PW1 (APX6500), M30KTS9PW1 (APX7500) - are NOT compatible with Transportable or Fixed Mount DVR models.

For questions regarding appropriate DVR equipment lists or verifying frequency plans, you may contact Futurecom Systems Group directly at: sales@futurecom.com or 1-800-701-9180 (ask for DVR Sales Support)

The Ordering Guide link above gives a pictorial view of how the DVR needs to be isolated from the accompanying mobile. To prevent interference between the two devices, a certain amount of frequency separation is required. In-Band DVR orders require a manual validation step by the vendor to verify that the frequency plan can be accommodated by the standard DVR models listed below.

IMPORTANT NOTE: To ensure that the DVR solution will function properly once fielded, all DVR orders must be validated

prior to manufacturing. The form linked below is required to complete this step in the sales process for all DVR orders, AND is required before any In-Band DVR model is released from E3 hold. [DVR Supplemental Frequency Information Form](#)

IMPORTANT NOTE: FUTURECOM DOES NOT HOLD INVENTORY, THERE ARE LEAD TIMES FOR THE SPECIFIC ITEMS, IF A SUPPLEMENTAL FORM HAS NOT BEEN FILLED OUT WITH FREQS REQUIREMENTS, THIS WILL IMPACT DELIVERY OF ORDERS. FUTURECOM WILL DO THEIR BEST TO EXPEDITE, BUT IN SOME CASES THE DELIVERY IS BASED ON THEIR SUPPLIER'S ABILITY TO DELIVER, ESPECIALLY IF IT IS A CUSTOM FILTER ORDER. PLEASE BE AWARE THAT FILTER MANUFACTURING AND HAND TUNING IS A LABOUR INTENSIVE PROCESS THAT WILL NOT BEGIN UNTIL THE EXACT FREQS. ARE KNOWN.

NOTE: For Delivery outside of US/Canada, please contact Futurecom for delivery schedule prior to placing order.

Repair Process: The repair process is to initiate a case with Futurecom. Futurecom will then contact the technical support team within Futurecom. Futurecom will require the serial numbers of the units, and a detailed description of the problem(s) reported. It is best if technical support at Futurecom speaks with the customer directly to assist with troubleshooting. After diagnostics, they will advise if an RMA needs to be issued. If so, Futurecom will send the RMA number and return documents to the customer.

Please visit Futurecom's website for support contact information:

<https://www.futurecom.com/support/>

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
700MHZ DVR FIXED MOUNT TACTICAL APPLICATION B	- Indoor wall mounted case (AC power) - Outdoor enclosure option available - Standalone repeater (no mobile in use) - For Canadian use only	TT2061	571	\$11,028.00
700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION A	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2042	571	\$10,741.00
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range	TT2039	571	\$14,236.00
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION A	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequencies, and no 700 mobile frequencies in use	TT2038	571	\$14,248.00
700MHZ DVR TRANSPORTABLE IN-BAND APPLICATION A	- Suitcase mounted (DC or AC power) - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range, and no 700 mobile frequencies in use - Mobile not included	TT2046	571	\$16,829.00
700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION B	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2043	571	\$10,741.00
700MHZ DVR SUITCASE IN-BAND APPLICATION B	-	TT2047	571	\$13,463.00
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	-	TT2040	571	\$13,389.00
700MHZ DVR SUITCASE IN-BAND APPLICATION C	-	TT2048	571	\$16,829.00
700MHZ DVR SUITCASE CROSS-BAND APPLICATION A	-	TT2050	571	\$10,677.00
700MHZ DVR SUITCASE CROSS-BAND APPLICATION B	-	TT2051	571	\$10,667.00
700MHZ DVR VEHICLE MOUNT TACTICAL APPLICATION A	-	TT2044	571	\$10,124.00

Options

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00

Mounting

Description	Full Description	Nomenclature	APC	Price
FIXED MOUNT OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
ALT: OPTIONAL SILVER TRANSPORTABLE	-	TT06072AA	571	\$415.00
ALT: OPTIONAL DESERT TAN TRANSPORTA	-	TT06073AA	571	\$415.00
ADD: STANDARD 220VAC POWER SUPPLY F	-	TT06076AA	571	\$0.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
ADD: STANDARD BLACK TRANSPORTABLE D	-	TT06070AA	571	\$0.00
ALT: OPTIONAL YELLOW TRANSPORTABLE	-	TT06071AA	571	\$519.00
ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
ADD: STANDARD 120VAC POWER SUPPLY F	-	TT06075AA	571	\$0.00
ADD: STANDARD ORANGE TRANSPORTABLE	-	TT06069AA	571	\$0.00

ON SITE TRAINING

Description	Full Description	Nomenclature	APC	Price
ON-SITE TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
	Maximum 1 day. see EXTENDED support for additional			

ON-SITE TRAINING (BASIC)	days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
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Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00

Battery Pack

Description	Full Description	Nomenclature	APC	Price
BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	454	\$272.00
DVR OPTIONS CABLE	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE	Spare	DDN9032	571	\$203.00
SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00

Kits

Description	Full Description	Nomenclature	APC	Price
DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	-	DDN1715	571	\$500.00
DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	-	DDN1716	571	\$600.00
MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	-	DDN1577	571	\$578.00

Programming

Description	Full Description	Nomenclature	APC	Price
DVR PROGRAMMING CABLE	-	DDN9025	571	\$202.00
DVR PROGRAMMING SOFTWARE FOR APX DVRS	-	DDN1576	571	\$385.00

DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.	DQDVR2012	571	\$986.00
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WARRANTY & SERVICES

Description	Full Description	Nomenclature	APC	Price
DVR IN-BAND 4 YEAR EXTENDED WARRANT	-	DDN2087	571	\$958.00
29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	-	DDN2086	571	\$170.00
DVR CROSS BAND 4 YEAR EXTENDED WARR	-	DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANT	-	DDN2088	571	\$340.00
INFRASTRUCTURE EQUIPMENT,DVRS CONVE	-	DDN1958	571	\$645.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27

QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
QUOTEDS	FUT	TT2038	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION A	571	84
QUOTEDS	FUT	TT2039	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2040	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT2042	700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2043	700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2044	700MHZ DVR VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2046	700MHZ DVR TRANSPORTABLE IN-BAND APPLICATION A	571	84
QUOTEDS	FUT	TT2047	700MHZ DVR SUITCASE IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2048	700MHZ DVR SUITCASE IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT2050	700MHZ DVR SUITCASE CROSS-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2051	700MHZ DVR SUITCASE CROSS-BAND APPLICATION B	571	80
QUOTEDS	FUT	TT2061	700MHZ DVR FIXED MOUNT TACTICAL APPLICATION B	571	80
QUOTEDS	FUT	TT2923	700 MHZ TACTICAL SUITCASE DVR WITH	571	80

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4

QUOTEDS	FUT	TT2038	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION A	571	84
QUOTEDS	FUT	TT2039	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2040	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT2042	700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2043	700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2044	700MHZ DVR VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2046	700MHZ DVR TRANSPORTABLE IN-BAND APPLICATION A	571	84
QUOTEDS	FUT	TT2047	700MHZ DVR SUITCASE IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT2048	700MHZ DVR SUITCASE IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT2050	700MHZ DVR SUITCASE CROSS-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2051	700MHZ DVR SUITCASE CROSS-BAND APPLICATION B	571	80
QUOTEDS	FUT	TT2061	700MHZ DVR FIXED MOUNT TACTICAL APPLICATION B	571	80
QUOTEDS	FUT	TT2923	700 MHZ TACTICAL SUITCASE DVR WITH	571	80

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



DIGITAL VEHICULAR REPEATER 800MHz



Ordering Information

General Information

[Functional Description](#) for APX mobile applications (Product Planner)

[Functional Description](#) for XTL mobile applications (Product Planner)

[DVR Ordering Guide](#)

[DVR Brochures](#)

[ASTRO DVR Wiki](#)

SUPPORT DOCUMENTATION

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective January 1st, 2020 FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW. This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPERED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT
1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)

1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)
1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT
1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

NEW DECEMBER 2, 2019:

Please note, orders cannot be on hold indefinitely on FUTURECOM SYSTEMS. If required information (supplemental form) is not received within 60 days of the PO receipt date, the PO will be cancelled from Futurecom's system.

Futurecom's production queue has reached capacity to ship orders in Q4 2019. All new orders will be scheduled with the best possible ship date in Q1 2020, based on material availability and production capacity at the time of an order. The standard delivery lead time for all Futurecom products (DVR, VRX1000, PDR8000, SLIM) is 10-12 weeks.

NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option (TT05715AA, TT05716AA or TT06279AA).

If XTL interface is required, this order code DQDVR2012 must be ordered.

If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.

The APX mobile platform is now fully certified for integration with the DVR. Please note the new ordering options required to distinguish APX from XTL applications.

When operating in system mode, the DVR utilizes a special interface between its host mobile in the following configurations:

XTL

- Remote Mount XTL 5000 with O3 or O5 control heads
- Remote Mount XTL 2500 with M5 control head
- If any ASTRO digital functionality will be used end-to-end, the mobiles will require the G806 option (ASTRO operation). This option is not required if operating in analog-only mode.

APX

- Remote Mount APX 6500 or APX 7500 with O2, O3, O5, O7, or O9 control heads
- Transportable configurations are not available for use with O9 control heads
- APX mobiles must be configured with the DVR MSU Activation option GA00631 when used as the host for the DVR.

General Ordering Information:

- One mobile Operation Mode options is required for all In-Band and Cross-Band DVR models (but not for Tactical DVRs which do not utilize a mobile)
- Subscriber units must be loaded with the most current version of software to enable all DVR features.
- APX Portable Radios operating through a DVR utilizing the enhanced DVR digital feature set, require subscriber option QA00631. No special option is required for XTS Portable Radios.
- The DVR programming software (called Tweaker) is compatible with Windows 2000, XP, and Windows 7. Vista has not been certified.
- Standard lead time for this product is approximately 10 weeks upon approved orders - See ordering requirements below.
- Vehicular Mount (Side-by-Side) units can be ordered with the DVR-to-Mobile cable from 3-25 ft in length. Please specify this value in the order entry process.
- Due to FCC regulations, Fixed Mount DVRs operating in the 806-809 / 851-854MHz range in the US and Canada require a mandatory High Stability Oscillator - item DQDVR1017. Fixed Mount DVRs operating from 809-816 / 854-861MHz do NOT require this extra option.
- High power VHF mobile radios - M20KTS9PW1 (XTL5000), M21KTM9PW1 (XTL2500), M25KTS9PW1 (APX6500), M30KTS9PW1 (APX7500) - are NOT compatible with Transportable or Fixed Mount DVR models.

For questions regarding appropriate DVR equipment lists or verifying frequency plans, you may contact Futurecom Systems Group directly at: sales@futurecom.com or 1-800-701-9180 (ask for DVR Sales Support)

The Ordering Guide link above gives a pictorial view of how the DVR needs to be isolated from the accompanying mobile. To prevent interference between the two devices, a certain amount of frequency separation is required. In-Band DVR orders require a manual validation step by the vendor to verify that the frequency plan can be accommodated by the standard DVR models listed below.

IMPORTANT NOTE: To ensure that the DVR solution will function properly once fielded, all DVR orders must be validated prior to manufacturing. The form linked below is required to complete this step in the sales process for all DVR orders, AND is required before any In-Band DVR model is released from E3 hold. [DVR Supplemental Frequency Information Form](#)

IMPORTANT NOTE: FUTURECOM DOES NOT HOLD INVENTORY, THERE ARE LEAD TIMES FOR THE SPECIFIC ITEMS, IF A SUPPLEMENTAL FORM HAS NOT BEEN FILLED OUT WITH FREQS REQUIREMENTS, THIS WILL IMPACT DELIVERY OF ORDERS. FUTURECOM WILL DO THEIR BEST TO EXPEDITE, BUT IN SOME CASES THE DELIVERY IS BASED ON THEIR SUPPLIER'S ABILITY TO DELIVER, ESPECIALLY IF IT IS A CUSTOM FILTER ORDER. PLEASE BE AWARE THAT FILTER MANUFACTURING AND HAND TUNING IS A LABOUR INTENSIVE PROCESS THAT WILL NOT BEGIN UNTIL THE EXACT FREQS. ARE KNOWN.

NOTE: For Delivery outside of US/Canada, please contact Futurecom for delivery schedule prior to placing order.

Repair Process: The repair process is to initiate a case with Futurecom. Futurecom will then contact the technical support team within Futurecom. Futurecom will require the serial numbers of the units, and a detailed description of the problem(s) reported. It is best if technical support at Futurecom speaks with the customer directly to assist with troubleshooting. After diagnostics, they will advise if an RMA needs to be issued. If so, Futurecom will send the RMA number and return documents to the customer.

Please visit Futurecom's website for support contact information:

<https://www.futurecom.com/support/>

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz above the mobile frequencies, and no 700 mobile frequencies in use	TT1259	571	\$14,235.00
800 MHZ DVR VEHICLE MOUNT APPLICATION E	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the 800 mobile frequencies, and 10MHz above the 700 mobile frequencies in use	TT1261	571	\$14,235.00
800 MHZ DVR SUITCASE IN-BAND APPLICATION C	- Suitcase mounted (DC or AC power) - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz above the mobile frequencies, and no 700 mobile frequencies in use - Mobile not included	TT1266	571	\$16,829.00
800 MHZ DVR SUITCASE IN-BAND APPLICATION D	- Suitcase mounted (DC or AC power) - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequencies, and no 700 mobile frequencies in use - Mobile not included	TT1267	571	\$16,829.00
800MHZ DVRS SUITCASE IN BAND APPL. A	-	TT1264	571	\$15,846.00
800 MHZ DVR CABINET IN BAND APPLICATION A	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1300	571	\$16,291.00
800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	-	TT1256	571	\$13,254.00
800 MHZ DVR SUITCASE IN-BAND APPLICATION B	-	TT1265	571	\$16,829.00
	NOTE: Due to FCC and IC regulations,			

800 MHZ DVR CABINET IN BAND APPLICATION B	Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1301	571	\$13,033.00
800 MHZ DVR CABINET IN BAND APPLICATION C	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1302	571	\$17,274.00
800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION D	-	TT1260	571	\$11,388.00
800 MHZ DVR CABINET IN BAND APPLICATION D	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1303	571	\$13,819.00
800 MHZ DVR SUITCASE IN-BAND APPLICATION E	-	TT1268	571	\$16,829.00
800 MHZ DVR CABINET IN BAND APPLICATION E	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1304	571	\$13,819.00
800 MHZ DVR VEHICLE MOUNT CROSS BAND APPLICATION A	-	TT1262	571	\$8,592.00
800 MHZ DVR SUITCASE CROSS BAND APPLICATION A	-	TT1269	571	\$13,334.00
800 MHZ DVR CABINET CROSS BAND APPLICATION A	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1305	571	\$13,779.00
800MHZ DVR VEHICLE MOUNT STANDALONE APPLICATION A	-	TT1263	571	\$10,124.00
800MHZ DVR CABINET STANDALONE APPLICATION A	NOTE: Due to FCC and IC regulations, Cabinet Mount DVRS operating in the ranges specified below in the US and Canada respectively, requires a mandatory High Stability Oscillator Item DQDVR1017 that provides 1.0 ppm frequency stability. 806 – 809 MHz & 851 – 854 MHz in the US 806 – 824 MHz & 851 – 869 MHz in Canada	TT1306	571	\$13,779.00
800MHZ DVRS VEHICLE MOUNT IN BAND APPL. A	Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 5MHz above the mobile frequencies, and no 700 mobile frequencies in use	TT1255	571	\$14,236.00

Options

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00

TRAINING & INSTALLATION SUPPORT

Description	Full Description	Nomenclature	APC	Price
ADD: VRX1000 Y - CONTROL CABLE / AUX	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00

OPTIONS & SPARES

Description	Full Description	Nomenclature	APC	Price
FIXED MOUNT OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: STANDARD ORANGE TRANSPORTABLE	-	TT06069AA	571	\$0.00
ADD: STANDARD BLACK TRANSPORTABLE D	-	TT06070AA	571	\$0.00
ALT: OPTIONAL YELLOW TRANSPORTABLE	-	TT06071AA	571	\$519.00
ALT: OPTIONAL SILVER TRANSPORTABLE	-	TT06072AA	571	\$415.00
ALT: OPTIONAL DESERT TAN TRANSPORTA	-	TT06073AA	571	\$415.00
ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
ADD: STANDARD 120VAC POWER SUPPLY F	-	TT06075AA	571	\$0.00
ADD: STANDARD 220VAC POWER SUPPLY F	-	TT06076AA	571	\$0.00
OPTIONAL BACKPACK SLING COYOTE COLO	This new DDN part number will replace TT06144AA	DDN2885	571	\$1,714.00
OPTIONAL BACKPACK SLING MULTI CAM C	This new DDN part number will replace TT06145AA	DDN2886	571	\$1,714.00

ON-SITE TRAINING

Description	Full Description	Nomenclature	APC	Price
	Maximum 1 day. see EXTENDED support for additional			

ON-SITE TRAINING (BASIC)	days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00

Antenna

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00

Battery Pack

Description	Full Description	Nomenclature	APC	Price
BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR OPTIONS CABLE	Spare	DDN9031	571	\$203.00
DVR RF SWITCH CABLE	Spare	DDN9032	571	\$203.00
SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	454	\$272.00
SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00

Kits

Description	Full Description	Nomenclature	APC	Price
MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	-	DDN1577	571	\$578.00
DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	-	DDN1715	571	\$500.00
DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	-	DDN1716	571	\$600.00

TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	This is a package that includes all the same material found in individual items DDN9024, DDN9025, and DDN9026.	DDN9010	571	\$578.00
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Programming

Description	Full Description	Nomenclature	APC	Price
DVR PROGRAMMING SOFTWARE FOR APX DVRS	-	DDN1576	571	\$385.00
DVR PROGRAMMING CABLE	-	DDN9025	571	\$202.00
DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.	DQDVR2012	571	\$986.00

WARRANTY & SERVICES

Description	Full Description	Nomenclature	APC	Price
DVR CROSS BAND 4 YEAR EXTENDED WARR	-	DDN2085	571	\$605.00
29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	-	DDN2086	571	\$170.00
DVR IN-BAND 4 YEAR EXTENDED WARRANT	-	DDN2087	571	\$958.00
DVR IN-BAND 1 YEAR EXTENDED WARRANT	-	DDN2088	571	\$340.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80

QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2885	OPTIONAL BACKPACK SLING COYOTE COLO	571	30
QUOTEDS	FUT	DDN2886	OPTIONAL BACKPACK SLING MULTI CAM C	571	30
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
QUOTEDS	FUT	TT1255	800MHZ DVRS VEHICLE MOUNT IN BAND APPL. A	571	84
QUOTEDS	FUT	TT1256	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1259	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1260	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1261	800 MHZ DVR VEHICLE MOUNT APPLICATION E	571	80
QUOTEDS	FUT	TT1262	800 MHZ DVR VEHICLE MOUNT CROSS BAND APPLICATION A	571	84
QUOTEDS	FUT	TT1263	800MHZ DVR VEHICLE MOUNT STANDALONE APPLICATION A	571	80
QUOTEDS	FUT	TT1264	800MHZ DVRS SUITCASE IN BAND APPL. A	571	80
QUOTEDS	FUT	TT1265	800 MHZ DVR SUITCASE IN-BAND APPLICATION B	571	80

QUOTEDS	FUT	TT1266	800 MHZ DVR SUITCASE IN-BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1267	800 MHZ DVR SUITCASE IN-BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1268	800 MHZ DVR SUITCASE IN-BAND APPLICATION E	571	80
QUOTEDS	FUT	TT1269	800 MHZ DVR SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1300	800 MHZ DVR CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1301	800 MHZ DVR CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1302	800 MHZ DVR CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1303	800 MHZ DVR CABINET IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1304	800 MHZ DVR CABINET IN BAND APPLICATION E	571	80
QUOTEDS	FUT	TT1305	800 MHZ DVR CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1306	800MHZ DVR CABINET STANDALONE APPLICATION A	571	80
QUOTEDS	FUT	TT2924	800 MHZ TACTICAL SUITCASE DVR WITH	571	80

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
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QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2885	OPTIONAL BACKPACK SLING COYOTE COLO	571	30
QUOTEDS	FUT	DDN2886	OPTIONAL BACKPACK SLING MULTI CAM C	571	30
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
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QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
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QUOTEDS	FUT	TT1255	800MHZ DVRS VEHICLE MOUNT IN BAND APPL. A	571	84
QUOTEDS	FUT	TT1256	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1259	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1260	800 MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1261	800 MHZ DVR VEHICLE MOUNT APPLICATION E	571	80
QUOTEDS	FUT	TT1262	800 MHZ DVR VEHICLE MOUNT CROSS BAND APPLICATION A	571	84
QUOTEDS	FUT	TT1263	800MHZ DVR VEHICLE MOUNT STANDALONE APPLICATION A	571	80
QUOTEDS	FUT	TT1264	800MHZ DVRS SUITCASE IN BAND APPL. A	571	80
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QUOTEDS	FUT	TT1266	800 MHZ DVR SUITCASEIN-BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1267	800 MHZ DVR SUITCASE IN-BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1268	800 MHZ DVR SUITCASE IN-BAND APPLICATION E	571	80
QUOTEDS	FUT	TT1269	800 MHZ DVR SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1300	800 MHZ DVR CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1301	800 MHZ DVR CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1302	800 MHZ DVR CABINET IN BAND APPLICATION C	571	80

QUOTEDS	FUT	TT1303	800 MHZ DVR CABINET IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1304	800 MHZ DVR CABINET IN BAND APPLICATION E	571	80
QUOTEDS	FUT	TT1305	800 MHZ DVR CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1306	800MHZ DVR CABINET STANDALONE APPLICATION A	571	80
QUOTEDS	FUT	TT2924	800 MHZ TACTICAL SUITCASE DVR WITH	571	80

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



DIGITAL VEHICULAR REPEATER UHF



Ordering Information

[Functional Description](#) for APX mobile applications (Product Planner)

[Functional Description](#) for XTL mobile applications (Product Planner)

[DVR Ordering Guide](#)

[DVR Brochures](#)

[ASTRO DVR Wiki](#)

[SUPPORT DOCUMENTATION](#)

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective January 1st, 2020 **FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW.** This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPERED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT
1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)
1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)

1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT
1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

NEW DECEMBER 2, 2019:

Please note, orders cannot be on hold indefinitely on FUTURECOM SYSTEMS. If required information (supplemental form) is not received within 60 days of the PO receipt date, the PO will be cancelled from Futurecom's system.

Futurecom's production queue has reached capacity to ship orders in Q4 2019. All new orders will be scheduled with the best possible ship date in Q1 2020, based on material availability and production capacity at the time of an order. The standard delivery lead time for all Futurecom products (DVR, VRX1000, PDR8000, SLIM) is 10-12 weeks.

NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option (TT05715AA, TT05716AA or TT06279AA).

If XTL interface is required, this order code DQDVR2012 must be ordered.

If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.

The APX mobile platform is now fully certified for integration with the DVR. Please note the new ordering options required to distinguish APX from XTL applications.

When operating in system mode, the DVR utilizes a special interface between its host mobile in the following configurations:

XTL

- Remote Mount XTL 5000 with O3 or O5 control heads
- Remote Mount XTL 2500 with M5 control head
- If any ASTRO digital functionality will be used end-to-end, the mobiles will require the G806 option (ASTRO operation). This option is not required if operating in analog-only mode.

APX

- Remote Mount APX 6500 or APX 7500 with O2, O3, O5, O7, or O9 control heads
- Transportable configurations are not available for use with O9 control heads
- APX mobiles must be configured with the DVR MSU Activation option GA00631 when used as the host for the DVR.

General Ordering Information:

- One mobile Operation Mode options is required for all In-Band and Cross-Band DVR models (but not for Tactical DVRs which do not utilize a mobile)
- Subscriber units must be loaded with the most current version of software to enable all DVR features.
- APX Portable Radios operating through a DVR utilizing the enhanced DVR digital feature set, require subscriber option QA00631. No special option is required for XTS Portable Radios.
- The DVR programming software (called Tweaker) is compatible with Windows 2000, XP, and Windows 7. Vista has not been certified.
- Standard lead time for this product is approximately 10 weeks upon approved orders - See ordering requirements below.
- Vehicular Mount (Side-by-Side) units can be ordered with the DVR-to-Mobile cable from 3-25 ft in length. Please specify this value in the order entry process.
- Due to FCC regulations, Fixed Mount DVRs operating in the 806-809 / 851-854MHz range in the US and Canada require a mandatory High Stability Oscillator - item DQDVR1017. Fixed Mount DVRs operating from 809-816 / 854-861MHz do NOT require this extra option.
- High power VHF mobile radios - M20KTS9PW1 (XTL5000), M21KTM9PW1 (XTL2500), M25KTS9PW1 (APX6500), M30KTS9PW1 (APX7500) - are NOT compatible with Transportable or Fixed Mount DVR models.

For questions regarding appropriate DVR equipment lists or verifying frequency plans, you may contact Futurecom Systems Group directly at: sales@futurecom.com or 1-800-701-9180 (ask for DVR Sales Support)

The Ordering Guide link above gives a pictorial view of how the DVR needs to be isolated from the accompanying mobile. To prevent interference between the two devices, a certain amount of frequency separation is required. In-Band DVR orders require a manual validation step by the vendor to verify that the frequency plan can be accommodated by the standard DVR models listed below.

IMPORTANT NOTE: To ensure that the DVR solution will function properly once fielded, all DVR orders must be validated prior to manufacturing. The form linked below is required to complete this step in the sales process for all DVR orders,

AND is required before any In-Band DVR model is released from E3 hold. [DVR Supplemental Frequency Information Form](#)

IMPORTANT NOTE: FUTURECOM DOES NOT HOLD INVENTORY, THERE ARE LEAD TIMES FOR THE SPECIFIC ITEMS, IF A SUPPLEMENTAL FORM HAS NOT BEEN FILLED OUT WITH FREQS REQUIREMENTS, THIS WILL IMPACT DELIVERY OF ORDERS. FUTURECOM WILL DO THEIR BEST TO EXPEDITE, BUT IN SOME CASES THE DELIVERY IS BASED ON THEIR SUPPLIER'S ABILITY TO DELIVER, ESPECIALLY IF IT IS A CUSTOM FILTER ORDER. PLEASE BE AWARE THAT FILTER MANUFACTURING AND HAND TUNING IS A LABOUR INTENSIVE PROCESS THAT WILL NOT BEGIN UNTIL THE EXACT FREQS. ARE KNOWN.

NOTE: For Delivery outside of US/Canada, please contact Futurecom for delivery schedule prior to placing order.

Repair Process: The repair process is to initiate a case with Futurecom. Futurecom will then contact the technical support team within Futurecom. Futurecom will require the serial numbers of the units, and a detailed description of the problem(s) reported. It is best if technical support at Futurecom speaks with the customer directly to assist with troubleshooting. After diagnostics, they will advise if an RMA needs to be issued. If so, Futurecom will send the RMA number and return documents to the customer.

Please visit Futurecom's website for support contact information:

<https://www.futurecom.com/support/>

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION C	-	TT1328	571	\$15,404.00
UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION B	-	TT1329	571	\$15,404.00
UHF 380-430 P DVR TRANSPORTABLE IN BAND APPLICATION B	-	TT1333	571	\$17,221.00
UHF 450-470 DVR VEHICLE MOUNT STANDALONE APPLICATION A	-	TT1346	571	\$9,433.00
UHF 450-470 DVR TRANSPORTABLE IN BAND APPLICATION B	-	TT1348	571	\$17,999.00
UHF 450-470 DVR FIXED MOUNT CROSS BAND APPLICATION A	-	TT1354	571	\$13,181.00
UHF 380-430 DVR VEHICLE MOUNT CROSS BAND APPLICATION A	-	TT2002	571	\$11,016.00
UHF 380-430 DVR SUITCASE CROSS BAND APPLICATION A	-	TT2006	571	\$10,887.00
UHF 380-430 DVR VEHICLE MOUNT CROSS BAND APPLICATION A	-	TT2010	571	\$11,243.00
DVR VEHICLE MOUNT CROSS BAND APPLICATION B	-	TT1330	571	\$10,144.00
UHF 380-430 DVR SUITCASE CROSS BAND APPLICATION B	-	TT1334	571	\$12,737.00
UHF 380-430 DVR CABINET CROSS BAND APPLICATION B	-	TT1339	571	\$13,181.00
UHF 380-430 DVR VEHICLE MOUNT STANDALONE APPLICATION B	-	TT1331	571	\$9,433.00
UHF 380-430 DVR CABINET STANDALONE APPLICATION B	-	TT1340	571	\$13,181.00
UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION A	-	TT2000	571	\$14,749.00
UHF 380-430 DVR SUITCASE IN BAND APPLICATION A	-	TT2004	571	\$21,027.00
UHF 380-430 DVR CABINET IN BAND APPLICATION A	-	TT2008	571	\$21,474.00
UHF 380-430 DVR VEHICLE MOUNT IN BAND APPLICATION B	-	TT2001	571	\$18,436.00
UHF 380-430 DVR SUITCASE IN BAND APPLICATION B	-	TT2005	571	\$21,027.00

UHF 380-430 DVR CABINET IN BAND APPLICATION B	-	TT2009	571	\$21,474.00
UHF 380-430 DVR SUITCASE IN-BAND APPLICATION C	-	TT1332	571	\$17,998.00
UHF 380-430 DVR CABINET IN BAND APPLICATION C	-	TT1337	571	\$18,443.00
UHF 380-430 DVR CABINET STAND ALONE APPLICATION A	-	TT2011	571	\$14,054.00
UHF 450-470 VEHICLE MOUNT IN BAND APPLICATION A	-	TT1343	571	\$15,404.00
UHF 450-470 DVR SUITCASE IN BAND APPLICATION A	-	TT1347	571	\$17,221.00
UHF 450-470 DVR CABINET IN BAND APPLICATION A	-	TT1352	571	\$18,443.00
UHF 450-470 DVR VEHICLE MOUNT IN BAND APPLICATION B	-	TT1344	571	\$15,404.00
UHF 450-470 DVR CABINET IN BAND APPLICATION B	-	TT1353	571	\$18,443.00
ADD: REMOTE MOUNT APX 8500 WITH ANY CONTROL HEAD, ALL BAND	-	TT06279AA	571	\$0.00
UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00
UHF 450-470 DVR TRANSPORTABLE CROSS BAND APPLCATN A	-	TT1349	571	\$10,189.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00

Programming, Training Support

Description	Full Description	Nomenclature	APC	Price
ADD: VRX1000 Y - CONTROL CABLE / AUX	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00

Mounting

Description	Full Description	Nomenclature	APC	Price
FIXED MOUNT OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
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ADD: STANDARD ORANGE TRANSPORTABLE	-	TT06069AA	571	\$0.00
ADD: STANDARD BLACK TRANSPORTABLE D	-	TT06070AA	571	\$0.00
ALT: OPTIONAL YELLOW TRANSPORTABLE	-	TT06071AA	571	\$519.00
ALT: OPTIONAL SILVER TRANSPORTABLE	-	TT06072AA	571	\$415.00
ALT: OPTIONAL DESERT TAN TRANSPORTA	-	TT06073AA	571	\$415.00
ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
ADD: STANDARD 120VAC POWER SUPPLY F	-	TT06075AA	571	\$0.00
ADD: STANDARD 220VAC POWER SUPPLY F	-	TT06076AA	571	\$0.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00

TRAINING PACKAGES

Description	Full Description	Nomenclature	APC	Price
ON-SITE TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00

Antenna

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN UHF ANTENNA TRANS	-	DDN9015	571	\$286.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	Roof Mount, Mini UHF connector, Power: 150 Watts Max., Gain: Unity, VSWR: Less than 2:1, Impedance: 50 Ohms, nominal	HAE4003	554	\$21.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	585	\$23.00
UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00

Battery Pack

Description	Full Description	Nomenclature	APC	Price
BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR OPTIONS CABLE	Spare	DDN9031	571	\$203.00
DVR RF SWITCH CABLE	Spare	DDN9032	571	\$203.00
SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	454	\$272.00
SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00

OPTIONS & SPARES

Description	Full Description	Nomenclature	APC	Price
DVR PROGRAMMING SOFTWARE FOR APX DVRS	-	DDN1576	571	\$385.00
DVR PROGRAMMING CABLE	-	DDN9025	571	\$202.00
DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.	DQDVR2012	571	\$986.00

WARRANTY & SERVICES

Description	Full Description	Nomenclature	APC	Price
DVR CROSS BAND 4 YEAR EXTENDED WARR	-	DDN2085	571	\$605.00
29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	-	DDN2086	571	\$170.00
DVR IN-BAND 4 YEAR EXTENDED WARRANT	-	DDN2087	571	\$958.00
DVR IN-BAND 1 YEAR EXTENDED WARRANT	-	DDN2088	571	\$340.00

Data Not Available

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9015	UNITY GAIN UHF ANTENNA TRANS	571	80
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3

PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3
PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3
PARTS	CDP	HAE6012	ANTENNA 1/4 WAVE WHIP 380-433 MHZ	585	3
QUOTEDS	FUT	TT1328	UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1329	UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1330	DVR VEHICLE MOUNT CROSS BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1331	UHF 380-430 DVR VEHICLE MOUNT STANDALONE APPLICATION B	571	80
QUOTEDS	FUT	TT1332	UHF 380-430 DVR SUITCASE IN-BAND APPLICATION C	571	84
QUOTEDS	FUT	TT1333	UHF 380-430 P DVR TRANSPORTABLE IN BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1334	UHF 380-430 DVR SUITCASE CROSS BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1337	UHF 380-430 DVR CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1339	UHF 380-430 DVR CABINET CROSS BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1340	UHF 380-430 DVR CABINET STANDALONE APPLICATION B	571	80
QUOTEDS	FUT	TT1343	UHF 450-470 VEHICLE MOUNT IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1344	UHF 450-470 DVR VEHICLE MOUNT IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1346	UHF 450-470 DVR VEHICLE MOUNT STANDALONE APPLICATION A	571	80
QUOTEDS	FUT	TT1347	UHF 450-470 DVR SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1348	UHF 450-470 DVR TRANSPORTABLE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1349	UHF 450-470 DVR TRANSPORTABLE CROSS BAND APPLCATN A	571	80
QUOTEDS	FUT	TT1352	UHF 450-470 DVR CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1353	UHF 450-470 DVR CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1354	UHF 450-470 DVR FIXED MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2000	UHF 380-430 DVR SIDE BY SIDE IN BAND APPLICATION A	571	84
QUOTEDS	FUT	TT2001	UHF 380-430 DVR VEHICLE MOUNT IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT2002	UHF 380-430 DVR VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2004	UHF 380-430 DVR SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2005	UHF 380-430 DVR SUITCASE IN BAND APPLICATION B	571	80

QUOTEDS	FUT	TT2006	UHF 380-430 DVR SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2008	UHF 380-430 DVR CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2009	UHF 380-430 DVR CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT2010	UHF 380-430 DVR VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT2011	UHF 380-430 DVR CABINET STAND ALONE APPLICATION A	571	80
QUOTEDS	FUT	TT2920	UHF 380-430 MHZ, 10 MHZ TX TO RX SE	571	80
QUOTEDS	FUT	TT2921	UHF 380-430 MHZ, 5 MHZ TX TO RX SEP	571	80
QUOTEDS	FUT	TT2922	UHF 450-470 MHZ, 5 MHZ TX TO RX SEP	571	80

Kits

Description	Full Description	Nomenclature	APC	Price
MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	-	DDN1577	571	\$578.00
DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	-	DDN1715	571	\$500.00
DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	-	DDN1716	571	\$600.00
TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	This is a package that includes all the same material found in individual items DDN9024, DDN9025, and DDN9026.	DDN9010	571	\$578.00
DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.	DQDVR2012	571	\$986.00

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



DIGITAL VEHICULAR REPEATER VHF



Ordering Information

General Information

[Functional Description](#) for APX mobile applications (Product Planner)

[Functional Description](#) for XTL mobile applications (Product Planner)

[DVR Ordering Guide](#)

[DVR Brochures](#)

[ASTRO DVR Wiki](#)

SUPPORT DOCUMENTATION

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective January 1st, 2020 FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW. This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPERED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT
1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)

1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)
1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT
1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

NEW DECEMBER 2, 2019:

Please note, orders cannot be on hold indefinitely on FUTURECOM SYSTEMS. If required information (supplemental form) is not received within 60 days of the PO receipt date, the PO will be cancelled from Futurecom's system.

Futurecom's production queue has reached capacity to ship orders in Q4 2019. All new orders will be scheduled with the best possible ship date in Q1 2020, based on material availability and production capacity at the time of an order. The standard delivery lead time for all Futurecom products (DVR, VRX1000, PDR8000, SLIM) is 10-12 weeks.

NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.

The APX mobile platform is now fully certified for integration with the DVR. Please note the new ordering options required to distinguish APX from XTL applications.

When operating in system mode, the DVR utilizes a special interface between its host mobile in the following configurations:

XTL

- Remote Mount XTL 5000 with O3 or O5 control heads
- Remote Mount XTL 2500 with M5 control head
- If any ASTRO digital functionality will be used end-to-end, the mobiles will require the G806 option (ASTRO operation). This option is not required if operating in analog-only mode.

APX

- Remote Mount APX 6500 or APX 7500 with O2, O3, O5, O7, or O9 control heads
- Transportable configurations are not available for use with O9 control heads
- APX mobiles must be configured with the DVR MSU Activation option GA00631 when used as the host for the DVR.

General Ordering Information:

- One mobile Operation Mode options is required for all In-Band and Cross-Band DVR models (but not for Tactical DVRs which do not utilize a mobile)
- Subscriber units must be loaded with the most current version of software to enable all DVR features.
- APX Portable Radios operating through a DVR utilizing the enhanced DVR digital feature set, require subscriber option QA00631. No special option is required for XTS Portable Radios.
- The DVR programming software (called Tweaker) is compatible with Windows 2000, XP, and Windows 7. Vista has not been certified.
- Standard lead time for this product is approximately 10 weeks upon approved orders - See ordering requirements below.
- Vehicular Mount (Side-by-Side) units can be ordered with the DVR-to-Mobile cable from 3-25 ft in length. Please specify this value in the order entry process.
- Due to FCC regulations, Fixed Mount DVRs operating in the 806-809 / 851-854MHz range in the US and Canada require a mandatory High Stability Oscillator - item DQDVR1017. Fixed Mount DVRs operating from 809-816 / 854-861MHz do NOT require this extra option.
- High power VHF mobile radios - M20KTS9PW1 (XTL5000), M21KTM9PW1 (XTL2500), M25KTS9PW1 (APX6500), M30KTS9PW1 (APX7500) - are NOT compatible with Transportable or Fixed Mount DVR models.

For questions regarding appropriate DVR equipment lists or verifying frequency plans, you may contact Futurecom Systems Group directly at: sales@futurecom.com or 1-800-701-9180 (ask for DVR Sales Support)

The Ordering Guide link above gives a pictorial view of how the DVR needs to be isolated from the accompanying mobile. To prevent interference between the two devices, a certain amount of frequency separation is required. In-Band DVR orders require a manual validation step by the vendor to verify that the frequency plan can be accommodated by the standard DVR models listed below.

IMPORTANT NOTE: To ensure that the DVR solution will function properly once fielded, all DVR orders must be validated prior to manufacturing. The form linked below is required to complete this step in the sales process for all DVR orders, AND is required before any In-Band DVR model is released from E3 hold. [DVR Supplemental Frequency Information](#)

Form

IMPORTANT NOTE: FUTURECOM DOES NOT HOLD INVENTORY, THERE ARE LEAD TIMES FOR THE SPECIFIC ITEMS, IF A SUPPLEMENTAL FORM HAS NOT BEEN FILLED OUT WITH FREQS REQUIREMENTS, THIS WILL IMPACT DELIVERY OF ORDERS. FUTURECOM WILL DO THEIR BEST TO EXPEDITE, BUT IN SOME CASES THE DELIVERY IS BASED ON THEIR SUPPLIER'S ABILITY TO DELIVER, ESPECIALLY IF IT IS A CUSTOM FILTER ORDER. PLEASE BE AWARE THAT FILTER MANUFACTURING AND HAND TUNING IS A LABOUR INTENSIVE PROCESS THAT WILL NOT BEGIN UNTIL THE EXACT FREQS. ARE KNOWN.

NOTE: For Delivery outside of US/Canada, please contact Futurecom for delivery schedule prior to placing order.

Repair Process: The repair process is to initiate a case with Futurecom. Futurecom will then contact the technical support team within Futurecom. Futurecom will require the serial numbers of the units, and a detailed description of the problem(s) reported. It is best if technical support at Futurecom speaks with the customer directly to assist with troubleshooting. After diagnostics, they will advise if an RMA needs to be issued. If so, Futurecom will send the RMA number and return documents to the customer.

Please visit Futurecom's website for support contact information:

<https://www.futurecom.com/support/>

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	-	TT1236	571	\$15,074.00
DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	-	TT1237	571	\$15,074.00
DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	-	TT1238	571	\$15,074.00
DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	-	TT1240	571	\$9,809.00
DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	-	TT1241	571	\$9,098.00
DVR VHF SUITCASE IN BAND APPLICATION A	-	TT1242	571	\$17,663.00
DVR VHF SUITCASE IN BAND APPLICATION B	-	TT1243	571	\$17,663.00
DVR VHF SUITCASE CROSS BAND APPLICATION A	-	TT1246	571	\$12,403.00
DVR VHF CABINET IN BAND APPLICATION B	-	TT1250	571	\$18,108.00
VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	-	TT2768	571	\$15,074.00
VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	-	TT2769	571	\$15,074.00
VHF TACTICAL SUITCASE DVR WITH LITH	-	TT2919	571	\$9,922.00
DVR VHF CABINET IN BAND APPLICATION C	-	TT1251	571	\$18,108.00
DVR VHF CABINET IN BAND APPLICATION A	-	TT1249	571	\$18,108.00
DVR VHF SUITCASE IN BAND APPLICATION C	-	TT1244	571	\$17,663.00
VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	-	DQDVC3065	571	\$18,548.00
DVR VHF CABINET CROSS BAND APPLICATION A	-	TT1253	571	\$12,847.00
DVR VHF CABINET TACTICAL APPLICATION A	-	TT1254	571	\$12,848.00

OPTIONS

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00

ON-SITE TRAINING

Description	Full Description	Nomenclature	APC	Price
ADD: VRX1000 Y - CONTROL CABLE / AUX	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00

Mounting

Description	Full Description	Nomenclature	APC	Price
FIXED MOUNT OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: STANDARD ORANGE TRANSPORTABLE	-	TT06069AA	571	\$0.00
ADD: STANDARD BLACK TRANSPORTABLE D	-	TT06070AA	571	\$0.00
ALT: OPTIONAL YELLOW TRANSPORTABLE	-	TT06071AA	571	\$519.00
ALT: OPTIONAL SILVER TRANSPORTABLE	-	TT06072AA	571	\$415.00
ALT: OPTIONAL DESERT TAN TRANSPORTA	-	TT06073AA	571	\$415.00
ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
ADD: STANDARD 120VAC POWER SUPPLY F	-	TT06075AA	571	\$0.00
ADD: STANDARD 220VAC POWER SUPPLY F	-	TT06076AA	571	\$0.00
ENH: STANDARD SMALLER TRANSPORTABLE	-	TT06142AA	571	\$0.00
ENH: STANDARD SMALLER TRANSPORTABLE	-	TT06143AA	571	\$0.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can now be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can now be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00

TRAINING

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Description	Full Description	Nomenclature	APC	Price
ON-SITE TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00

Antenna

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	-	DDN9014	571	\$286.00
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4006	554	\$19.50
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4007	554	\$19.50
ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4008	554	\$19.50
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4009	554	\$19.50

Battery Pack

Description	Full Description	Nomenclature	APC	Price
BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00

DVR OPTIONS CABLE	Spare	DDN9031	571	\$203.00
DVR RF SWITCH CABLE	Spare	DDN9032	571	\$203.00
SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	454	\$272.00
SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00

Kits

Description	Full Description	Nomenclature	APC	Price
MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	-	DDN1577	571	\$578.00
DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	-	DDN1715	571	\$500.00
DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	-	DDN1716	571	\$600.00
TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	This is a package that includes all the same material found in individual items DDN9024, DDN9025, and DDN9026.	DDN9010	571	\$578.00

Programming

Description	Full Description	Nomenclature	APC	Price
DVR PROGRAMMING SOFTWARE FOR APX DVRS	-	DDN1576	571	\$385.00
DVR PROGRAMMING CABLE	-	DDN9025	571	\$202.00
DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	NEW May 29, 2019: All new DVRS orders must be purchased with an APX interface option: (TT05715AA, TT05716AA or TT06279AA). If XTL interface is required, this order code DQDVR2012 must be ordered. If a unit has been downgraded from APX to XTL, and the Customer would like to revert back to APX, they will need purchase DDN1715A.	DQDVR2012	571	\$986.00

WARRANTY & SERVICES

Description	Full Description	Nomenclature	APC	Price
DVR CROSS BAND 4 YEAR EXTENDED WARR	-	DDN2085	571	\$605.00
29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	-	DDN2086	571	\$170.00
DVR IN-BAND 4 YEAR EXTENDED WARRANT	-	DDN2087	571	\$958.00
DVR IN-BAND 1 YEAR EXTENDED WARRANT	-	DDN2088	571	\$340.00

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVC3065	VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	571	84
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3

PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
QUOTEDS	FUT	TT1236	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1237	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1238	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1240	DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1241	DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT1242	DVR VHF SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1243	DVR VHF SUITCASE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1244	DVR VHF SUITCASE IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1246	DVR VHF SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1249	DVR VHF CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1250	DVR VHF CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1251	DVR VHF CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1252	DVR VHF FIXED MOUNT IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1253	DVR VHF CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1254	DVR VHF CABINET TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2768	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	571	80
QUOTEDS	FUT	TT2769	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (571	80
QUOTEDS	FUT	TT2919	VHF TACTICAL SUITCASE DVR WITH LITH	571	80

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Product Type	FC	Nomenclature	Description	APC	Lead Time

QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVC3065	VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	571	84
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4

PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
QUOTEDS	FUT	TT1236	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1237	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1238	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1240	DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1241	DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT1242	DVR VHF SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1243	DVR VHF SUITCASE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1244	DVR VHF SUITCASE IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1246	DVR VHF SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1249	DVR VHF CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1250	DVR VHF CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1251	DVR VHF CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1252	DVR VHF FIXED MOUNT IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1253	DVR VHF CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1254	DVR VHF CABINET TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2768	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	571	80
QUOTEDS	FUT	TT2769	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (571	80
QUOTEDS	FUT	TT2919	VHF TACTICAL SUITCASE DVR WITH LITH	571	80

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7

QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVC3065	VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	571	84
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25

PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
QUOTEDS	FUT	TT1236	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1237	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1238	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1240	DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1241	DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT1242	DVR VHF SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1243	DVR VHF SUITCASE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1244	DVR VHF SUITCASE IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1246	DVR VHF SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1249	DVR VHF CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1250	DVR VHF CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1251	DVR VHF CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1252	DVR VHF FIXED MOUNT IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1253	DVR VHF CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1254	DVR VHF CABINET TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2768	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (571	80
QUOTEDS	FUT	TT2769	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (571	80
QUOTEDS	FUT	TT2919	VHF TACTICAL SUITCASE DVR WITH LITH	571	80

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
			DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR		

QUOTEDS	FUT	DDN1716	TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764- 869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVC3065	VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	571	84
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5

PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
QUOTEDS	FUT	TT1236	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1237	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1238	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1240	DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1241	DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT1242	DVR VHF SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1243	DVR VHF SUITCASE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1244	DVR VHF SUITCASE IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1246	DVR VHF SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1249	DVR VHF CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1250	DVR VHF CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1251	DVR VHF CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1252	DVR VHF FIXED MOUNT IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1253	DVR VHF CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1254	DVR VHF CABINET TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2768	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	571	80
QUOTEDS	FUT	TT2769	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (571	80
QUOTEDS	FUT	TT2919	VHF TACTICAL SUITCASE DVR WITH LITH	571	80

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1576	DVR PROGRAMMING SOFTWARE FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1577	MAINTENANCE MANUAL PROGRAMMING SOFTWARE & CABLE KIT FOR APX DVRS	571	7
QUOTEDS	FUT	DDN1715	DVR XTL TO APX CONVERSION KIT FOR VEHICULAR MOUNTED UNITS	571	14
QUOTEDS	FUT	DDN1716	DVR XTL TO SINGLE BAND APX CONVERSION KIT FOR TRANSPORTABLE UNITS	571	30
QUOTEDS	FUT	DDN1958	INFRASTRUCTURE EQUIPMENT,DVRS CONVE	571	14

QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2085	DVR CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2086	29-AUG-2018DVR CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2087	DVR IN-BAND 4 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2088	DVR IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN9010	TACTICAL MAINT MANUAL PROGRAM SOFTWARE & CABLE KIT	571	27
QUOTEDS	FUT	DDN9011	BATTERY BACK UP FOR TRANSPORTABLE DVR MODELS	571	42
QUOTEDS	FUT	DDN9012	UPGRADE OPTION-DVR TO XTL Y CONTROL CABLE (3FT TO 25FT)	571	11
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	DDN9025	DVR PROGRAMMING CABLE	571	75
QUOTEDS	FUT	DDN9028	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	571	14
QUOTEDS	FUT	DDN9030	DVR POWER CABLE	571	148
QUOTEDS	FUT	DDN9031	DVR OPTIONS CABLE	571	10
QUOTEDS	FUT	DDN9032	DVR RF SWITCH CABLE	571	41
QUOTEDS	FUT	DDN9524	SPARE EXTERNAL DC CABLE FOR TRANSPORTABLE DVR	454	30
QUOTEDS	FUT	DDN9525	SPARE EXTERNAL AC CABLE FOR TRANSPORTABLE DVR	571	30
QUOTEDS	FUT	DQDVC3065	VHF IN-BAND FIXED MOUNT DVRS, 2 MHZ	571	84
QUOTEDS	FUT	DQDVR2012	DVRS CONVERSION SOFTWARE FROM APX TO XTL MOBILE RADIOS FOR SBS VEHICUL	571	3
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5

PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
QUOTEDS	FUT	TT1236	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1237	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION B	571	84
QUOTEDS	FUT	TT1238	DVR VHF VEHICLE MOUNT IN-BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1240	DVR VHF VEHICLE MOUNT CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1241	DVR VHF VEHICLE MOUNT TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT1242	DVR VHF SUITCASE IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1243	DVR VHF SUITCASE IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1244	DVR VHF SUITCASE IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1246	DVR VHF SUITCASE CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1249	DVR VHF CABINET IN BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1250	DVR VHF CABINET IN BAND APPLICATION B	571	80
QUOTEDS	FUT	TT1251	DVR VHF CABINET IN BAND APPLICATION C	571	80
QUOTEDS	FUT	TT1252	DVR VHF FIXED MOUNT IN BAND APPLICATION D	571	80
QUOTEDS	FUT	TT1253	DVR VHF CABINET CROSS BAND APPLICATION A	571	80
QUOTEDS	FUT	TT1254	DVR VHF CABINET TACTICAL APPLICATION A	571	80
QUOTEDS	FUT	TT2768	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	571	80
QUOTEDS	FUT	TT2769	VHF IN-BAND SIMPLEX SBS DVR, 2MHZ (	571	80
QUOTEDS	FUT	TT2919	VHF TACTICAL SUITCASE DVR WITH LITH	571	80

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Dispatch Service

Ordering Information

General Information

With Motorola Dispatch Service, all a customer has to do is make one phone call and their system response and restoration process begins immediately. Dispatch ensures that local, trained and qualified technicians will arrive at their location within hours to diagnose and restore their communications network. Following proven response and restoration processes, Motorola Dispatch contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response and restore times. Once the issue has been addressed, the System Support Center verifies resolution and with the customer's approval, closes the case. Activity records are also available to provide a comprehensive history of site performance, issues, and resolution.

Features

- Escalation Management
- 24 Hour/365 Day Service Availability
- Single Point of Contact
- Toll Free Service Number (800) 221-7144
- Activity Reporting
- Computer Aided Dispatch
- Electronic Case Tracking

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

Dispatch and OnSite Infrastructure Response Service SOW can be found on the following page:

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. Dispatch Service requires the purchase of one of the OnSite Infrastructure Response options (Regular, Limited, Premier).
7. Dispatch Service is required if purchasing Network Monitoring Service and customer is Motorola maintained. See below.

	Network Monitoring Service	Technical Support	Dispatch Service	Customer Technician Dispatch	OnSite Infrastructure Response
Motorola Maintained	Required	Not Required	Required	N/A	Required
Customer Maintained (COAM)	Required	Suggested	N/A	Required	N/A

8. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service

Configuration

Description	Nomenclature	APC	Price
Dispatch Service	SVC01SVC1102C	0006	
ASTRO25 K-Core	K1 Master Site		\$971.30
	K2 Master Site		\$971.30

	Prime Site		\$971.30
	Remote Site		\$194.70
	Dispatch Site		\$364.10
ASTRO25 L-Core	L1 Master Site		\$2,427.70
	L2 Master Site		\$2,427.70
	Prime Site		\$1,214.40
	Remote Site		\$194.70
	Dispatch Site		\$364.10
ASTRO25 M-Core	M1 Master Site		\$7,283.10
	M2 Master Site		\$7,283.10
	M3 Master Site (First Zone)		\$7,280.90
	M3 Master Site (Add'l Zones)		\$7,280.90
	DSR Site		\$2,379.30
	Prime Site		\$2,986.50
	Remote Site		\$194.70
	Dispatch Site		\$364.10

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JUMP TO ...

[GENERAL INFORMATION](#)

[SHIP CARD](#)

General Information

Distributors

Motorola utilizes distributors to fill gaps in the drop ship portfolio when there is no direct relationship with the supplier.

Benefits of Utilizing a Distributor

- Enables Motorola to offer a variety of products from a wide supplier base
- Added technical and engineering support
- Ability to efficiently respond to emergency product requirements
- Multiple locations around the country allow for quick delivery
- Distributors Have the Logistics in Place to Pick, Pack and Ship the Volume of Orders Individual End Users Could Generate

Preferred Distributors

[Black Box](#)

[Graybar](#)

[SHI](#)

[Tessco](#)


How to obtain a quote

1. If you know the distributor's part number, use the [Part Number Lookup Tool](#) to verify if the item is already setup and available
2. If the part is not setup, provide the product planner with the supplier and vendor part number
3. The product planner will obtain a quote from the distributor
4. The product planner will get the costs approved by procurement
5. Once approved, the product planner will provide a Motorola List Price
6. If you want to purchase, the planner will setup the Motorola part number to order

Please refer to the [SIO Drop Ship Contact List](#) for product planner contact information.

Ship Card

Data Not Available



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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

SOFTWARE-BASED, DUAL INSTANT RECALL RECORDER

Ordering Information

General Information

PLEASE NOTE: The Standard Support Period for the 7.11 Release ended on June 30, 2017. Any software and hardware expansions on this release will no longer be supported after this date.

Click [here](#) for additional information.

The Dual Instant Recall Recorder (IRR) software (CD format) allows users to record two channels, radio, telephone, radio **and** telephone conversations, digitally on a personal computer (the software can also be configured to operate as a single channel IRR). The system uses an individual PC where the recording files are stored on the PC's hard drive. The Instant Recall Recorder keeps a database of all recordings, which allows for convenient "point and click" search and playback of any recordings. Once the software is installed on your PC, the functions are controlled through a Graphical User Interface (GUI) icon.

In addition, the Instant Retrieval Recorder has numerous special features; such as the ability to attach text documents to recordings, a security system, multiple playback (which allows the user to playback more than one recording at the same time), and real time audio monitor (which allows the user to listen to the last ten minutes of a recording in progress without being required to stop recording to be able to listen).

The Instant Retrieval window allows the user to immediately access the recordings. The Instant Retrieval window initially opens on the newest recordings, but allows access to any recordings on the system. The recording can also be saved to the .WAV file that the user specifies. This is useful if the user wants to save a specific recording to a CD or hard disk.

The product ships standard with a USB version HASP Key.

Configuration

Ordering Requirements

Ordering Instructions:

1. Motorola does not guarantee compatibility or performance of this software if it is not run on a Motorola certified PC.
2. To operate in the dual mode, a customer must have 2 **different** sound cards. When used on a workstation, one additional sound card is required as the on-board sound card is also used. On servers used as an "Op" position, two sound cards are required. DDN1895 is not compatible with the Z440 workstation - order DDN2134.
When using a Z2 Mini, you must order DSICUSBAUDIO7D.
3. Only ONE (1) Software-Based Dual Instant Recall Recorder can be ordered per workstation.
4. One Operation/Installation manual softcopy is included with each Instant Recall Recorder CD ordered.
5. Can **not** have more than TWO (2) Channels **per** workstation. (One Software-Based, Dual Instant Recall Recorder per PC).
6. **Important:** The HASP protection key is very expensive to replace. Ensure that the customer is aware and that they take care not to misplace it.
7. If IRR is being used on Z400 workstations (or any workstation where only PCI-E card slots are available), then the PCI-E card is required.
8. IRR -48 version is for use with Windows 10 (A7.17 release) - see below for specific MIP 5000 / MCC 5500 release compatibility.

Upgrades:

1. If the customer upgrades their system and requires a **newer version of IRR software**, this can be obtained from Vito Giuliano in UOST. The free upgrade is only available if the IRR has been purchased within the last 12 months. If the IRR software was purchased more than one year ago then the appropriate upgrade (DDN7994, DDN9655, DDN1243, etc.) must be ordered.

Instant Recall Recorder For Use On MIP 5000 Release 4.3 or later, MCC 5500 Release (TBD) or later, MCC 7500 A7.17 or later systems.

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If	DDN2722	229	\$2,648.00

	Dual IRR functionality is required a sound card should be ordered.			
DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, USB sound card, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2723	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 4.0, MCC 5500 Release 2.07, Elite / MCC 7500 A7.14 to A7.16 systems.

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (V47)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card	DDN2089	229	\$2,648.00

	should be ordered.			
DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V47)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2090	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 3.0, MCC 5500 Release 2.06, Elite / MCC 7500 A7.11 to A7.13 systems.

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (VERSION 45)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN1245	229	\$2,648.00

<p>DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V45)</p>	<p>Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.</p>	<p>DDN1244</p>	<p>229</p>	<p>\$2,935.00</p>
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Software Upgrade:

Description	Full Description	Nomenclature	APC	Price
<p>IRR SOFTWARE UPGRADE TO V51</p>	<p>Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.17 or later. This is also the current supported version for MIP 5000 Release 4.3 and MCC5500 Release. Purchase one of these for each PC running IRR that needs to be upgraded.</p>	<p>DDN2724</p>	<p>229</p>	<p>\$667.00</p>
<p>IRR SOFTWARE UPGRADE TO V47</p>	<p>-</p>	<p>DDN2091</p>	<p>229</p>	<p>\$667.00</p>
	<p>Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and</p>			

IRR SOFTWARE UPGRADE TO V -45	needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.11 - 7.13. This is also the current supported version for MIP 5000 Release 3.0 and MCC5500 Release 2.06 or later. Purchase one of these for each PC running IRR that needs to be upgraded.	DDN1243	229	\$667.00
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Individual Items:

Description	Full Description	Nomenclature	APC	Price
TELEPHONE ADAPTER	Used with most telephone styles, provides a simple means of connecting your Computer Sound Card so that it can monitor both sides of all conversations that take place on the handset or headset of your telephone. Automatically starts recorder when handset is lifted.	DDN6489	229	\$242.00
CABLE FOR TELEPHONE ADAPTER	Cable - RJ-11 to 1/8 in. mini plug. Allows connection from the Telephone Adapter to the PC.	DDN6490	229	\$85.00
HOOK SWITCH CABLE FOR MIDI PORT	Used to send a signal that triggers the Instant Recall Recorder software to start recording when off hook condition is detected. The MIDI cable is used to link your computer to your radio equipment, through the MIDI port (Joystick) of your Sound Blaster Sound Card.	DDN6491	229	\$92.00

HOOK SWITCH CABLE FOR COM PORT	Used to send a signal that triggers the IRR software to start recording when off hook condition is detected. The COM port cable is used to link your computer to your radio equipment, through one of the COM port located on every PC.	DDN6492	229	\$87.00
SOUND BLASTER AUDIGY FX PCIE SOUND CARD-NOT COMPAT WITH Z2 MINI	For use with Z440 and Z420 PC's.	DDN2134	229	\$67.00
6FT STEREO AUDIO PATCH CABLE 3.5MM	-	DDN7279	229	\$33.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75
INSTANT RECALL RECORDER CABLE FOR MCC 7500	Cable for use with GPIOM/VPM using a RJ45 with a 3.5mm connector, 6 feet long.	DDN9649	229	\$95.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	CMI	DDN1243	IRR SOFTWARE UPGRADE TO V -45	229	15

QUOTEDS	CMI	DDN1244	DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V45)	229	15
QUOTEDS	CMI	DDN1245	DUAL IRR SW USB HASP WITH LICENSE (VERSION 45)	229	15
QUOTEDS	CMI	DDN2089	DUAL IRR SW USB HASP WITH LICENSE (V47)	229	15
QUOTEDS	CMI	DDN2090	DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V47)	229	15
QUOTEDS	CMI	DDN2091	IRR SOFTWARE UPGRADE TO V47	229	40
QUOTEDS	PCW	DDN2134	SOUND BLASTER AUDIGY FX PCIE SOUND CARD-NOT COMPAT WITH Z2 MINI	229	40
QUOTEDS	CMI	DDN2249	DUAL IRR SW USB HASP WITH LICENSE (V48)	229	40
QUOTEDS	CMI	DDN2250	DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V48)	229	15
QUOTEDS	CMI	DDN2251	IRR SOFTWARE UPGRADE TO V48	229	15
QUOTEDS	CMI	DDN2722	DUAL IRR SW USB HASP WITH LICENSE (V51)	229	40
QUOTEDS	CMI	DDN2723	DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V51)	229	40
QUOTEDS	CMI	DDN2724	IRR SOFTWARE UPGRADE TO V51	229	40
QUOTEDS	CMI	DDN6489	TELEPHONE ADAPTER	229	15
QUOTEDS	CMI	DDN6490	CABLE FOR TELEPHONE ADAPTER	229	15
QUOTEDS	CMI	DDN6491	HOOK SWITCH CABLE FOR MIDI PORT	229	15
QUOTEDS	CMI	DDN6492	HOOK SWITCH CABLE FOR COM PORT	229	15

QUOTEDS	CMI	DDN7279	6FT STEREO AUDIO PATCH CABLE 3.5MM	229	15
QUOTEDS	CMI	DDN9649	INSTANT RECALL RECORDER CABLE FOR MCC 7500	229	15

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital APX 4000™ Portable Series

700/800 MHz Band

P25 Phase 2 Single Band Capable Radio

Updates

Announcements:

Please Note: Effective January 16th, all quotes should include at minimum the 3 year Service from the Start Lite option.

Factory Mutual (FM) Certification will no longer be offered as of January 1, 2016.

MSI announced the cancellation of the FM approved battery options for the APX 4000 subscribers. Radios approved to the FM3610_88 standard can only be manufactured through the end of December 2015. This is an industry-wide mandate that affects all radio manufacturers.

The APX4000 FM battery options QA00582AF and QA00582AD are no longer available.

When ordering APX4000 with UL battery, make sure you choose the 2 knob option QA04865 and the UL battery Option QA00582AJ. Refer to the HAZLOC section down below for more details.

One Knob Configuration will no longer be offered as of July 1, 2016.

Effective February 2015, APX 4000 now ships standard with Radio Packet Data (Q/W947), Mission Critical Bluetooth (QA00583), and Software Key (QA01749).

Starting Q1 SER 2015, CPS will be available to purchase as either a Download-Only 3-Year Subscription (HKVN4289A, \$299) or DVD/Download 3-Year Subscription (RVN5224, \$399-One Subscription Per Customer Account). Order details below in CPS Information Section

Effective May 02, 2016, for user guides, manuals and other product information, please visit motorolasolutions.com and search for this product using the name or manual number. **To add a manual, please order H88.**

Effective February 22nd, 2016, the APX 4000 will ship standard with GPS Activation (QA00782). GPS requires Q947 (IV&D which already comes standard as well) to operate.

Effective February 22nd, 2016, APX 4000 Radio Sales Model Price will increase by \$150.

Ordering Information

[Ordering Guide](#)

Features

All ASTRO Digital APX 4000 models include the following features:

- Dual Microphone
- 0.5 Watt Rated Audio
- Integrated GPS Hardware Capable*
- Integrated Bluetooth Hardware Capable*
- 2" Belt Clip
- Lilon 1900 mAh Battery (NNTN8128)
- Antenna (Dependent on Frequency Band and Type)
- IP67 ships standard with every radio model
- 3 Programmable Side Buttons
- Orange Programmable Button
- Continuous rotary multifunction knob
- Low Battery Alert Tone
- Noise Cancellation Software
- Intelligent Lighting

ASTRO Digital APX 4000 Limited Keypad and Full Keypad also includes:

- Unified Call List
- Front Color Display: 2 lines of text, 2 lines of icon
- Radio Profiles
- Full Keypad: 4 x 3 alpha-numeric 3 programmable button, 4 way navigation, home and data buttons

*** Must purchase Software to ENABLE.**

All ASTRO Digital APX 4000 Portables are part of the FLASHport® program and ship

standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the current RF capabilities of the radio)

New RFID enabled volume knobs (QA04526) available for portable radios. See RFID Enabled Volume Knob section below for more information. See RFID Solution Partner link below for information on partners that can provide customers with scanner hardware and back end asset management solutions.

******NOTE: APX Portable and Mobile Radios ship standard with the Software Key (QA01749). The Hardware Key (QA01648) is available as an alternative option to purchase. The System ID is required to be entered as supplemental data when ordering the Hardware Key (QA01648). It is CRITICAL that the CORRECT SYSTEM ID is entered when placing the order as this will impact the radios' ability to operate on the intended system. If an incorrect System ID is entered, a FLASHport upgrade will be required in order to fix this error. The Master Key Start-Up Kit (DVN4046) is required to use the Hardware Key (QA01648) or to operate on a third-party trunking system if the customer does not already possess one, or if theirs has expired. Please [CLICK HERE](#) for further details regarding the DVN4046 Kit. Pavithra**

<http://ecat.comm.mot.com/ecat/pricebooks/dup/ASK.htm>

General Information

The ASTRO Digital APX 4000 Portable Line offers TWO different radio hardware models:

Hardware Model	Modes	Alphanumeric Display Lines/Characters	Keypad	Navigation Pad
ASTRO APX 4000 Limited Keypad	512	14 (front)	-	Yes
ASTRO APX 4000 Full Keypad	512	14 (front)	4 x 3	Yes

Operating Modes

ASTRO Digital APX 4000 Radio Models are capable of operating in four different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6 KB ASTRO 25 Digital (both Clear and Coded voice)
- 9.6KB 12.5kHz 2 slot digital TDMA (both clear and coded voice)

TDMA

FDMA (Frequency Division Multiple Access) is a proven technology that is widely used today in radio systems and is part of APCO 25 Project 25 Phase 1 standard. FDMA carries one call per channel. TDMA (Time Division Multiple Access) will be part of P25 Phase 2 standard and provides double the voice capacity as 2 calls can share 1 channel. Customers can add

more users to their systems without the need of additional frequencies or infrastructure. The APX radios support both P25 Phase 1 and TDMA technologies seamlessly. Using Motorola's unique Dynamic Dual Mode (DDM) capability, the radios dynamically switch between FDMA and TDMA without the user having to change channels. This provides interoperability on demand with existing and future networks.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital APX 4000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital APX 4000 hardware models can be loaded with different software packages that provide the features and functionalities that our customers require.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a USB cable is required for all software upgrades.) The ASTRO Digital APX 4000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Launching in early 2015, there will be a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, a new online method will be supported in Radio Management (RM). For more information, please refer to the APX 4000 FLASHport ECAT page

RADIO MANAGEMENT

Radio Management (RM) is a suite of software applications shipping with the APX Customer Programming Software (CPS) that provides the ability to manage your entire fleet of ASTRO APX radios through one central database.

Radio Management (RM) can help reduce fleet programming time and improve overall radio asset management. Radio Management allows:

- **Manage and track radio codeplugs through a central database**
- **Make changes to a shared codeplug template and push to multiple radios**
- **Manage and update radios without taking them out of service**
- **Schedule programming updates to radios ahead of time**

NOTE: Radio Management is available only with Customer Programming Software Release 7.12, version R08.02.00 and later and can only be used with ASTRO® Digital APX radios.

Ordering Requirements

Ordering procedure is as follows:

Steps	Required Options	Comments
1	APX 4000 700/800 MHz Main Model	APX Digital Portable Radio- a. H51UCF9PW6AN- APX 4000 700/800 MODEL 2 b. H51UCH9PW7AN- APX 4000 700/800 MODEL 3

2	Operation Mode	a. QA02756- ENH: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM b. Q811- ENH: SOFTWARE P25 CONVENTIONAL c. QA02829- ANALOG CONVENTIONAL d. Q443- ENH: SOFTWARE ANALOG 3600 BAUD
3	System Enhancement (Optional)	a. G996- ADD: PROGRAMMING OVER P25 (OTAP) b. QA00580- ADD: TDMA OPERATION

1. Order the APX 4000 Portable Series as the main line item.

- Each hardware model MUST be ordered with one operation mode.
- Default battery is Lilon 1900mAh
- Default 2" belt clip
- Default Antenna is the single appropriate antenna for your RF configuration.

2. Select software package for radio.

- Note - APX Radio ships with 12 month standard warranty.

Common Software Features Supported By

H38 "SmartZone"	Analog Operation	ASTRO Digital	ASTRO P25 Digital	TDMA
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)	TDMA OPERATION
RADIO WIDE FEATURES				
Maximum Modes				
ASTRO Digital APX 4000 Limited Keypad	512	512	512	512
ASTRO Digital APX 4000 Full Keypad	512	512	512	512
Analog and Digital Operation	Yes	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable	No	Yes (Digital)	Yes (Digital)	Yes (Digital Only)

		Only)	Only)	
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes	Yes
Adaptive Power Control	No	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes

DTMF Signaling	Future	Future	Future	Future
Quick-Call Signaling	Future	Future	Future	Future
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call (Dispatch Call)	Yes	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes	Yes
Selective Call (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
Selective Call Decode (Individual Voice Call)	MDC-1200 Only	Yes	Yes	Yes
PTT ID (Individual Identification)	MDC-1200 Only	Yes	Yes	Yes
Call Alert Encode/Decode	MDC-1200 Only	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	MDC-1200 Only	Yes	Yes	Yes
Telephone Interconnect	Yes	Yes	Yes	Yes
Selective Radio Inhibit	MDC-1200 Only	Yes	Yes	Yes

Radio Check	MDC-1200 Only	Yes	Yes	Yes
Status/Message	MDC-1200 Only	Yes	Yes	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes	Yes
PTT ID	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	Yes
Analog/Digital Dual Mode Scan	No	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	Yes	Yes
Reprogram Request	Yes	Yes	Yes	Yes

SmartZone

	Analog Operation	ASTRO Digital	ASTRO Digital	TDMA
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)	Project 25 (TDMA Operation)
Trunking Type II Only Features				
Voice on Control	-	-	-	-
SmartZone Automatic Site Registration	Yes	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	Yes

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the APX 4000 portable series. Separation of frequencies can be as wide as the allowable band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital APX 4000 portables to Zone Operation radios.

For the Limited keypad and Full Keypad radios there is a maximum of 50 zones, with 512 channels per zone.

PROJECT 25 ENCRYPTION

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital APX4000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO Digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital APX 4000 radio will transmit ASTRO Digital encryption depending on the channel programming. ASTRO Digital encryption provides secure communications. ASTRO Digital Encryption (operation in encrypted mode while also operation in 3.6KB or 9.6KB and TDMA ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryptions does not operate with non-XL encryptions.

An encryption option is not required for either clear analog operation or clear ASTRO Digital operation. Encryption can be ordered with the ASTRO Digital APX 4000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital APX 4000 radio functions include selected ASTRO digital signaling and digital speech coding.

When ordering any of the Encryption Algorithms:

- The AES encryption algorithms offered are compliant with digital Project 25 standards and does not support analog encryption operation.
- **Requires** the ASTRO Digital CAI (Q806) to operate the AES encryption.
- Encryption Algorithms can be ordered later via Flash Port.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Details regarding the certification, and copies of the relevant certificates, can be obtained on the NIST website at: <http://csrc.nist.gov/groups/STM/cmvp/validation.html>.

Further information regarding FIPS 140-2 certification may be found using the following link - FIPS 140-2 Crypto Module Validation Program (CMVP) <http://csrc.nist.gov/groups/STM/cmvp/index.html>

HAZARDOUS LOCATION

FM

The APX4000 FM battery options QA00582AF and QA00582AD are not longer available for order after DECEMBER 31, 2015. The last ship date will be DECEMBER 31, 2015. This is an industry-wide mandate that affects all radio manufacturers.

UL

APX 4000 Portable Radio **WITH 2 Knob (option QA04865)** when properly equipped with **QA00582AJ or QA04934AA** is Underwriters Laboratory (UL/CSA) Approved. APX 4000 (Two-Knob) UL Approval certified to standards TIA4950. CAN/CSA C22.2 NO. 157-92. Div 1, Class I, Groups C, D, Class II groups E, F, G, Class III.

APX Series Hazloc Fact Sheet

ASTRO Advanced Messaging Solution (ASM)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from

Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

Ordering ASTRO Text Messaging for APX 4000 Portable Requires:

1. APX 4000 Radio
2. P25 Digital Conventional (Q811)

OR

1. APX 4000 Radio
2. 9600 or 3600 Digital Trunking (QA02756)

NOTE: *There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Please order Digital Operation to receive Text Messaging ability as Packet Data is a standard feature on APX Portable and Mobile Radios.*

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*) On the Dual Display model only it is possible to the user to determine their own location (latitude/longitude) through the use of the location menu.

During normal operation the radio battery capacity will be reduced by 10% to 16%.

In order to obtain an initial GPS fix position, the radio must be located in an open sky, outdoor environment with no barriers that could affect the signal around you or above you. During this initial fix, the radio should NOT be worn on the body as this may affect the process of acquiring signal and/or add additional time to first fix.

NOTE LIMITATIONS OF USE:

GPS works best in an open sky (clear view of the sky with no obstructions) environment. Due to the limitations of the technology, there are certain situations which prevent GPS coverage. These situations include but are not limited to:

- Underground locations (tunnels, subways, etc.)
- Inside of buildings, elevators, parking garages, trains, other covered vehicles, etc.
- Under metal or concrete roof structures
- Urban canyons (between tall buildings or under dense tree coverage)

***GPS Performance may be degraded when the radio is worn against the body and/or against the body within a vehicle.

Due to the limitations mentioned above, GPS should only be utilized as a method to assist the user with location information but not as a means for mission critical communication. Therefore, in any emergency situation, the location should always be verbally reported to the dispatcher.

700/800 Models (2, 3)	Frequencies
700 MHz	767.950
700 MHz	772.800
800 MHz	856.800
800 MHz	863.025

*within +/-25kHz of the specified frequency

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:

Rx/Tx: 764.006250 to 775.993750

Tx Only: 794.006250 to 805.993750

800 MHz

Tx Only: 806.000000 to 824.993750

Rx/Tx: 851.000000 to 869.993750

CPS INFORMATION

****Please note that NEW version of Customer Programming Software (CPS) is required for initial customer orders for APX radios. ****

**** APX CPS version CPS R12.00.00 and greater ordered after June 2014 will only support Windows 7 and 8. ****

How to order RVN5224 through COF:

1. **Sign and return the Software License Agreement**
2. **Order the software part number**
3. **New releases on disk will be automatically sent for a three-year period.**

A downloadable version of the CPS will be available for the Q1 SER 2015 Release

If a customer prefers to download, call 1-800-422-4210 to request an MOL account or have their existing account enabled.

- **Order HKVN4289A in MOL**
- **Provide Email Address**
- **Sign and return the Software License Agreement**
- **License is valid for 3 years**
- **Reminder to renew license will be sent to the provided Email Address**

FCC Information

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
AZ489FT7049	90	764.0 - 775.0	2.65	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
AZ489FT7049	90	793.0 - 805.0	2.65	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
AZ489FT7049	90	806.0 - 824.0	3.3	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
AZ489FT7049	90	851.0 - 870.0	3.3	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH EF-					Note 1: 11K0F3E, 8K10F1D, 8K10F1E,

AZ489FT7050	90	764.0 - 775.0	2.65	1.5 PM	8K10F1W, 16K0F3E, 20K0F1E
BH EF- AZ489FT7050	90	793.0 - 805.0	2.65	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
BH EF- AZ489FT7050	90	806.0 - 824.0	3.3	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E
BH EF- AZ489FT7050	90	851.0 - 869.0	3.3	1.5 PM	Note 1: 11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 16K0F3E, 20K0F1E

[Enhancement Level Guide](#)

[APX Series Sales Presentation](#)

[Fleet Management Ordering Guide](#)

[Spec Sheet](#)

[APX Family Brochure](#)

[Portable Accessory Catalog](#)

[ASTRO 25 Subscriber At A Glance Brochure](#)

[RFID Solution Partner Information](#)

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
APX 4000 7/800 MHZ MODEL 3 PORTABLE	-	H51UCH9PW7 N	426	\$2,392.00

APX 4000 7/800 MHZ MODEL 2 PORTABLE	-	H51UCF9PW6 N	426	\$1,963.00
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Configuration

2: Knob Configuration (*Must Select One*) One Knob will no longer be available July 1, 2016

Description	Full Description	Nomenclature	APC	Price
ADD: TWO KNOB CONFIGURATION	-	QA04865	209	\$0.00

Options

3: Operation Mode (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,100.00
ENH: ANALOG CONVENTIONAL	-	QA02829	426	\$400.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	-	QA02756	426	\$1,570.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$650.00

4: System Enhancement Software (*Refer to ordering guide for help*)

Description	Full Description	Nomenclature	APC	Price
ADD: HW KEY SUPPLEMENTAL DATA	-	QA01648AA	0655	\$5.00
ADD: TDMA OPERATION	-	QA00580	426	\$450.00
ADD: PROGRAMMING OVER P25 (OTAP)	-	G996	426	\$100.00

5: System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ENHANCEMENT LEVEL 1	-	QA01770	426	\$200.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$25.00
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$200.00
ADD: MISSION CRITICAL GEOFENCING	-	QA09012	426	\$150.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$100.00
ENH: One Touch/Status Msg	-	H46	426	\$75.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767	426	\$100.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$75.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
ADD: REFLECTIVE LABEL	-	QA04776	411	\$10.00
ADD: GROUP SERVICES	-	QA09008	655	\$150.00
ADD: APX Personnel Accountability	-	Q445	481	\$150.00
ADD: ENHANCED DATA	-	QA03399	656	\$150.00

6: Encryption Algorithm Options (Optional)

All APX4000 Radios ship standard with Single Key Advanced Digital Privacy (ADP) unless removed by selecting QA05751.

***ADP Privacy is not FIPS compliant - ADP can be removed when QA05751 is selected for

digital P25 conventional or trunking ***

Description	Full Description	Nomenclature	APC	Price
ADD: TACTICAL REKEY WITH MULTIKEY	-	H04	426	\$350.00
ENH: MULTIKEY	-	H869	426	\$330.00

7: Antenna (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112	426	(\$10.00)
ALT: 1/4- WAVE 7/800 STUBBY (NAR659	-	H122	426	\$24.00

8: (One Knob) Battery (Optional- Can Only Select One) One Knob will no longer be available July 1, 2016

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	-	QA02749	426	\$85.00
DEL: DELETE BATTERY	-	H207	426	(\$47.00)
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	-	QA02750	426	\$100.00

9: (Two Knob) Battery (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	-	QA02749	426	\$85.00
ALT: IMPRES LI-ION 2500MAH RUGGED UL (NNTN8560)	-	QA04934	411	\$50.00

ALT: IMPRES LI-ION 2500MAH UL/DELTA T BATTERY (NNTN8560A)	-	QA00582	411	\$130.00
DEL: DELETE BATTERY	-	H207	426	(\$47.00)
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	-	QA02750	426	\$100.00

10: Rugged Option *(Optional-Can Only Select One)*

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	-	H499	411	\$250.00

11: Belt Clips *(Optional-Can Only Select One)*

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BELT CLIP	-	H301	426	(\$10.00)
ADD: 2.5 INCH BELT CLIP	-	Q698	426	\$12.00

12: Cable *(Optional)*

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	-	Q157	655	\$75.00

RFID Enabled Volume Knob *(Optional)*

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	426	\$25.00

13: Programming *(Optional)*

Description	Full	Nomenclature	APC	Price
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	Description				
	ADD: FRONT PANEL PROGRAMMING & CLONING	-	Q53	426	\$150.00

14: Service Options (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$90.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$162.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00049	185	\$222.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$234.00

15: Manual (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE APX4000/2000 CD-ROM	-	H88	426	\$25.00
ADD: DATA LINK MANAGER APP CD-PORTABLES	-	QA00205	655	\$0.00

16: Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	426	\$0.00

17: Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H51UCF9PW6 N	APX 4000 7/800 MHZ MODEL 2 PORTABLE	426	3
PORTABLES	FSC	H51UCH9PW7 N	APX 4000 7/800 MHZ MODEL 3 PORTABLE	426	5
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Integrated Command and Control System (ICCS) Gateway - SR6.x to SR7.1; DSS R3.0 to R4.1
E2EE ICCS Gateway SR6.x/R3.0 to SR8.0

Ordering Information

General Information

Note That Clear ICCS for new SR8.0 Systems now uses the Dispatch Communications Server (DCS). Please refer to the DCS ECAT page.

An Integrated Command and Control System (ICCS) typically refers to a large and often complicated customer control room. The ICCS Gateway (GW) is the interface between MCC7500 console and 3rd party applications and systems in a remote control site.

The APIs provided by the ICCS Gateway allow customers to develop their own command and control system using the feature set provided by MCC 7500 consoles (Voice Nodes). The Customer's GUI application runs on the customer supplied ICCS PCs using a Common Object Request Broker Architecture (CORBA) on a Secure Socket Layer (SSL) interface to signal control messages to the Voice Nodes.

In this release, in addition to the Clear ICCS present in previous releases, an E2EE MCC 7500S console solution is developed to provide end to end communication between radios and consoles.

The three key items of the ICCS Gateway are:

- A Voice Node PC.
- A voice card.
- The GPIOM, being identical to that used with the MCC 7500 Dispatch Console. (Note: The ICCS GW PC together with a GPIOM is called a Voice Node (VN).)
- The ICCS Gateway Multiplexer which is used to multiplex the analogue audio from the GPIOM into an E1 stream for onward connection to the customer's ICCS.

The Voice Node PC is configured for headless operation (no mouse, keyboard, and screen). A KVM can be provided for local support operation if desired.

The ICCS Gateway Components

The Voice Node PC

The PC used for the ICCS GW PC is a 1U rack mountable pyramid server running the Console Dispatch PC software. A voice card must be added to each PC. The GW PC and

the GPIOM have to be collocated because they are connected using IEEE1394 Firewire. The maximum FireWire cable length of 4.5 metres defines this limitation.

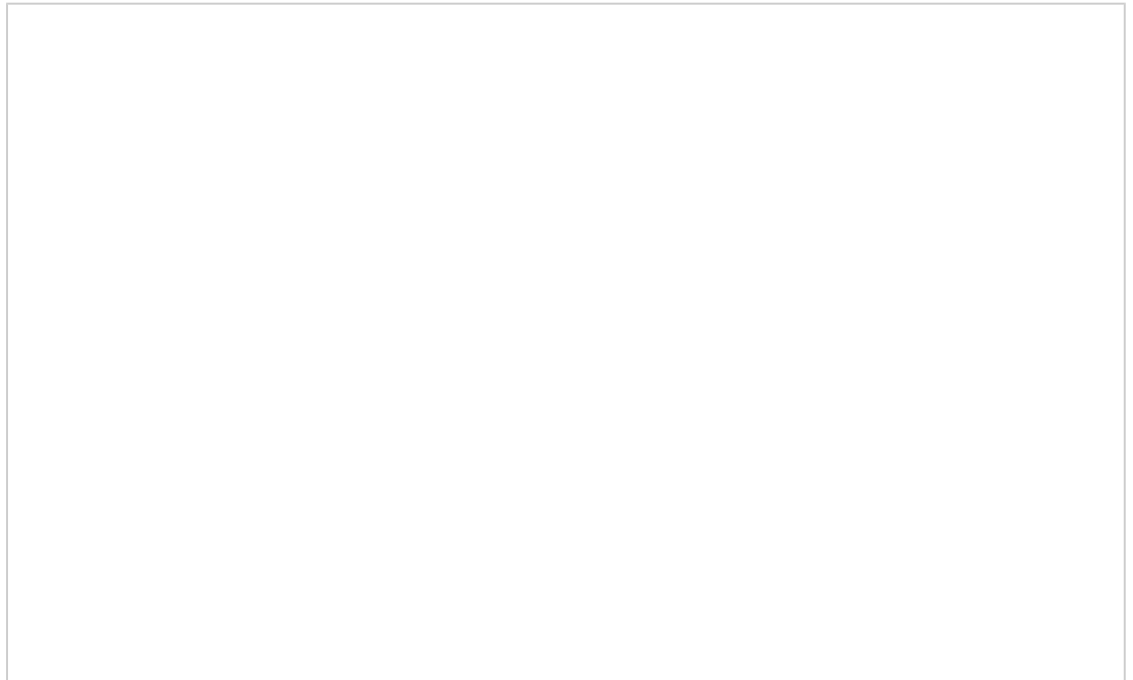


The GPIOM

The GPIOM is the same General Purpose I/O Module unit as used with the MCC 7500 Dispatch Console Processing Package. Please refer to the [MCC 7500 Peripherals](#) page for more details.

The ICCS Gateway Multiplexer

The ICCS Gateway Multiplexer consists of the chassis, a common logic module, E1 modules, voice modules and a redundant power supply.



The full specification can be seen here: [GMDN0244](#)

Each multiplexer chassis unit has redundant power supplies and CPUs. Each multiplexer should be equipped with a minimum of one VC16 voice module and one E1 main link module.

- The maximum number of Voice Nodes supported by each ICCS-Gateway implementation is 50.
- Each Voice Node supports up to four audio outputs (i.e. 2 pairs of speakers) and one audio input ("microphone"). The audio input shares the first channel with the audio output. This setup consumes four channels of a VC16 voice module allowing a total of four Voice Nodes to be connected to one VC16 voice module. Where only 1 pair of speakers are used then 8 voice nodes can connect to a VC16 voice module

ICCS Interface

There are two types of traffic traversing the ICCS interface between the Motorola Equipment Room and customer Dispatch Room: Analogue traffic (mainly Audio) and IP traffic (Data and control messages).

- Analogue traffic will be aggregated on the Multiplexer and then transmitted over E1 cables.
- For the IP traffic there are two configuration options.
 1. A WAN interface, an E1 cable, to connect the border router to the multiplexer This consumes one additional E1 link of the ICCS GW multiplexer and one time slot on the E1 link to the customers ICCS multiplexer.
 2. A LAN interface to connect the border router directly to the customer's LAN switch.

Clear ICCS Gateway configuration

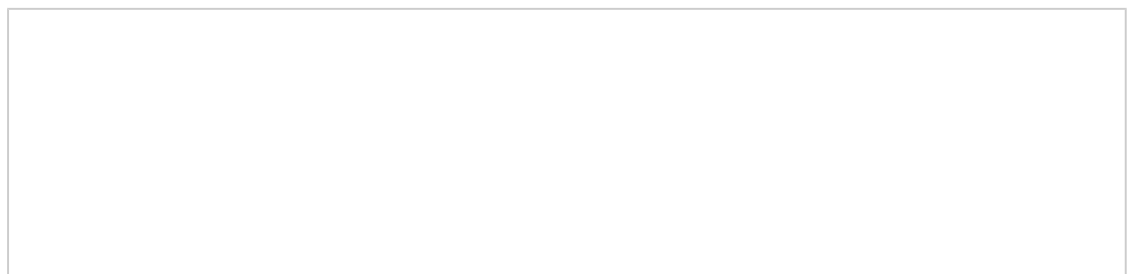
The Excel worksheet found [here](#) can be used to calculate the required MUX equipment for a number of analogue configurations of the Voice Nodes (VN).


The E2EE ICCS Gateway Components

In this release, E2EE MCC 7500S console solution is developed to provide end to end communication between radios and consoles. It is similar to the clear version of the ICCS except that the components are based upon the MCC 7500S E2EE console configuration. As illustrated in the figure an E2EE MCC 7500S console solution which is composed of three main entities:

- Call Control Entity (CCE), [Dispatch PC with mouse & keyboard].
- Voice Encryption/Decryption entity (VED), also known as the Console CryptR.
- Audio Processing Entity (APE), also known as the Audio Module.

In addition the ICCS GW Multiplexer which is used to multiplex the analogue audio from the GPIOM into an E1 stream is required as in the Clear ICCS although the configuration will be different.





In contrast to the clear MCC 7500 console, this solution requires 2 Ethernet ports on the control site switch for each E2EE console. The KVL shown in the figure is not used in daily operation, but only used to load security keys to the VED.

Voice Node CCE (Call Control Entity) PC

The PC used for the E2EE Voice Node CCE PC is a 1U rack mountable Pyramid (SuperMicro) server used for the MCC 7500S.

The Voice Encryption/Decryption Entity (VED)

The VED is a standalone device used to encrypt and decrypt audio. It contains a CryptR module. A metal bracket is provided with the VED to allow secure mounting of the device. An external power supply is provided. Three versions of the VED are available each with a different algorithm. The Voice Encryption/Decryption Entity (VED) is the same device as used in the MCC 7500S E2EE dispatch consoles.

The Audio Processing Entity (APE)

The APE provides a similar configuration as the General Purpose I/O Module unit when used with the MCC 7500 Dispatch Console Processing Package. However in this application it is a rack mount version of the MCC 7500S APE and provides the audio interfaces. It includes a SuperMicro PC with Digigram soundcard, cable and XLR extension cable

The ICCS Gateway Multiplexer

The ICCS Gateway Multiplexer consists of the chassis, a common logic module, E1 modules, voice modules and a redundant power supply similar to that for the Clear ICCS described above.

E2EE ICCS Gateway configuration

The Excel worksheet found [here](#) can be used to calculate the required MUX equipment for a number of analogue configurations of the Voice Nodes (VN).

Export Control Requirements

IMPORTANT NOTE FOR ALL ENCRYPTED ITEMS

All Motorola TETRA (Dimetra) encrypted infrastructure and encrypted subscriber, as well as encryption key distribution and encryption key management hardware and software products, including kits, spare parts and encryption upgrades are controlled for export and will generally require an approved export licence prior to shipment from the Motorola factory to any customer.

Export Licence approvals are based on the country of final destination and the specific end user. Certain countries and certain end users will not be eligible for approval.

Any items that require an export licence are highlighted in the sections below. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Current contact information can be found at <http://exportcontrols.mot.com/>

Ordering Requirements

Ordering in Oracle 12

If ordering in Oracle 12 then enter <**DIP-CONTROL**> into the <**Product**> field in Oracle R12 and then launch the configurator. Make selections as required. The information below can be used to check the resulting lists.

Note That Clear ICCS for new SR8.0 Systems now uses the Dispatch Communications Server (DCS). Please refer to the DCS ECAT page.

Configuration

Clear ICCS Gateway Components (Legacy Systems ONLY) Step C1: Voice Node PC

Step C1: Voice Node PC

Between 2 and 50 Voice Node PCs are allowed for each ICCS Gateway. Order a B1909 plus Option CA01379 for the processing for each package required. Each PC includes a Windows operating system. If ordering in COF a GMEN4002 voice card should also be ordered. If ordering in Oracle R12 then the voice card will be automatically added by the SBOM Configurator. The PC can be ordered in either a rack-mountable or tower configuration. For the ICCS GW application the rack-mountable configuration should be chosen using Option CA01318. Order one AC line cord CA00140AB or CA140AC for each Voice Node PC. Also add CA02459AB for the Win XP OS.

Description	Full Description	Nomenclature	APC	Price
ADD: OS LICENSE WINXP	-	CA02459AB	597	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD,	Adds one AC line cord with a continental European plug	CA00140AB	597	\$0.00

EUROPEAN	(Schuko plug).			
ADD: MCC7500 DIM IP PROC PKG	-	CA01379AA	597	\$0.00
ADD: TOWER PC	-	CA01319AC	597	\$12,400.00
MCC7500 DIMETRA IP PROC PKG	-	B1909	597	\$100.00

Step C2: GPIOM

Each Voice Node PC requires one GPIOM for use with the ICCS Gateway PC. Order a GM0158 for each GPIOM required.

Each GPIOM requires an AC line cord option (CA00140AB or AC). This AC line cord is in addition to the AC line cord ordered with the processing package.

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00

If GPIOM is to be rack mounted then also order the fixing bolts for the PSU. Order one GMDN2373 per rack mounted GPIOM.

Description	Full Description	Nomenclature	APC	Price
RITTAL FIXING BOLTS PACK=4	-	GMDN2373A	078	\$23.00

If a shelf is required for the PSUs then GMDN2372A may be suitable - [spec sheet here](#). This can accommodate up to four PSUs.

Description	Full Description	Nomenclature	APC	Price
RITTAL SHELF 400MM DEPTH	-	GMDN2372A	078	\$61.00

Step C3: ICCS Gateway Multiplexer.

Now order the ICCS Gateway Multiplexer. Note: The quantities of Options shown below are for each multiplexer. Use the configuration worksheet at the link [here](#) to calculate your total specific system level requirements.

ICCS Gateway Multiplexer Main Unit.

Order the ICCS Gateway Multiplex Main unit under nomenclature GMDN0244.

Description	Full Description	Nomenclature	APC	Price
RAD MUX EQUIPMENT - MODEL	-	GMDN0244	597	\$0.00

ICCS Gateway Multiplexer Chassis.

Order 1 of the ICCS Gateway Multiplex chassis using Option TG00001AA ON EACH MODEL GMDN0244 to provide a fully redundant CL & PSU each with 12 I/O slots.

Description	Full Description	Nomenclature	APC	Price
ADD: MEGAPLEX 2100 MUX - MAIN UNIT	-	TG00001AA	597	\$8,103.00

Dual E1 Link

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL E1 LINK MEGAPLEX2100	-	TG00004AA	597	\$2,493.00

16 Port Voice Module

The VC16 voice module has 16 channels and requires one I/O slot in the multiplexer chassis. Order between 1 & 7 of the modules ON EACH MODEL by ordering Option TG00021AA

Description	Full Description	Nomenclature	APC	Price
ADD: 16 PORT VOICE MODULE	-	TG00021AA	597	\$2,493.00

Octopus Cables

Two octopus cables are required for each VC16 voice module (1 cable covers 8 channels). Order between 1 & 13 of the cables ON EACH MODEL by ordering Option TG00036AA.

Description	Full Description	Nomenclature	APC	Price
ADD: KM-2000 CBL FOR 8 ANLG CH	-	TG00036AA	597	\$249.00

Step C4: Order the ICCS Voice Node PC Application and API Software (mandatory).

The ICCS Voice Node PC provides its services via a CORBA remote API. It is necessary to install the appropriate application software on each PC. See the relevant ECAT page for Software Ordering for the System Release required.

E2EE ICCS Gateway Components (Still Current for SR8.0)

Step E1: E2EE Voice Node CCE (Call Control Entity)

Between 2 and 50 Voice Node CCE PCs are allowed for each ICCS Gateway. The CCE includes a PC with a Windows operating system but without a voice card. Order a GMLN1159 plus option CA01381 for each processing package required. The CCE can be ordered in either a rack-mountable or standard configuration. For the CCE application, the rack mountable configuration should normally be chosen using Option CA01338. Alternatively standard PCs can be ordered using CA01380. A European AC Line Cord is included. For a UK AC line cord order CA00140AC for each processing package. For a China AC line cord order CA00140AN. In addition, order the OS, For R7.0 onwards this is CA02460AA for Windows 7.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500S CCE DIM IP PR PKG	-	CA01381AA	530	\$0.00
AC LINE CORD CHINA	-	CA00140AN	443	\$0.00
MCC 7500S CCE	-	GMLN1159	597	\$100.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00

Step E2: Order the Console CryptR (mandatory)

Follow either Step E2a OR E2b for R7.0 and R6.2 systems respectively:

Step E2a: R7.0 Systems

Order one Console CryptR for each Dispatch Console. For R7.0 systems order one GM0215 with ONE algorithm option CA01389 - AES128, CA01390 - AES256 or CA01391 D6.1 EG UK. Note that the latter is for restricted use in the UK only. Each CryptR requires an AC Line Cord Option. Order one AC line cord CA02064AA or CA02065AA.

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00

AC Line Cord, European	-	CA02065AA	137	\$0.00
D7.X/D8.X CONSOLE CRYPTR	-	GM0215B	532	\$4,687.00
ADD:AES-256	-	CA01390AA	532	\$0.00
ADD:D6.1 EG UK	-	CA01391AA	532	\$0.00
ADD:AES-128	-	CA01389AA	532	\$0.00

Step E2b: R6.2 Systems

Order one Console CryptR for each Dispatch Console. For R6.2 systems order one GM0175 with ONE algorithm option CA01389 - AES128, CA01390 - AES256 or CA01391 D6.1 EG UK. Note that the latter is for restricted use in the UK only. Each CryptR requires an AC Line Cord Option. Order one AC line cord CA02064AA or CA02065AA.

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
ADD:AES-256	-	CA01390AA	532	\$0.00
ADD:D6.1 EG UK	-	CA01391AA	532	\$0.00
ADD:AES-128	-	CA01389AA	532	\$0.00

Step E4: ICCS Gateway Multiplexer

Now order the ICCS Gateway Multiplexer. Refer to Step C3. Use the configuration worksheet at the link [here](#) to calculate your total specific system level requirements.

Step E3: Ordering the Audio Processing Entity (APE)

The Audio Processing Entity (APE) PC that provides the audio interfaces. It includes a rack mount PC with Digigram soundcard, cable and XLR extension cable. Order a GMLN1160 plus Option CA01383 for each processing package required. The APE can be ordered in either a rack-mountable or standard configuration. For the ICCS GW APE application the rack-mountable configuration should be chosen using Option CA01339. Alternatively standard PCs can be ordered using CA001382. A European AC Line Cord is included. For a UK AC line cord order CA00140AC for each processing package. For a China AC line cord order CA00140AN. In addition, order the OS, For R7.0 onwards this is CA02460AA for Windows 7.

Description	Full Description	Nomenclature	APC	Price
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AC LINE CORD CHINA	-	CA00140AN	443	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: MCC7500S APE DIM IP PR PKG	-	CA01383AA	530	\$0.00

Step E5: Order the E2EE ICCS GW CCE Application and API Software (mandatory)

The ICCS GW CCE provides its services via a CORBA remote API. It is necessary to install the appropriate application software on each PC. See the relevant ECAT page for Software Ordering for the System Release required.

Rack Orderables

The ICCS Gateway components including the GPIOM and PC can be accommodated in a 38U rack. The type of rack that can be used would be similar to that employed elsewhere in the Dimetra system and follows the same form factor. Of the 38U available only a maximum of 26U will be used to ensure adequate cooling performance. The rack configuration is project specific. The SIC should be contacted to discuss your individual requirements.

When populating the rack with the components the following factors should be considered:

- One Voice Node (Voice Node PC & GPIOM) requires 2U..
- A maximum of 12 Voice Nodes plus a KVM switch can and should be put in one rack.
- A MUX main unit requires 4U.
- A 32-port patch panel requires 2U.
- Ethernet switches, Control room border routers, control site routers and firewalls have to be considered

Below is the list of required orderables for the ICCS Gateway Rack. All the items in the list are on a per rack basis. The default mains distribution block configuration is included in the rack model number. No additional or alternative distribution blocks are needed or allowed. Further details on the rack model can be viewed [here](#). Contact the SIC for the quantity of customised cables required.

PART NUMBER	DESCRIPTION
GMDN1164A	INTERCONNECT RACK DIMETRA 6.X
EDN7977A	SIC CUSTOMIZED SITE CABLE SET
GMDN2123A	RACK TEMPERATURE ALARM AUSTRIA

GMDN0014A	32PORT RJ45 PATCH PANEL SHIELD
GMDN1159A	17"DISPLAY US-KEYB DRAWER
TG00105AB	ADD: 16 PORT KVM SWITCH

Field Replacement Units

Rack Mountable PC

To order a rack mounted SC811T-300 PC without software or Operating System entered GMDN1198C as a standalone item directly into an Oracle R12 or COF.

The following Field Replacement Units are available.

Description	Full Description	Nomenclature	APC	Price
FRU: MP2100 MUX - MAIN UNIT	-	WALN4437A	597	\$15,088.00
FRU: MP2100 16-PORT VOICE MODULE	-	WALN4435A	597	\$4,643.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
FRU: MP2100 DUAL E1 LINK MODUL	-	WALN4434A	597	\$4,643.00

Part number	Description	APC
	PC Cards	
GMEN4002A	Voice Card FRU	597
	GPIOM	
BLN1274A	Housing & Circuit Board FRU	443
0183650Y02	GPIOM Power Supply FRU (w/o AC line cord)	443
3082933N13	Power Supply AC Line Cord (UK)	443
3082933N09	Power Supply AC Line Cord (Continental European)	443
3085550Y02	GPIOM to PC Cable FRU [Voice Card] (IEEE-1394)	443
	Desktop Speaker (MCC 7500)	
BLN1275A	Circuit Board FRU	443
3082534Y18	Speaker to GPIOM Cable FRU	443
	Desktop Microphone	
BLN1276A	Circuit Board FRU	443
0183734Y01	Microphone to GPIOM Cable FRU	443
	Headset Jack	
BLN1277A	Circuit Board FRU	443
3071113H01	Headset Jack to GPIOM Cable FRU	443
	Keyboard	
01015049001	HP KEYBOARD DT527A	597

	Mouse	
01015050001	HP PS/2 SCROLL MOUSE EY703AA	597
3071114H01	Headset Jack Extension Cable FRU	443
	ICCS GW Multiplexer	
WALN4436A	FRU: KM-2000 CBL for 8 Analog CH	597
WALN4461A	FRU: Sound Card	597
WALN5054A	FRU: Sound Card Cable, МĂ¶рки	272
WALN5066A	FRU: HARD DISK 146GB (DL380 G5)	530
WALN4536A	FRU: Sound Card w/o MIC input	597
WALN4538A	FRU: Sound Card Cable w/o MIC input	597
WALN4333B	FRU: BROADCOM EXTRA NIC (AM AND DL)	597
	CryptRs	
0171925M01	FRU: CryptR External Power Supply	443
3071813M02	FRU: CryptR ETH Crossover Cable	443
DLN6693	RS232 CRYPTR CABLE	811
	Discreet Listening	
GMDN2213B	Local Logging Adapter (= USB sound card)	597

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SCB	B1909	MCC7500 DIMETRA IP PROC PKG	597	32
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1276	DESKTOP MIC CIRCUIT BOARD FRU	443	19
CNTRLR	SSO	BLN1277	HEADSET JACK CIRCUIT BOARD FRU	443	19
SOFTWARE	MGS	GM0215B	D7.X/D8.X CONSOLE CRYPTR	532	20
SOFTWARE	MGS	GM0215B	D7.X/D8.X CONSOLE CRYPTR	532	20
QUOTEDS	ERAD	GMDN0244	RAD MUX EQUIPMENT - MODEL	597	52
QUOTEDS	ERIG	GMDN2372A	RITTAL SHELF 400MM DEPTH	078	2
QUOTEDS	ERIG	GMDN2373A	RITTAL FIXING BOLTS PACK=4	078	20
DRPSHP	MGS	GMLN1159	MCC 7500S CCE	597	5

General Information

E-Government Update

February 17, 2003

Memo Distribution Sales Teams
to:

Rich Baidis, Mary Bottie, Doug Heck, Chuck Jackson, Brian Kemper, Jeff
Copy Kremer, Ed Leisten, Dan McGowan, Grant Milner, Carol Moore, Ellen
to: O'Hara, Lou Paolillo, John Piumbroeck, Nick Rendone, Jim Sarallo, Jody
Sweet, Bill Turkaly, Ron Voigt, Jim Widick, Steve Young

From: Ken Denslow, Mark Moon, Rick Neal

The E-Government Act of 2002 was signed into law on December 17, 2002. One of the provisions of this Act allows for the possibility of "cooperative purchasing" by state and local governments, enabling them to use the General Services Administration (GSA) Group 70 Federal Supply Schedules to purchase supplies and services when GSA implements this program. Participation will be voluntary on the part of the contractor, as well as the state and/or local purchasing agencies. Some Motorola two-way radio products and services are included on a GSA Group 70 Schedule Contract.

The actual "cooperative purchasing" program has not yet been implemented, and as such, purchasing under Group 70 Schedules cannot yet occur. In January, GSA published proposed regulations to implement this Act and requested public comments on this proposal. GSA will receive comments and questions until March 24, 2003, after which they will formulate a final rule. This process is expected to be complete by April 17, 2003, but could take longer depending on the comments received.

GSA conducted a public hearing on February 4, which Motorola attended. Based on our assessment of the proposed regulations and comments made at the hearing, GSA needs to address a number of fundamental issues. One key question is how to accommodate state and local purchasing terms and conditions that differ from the terms and conditions on the GSA schedule.

Based on the information currently available, Motorola believes it will be unlikely that "cooperative purchasing" will work effectively for our customers. This is due to the extensive revision of the proposed regulations and resolution of many questions regarding contract terms and conditions.

Until the final ruling is released, it is difficult to answer many questions surrounding this proposal. We are actively involved in discussions in order to fully understand the impact of this option on our customers and our distribution channel. We appreciate your patience and will keep you informed.

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

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Model

Emergency Button/Quick Action Button

Ordering Information

Features

At Motorola Solutions, we constantly focus on assisting responders during emergencies, and on reducing the response duration. Emergency Button/Quick Action Button is the latest feature in our broad and innovative product portfolio that allows a responder to initiate a phone call, send a text notification, or both, by just pressing a button (hard/soft) on a handheld device. The responder has the handheld device pre-configured, based on his/her specific requirements, which are sent while pressing the Emergency Button/Quick Action Button.

The Emergency Button/Quick Action Button application supports the following actions:

- **Initiate a phone call:** A responder can pre-configure the application to initiate an E911 call, or initiate a call to a customized phone number, with a press of the button.
- **Send an SMS notification (with/without GPS):** A responder can pre-configure the application to send an SMS notification to customized numbers. Location coordinates (if available) of LTE handset and information about paired (if paired) Land Mobile Radio (LMR) is also sent as part of the text message.
- **Initiate a phone call and send an SMS notification (with/without GPS):** A responder can pre-configure application to perform both actions with a press of the button.

Emergency Button/Quick Action Button is a client only feature.

NOTE: User will require a voice and text plan to use call and SMS notification functionality.

Device and Operating System Supported

SUPPORTED DEVICES/CLIENTS:

LEX755 (Android Jellybean), LEX L10 (KitKat), LEX L10i

Ordering Requirements And Steps

Emergency Button/Quick Action Button app is pre-loaded on all Motorola LTE handheld devices.

- **LEX 755:**

Quick Action Button on LEX755 is part of Application Central client pre-loaded on device and can be activated by purchasing license (UA00115AA \$0 price). This is a free app on LTE device.

- Option T8081A must be selected followed by Qty 'n' of required client licenses UA00115AA.
- **LEX L10, LEX L10i:**

Emergency Button/Quick Action Button is a separate app on LEX L10 and LEX L10i. This is a free app on LTE device. No ordering required for LTE device.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
QUICK ACTION CLIENT LICENSE LEX 755	-	T8081	063	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: QUICK ACTION CLIENT LICENSE QTY	-	UA00115AA	063	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T8081	QUICK ACTION CLIENT LICENSE LEX 755	063	1

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Enhanced Telephone Interconnect for ASTRO 25 Systems A7.17.3 and later releases

The Enhanced Telephone Interconnect (ETI) solution is designed for Motorola's ASTRO 25 Trunked Radio Systems at A7.17.3 and beyond. Existing ETI-containing systems upgraded to A7.17.3 may retain their existing ETI hardware, but subsequent expansions will be based on the refreshed solution.

The NEC Gateways are JITC Compliant.

Important Note: Legacy ETI hardware A7.9 to A7.17.2 is cancelled. Please refer to ETI Lifecycle Notice [here](#)

Enhanced Telephony Interconnect Oredring Guide - [Link](#)

Ordering Information

General Information

These pages will lead you through the necessary steps to include the Enhanced Telephone Interconnect Solution to your ASTRO 25 7.17.3 systems and beyond. Please be sure to read each step and order carefully to assure the correct build of the product.

The ETI solution can be enabled to use legacy PSTN lines (analog and/or digital T1/E1) OR enabled as a Voice over Internet Protocol (VoIP) solution using a Session Initiation Protocol (SIP) control plane to the Zone Controller and a Real-Time Protocol (RTP) media stream from a new Telephone Media Gateway (TMG). These are industry standard protocols.

The ETI Solution allows a radio user of an ASTRO 7.17.3 systems and beyond to dial telephone numbers, cellular phones included, and initiate a half duplex phone conversation. Likewise, a landline/cellular user will be able to initiate half duplex calls to subscriber radios using one of two techniques:

1. A telephone user can directly dial a subscriber using a telephone number explicitly reserved for that subscriber radio.
2. A telephone user can dial a central number for the system and then use over-dialing to enter the subscriber ID to initiate the call.

ETI Capabilities

The ASTRO 25 system supports a maximum of one ETI subsystem per zone. The ETI

subsystem is located at a master site and is directly connected to the zone core. The maximum number of simultaneous calls supported by the ETI subsystem is 120, provided there are enough TMG's and other telephony resources (ex. Digital Media Gateways, Analog Media Gateways, licenses).

ETI System Planner:

The ETI System Planner is available at: [ETI System Planner](#). A list of supported functionalities is available in ETI System Planner.

The Enhanced Telephone Interconnect solution does not support the following:

- DID on analog lines
- Call Failure Announcements
- Phone calls to Talkgroups- only calls to individual subscribers are supported
- Audio Logging
- Conventional analog
- Digital Mutual Aid
- SmartX Site Converter (for 3600 remote sites)
- DSR Configurations (ETI will not switchover upon Master Core Failure)

Telephony Firewall Requirements: For every ETI solution that is configured to use SIP Trunking, a firewall **MUST** be purchased.

Ordering Requirements

The following information must be included on the order for all ETI solutions ordered:

*** The System ID - This would have been assigned when the original system was purchased.**

Note: ALL NEW ETI systems must ship through CCSI.

FIRST SECTION: ORDER FOR CAPACITY AND POSSIBLE ENCRYPTION

Step 1: Order the Master Enhanced Telephone Interface Model - **SQM01SUM0206A**

- This is the ETI core. Included is the capacity for 3 simultaneous calls and ability to expand. Included is also a single Telephone Media Gateway (TMG which also comes with a North American power cord(s)).

Step 2: [OPTIONAL] Order Additional Capacity - **CA01778AA**

- For each ETI solution, the customer can order additional capacity with the "Capacity

Option", each providing capacity for 3 additional simultaneous calls (see 2nd section for an explanation).

Step 3: [OPTIONAL] Order Encryption: If encryption is required for over-the-air security, select one type of optional encryption:

- CA00182AU AES Algorithm
- CA00143AE DES-OFB Algorithm
- CA00245AB ADP Algorithm
- CA00145AL DVI-XL Algorithm
- CA00146AM DVP-XL Algorithm
- CA00144AD DES-XL Algorithm

Note: Each encryption algorithm impacts the capacity of the Telephony Media Gateways (TMG) supplied with this solution. Multiple TMGs may be built in, depending upon capacity ordered. Each TMG is 1RU. The following are the capacities for each TMG respective to the algorithm:

- 15 simultaneous calls per TMG for DES-OFB, AES, ADP, or no encryption
- 12 simultaneous calls per TMG for DES-XL
- 6 simultaneous calls per TMG for DVI-XL or DVP-XL

Please consider rack/cabinet space depending upon how many TMG's are built with your order.

SECOND SECTION: ORDER IP PBX Server, LICENSING, AND OPTIONAL MEDIA GATEWAYS and FIREWALL

Step 4: First, order the server.

Second, order the license bundle, which comes with licensing for up to 3 simultaneous calls to add additional capacity.

a. Order the ETI IP PBX Server [NEC IP-PBX Bundle - 3 Line System(Server, OS,) NEC 3C Software Univerge - Includes 2 years support]- **TT3315**

b. Order the ETI IP PBX 3 Line Motorola J1TC Compliant Add-on to NEC IP-PBX Bundle(Includes 2 years support)- **TT3316**

Step 5: [OPTIONAL] Order additional capacity for 3 call lines (ETI licenses) - TT05501AA

For the ETI IP PBX, customers can order additional lines in bundles of 3. The capability of additional calls is determined by the TMG call capacity (CA01778AA) and IP PBX call licensing (TT05501AA). When ordering the additional capacity the quantity of TT05501AA and CA01778AA must be equal.

As an example, a system that requires 14 simultaneous calls will require:

- Quantity 4 TT05501AA to provide up to 12 additional IP PBX Licenses
- Quantity 4 CA01778AA to provide TMG call capacity for up to 12

Since three calls come standard with a new ETI order, Qty-4 of call (CA01778AA) and Qty-4 of license (TT05501AA) options will provide a total of 15 simultaneous calls.

For 3rd party Media Gateways be cautious of how many ports are in operation.

Note: Additional licenses ordered here **MUST** match the additional capacity ordered in Step 2 (CA01778AA).

Step 6: [OPTIONAL] Order Analog and/or Digital Media Gateways - TT3317, TT3318

Customers may choose to configure their ETI solution to support legacy lines, analog (TT05502AA) and/or digital (TT05503AA). If so, choose the appropriate Media Gateway(Analog or Digital). A maximum of 4 Media Gateways can be ordered per ETI IP PBX.

Note:

1. If the customer is ordering international AND connecting directly to the PSTN, please refer to the planner for type approval information on the part numbers, and contact product management for other type approval needs.
2. The ETI IP PBX is not supported by Motorola to be configured with both legacy (analog/digital) lines AND a direct SIP connection to CPE.

Step 7: Order mandatory certification option (Choose One).

- Non- JITC Certification for Analog/Digital Media Gateways - CVN7288A
- JITC Certification for Analog/Digital Media Gateways - CVN7289A

Step 8: Order Appropriate ETI firewall.

Customers utilizing SIP Trunking **MUST** purchase the ETI firewall. The firewall is required with 3rd party Media Gateways. The firewall is not necessary if customers utilize the digital or analog media gateways in Step 6.

Order the following firewall based on system need:

1. For a customer requiring a firewall, the Fortinet FG-101E firewall (T8586A) is the certified, telephony firewall.
2. For NGI systems, ETI will use the Fortinet FG-101E Firewall part of the overall system architecture.

Note: An international customer utilizing an alternate Media Gateway (i.e. a Media Gateway not offered by NEC) AND connecting directly to the PSTN **MUST** also order and utilize the appropriate firewall.

RELATED ACCESSORIES AND FIELD REPLACEMENT UNITS

For alternative cabinets or racks, please consider using:

- HDW, ASTRO MASTER SITE CABINET - **CVN6508A**
- RACK, 7.5' FRU - **THN1013A**

For alternative/replacement power cords (for the TMG), consider using:

- AC Line Cord, North America - **3082933N08**
- AC Line Cord, UK - **3082933N13**
- AC Line Cord, Continental Europe - **3082933N09**

Should a spare Telephony Media Gateway (TMG) for ETI be needed, please go through Steps 1 & 3 again, ordering:

- * quantity 1 **SQM01SUM0206A**
- * quantity 1 respective encryption (if any)

This will generate quantity 1 TMG - **CA01777AA**.

Configuration

Master Enhanced Telephone Interface Model

Description	Full Description	Nomenclature	APC	Price
ENHANCED TELEPHONE INTERCONNECT	-	SQM01SUM0206	281	\$25,000.00
NEC BASE SYSTEM IP PBX BUNDLE FOR 3 LINE SYSTEM PLUS 2 YR SUPPORT	-	TT3315	207	\$18,044.00
THREE LINE JITC COMPLIANT ADD-ON TO MSI BASE SYSTEM PLUS 2 YR MAIN	-	TT3316	207	\$18,044.00

MSI Certification

Choose ONE option (Mandatory)

NEC Media Gateways

Description	Full Description	Nomenclature	APC	Price
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NEC-ANALOG GATEWAY ANALOG GATEWAY 8	-	TT3317	207	\$8,000.00
NEC AUDIO CODES M800 DIGITAL TELEPH	-	TT3318	207	\$12,211.00

Options

Additional Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: CAPACITY FOR 3 CALL LINES	-	CA01778AA	281	\$12,000.00

Encryption

Description	Full Description	Nomenclature	APC	Price
ADD:AES ALGORITHM, ETI	-	CA00182AU	281	\$750.00
ADD: DES-OFB ALGORITHM, ETI	-	CA00143AE	281	\$750.00
ADD: ADP ALGORITHM, ETI	-	CA00245AB	281	\$750.00
ADD: DVI-XL ALGORITHM, ETI	-	CA00145AL	281	\$750.00
ADD: DVP-XL ALGORITHM, ETI	-	CA00146AM	281	\$750.00
ADD: DES-XL ALGORITHM, ETI	-	CA00144AD	281	\$750.00

Additional Licenses

Description	Full Description	Nomenclature	APC	Price
LICENSING, ADDITIONAL 3 SIM. LINES, 2 YRS SUPPORT	-	TT05501AA	207	\$3,240.00

Accessories

Firewall

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
VPM POWER SUPPLY MOUNTING KIT	Used primarily when the T7599 is used as a SmartX Site Converter. Holds up to three power supplies.	BLN1297	277	\$250.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	BLN1297	VPM POWER SUPPLY MOUNTING KIT	277	16
QUOTEDS	SCB	SQM01SUM0206	ENHANCED TELEPHONE INTERCONNECT	281	7
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
QUOTEDS	NCA	TT05501AA	LICENSING, ADDITIONAL 3 SIM. LINES, 2 YRS SUPPORT	207	3
QUOTEDS	NCA	TT05503AA	DIGITAL CARD (CAP. OF 24 LINES FOR T1 OR 30 FOR E1), 2 YRS SUPPORT	207	25
QUOTEDS	NCA	TT05509AA	ETI IP PBX SERVER, 3 SIM. LINES, 2 YRS SUPPORT	207	50
QUOTEDS	NCA	TT3315	NEC BASE SYSTEM IP PBX BUNDLE FOR 3 LINE SYSTEM PLUS 2 YR SUPPORT	207	30
QUOTEDS	NCA	TT3316	THREE LINE JITC COMPLIANT ADD-ON TO MSI BASE SYSTEM PLUS 2 YR MAIN	207	30

QUOTEDS	NCA	TT3317	NEC-ANALOG GATEWAY ANALOG GATEWAY 8	207	30
QUOTEDS	NCA	TT3318	NEC AUDIO CODES M800 DIGITAL TELEPH	207	30

Models

Master Enhanced Telephone Interface Model

Description	Full Description	Nomenclature	APC	Price
ENHANCED TELEPHONE INTERCONNECT	-	SQM01SUM0206	281	\$25,000.00

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eNodeB Band Class 14**Features**

GENERAL INFORMATION

The LTE Radio System is a modular system that enables Public Safety LTE (PS-LTE) and Mission Critical (MC) operators, amongst others, to address Mobile Broadband (MBB) driven opportunities and transform their radio access networks (RANs) by leveraging a multi-standard, multi-band and multi-layer architecture, as applicable. This is complemented by delivering industry-leading performance on the smallest site footprint with the lowest energy consumption. This system consists of hardware and software for radio, baseband, power and enclosure. The LTE Radio System is packaged for Indoor or Outdoor configurations, in AC or DC power, with scalable battery backup options. Antenna and site solutions complete these RAN offering and can be found under Product Catalog 'eNodeB Antenna' page and in Product Catalog 'Site Ancillary for Public Safety LTE,' respectively.

A baseline 3-sector eNB site consists of one baseband (BB) and three radios in Band 14 (B14). The radios are four-port radios. Each port is transmit/receive (Tx/Rx) capable. It is capable of up to 4X4 MIMO configuration (subject to HW and SW license enablement).

The cabinets, rack deployables or enclosures, are as follows:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620.
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. AC version available.
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620.
- Outdoor cabinet eNodeB Enclosure 6160 6620. AC version available.
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. AC version available.

- 3GPP Compliant Air Interface on LTE and LTE-Advanced.
- Standard Indoor and Outdoor Enclosures - Commercial grade zone 4 approved standard enclosures for indoor and outdoor deployments of PS LTE eNodeB
- Default configuration consists of
 - 3-sector eNB site, including one baseband (BB) and three radios in Band 14 (B14).
 - 5MHz UL and 5 MHz DL
 - Support for either 2-Transmit and 4-Receive (2T4R) or 4-Transmit and 4-Receive (4T4R)
 - To fully utilize 4T or 4R, additional quad antenna support features are required

 - Configurations with Basebands ((BBs) 5212 or 6620 with baseline capacity of 75 Mbps DL and 37.5 Mbps UL
 - Up to 40W of power configurable per radio
 - Base Software including the Basic Motorola VP

- Features are classified in value packages (VPs). Multiple features can be in a VP.

Sometimes, if applicable, VPs can be the feature's name itself.

- Basic Motorola VP including the following subset VPs (part of default configuration):
 - LTE Base Package
 - Differentiated Mobile Broadband
 - IPv6
 - Location Support
 - RAN Data Collection
 - Self-organizing Networks
 - VoLTE
 - High Speed UE

- CoMP VP
- VoLTE Performance VP
- CS Fallback VP
- High Load Handling VP
- 4X2 Downlink MIMO VP
- 4-way Receiver Diversity VP
- Integrated IP Security VP
- Secure OAM and Security Logging VP
- Large eNodeB VP
- Multicarrier Load Management VP
- Combined Cell VP
- Carrier Aggregation VP
- Maximum Cell Range, up to 100 km VP

Ordering Information

ORDERING REQUIREMENTS:

Best practices on RBS HW, SW, antenna and site solutions selection - The subsections in this page either provide the items needed or points to the page(s) where the items can be found to fulfill the following requirements to:

1. Determine base terminal equipment (BTE) requirements (LAN, fiber, MPLS...)
2. Determine site synchronization requirements (GPS eNB site and NTP at the core...)
3. Determine AC or DC, indoor or outdoor and battery backup time requirements
4. Select RBS and mounting options (as applicable)
5. Select RBS features (radio power, eNB capacity, channel BW requirements and optical features...)
6. Determine external alarm requirements.
7. Determine site solutions/ancillaries and antenna requirements
8. Determine surge protection and lightning (SPD for DC power and/or OVP for RF) requirements, based in RBS selection and site solution.

Unless otherwise specified, for RBS items and/or features or VPs, either Order Quantity 1 per site, or Order Quantity 1 per RRU is specified. When it is Order Quantity 1 per RRU and a default RBS model is selected, since the default RBS consists of 3 RRUs. Order Quantity 3, in total.

Alternatively, select a pre-configured package of the above items in the Enclosure 6160.

The MSI region must contact regional Ericsson to obtain a quote to have the eNodeBs commissioned. When requesting these services from Ericsson, the recommended software load is 18.Q4.3, which is compatible with the latest releases for LXN 6000, LXN 7100, LXN 8000, and LXN 81000. End of Support for this load from Ericsson is 2021-08-31. In 2020, the Broadband product team is certifying the latest Ericsson eNodeB release, which will be available in future off-ramps.

Configuration

BASE TERMINAL EQUIPMENT REQUIREMENTS:

If using Multi-protocol Label Switching (MPLS) termination, every eNodeB model requires a Base Terminal Equipment (BTE) device. Go to the "eNodeB L2 Switch" pCAT page to view the different options for this device.

DC power cable(s) will be required between the switch and the eNB if using copper for backhaul. Order Quantity One per BTE power supply:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	051	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

The Global Positioning System (GPS) receives a GPS timing signal that is used for synchronization of the eNodeB. GPS Antenna Kit consists of a GPS active antenna, GPS receiver unit, surge arrestor, grounding kit, sealing set, clamp kit, earthing cable, GPS mounting support. MSI RAN solution requires every eNodeB model to have a GPS kit. Order Quantity 1 per site of GPS Antenna Kit.

Based on site requirements 2 lengths of 1/4 " LDF will be needed (**ANT**| Nm -----1/4"LDF-----
-7/16DINm|**Lightning Protection**|7/16DINm ----- 1/4"LDF ----- SMAm|**GPS Rvr**) . Go to the Product Catalog "Transmission Line 1/4 Super Flexible Kits" page to order the feeder, based on the length required and the connectors, on both sides of the feeder.

If GPS mounting is needed for the GPS receiver unit, order Quantity 1 per site for the Din Rail Mounting Set.

Description	Full Description	Nomenclature	APC	Price
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GPS ANTENNA KIT	-	DDN1884	051	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	051	\$10.00

RBS INDOOR OR OUTDOOR ENVIRONMENT, POWER AND BATTERY BACKUP TIME REQUIREMENTS:

Site specifics on power plants will drive the power plant selection to be provided by the eNB.

The cabinets, rack deployables or enclosures are as follows to support the RBS selection, based on their indoor or outdoor suitability, DC or AC and battery backup availabilities:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620. DC version available.
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. Both DC and AC versions available. Battery backup in AC option.
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620. AC version available.
- Outdoor cabinet eNodeB Enclosure 6160 6620. AC version available. Battery backup included.
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. Both DC and AC version available. Battery backup in AC option.

Note that for outdoor configurations, BBS/BBU battery blocks are charged with -48V by the eNB (RBS) rectifiers. Therefore, when ordering a BBU/BBS RBS solution, an AC eNodeB should be selected. Note that PBC solutions are to be used for indoor DC configuration(s).

Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different options for this cabinet in its respective section(s).

RBS SELECTION:

The structure for B14 is based on either 2-Transmit, 4-Receive (2T4R) usage or 4-Transmit, 4-Receive (4T4R) usage in either DC or AC for outdoor or indoor configurations. The default RBS configuration comes with 3 remote radio units (RRUs), a radio for each sector, configurable to be radiating up to 40W per radio. It also comes standard with basic Motorola Value Pack covering 3 sectors. For mounting options for the RRUs, please refer to the Product Catalog 'Site Ancillary' page.

For customers that want to initially prepare for or deploy 4T4R, choose the 4T4R configuration.

For customers that want to initially deploy 2T2R or 2T4R, choose the 2T4R configuration.

*If the customer later chooses to deploy the additional 2T for 4T4R configuration, a HW license is required, That is, in addition to SW features for using spatial multiplexing or transmit diversity with 4-Transmit Ports. The HW license to upgrade to 4T4R is:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

OUTDOOR CONFIGURATIONS (DC):

4T4R configuration RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3245	051	\$73,450.00

For mounting the site over the generic base frame (GBF) which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

2T4R configuration RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R 6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MHZ	-	TT3250	051	\$46,790.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

*HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R	-	DDN2421	051	\$8,890.00

CAPACITY IN RADIO 4478 B14 (PER RADIO)				
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4T4R configuration RBS6301:

Order quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	051	\$72,960.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

2T4R configuration RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	051	\$46,300.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
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WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00
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For mounting the site over the GBF, which itself connects to the site ground, use the following.
Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

**HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

OUTDOOR CONFIGURATIONS (AC):

2T2R configuration Enclosure 6160:

Order quantity 1 of TT3702A for an eNodeB in an Enclosure 6160 with baseband 6620.

Each TT3702A model is a package is comprised of the Enclosure 6160, Two 6613 Li 50Ah battery packs, Three Radio 4478 with HWAC and installation material, one Baseband 6620 with installation material, and LTE Base and Value Packages (10MHz+10MHz and 40W sector power), an additional rectifier for redundancy, the fiber overlength unit, shelf for the single 100Ah battery string, 3 SPDs for the RRU power cables and DIN rail for mounting. Detailed BOM for TT3702A with quantities follow:

- AC SPD 1
- Battery breaker 2pol 200A (max. 250A) 1
- Enclosure 6160 AC 1
- DC Cables to Basebands 1,5m 1
- Cylinder lock 1
- Grounding cable set, 6 m 1
- DC Heater Enclosure 6160 1
- DC Output Bullet CB w Alarm 15A 1
- DC Output Bullet CB w Alarm 25A 3
- Outdoor power cable, 50 mm2, 9 M 1
- Service Outlet Enclosure 6160/6360 1
- Dummy plate Rectifier 7
- Generic Base Frame Enclosure 6160 1
- Rectifier 230VAC, 3.5kW 6160/6360 2
- Smoke detector Enclosure 6160/6360 1
- Temp sensor 10m (Use SP-KET 109 70/2 for spare parts) 1

- Laptop shelf/optical fiber storage 1
- Battery 6613 Li 50Ah 2U 2C UL 2
- Battery cable 0VDC 2
- Battery cable -48VDC 2
- Communication cable 1
- L-Support 2
- Radio 4478 (4T4R) (incl. 20 W Total Output Power) 3
- Circular Power cable connector 2-pos 10mm2 3
- 2-wire DC Adapter 3
- Common Installation material - Main remote 1
- Marking Set Main Remote 3-Sector 1
- Sealing Set, Feeder Connectors 6
- SFP+ SM 10.3Gb/s 1.4km 1310nm 6
- 16mm2, GNYE, 2m, 1 lug with 2 M6 holes, angle 90 3
- Single ERS Steel Bracket, pole/wall 3
- Bandwidth 5+5 MHz 6
- Output Power HWAC 20W incr.steps (per RU) 3
- Baseband 6620 incl. 75Mbps DL / 37 Mbps UL 1
- SIGNAL CABLE 1
- External Alarm Cable, 15m (MU) 2
- MOUNTING SET/RACK SCREW KIT 1
- ALM 8 1
- SIGNAL CABLE (Use SP-RPM 777 143/00750 for spare parts) 2
- Motorola Basic Package 3
- Secure OAM and Security Logging 3
- VoLTE Performance 3
- Integrated IP Security 3

Outdoor Configurations (AC):

4T4R configuration RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3245	051	\$73,450.00
-48V DC TO 230VAC FOR RBS 6101	-	DDN2426	051	\$2,240.00

A global base frame is required for non-battery backup solutions. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

If battery backup is required, order Quantity 1 per site of the following. Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different options for this cabinet in its respective section(s):

Description	Full Description	Nomenclature	APC	Price
PREPARE OUTDOOR AC 1BAY ENODEB FOR	-	DDN2665	051	\$570.00

If BBS6101 is selected as a battery backup solution, order Quantity 2 per site of the following. One for the RBS6101 cabinet, one for the BBS6101 enclosure:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

2T4R configuration RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R 6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MHZ	-	TT3250	051	\$46,790.00
-48V DC TO 230VAC FOR RBS 6101	-	DDN2426	051	\$2,240.00

If battery backup is not required, order Quantity 1 per site of the following:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

If battery backup is required, order Quantity 1 per site of the following> Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different battery backup options for this cabinet in its respective section(s):

Description	Full Description	Nomenclature	APC	Price
PREPARE OUTDOOR AC 1BAY ENODEB FOR	-	DDN2665	051	\$570.00

If BBS6101 is selected as a battery backup solution, order Quantity 2 per site of the following.

One for the RBS6101 cabinet, one for the BBS6101 enclosure:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

**HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

4T4R configuration RBS 6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	051	\$72,960.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	051	\$2,100.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following.
Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

2T4R configuration RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	051	\$46,300.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	051	\$2,100.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following.
Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

****HW license upgrade to 4T4R. Order Quantity 1 per RRU:**

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

4T4R configuration Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price

6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3246	051	\$73,540.00
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Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different battery backup options for this cabinet in its respective section(s).

2T4R configuration Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 5+5 MHZ	-	TT3251	051	\$46,890.00

Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different battery backup options for this cabinet in its respective sections(s).

**HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

4T4R configuration BB6620 with RRU:

Order Quantity 1 per site:2

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3249	051	\$70,660.00

Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different battery backup options for this cabinet in its respective section(s).

If a 19" rack is needed, the following 2.35 ft. rack in height can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price

RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	051	\$120.00
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2T4R Configuration BB6620 with RRUs:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 5+5 MHZ	-	TT3254	051	\$44,000.00

Go to Product Catalog 'eNodeB Battery Backup' page to order, based on the different battery backup options for this cabinet in its respective section(s).

If a 19" rack is needed, the following 2.35 foot rack in height can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	051	\$120.00

****HW license upgrade to 4T4R. Order Quantity 1 per RRU:**

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	051	\$8,890.00

All the following features or VPs are priced per sector and per 20 MHz carrier (order Quantity 1 per RRU):

Basic Motorola Value Pack:

License to Increase Throughput (75 Mbps CL/37.5 Mbps UL Increment)

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	051	\$3,170.00

License to Increase Bandwidth by 5+5 MHz Increment

License to Increment Radio Power by 20W

Order Quantity 1 per RRU:

All the following features or VPs are priced per sector and per 20MHz carrier (order Quantity 1 per RRU):

Support for IP Security:

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	051	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	051	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	051	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	051	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	051	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	051	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	051	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	051	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	051	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	051	\$780.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	051	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	051	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	051	\$1,810.00

External Alarm Requirements:

If the operator requires that external alarms be interconnected through the eNodeB, then a System Alarm Unit (SAU) must be purchased.

For the eNodeB types, one can have up to 32 separate external alarms. Order Quantity 1 of DDN1431 per site for 8 external alarms. In addition, order Quantity 1 per site of DDN1434 as an option, if requirement is for 32 external alarms.

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	051	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	051	\$130.00

SITE SOLUTIONS, ANTENNAS AND ANCILLARIES REQUIREMENTS:

Go to Product Catalog 'Site Ancillary for Public Safety LTE' for ancillary items and associated ordering rules. Go to Product Catalog 'eNodeB Antenna' page for antennas.

SURGE PROTECTION REQUIREMENTS:

As power is fed separately on copper cables, surge protection on the DC cables between the BB and RRU near the eNB requires Surge Protection Device (SPD) kits. Note that SPDs differ among the RBS models as follows.

For the outdoor RBS 6101 or RBS 6301 eNodeB types, order Quantity 1 of the SPD kit.

Description	Full Description	Nomenclature	APC	Price
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SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	051	\$120.00
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For the Indoor BB6620 with RRUs, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	051	\$290.00

The RRUs themselves are equipped with SPDs for (i) overvoltage/overcurrent protection for the external alarm ports (ii) overvoltage/overcurrent protection for the ALD (RET) port, and (iii) DC power input protection from lightning currents.

Spares

NOTE: Recommended quantities are one per market, except for the Baseband and Remote Radio Unit, which are 1 for every 50 hardware units deployed.

RBS6101 and RBS6301

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	051	\$15,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	051	\$15,050.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	051	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00

RBS6135 and BB6620 with RRUs

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	051	\$10,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	051	\$15,050.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN1335	SET OF MATERIALS/DIN RAIL MOUNTING SET	051	80
QUOTEDS	ERS	DDN1431	SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	051	80
QUOTEDS	ERS	DDN1432	EXTERNAL ALARM OVP (8 PORTS) FOR SAU (MAX 4 PER OUTDOOR ENB)	051	80
QUOTEDS	ERS	DDN1433	DISTRIBUTION FRAME/DF-OVP FOR SAU (INDOOR)	051	80
QUOTEDS	ERS	DDN1434	SAU KIT, DF-OVP V3, 10M (32 ALARMS)	051	80
QUOTEDS	ESC	DDN1884	GPS ANTENNA KIT	051	80
QUOTEDS	ERS	DDN2042	EXTENDED CELL RANGE FROM 15 TO 30 KM	051	80
QUOTEDS	ERS	DDN2062	EXTENDED CELL RANGE FROM 30 TO 100 KM	051	80
QUOTEDS	ERS	DDN2401	WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	051	80
QUOTEDS	ERS	DDN2402	GENERIC BASE FRAME FOR RBS 6301 AND	051	80
QUOTEDS	ERS	DDN2403	DC SURGE PROTECTION, 3 RRU	051	80

QUOTEDS	ERS	DDN2421	HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	051	80
QUOTEDS	ERS	DDN2422	COORDINATED MULTIPOINT TRANSMISSION FEATURE	051	80
QUOTEDS	ERS	DDN2423	LARGE ENODEB FEATURE	051	80
QUOTEDS	ERS	DDN2424	MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	051	80
QUOTEDS	ERS	DDN2425	CARRIER AGGREGATION FEATURE	051	80
QUOTEDS	ERS	DDN2426	-48V DC TO 230VAC FOR RBS 6101	051	80
QUOTEDS	ESC	DDN2427	-48V DC TO 230VAC FOR RBS 6201	051	80
QUOTEDS	ERS	DDN2428	-48V DC TO 230VAC FOR RBS 6301	051	80
QUOTEDS	ERS	DDN2429	GBF 6101 BASE FRAME, SIDE INLETS	051	80
QUOTEDS	ERS	DDN2447	RACK FRAME 19, BASIC KIT WALL, 16U	051	80
QUOTEDS	ESC	DDN2448	SECURE OAM AND SECURITY LOGGING	051	80
QUOTEDS	ERS	DDN2449	COMBINED CELL	051	80
QUOTEDS	ERS	DDN2450	5212/6620 HW UTILIZATION PACKAGE 75	051	80
QUOTEDS	ERS	DDN2471	DC POWER CABLE 2-POLE OPEN END 1.5	051	80
QUOTEDS	ERS	DDN2472	DISTRIBUTION FRAME/DF-OVP	051	80
QUOTEDS	ERS	DDN2473	SPD KIT, 1 RRU, 5 M	051	80
QUOTEDS	ERS	DDN2474	SPD KIT, 1 RRU, 10 M	051	80
QUOTEDS	ERS	DDN2594	PDU 03 01, POWER DISTRIBUTION	051	80

			UNIT		
QUOTEDS	ERS	DDN2595	GPS 03 01, GPS RECEIVER UNIT	051	80
QUOTEDS	ERS	DDN2596	SURGE PROTECTION DEVICE, SPD KIT -4	051	80
QUOTEDS	ERS	DDN2665	PREPARE OUTDOOR AC 1BAY ENODEB FOR	051	80
DRPSHP	SCB	T7770	LTE SIM Card	057	70
QUOTEDS	ERS	TT2763	4 WAY RECEIVE DIVERSITY SOFTWARE	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT3092	HIGH LOAD HANDLING	051	80
QUOTEDS	ERS	TT3093	CS FALLBACK	051	80
QUOTEDS	ERS	TT3094	MULTICARRIER LOAD MANAGEMENT	051	80
QUOTEDS	ERS	TT3095	4 X 2 DOWNLINK MIMO	051	80
QUOTEDS	ERS	TT3096	SHARED NETWORKS	051	80
QUOTEDS	ERS	TT3240	RADIO 4478 B14 (700MHZ), US SPEC, 2	051	80
QUOTEDS	ERS	TT3245	6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3246	6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3247	6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	051	80

QUOTEDS	ERS	TT3248	6201 INDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3249	6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3250	2T4R 6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MHZ	051	80
QUOTEDS	ERS	TT3251	2T4R LIMIT 6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 5+5 MHZ	051	80
QUOTEDS	ERS	TT3252	2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	051	80
QUOTEDS	ERS	TT3253	2T4R LIMIT 6201 INDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MHZ	051	80
QUOTEDS	ERS	TT3254	2T4R LIMIT 6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 5+5 MHZ	051	80
QUOTEDS	ERS	TT3300	SPARE BASEBAND 5212 INITIAL HW PACK	051	80
QUOTEDS	ERS	TT3301	SPARE BASEBAND 6620 INITIAL HW PACK	051	80

JUMP TO ...[MODEL](#)[FEATURES](#)[CONFIGURATION](#)[SHIP CARD](#)**MODEL**

eNodeB Band Class 20**Features**

General Information

The LTE Radio System is a modular system that enables Public Safety-LTE (PS-LTE) and Mission Critical (MC) Operators, amongst others, address Mobile Broadband (MBB) driven opportunities and transform their radio access networks (RANs) by leveraging a multi-standard, multi-band and multi-layer (as applicable) architecture. This is complemented by delivering industry-leading performance on the smallest site footprint with the lowest energy consumption. This system consists of hardware and software for radio, baseband, power and enclosure. The LTE Radio System is packaged for Indoor or Outdoor configurations, in AC or DC power with scalable battery backup options. Antenna and site solutions complete these RAN offerings and can be found under Antenna System (please refer to "Public Safety LTE" eCAT page under the Radio Access Network/Antenna System) and Site Ancillary (please refer to "Public Safety LTE" eCAT page under the Radio Access Network/Site Ancillary), respectively.

A baseline 3-sector eNB site consists of one baseband (BB) and three radios in Band-20. The radios are two port radios. Each port is transmit/receive (Tx/Rx) capable for upto 2x2 MIMO configuration per radio. Note that while the radio covers the span of the specified bands, licenses are required to support the necessary channel bandwidth requirements.

The cabinets, rack deployables or enclosures are as follows:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. AC version available
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. AC version available.

Feature Inclusions:

- 3GPP Compliant Air Interface on LTE and LTE-Advanced
- Standard Indoor and Outdoor Enclosures - Commercial grade zone 4 approved standard enclosures for indoor and outdoor deployments of PS LTE eNodeB
- Default configuration consists of:
 - 3-sector eNB site including one baseband (BB) and three radios in Band-20.
 - 5 MHz UL and 5 MHz DL
 - Support for 2-Transmit and 2-Receive (2T2R)
 - Configurations with Basebands (BBs) 5212 or 6620 with baseline capacity of 75

Mbps DL and 37.5 Mbps UL

- o Up to 40W of power configurable per radio
- o Base Software including the Basic Motorola VP
- Features are classified in value packages (VPs). Multiple features can be in a VP. Sometimes, if applicable, VPs can be the feature's name itself.
 - o Basic Motorola VP including the following subset VPs (part of default configuration):
 - § LTE Base Package
 - § Differentiated Mobile Broadband
 - § IPv6
 - § Location Support
 - § RAN Data Collection
 - § Self-Organizing Networks
 - § VoLTE
 - § High Speed UE
 - o CoMP VP
 - o VoLTE Performance VP
 - o CS Fallback VP
 - o High Load Handling VP
 - o 4x2 Downlink MIMO VP
 - o 4-Way Receiver Diversity VP
 - o Shared Networks VP
 - o Integrated IP Security VP
 - o Secure OAM and Security Logging VP
 - o Large eNodeB VP
 - o Multicarrier Load Management VP
 - o Combined Cell VP
 - o Carrier Aggregation VP
 - o Maximum Cell Range, up to 100 km VP
 - o Extended Cell Range 15-30 km VP

Ordering Information

Ordering Requirements:

Best practice on RBS HW, SW, antenna and site solutions selection - The sub-sections in this page either provide the items needed or points to the page(s) where the items can be found to fulfill the following requirements to:

- 1) Determine base terminal equipment (BTE) requirements (LAN, fiber, MPLS...)
- 2) Determine site synchronization requirements (GPS eNB site and NTP at the core...)
- 3) Determine AC or DC, indoor or outdoor and battery backup time requirements
- 4) Select RBS and mounting options (as applicable)
- 5) Select RBS features (radio power, eNB capacity, channel BW requirements and optional features...)
- 6) Determine external alarm requirements
- 7) Determine site solutions/ancillaries and antenna requirements
- 8) Determine surge protection and lightning (SPD for DC power and/or OVP for RF) requirements based on RBS selection and site solution

Unless otherwise specified, for RBS items and/or features or VPs, either order quantity 1 per site or order quantity 1 per RRU is specified. When it is order quantity 1 per RRU and a default RBS model is selected, since the default RBS consists of 3 RRUs, Order quantity 3 in total.

The MSI region must contact regional Ericsson to obtain a quote to have the eNodeBs commissioned. When requesting these services from Ericsson, the recommended software load is 18.Q4.3, which is compatible with the latest releases for LXN 6000, LXN 7100, LXN 8000, and LXN 81000. End of Support for this load from Ericsson is 2021-08-31. In 2020, the Broadband product team is certifying the latest Ericsson eNodeB release, which will be available in future off-ramps.

Configuration

BASE TERMINAL EQUIPMENT REQUIREMENTS:

If using Multi-protocol Label Switching (MPLS) termination, every eNodeB model requires a Base Terminal Equipment (BTE) device. Go to the "eNodeB L2 Switch" pCAT page to view the different options for this device.

DC power cable(s) will be required between the switch and the eNB if using copper for

backhaul. Order Quantity One per BTE power supply:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	051	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

The Global Positioning System (GPS) receives a GPS timing signal that is used for synchronization of the eNodeB. GPS Antenna Kit consists of a GPS active antenna, GPS receiver unit, surge arrestor, grounding kit, sealing set, clamp kit, earthing cable, GPS mounting support. MSI RAN solution requires every eNodeB model to have a GPS kit. Order Quantity 1 per site of GPS Antenna Kit.

Based on site requirements 2 lengths of 1/4 " LDF will be needed (**ANT**| Nm -----1/4"LDF-----
-7/16DINm|**Lightning Protection**|7/16DINm ----- 1/4"LDF ----- SMAm|**GPS Rvr**) . Go to the Product Catalog "Transmission Line 1/4 Super Flexible Kits" page to order the feeder, based on the length required and the connectors, on both sides of the feeder.

If GPS mounting is needed for the GPS receiver unit, order Quantity 1 per site for the Din Rail Mounting Set.

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	051	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	051	\$10.00

RBS INDOOR OR OUTDOOR ENVIRONMENT, POWER AND BATTERY BACKUP TIME REQUIREMENTS:

Site specifics on power plants will drive the power plant selection to be provided by the eNB.

The cabinets, rack deployables or enclosures are as follows to support the RBS selection, based on their indoor or outdoor suitability, DC or AC and battery backup availabilities:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620. DC version available.
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. Both DC and AC versions available. Battery backup in AC option.
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620. AC version available.
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. Both DC and AC version available. Battery backup in AC option.

Note that for outdoor configurations, BBS/BBU battery blocks are charged with -48V by the eNB

(RBS) rectifiers. Therefore, when ordering a BBU/BBS RBS solution, an AC eNodeB should be selected. Note that PBC solutions are to be used for indoor DC configuration(s).

Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different options for this cabinet in its respective section(s).

RBS SELECTION:

The structure for B20 is based on either 2-Transmit, 2-Receive (2T2R) usage in either DC or AC for outdoor or indoor configurations. The default RBS configuration comes with 3 remote radio units (RRUs), a radio for each sector, configurable to be radiating up to 40W per radio. It also comes standard with basic Motorola Value Pack covering 3 sectors. For mounting options for the RRUs, please refer to the Product Catalog "Site Ancillary for Public Safety LTE" page.

OUTDOOR CONFIGURATIONS (DC):

RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3265	051	\$48,020.00

For mounting the site over the generic base frame (GBF) which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

RBS6301:

Order quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	051	\$47,530.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
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WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00
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For mounting the site over the GBF, which itself connects to the site ground, use the following.
Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

OUTDOOR CONFIGURATIONS (AC):

RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3265	051	\$48,020.00
-48V DC TO 230VAC FOR RBS 6101	-	DDN2426	051	\$2,240.00

A global base frame is required for non-battery backup solutions. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

If battery backup is required, order Quantity 1 per site of the following. Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different options for this cabinet in its respective section(s):

Description	Full Description	Nomenclature	APC	Price
PREPARE OUTDOOR AC 1BAY ENODEB FOR	-	DDN2665	051	\$570.00

If BBS6101 is selected as a battery backup solution, order Quantity 2 per site of the following, one for the RBS6101 cabinet, one for the BBS6101 enclosure:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	051	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	051	\$2,100.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

Power 6135:

Order Quantity 1 per site:

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Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3266	051	\$48,120.00

Go to the Product Catalog page "eNodeB Battery Backup" to order, based on the different battery backup options for this cabinet in its respective sections(s).

Indoor Configurations (DC):

Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different battery backup options for this cabinet in its respective sections(s).

BB6220 with RRU:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3269	051	\$43,790.00

Go to the Product Catalog page "eNodeB Battery Backup" to order, based on the different battery backup options for this cabinet in its respective sections(s).

If a 19" rack is needed, the following 2.35 ft. rack (in height) can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	051	\$120.00

FEATURE SELECTION:

All the following features or VPs are priced per sector and per 20 MHz carrier (order quantity 1 per RRU):

License to Increase Bandwidth by 5+5 MHz Increment

Order Quantity 1 per RRU:

License to Increment Radio Power by 20W

Order Quantity 1 per RRU:

All the following features or VPs are priced per sector and per 20MHz carrier (order

Quantity 1 per RRU):

Support for IP Security:

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	051	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	051	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	051	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	051	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	051	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
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4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	051	\$1,000.00
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Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	051	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	051	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	051	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	051	\$780.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	051	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	051	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	051	\$1,810.00

EXTERNAL ALARM REQUIREMENTS:

If the operator requires that external alarms be interconnected through the eNodeB, then a System Alarm Unit (SAU) must be purchased.

For the eNodeB types, one can have up to 32 separate external alarms. Order Quantity 1 of DDN1431 per site for 8 external alarms. In addition, order Quantity 1 per site of DDN 1434 as an option, if the requirement is for 32 external alarms

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	051	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	051	\$130.00

SITE SOLUTIONS, ANTENNAS AND ANCILLARIES REQUIREMENTS:

Go to the Product Catalog page "Site Ancillary for Public Safety LTE" for ancillary items and associated ordering rules. Go to the Product Catalog "eNodeB Antenna" page for antennas.

SURGE PROTECTION REQUIREMENTS:

As power is fed separately on copper cables, surge protection on the DC cables between the BB and RRU near the eNB requires Surge Protection Device (SPD) kits. Note that SPDs differ among the RBS models as follows.

For the outdoor RBS 6101 or RBS 6301 eNodeB types, order Quantity 1 of the SPD kit.

Description	Full Description	Nomenclature	APC	Price
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	051	\$120.00

For the Indoor BB6620 with RRUs, order Quantity 1 per site of DDN2403 DC Surge Protection,

assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	051	\$290.00

The RRUs themselves are equipped with SPDs for (i) overvoltage/overcurrent protection for the external alarm ports (ii) overvoltage/overcurrent protection for the ALD (RET) port, and (iii) DC power input protection from lightning currents.

Spares

NOTE: Recommended quantities are one per market, except for the Baseband and Remote Radio Unit, which are 1 for every 50 hardware units deployed. For the fan tray, it is recommended to procure Quantity 1 for every 10 radios deployed.

RBS6101 and RBS6301

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	051	\$15,820.00
SPARE RADIO 2217 B20	-	TT3303	051	\$6,580.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	051	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00
FAN TRAY, 24 VDC, 1,0 A	-	DDN2593	051	\$1,720.00

ENCLOSURE 6135 and BB6620 with RRUs

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	051	\$10,820.00
SPARE RADIO 2217 B20	-	TT3303	051	\$6,580.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00
FAN TRAY, 24 VDC, 1,0 A	-	DDN2593	051	\$1,720.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN1335	SET OF MATERIALS/DIN RAIL MOUNTING SET	051	80
QUOTEDS	ERS	DDN1431	SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	051	80
QUOTEDS	ERS	DDN1432	EXTERNAL ALARM OVP (8 PORTS) FOR SAU (MAX 4 PER OUTDOOR ENB)	051	80
QUOTEDS	ERS	DDN1433	DISTRIBUTION FRAME/DF-OVP FOR SAU (INDOOR)	051	80
QUOTEDS	ERS	DDN1434	SAU KIT, DF-OVP V3, 10M (32 ALARMS)	051	80
QUOTEDS	ESC	DDN1884	GPS ANTENNA KIT	051	80
QUOTEDS	ERS	DDN2042	EXTENDED CELL RANGE FROM 15 TO 30 KM	051	80
QUOTEDS	ERS	DDN2062	EXTENDED CELL RANGE FROM 30 TO 100 KM	051	80
QUOTEDS	ERS	DDN2401	WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	051	80
QUOTEDS	ERS	DDN2402	GENERIC BASE FRAME FOR RBS 6301 AND	051	80
QUOTEDS	ERS	DDN2403	DC SURGE PROTECTION, 3 RRU	051	80

QUOTEDS	ERS	DDN2422	COORDINATED MULTIPOINT TRANSMISSION FEATURE	051	80
QUOTEDS	ERS	DDN2423	LARGE ENODEB FEATURE	051	80
QUOTEDS	ERS	DDN2424	MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	051	80
QUOTEDS	ERS	DDN2425	CARRIER AGGREGATION FEATURE	051	80
QUOTEDS	ERS	DDN2426	-48V DC TO 230VAC FOR RBS 6101	051	80
QUOTEDS	ESC	DDN2427	-48V DC TO 230VAC FOR RBS 6201	051	80
QUOTEDS	ERS	DDN2428	-48V DC TO 230VAC FOR RBS 6301	051	80
QUOTEDS	ERS	DDN2429	GBF 6101 BASE FRAME, SIDE INLETS	051	80
QUOTEDS	ERS	DDN2447	RACK FRAME 19, BASIC KIT WALL, 16U	051	80
QUOTEDS	ESC	DDN2448	SECURE OAM AND SECURITY LOGGING	051	80
QUOTEDS	ERS	DDN2449	COMBINED CELL	051	80
QUOTEDS	ERS	DDN2450	5212/6620 HW UTILIZATION PACKAGE 75	051	80
QUOTEDS	ERS	DDN2471	DC POWER CABLE 2-POLE OPEN END 1.5	051	80
QUOTEDS	ERS	DDN2472	DISTRIBUTION FRAME/DF-OVP	051	80
QUOTEDS	ERS	DDN2473	SPD KIT, 1 RRU, 5 M	051	80
QUOTEDS	ERS	DDN2474	SPD KIT, 1 RRU, 10 M	051	80
QUOTEDS	ERS	DDN2593	FAN TRAY, 24 VDC, 1,0 A	051	80
QUOTEDS	ERS	DDN2594	PDU 03 01, POWER DISTRIBUTION UNIT	051	80

QUOTEDS	ERS	DDN2595	GPS 03 01, GPS RECEIVER UNIT	051	80
QUOTEDS	ERS	DDN2596	SURGE PROTECTION DEVICE, SPD KIT -4	051	80
QUOTEDS	ERS	DDN2665	PREPARE OUTDOOR AC 1BAY ENODEB FOR	051	80
QUOTEDS	ERS	TT2763	4 WAY RECEIVE DIVERSITY SOFTWARE	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT3092	HIGH LOAD HANDLING	051	80
QUOTEDS	ERS	TT3093	CS FALLBACK	051	80
QUOTEDS	ERS	TT3094	MULTICARRIER LOAD MANAGEMENT	051	80
QUOTEDS	ERS	TT3095	4 X 2 DOWNLINK MIMO	051	80
QUOTEDS	ERS	TT3096	SHARED NETWORKS	051	80
QUOTEDS	ERS	TT3265	6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3266	6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3267	6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3268	6201 INDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3269	6620 INDOOR -48VDC 3SECTOR, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	051	80

QUOTEDS	ERS	TT3300	SPARE BASEBAND 5212 INITIAL HW PACK	051	80
QUOTEDS	ERS	TT3301	SPARE BASEBAND 6620 INITIAL HW PACK	051	80
QUOTEDS	ERS	TT3303	SPARE RADIO 2217 B20	051	80

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eNodeB Band Class 26**FEATURES**

GENERAL INFORMATION

The LTE Radio System is a modular system that enables Public Safety LTE (PS-LTE) and Mission Critical (MC) operators, amongst others, to address Mobile Broadband (MBB) driven opportunities and transform their radio access networks (RANs) by leveraging a multi-standard, multi-band and multi-layer architecture, as applicable. This is complemented by delivering industry-leading performance on the smallest site footprint with the lowest energy consumption. This system consists of hardware and software for radio, baseband, power and enclosure. The LTE Radio System is packaged for Indoor or Outdoor configurations, in AC or DC power, with scalable battery backup options. Antenna and site solutions complete these RAN offering and can be found on Product Catalog page "eNodeB Antenna" and Product Catalog page "Site Ancillary for Public Safety LTE".

A baseline 3-sector eNB site consists of one baseband (BB) and three radios in Band 26D (B26D) UL:814-835, DL:859-880 MHz.. The radios are two-port radios. Each port is transmit/receive (Tx/Rx) capable for up to 2X2 MIMO configuration per radio. Note that while the radio covers the span of the specified bands, licenses are required to support the necessary channel bandwidth requirements.

The cabinets, rack deployables or enclosures, are as follows:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620.
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. AC version available.
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620.
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. AC version available.

FEATURE INCLUSIONS

- 3GPP Compliant Air Interface on LTE and LTE-Advanced.
- Standard Indoor and Outdoor Enclosures - Commercial grade zone 4 approved standard enclosures for indoor and outdoor deployments of PS LTE eNodeB
- Default configuration consists of
 - 3-sector eNB site, including one baseband (BB) and three radios in Band 26 (B26).
 - 5MHz UL and 5 MHz DL
 - Support for either 2-Transmit and 4-Receive (2T4R) or 4-Transmit and 4-Receive (4T4R)
 - To fully utilize 4T or 4R, additional quad antenna support features are required
- Configurations with Basebands ((BBs) 5212 or 6620 with baseline capacity of 75 Mbps DL and 37.5 Mbps UL
- Up to 40W of power configurable per radio
- Base Software including the Basic Motorola VP

- Features are classified in value packages (VPs). Multiple features can be in a VP. Sometimes, if applicable, VPs can be the feature's name itself.
 - Basic Motorola VP including the following subset VPs (part of default configuration):
 - LTE Base Package
 - Differentiated Mobile Broadband
 - IPv6
 - Location Support
 - RAN Data Collection
 - Self-organizing Networks
 - VoLTE
 - High Speed UE
 - CoMP VP
 - VoLTE Performance VP
 - CS Fallback VP
 - High Load Handling VP
 - 4X2 Downlink MIMO VP
 - 4-way Receiver Diversity VP
 - Integrated IP Security VP
 - Secure OAM and Security Logging VP
 - Large eNodeB VP
 - Multicarrier Load Management VP
 - Combined Cell VP
 - Carrier Aggregation VP
 - Maximum Cell Range, up to 100 km VP

Ordering Information

Best practices on RBS HW, SW, antenna and site solutions selection - The subsections in this page either provide the items needed or points to the page(s) where the items can be found to fulfill the following requirements to:

1. Determine base terminal equipment (BTE) requirements (LAN, fiber, MPLS...)
2. Determine site synchronization requirements (GPS eNB site and NTP at the core...)
3. Determine AC or DC, indoor or outdoor and battery backup time requirements
4. Select RBS and mounting options (as applicable)
5. Select RBS features (radio power, eNB capacity, channel BW requirements and optical features...)
6. Determine external alarm requirements.
7. Determine site solutions/ancillaries and antenna requirements
8. Determine surge protection and lightning (SPD for DC power and/or OVP for RF) requirements, based in RBS selection and site solution.

Unless otherwise specified, for RBS items and/or features or VPs, either order Quantity 1 per site, or order Quantity 1 per RRU is specified. When it is Order Quantity 1 per RRU and a default RBS model is selected, since the default RBS consists of 3 RRUs. Order Quantity 3, in total.

The MSI region must contact regional Ericsson to obtain a quote to have the eNodeBs commissioned. When requesting these services from Ericsson, the recommended software load is 18.Q4.3, which is compatible with the latest releases for LXN 6000, LXN 7100, LXN 8000, and LXN 81000. End of Support for this load from Ericsson is 2021-08-31. In 2020, the Broadband product team is certifying the latest Ericsson eNodeB release, which will be available in future off-ramps.

Configuration

Ordering Requirements and Models

BASE TERMINAL EQUIPMENT REQUIREMENTS:

If using Multi-protocol Label Switching (MPLS) termination, every eNodeB model requires a Base Terminal Equipment (BTE) device. Go to the "eNodeB L2 Switch" pCAT page to view the different options for this device.

DC power cable(s) will be required between the switch and the eNB if using copper for backhaul. Order Quantity One per BTE power supply:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	051	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

The Global Positioning System (GPS) receives a GPS timing signal that is used for synchronization of the eNodeB. GPS Antenna Kit consists of a GPS active antenna, GPS receiver unit, surge arrestor, grounding kit, sealing set, clamp kit, earthing cable, GPS mounting support. MSI RAN solution requires every eNodeB model to have a GPS kit. Order Quantity 1 per site of GPS Antenna Kit.

Based on site requirements 2 lengths of 1/4 " LDF will be needed (**ANT| Nm -----1/4"LDF-----
-7/16DINm|Lightning Protection|7/16DINm ----- 1/4"LDF ----- SMAm|GPS Rvr**) . Go to the Product Catalog "Transmission Line 1/4 Super Flexible Kits" page to order the feeder, based on the length required and the connectors, on both sides of the feeder.

If GPS mounting is needed for the GPS receiver unit, order Quantity 1 per site for the Din Rail Mounting Set.

Description	Full Description	Nomenclature	APC	Price

GPS ANTENNA KIT	-	DDN1884	051	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	051	\$10.00

Based on site requirements, a 1/4" feeder with N-Type Male connectors at both sides of the feeder would be required between the surge arrestor and the GPS active antenna. Go to the Product Catalog "Transmission Line 1/4" Super Flexible Kits" page to order the feeder, based on the length required and the N-type male connectors, on both sides of the feeder.

If GPS mounting is needed for the GPS receiver unit, order Quantity 1 per site of the following:

Description	Full Description	Nomenclature	APC	Price
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	051	\$10.00

RBS INDOOR OR OUTDOOR ENVIRONMENT, POWER AND BATTERY BACKUP TIME REQUIREMENTS:

Site specifics on power plants will drive the power plant selection to be provided by the eNB.

The cabinets, rack deployables or enclosures are as follows to support the RBS selection, based on their indoor or outdoor suitability, DC or AC and battery backup availabilities:

- Indoor open rack deployable eNodeB (-48V DC) BB 6620. DC version available.
- Outdoor cabinet eNodeB (-48V DC) RBS 6101. Both DC and AC versions available. Battery backup in AC option.
- Outdoor cabinet eNodeB (AC) Power 6135 BB 6620. AC version available.
- Compact Outdoor cabinet eNodeB (-48V DC) RBS 6301. Both DC and AC version available. Battery backup in AC option.

Note that for outdoor configurations, BBS/BBU battery blocks are charged with -48V by the eNB (RBS) rectifiers. Therefore, when ordering a BBU/BBS RBS solution, an AC eNodeB should be selected. Note that PBC solutions are to be used for indoor DC configuration(s).

Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different options for this cabinet in its respective section(s).

RBS SELECTION:

The structure for B26 is based on 2-Transmit, 2-Receive (2T2R) usage in either DC or AC for outdoor or indoor configurations. The default RBS configuration comes with 3 remote radio units (RRUs), a radio for each sector, configurable to be radiating up to 40W per radio. It also comes standard with basic Motorola Value Pack covering 3 sectors. For mounting options for the RRUs, please refer to the Product Catalog "Site Ancillary for Public Safety LTE" page.

OUTDOOR CONFIGURATIONS (DC):

RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3270	051	\$48,020.00

For mounting the site over the generic base frame (GBF) which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

RBS6301:

Order quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212	-	TT3272	051	\$47,530.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

OUTDOOR CONFIGURATIONS (AC):

RBS6101:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3270	051	\$48,020.00
-48V DC TO 230VAC FOR RBS 6101	-	DDN2426	051	\$2,240.00

A global base frame is required for non-battery backup solutions. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

If battery backup is required, order Quantity 1 per site of the following. Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different options for this cabinet in its respective section(s):

Description	Full Description	Nomenclature	APC	Price
PREPARE OUTDOOR AC 1BAY ENODEB FOR	-	DDN2665	051	\$570.00

If BBS6101 is selected as a battery backup solution, order Quantity 2 per site of the following, one for the RBS6101 cabinet, one for the BBS6101 enclosure:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	051	\$430.00

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR,				

BB5212	-	TT3272	051	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	051	\$2,100.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3271	051	\$48,120.00

Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different battery backup options for this cabinet in its respective sections(s).

Indoor Configurations (DC):

Go to the Product Catalog "eNodeB Battery Backup" page to order, based on the different battery backup options for this cabinet in its respective sections(s).

BB6220 with RRU:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
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6620 INDOOR -48VDC 3SECTOR, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3274	051	\$43,790.00
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Go to the Product Catalog "eNodeB Battery Backup" to order, based on the different battery backup options for this cabinet in its respective sections(s).

If a 19" rack is needed, the following 2.35 ft. rack (in height) can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	051	\$120.00

FEATURE SELECTION:

License to Increase Throughput (75 Mbps CL/37.5 Mbps UL Increment)

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	051	\$3,170.00

License to Increase Bandwidth by 5+5 MHz Increment

Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	-	DDN2667	051	\$450.00

All the following features or VPs are priced per sector and per 20 MHz carrier (order Quantity 1 per RRU):

Support for IP Security:

Description	Full Description	Nomenclature	APC	Price
INTEGRATED IP SECURITY	-	DDN2666	051	\$150.00

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	051	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	051	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	051	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	051	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	051	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	051	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	051	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	051	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	051	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	051	\$780.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	051	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	051	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	051	\$1,810.00

EXTERNAL ALARM REQUIREMENTS:

If the operator requires that external alarms be interconnected through the eNodeB, then a System Alarm Unit (SAU) must be purchased.

For the eNodeB types, one can have up to 32 separate external alarms. Order Quantity 1 per site of DDN 1431 for 8 external alarms. In addition, order Quantity 1 per site of DDN1434 as an option, if the requirement is for 32 external alarms.

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	051	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	051	\$130.00

SITE SOLUTIONS, ANTENNAS AND ANCILLARY REQUIREMENTS:

Go to the Product Catalog page "Site Ancillary for Public Safety LTE" for ancillary items and associated ordering rules. Go to the Product Catalog "eNodeB Antenna" page for antennas.

SURGE PROTECTION REQUIREMENTS:

As power is fed separately on copper cables, surge protection on the DC cables between the BB and RRU near the eNB requires Surge Protection Device (SPD) kits. Note that SPDs differ among the RBS models as follows.

For the outdoor RBS 6101 or RBS 6301 eNodeB types, order Quantity 1 of the SPD kit.

Description	Full Description	Nomenclature	APC	Price
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	051	\$120.00

For the Indoor BB6620 with RRUs, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

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Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	051	\$290.00

The RRUs themselves are equipped with SPDs for (i) overvoltage/overcurrent protection for the external alarm ports (ii) overvoltage/overcurrent protection for the ALD (RET) port, and (iii) DC power input protection from lightning currents.

Spares

NOTE: Recommended quantities are one per market, except for the Baseband and Remote Radio Unit, which are 1 for every 50 hardware units deployed. For the fan tray, it is recommended to procure Quantity 1 for every 10 radios deployed.

RBS6101 and RBS6301

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	051	\$15,820.00
SPARE RADIO 2217 B26D	-	TT3302	051	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00
FAN TRAY, 24 VDC, 1,0 A	-	DDN2593	051	\$1,720.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	051	\$930.00

RBS6135 and BB6620 with RRUs

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	051	\$10,820.00
SPARE RADIO 2217 B26D	-	TT3302	051	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	051	\$3,810.00
FAN TRAY, 24 VDC, 1,0 A	-	DDN2593	051	\$1,720.00

For the Indoor BB6620 with RRUs, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	051	\$290.00

The RRUs themselves are equipped with SPDs for (i) overvoltage/overcurrent protection for the external alarm ports (ii) overvoltage/overcurrent protection for the ALD (RET) port, and (iii) DC power input protection from lightning currents.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN1335	SET OF MATERIALS/DIN RAIL MOUNTING SET	051	80
QUOTEDS	ERS	DDN1431	SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	051	80
QUOTEDS	ERS	DDN1432	EXTERNAL ALARM OVP (8 PORTS) FOR SAU (MAX 4 PER OUTDOOR ENB)	051	80
QUOTEDS	ERS	DDN1433	DISTRIBUTION FRAME/DF-OVP FOR SAU (INDOOR)	051	80
QUOTEDS	ERS	DDN1434	SAU KIT, DF-OVP V3, 10M (32 ALARMS)	051	80
QUOTEDS	ESC	DDN1884	GPS ANTENNA KIT	051	80
QUOTEDS	ERS	DDN2042	EXTENDED CELL RANGE FROM 15 TO 30 KM	051	80
QUOTEDS	ERS	DDN2062	EXTENDED CELL RANGE FROM 30 TO 100 KM	051	80

QUOTEDS	ERS	DDN2401	WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	051	80
QUOTEDS	ERS	DDN2402	GENERIC BASE FRAME FOR RBS 6301 AND	051	80
QUOTEDS	ERS	DDN2403	DC SURGE PROTECTION, 3 RRU	051	80
QUOTEDS	ERS	DDN2422	COORDINATED MULTIPOINT TRANSMISSION FEATURE	051	80
QUOTEDS	ERS	DDN2423	LARGE ENODEB FEATURE	051	80
QUOTEDS	ERS	DDN2424	MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	051	80
QUOTEDS	ERS	DDN2425	CARRIER AGGREGATION FEATURE	051	80
QUOTEDS	ERS	DDN2426	-48V DC TO 230VAC FOR RBS 6101	051	80
QUOTEDS	ERS	DDN2428	-48V DC TO 230VAC FOR RBS 6301	051	80
QUOTEDS	ERS	DDN2429	GBF 6101 BASE FRAME, SIDE INLETS	051	80
QUOTEDS	ERS	DDN2447	RACK FRAME 19, BASIC KIT WALL, 16U	051	80
QUOTEDS	ESC	DDN2448	SECURE OAM AND SECURITY LOGGING	051	80
QUOTEDS	ERS	DDN2449	COMBINED CELL	051	80
QUOTEDS	ERS	DDN2450	5212/6620 HW UTILIZATION PACKAGE 75	051	80
QUOTEDS	ERS	DDN2452	OUTPUT POWER HWAC 20W INCR.STEPS (P	051	80
QUOTEDS	ERS	DDN2471	DC POWER CABLE 2-POLE OPEN END 1.5	051	80
QUOTEDS	ERS	DDN2472	DISTRIBUTION FRAME/DF-OVP	051	80

QUOTEDS	ERS	DDN2473	SPD KIT, 1 RRU, 5 M	051	80
QUOTEDS	ERS	DDN2474	SPD KIT, 1 RRU, 10 M	051	80
QUOTEDS	ERS	DDN2593	FAN TRAY, 24 VDC, 1,0 A	051	80
QUOTEDS	ERS	DDN2594	PDU 03 01, POWER DISTRIBUTION UNIT	051	80
QUOTEDS	ERS	DDN2595	GPS 03 01, GPS RECEIVER UNIT	051	80
QUOTEDS	ERS	DDN2596	SURGE PROTECTION DEVICE, SPD KIT -4	051	80
QUOTEDS	ERS	DDN2665	PREPARE OUTDOOR AC 1BAY ENODEB FOR	051	80
QUOTEDS	ERS	DDN2666	INTEGRATED IP SECURITY	051	80
QUOTEDS	ERS	DDN2667	INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	051	80
QUOTEDS	ERS	TT2763	4 WAY RECEIVE DIVERSITY SOFTWARE	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT2840	VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	051	80
QUOTEDS	ERS	TT3092	HIGH LOAD HANDLING	051	80
QUOTEDS	ERS	TT3093	CS FALLBACK	051	80
QUOTEDS	ERS	TT3094	MULTICARRIER LOAD MANAGEMENT	051	80
QUOTEDS	ERS	TT3095	4 X 2 DOWNLINK MIMO	051	80
QUOTEDS	ERS	TT3096	SHARED NETWORKS	051	80
QUOTEDS	ERS	TT3270	6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC26D, 40W, 2X2 MIMO	051	80

			5+5 MHZ		
QUOTEDS	ERS	TT3271	6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3272	6301 OUTDOOR -48VDC 3SECTOR, BB5212	051	80
QUOTEDS	ERS	TT3274	6620 INDOOR -48VDC 3SECTOR, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	051	80
QUOTEDS	ERS	TT3300	SPARE BASEBAND 5212 INITIAL HW PACK	051	80
QUOTEDS	ERS	TT3301	SPARE BASEBAND 6620 INITIAL HW PACK	051	80
QUOTEDS	ERS	TT3302	SPARE RADIO 2217 B26D	051	80

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Model

eNB L2 Switch - DC Power

Ordering Information

Features

ERICSSON:

- The Router 6471/2 (R6471/2) and Router 6371 (R6371) combines multiple functions into a single platform that provides Layer 3 (IP) routing and Layer 2 (Ethernet) network aggregation, as well as advanced services for applications. The R6x71 series provides carrier-class reliability, scalability, performance, and an optimal power footprint.
 - R6371 is an outdoor rated and hardened router intended to be deployed with Baseband 6303 and remote radios.
 - R6471/2 is to be deployed inside outdoor or indoor enclosures or indoor in open rack deployments.
- The R6x71 platform supports the following functions:
 - Comprehensive range of interior and exterior gateway routing protocols.
 - Peering, edge aggregation.
 - End-to-end Ethernet transport services with direct connection to the access layer of the network.
 - Traffic management with Quality of Service (QoS) and traffic shaping.
 - Direct connection to the access layer of the network, which eliminates unnecessary network layers and reduces complexity.

EXTREME NETWORKS:

- The X460-G2 enables service providers to offer Ethernet/IP services cost-effectively for Evolved Radio Systems (ERS) Enclosure 6135 and baseband 6620 with remote radios on open racks, for deployments of 4G base stations.
- The 1RY size of the X460-G2 allows economical installation in cell site locations where space is limited. All Extreme Networks advanced routing and switching features, including IPv6, are available on this compact and powerful platform.

General Information

ERICSSON:

The eNB L2/L3 R6471/2 switch DC power supports IP/MPLS features, and comes with the following characteristics:

- • 2x GE / 10GE SFP+ ports unpopulated ports
- • 4x GE SFP ports unpopulated ports
- • 4x 100 / 1000 Base-T RJ45 ports
- • Operating Temp -40C to +55C
- • 1 RU and fits inside Ericsson eNB cabinet capable of handling depth 9.85 in

(25cm).

The eNB L2/L3 R6471/2 switch - DC power can support copper or fiber interfaces. If the switch is supporting fiber interfaces, then fiber plug-ins are to be ordered.

The eNB L2/L3 R6371 switch DC power supports IP/MPLS features, and comes with the following characteristics:

- 2x GE / 10GE SFP+ ports unpopulated ports
- 4x GE SFP ports unpopulated ports
- 1x 10 / 100 / 1000 Base-T Ethernet for Out-of-Band Management
- Operating Temp -40C to +46C
- Un-protected Environments Directly Exposed to Weather, IP65
- Dimensions of outdoor rated Router R6371 (H x W x D): 12.5 in x 7.9 in x 2.5 in (31.5cm x 20.0cm x 6.3cm).
- It is intended to be deployed with Outdoor Baseband 6303 eNodeB

The eNB L2/L3 R6371/2 switch - DC power is supporting fiber interfaces and fiber plug-ins are to be ordered.

EXTREME NETWORKS:

The eNB L2/L3 X460-G2 DC power switch supports the following features:

- MPLS Support, Dynamic Routing (OSPF), Full G.8032V2 Support
- IPv4/IPv6, VRF - Virtual Router Support
- 24x 10/100/1000 BASE-T (RJ-45) – 4 ports are combo ports
- 8 x 100/1000BASE-X (SFP) unpopulated ports (i.e. SFP connectors required) – 4 ports are combo ports
- 4 x 1GBASE-X SFP (unpopulated ports i.e. SFP connectors required)
- Operating Temp -0C to +50C
- 1 RU and fits inside *selected* Ericsson eNB cabinet capable of handling depth 16.94 in (43.03 cm).

Ordering Requirements

Ericsson eNB R6471/2 Switch: Recommended if MPLS is required at the eNB switch and for flexibility in deploying this switch with MSI approved eNodeB cabinets or in indoor open rack configurations:

1. There is a minimum quantity of 1 for the eNB switch
2. Router comes packaged with Base Package (including IP/MPLS) and Synchronization Services VP.
3. Baseline configuration includes 10 x 1G interfaces and 1 x 10G port capacity license.
4. Router can be mounted on 19" hosting shelf. This shelf can be integrated in the MSI approved enodeB enclosures.
5. Baseline also includes power cable, 19" hosting shelf and panel, one SFP+ (SFP+ SM 10.3Gb/s 1.4km 1310nm)
6. The use of additional capacity on the traffic ports requires SW licenses outside of what is in the baseline configuration.

Ericsson eNB R6371 Switch (With IP/MPLS Support): Recommended if MPLS is required at the eNB switch and for flexibility in deploying this switch with MSI approved eNodeB outdoor baseband 6303:

1. There is a minimum quantity of 1 for the eNB switch
2. Router comes packaged with Base Package (including IP/MPLS) and Synchronization Services VP.
3. Baseline configuration includes 6 x 1G interfaces and 1 x 10G port capacity license.
4. Baseline also includes power cable , one SFP+ (SFP+ SM 10.3Gb/s 1.4km 1310nm), one SFP (100/1000 TX SSR)
5. The use of additional capacity on the traffic ports requires SW licenses outside of what is in the baseline configuration.
6. R6371 can be mounted on pole or wall. This is outside of what is in the baseline configuration.

Extreme Networks eNB X460-G2 Switch: Recommended if MPLS is required at the eNB switch and if greater port capacity needed.

1. There is a minimum quantity of 1 for the eNB switch
2. If IP/MPLS support is required, qty 1 per switch of MPLS feature pack is required and to be ordered separately.
3. The X460-G2 can support up to four fiber SFP ports if fiber interface support is required. Order the SFP with the required distance support from the list of Extreme Networks SFP Spares below.

Configuration

Configuration

This subsection for each vendor switch contains:

- a) **Hardware** which includes: Switch Hardware, fan and power modules (if not packaged) and switch mounting (where applicable)
- b) **Options** which includes: SW features and Optics
- c) **Spares**

Models

Hardware

Ericsson Switch:

For R6471/2, order Quantity 1 per eNodeB Site:

Description	Full Description	Nomenclature	APC	Price

R6471 DC PACKAGE FROM ERS	-	TT3511	051	\$3,220.00
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Cabinet or open rack mounting is already included in the R6471 DC package. For R6371, order Quantity 1 per eNodeB Site.

Description	Full Description	Nomenclature	APC	Price
R6371 DC PACKAGE FROM ERS	-	TT3506	051	\$3,750.00

For R6371, outdoor mounting options can be either on a pole or a wall, depending on the option. Please select one or the other of the following:

For mounting on a pole, order Quantity 1 per R6371:

Description	Full Description	Nomenclature	APC	Price
POLE INSTALLATION KIT, 6371	-	DDN2817	051	\$220.00

For mounting on a wall, order Quantity 1 per R6371.

Description	Full Description	Nomenclature	APC	Price
WALL AND POLE MOUNTING KIT,6371	-	DDN2818	051	\$160.00

Extreme Network Switch:

For X460-G2, order Quantity 1 of the following per eNodeB site:

Description	Full Description	Nomenclature	APC	Price
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	055	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	055	\$230.00

For X460-G2, order Quantity 2 of the following per eNodeB site:

Description	Full Description	Nomenclature	APC	Price
SUMMIT 300W +24V/-48V DC POWER SUPPLY UNIT	-	DDN2810	055	\$620.00

Options

Ericsson Switch Optics:

Order Quantity 1 per switch port, depending on the port to be used in consideration of its characteristics:

Description	Full Description	Nomenclature	APC	Price
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	051	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	051	\$120.00

Extreme Switch Features:

Order Quantity 1 per switch:

Description	Full Description	Nomenclature	APC	Price
CORE LIC FROM ADV EDGE - X460/-G	-	TT3501	055	\$1,450.00
MPLS FEATURE PACK - X460/-G2	-	TT3502	055	\$1,450.00

Order Quantity 1 per switch port, depending on the port to be used in consideration of its characteristics:

Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	055	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	055	\$1,170.00

Spares

Ericsson Switch:

Description	Full Description	Nomenclature	APC	Price
ROUTER 6471/2 DC SYSTEM W/10X1G ENABLED	-	TT3508	051	\$1,720.00
ROUTER 6371 DC SYSTEM W/6X1G	-	TT3512	051	\$2,400.00

ENABLED				
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	051	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	051	\$120.00

Extreme Switch:

Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	055	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	055	\$1,170.00
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	055	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	055	\$230.00
SUMMIT 300W +24V/-48V DC POWER SUPPLY UNIT	-	DDN2810	055	\$620.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	EXL	DDN1344A	MINI GBIC 1000BASESX WITH 1 LC MM PORT	454	20
QUOTEDS	EXL	DDN1345A	10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	454	20
QUOTEDS	BRO	DDN1346A	SFP (FIBER PLUG-IN)- UP TO 70 KM	454	20
QUOTEDS	BRO	DDN1360	ENB SWITCH-DC POWER (LTE HARDENED)	055	20

QUOTEDS	BRO	DDN1508	ENB SWITCH-AC POWER (LTE HARDENED)	055	20
QUOTEDS	EXL	DDN1893	10/100/1000BASE-T SFP, HI	055	20
QUOTEDS	EXL	DDN1894	10GB SFP+ 10GBASE-T	055	20
QUOTEDS	ERS	DDN2068	NETWORK EQUIPMENT,SP415 ENB SWITCH	055	60
QUOTEDS	ERS	DDN2069	NETWORK EQUIPMENT,SFP SX UP TO 550	055	60
QUOTEDS	ERS	DDN2070	NETWORK EQUIPMENT,SFP LX UP TO 10 K	055	60
QUOTEDS	ERS	DDN2071	NETWORK EQUIPMENT,SFP ZX UP TO 80 K	055	60
QUOTEDS	ERS	DDN2377	SFP+ SM 10.3GB/S 1.4KM 1310NM	051	80
QUOTEDS	EXL	DDN2810	SUMMIT 300W +24V/-48V DC POWER SUPPLY UNIT	055	20
QUOTEDS	EXL	DDN2811	SUMMIT FAN MODULE FB	055	20
QUOTEDS	ERS	DDN2812	100/1000 TX SSR, SFP	051	60
QUOTEDS	ERS	DDN2817	POLE INSTALLATION KIT, 6371	051	60
QUOTEDS	ERS	DDN2818	WALL AND POLE MOUNTING KIT,6371	051	60
QUOTEDS	ERI	TT2829	SP415 ENB SWITCH W/ MPLS DC POWER	055	60
QUOTEDS	EXL	TT2850	E4G-200 SWITCH BUNDLE - DC POWER (ADVANCED EDGE LICENSE)	055	20
QUOTEDS	EXL	TT3500	X460-G2-24T-GE4-BASE DC VERSION	055	20
QUOTEDS	EXL	TT3501	CORE LIC FROM ADV EDGE - X460/-G	055	20

QUOTEDS	EXL	TT3502	MPLS FEATURE PACK - X460/-G2	055	20
QUOTEDS	ERS	TT3506	R6371 DC PACKAGE FROM ERS	051	60
QUOTEDS	ERS	TT3508	ROUTER 6471/2 DC SYSTEM W/10X1G ENABLED	051	60
QUOTEDS	ERS	TT3509	ROUTER 6000 - 1X10G PORT CAP LICENSE	051	60
QUOTEDS	ESC	TT3511	R6471 DC PACKAGE FROM ERS	051	60
QUOTEDS	ERS	TT3512	ROUTER 6371 DC SYSTEM W/6X1G ENABLED	051	60

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

EPC NTP Server

Ordering Information

Features

The Network Timing Protocol Server (NTP) has the following characteristics:

- <15 ns RMS to UTC (USNO)
- <1X10⁻¹² Frequency accuracy
- Most popular timing signal inputs/outputs are standard in the base Timing I/O module (IRIG B, 10 MHz, 1 PPS, etc.)
- Four GbE ports standard, all with patented NTP hardware timestamping
- Web-based management with high security cipher suite.
- IPv6/IPv4 on all ports

For additional product information, please see Microsemi Model Number S650 at www.microsemi.com

General Information

The Microsemi Timing Protocol (NTP) SyncServer may be used for time synchronization of all eNBs (cell sites) in the LTE network when GPS is not available. It is a high reliability, secure appliance, utilizing multi-port network interfaces and multiple time reference technology.

The NTP server has FlexPort timing technology that efficiently and cost-effectively adds innovative "any signal, any connector" technology, eliminating the wasted space inherent with legacy style fixed-signal modules/BNCs.

The NTP S650 appliance has four dedicated and isolated GbE Ethernet ports, each equipped with NTP hardware time stamping. These are connected to a very high-speed microprocessor with microsecond accurate time stamps to assure high-bandwidth NTP performance. This more than meets the need of servicing 10,000 NTP requests per second.

Ordering Requirements

1. The NTP Timing Server must be ordered in a minimum quantity of 2 for redundancy. When ordering an NTP Timing Server, the first year of maintenance and support must be purchased per appliance. This should be done through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.
2. When NTP is ordered, an NTP Server Security Protocols Options must be ordered, also at a minimum quantity of 2 for redundancy.
3. When NTP is ordered, an NTP Server IO Timing Flex Module must be ordered, also at a

minimum quantity of 2 for redundancy.

4. When NTP is ordered, an NTP SS S6XX 50 ft. Cbl with Lightning Arrest and Antenna Kit must be ordered, also at a minimum quantity of 2 for redundancy.

5. The NTP Coax Cable TNC-BNC 100 ft. is optional and should be ordered if a 100 ft. coax cable is required.

6. If a cable length of greater than 100 ft. is required, please contact LTE Product Management or Engineering.

7. Order the standalone GPS antenna only if a spare is required.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SYNC SERVER S650 IO MODULE RUBIDIUM	-	TT3197	055	\$15,480.00

Options

Description	Full Description	Nomenclature	APC	Price
SYNC SERVER SECURITY PROTOCOLS	-	TT06276AA	055	\$2,800.00
ADD: SYNC SERVER IO TIMING FLEX MOD	-	TT06277AA	055	\$2,000.00
ADD: SS S6XX 50 FT CBL WITH LIGHTNI	-	TT06278AA	055	\$1,250.00

Accessories

The following are the product FRUs. These part numbers must be used when ordering standalone items:

Description	Full Description	Nomenclature	APC	Price
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SYNC SERVER S650 IO MODULE RUBIDIUM	-	DDN2340	055	\$15,480.00
SYNC SERVER SECURITY PROTOCOLS OPTI	-	DDN2341	055	\$2,800.00
SYNC SERVER IO TIMING FLEX MODULE	-	DDN2342	055	\$2,000.00
SS S6XX 50 FT CBL WITH LIGHTNING AR	-	DDN2343	055	\$1,250.00
NTP COAX CABLE TNC-BNC 100 FT	-	DDN1282	055	\$243.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	SML	DDN1282	NTP COAX CABLE TNC-BNC 100 FT	055	2
QUOTEDS	CDL	DDN1889	DNS ADDRESS MANAGER	055	20
QUOTEDS	CDL	DDN2339	EPC DNS/DHCP/NTP	055	20
QUOTEDS	SML	DDN2340	SYNC SERVER S650 IO MODULE RUBIDIUM	055	14
QUOTEDS	SML	DDN2341	SYNC SERVER SECURITY PROTOCOLS OPTI	055	14
QUOTEDS	SML	DDN2342	SYNC SERVER IO TIMING FLEX MODULE	055	14
QUOTEDS	SML	DDN2343	SS S6XX 50 FT CBL WITH LIGHTNING AR	055	14
			SYNC SERVER S650 IO MODULE		

QUOTEDS	SML	TT3197	RUBIDIUM	055	14
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JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

EVOLVED PACKET GATEWAY (EPG)

Ordering Information

General Information

It is a state-of-the-art SAE (System Architecture Evolution) gateway that combines Serving Gateway and Packet Data Network Gateway functions. The Serving Gateway (SGW) is the entity that terminates the interface towards the RAN and is the local mobility anchor for UEs (User Equipment).

The SGW maintains a buffer for each idle UE and holds the packets until the UE is paged and an RF channel re-established. The SGW maintains a connection to a PGW (Packet Data Network Gateway) for each UE. The PGW interfaces with the existing enterprise network. It is responsible for UE address assignment and is the source of packet based charging records for the UE. If a UE needs to be quarantined for security, device management or usage resolution issues, the PGW is used to restrict the UE to a specified address or subnet.

IP sessions are calculated based on the number of APNs (Access Point Names) that are required for the network. For example, if there is a default APN and IMS APN, you will need 2 IP sessions per subscription. This has to be worked with the design engineer who is working the deal.

With regard to power requirements, please note that the SSR 8020 platform will always be equipped with 8 PEMs.

** Please note that, as of System Release 7.0, the Converged Packet Gateway (CPG) will be superseded by the Evolved Packet Gateway (EPG). For additional information, please access the Intent-to-Cancel document at: http://compass.mot-solutions.com/doc/488523954/CPG_Intent_to_Cancel_Notice.pdf

For additional information, please review the EPG spec sheet at: http://compass.mot-solutions.com/doc/488594849/Product_SPEC_SHEET_EPG_Draft.pdf

Features

- EPS (Evolved Packet System) Bearer Management of Packet Data Network (PDN) connections.
- APN Management (multiple PDN per UE and APN based routing/QoS (Quality of Service)).
- QOS policy execution.
- UE IP address allocation.
- Servicing Gateway reselection.
- Idle mode support (buffer downlink and trigger paging procedure).

- Operations and Maintenance support: Configuration Management, Fault Management, Performance Management, Security Management, Software Management, Network Planning and Analysis, and Traffic Shaping.

Configuration

New System Order Guidelines

A new EPG system can be ordered as a package/bundle of both SW and HW. The EPG is licensed based upon the number of IP sessions. Please choose from one of the following when ordering a new EPG system:

Description	Full Description	Nomenclature	APC	Price
EPG SERVING AND PACKET GW 5K IP SESSIONS BUNDLE	-	TT2710	053	\$710,430.00
EPG SERVING AND PACKET GW 10K IP SESSIONS BUNDLE	-	TT2711	053	\$766,290.00
EPG SERVING AND PACKET GW 25K IP SESSIONS BUNDLE	-	TT2712	053	\$794,290.00
EPG SERVING AND PACKET GW 50K IP SESSIONS BUNDLE	-	TT2713	053	\$811,430.00
EPG SERVING AND PACKET GW 100K IP SESSIONS BUNDLE	-	TT2714	053	\$840,000.00
EPG SERVING AND PACKET GW 250K IP SESSIONS BUNDLE	-	TT2700	053	\$954,420.00
EPG SERVING AND PACKET GW 500K IP SESSIONS BUNDLE	-	TT2701	053	\$1,074,290.00
EPG SERVING AND PACKET GW 1M IP SESSIONS BUNDLE	-	TT2702	053	\$1,480,000.00

Existing System Capacity Expansion Guidelines

When ordering an EPG user license capacity expansion for an existing system, please choose from one of the following item numbers listed below. Please note that capacity expansions can only occur as mentioned. If the capacity expansion needs to span multiple steps, then all steps

in between need to be accounted for. For example, if a capacity expansion is needed for 5K to 25K, then 5K to 10K and 10K to 25K need to be accounted for:

Description	Full Description	Nomenclature	APC	Price
EPG HW/SW FROM 5K TO 10K IP SESSIONS	-	TT05853AA	053	\$77,140.00
EPG HW/SW FROM 10K TO 25K IP SESSIONS	-	TT05854AA	053	\$81,000.00
EPG HW/SW FROM 25K TO 50K IP SESSIONS	-	TT05855AA	053	\$85,050.00
EPG HW/SW FROM 50K TO 100K IP SESSIONS	-	TT05856AA	053	\$89,300.00
EPG HW/SW FROM 100K TO 150K IP SESSIONS	-	TT05857AA	053	\$89,300.00
EPG HW/SW FROM 150K TO 250K IP SESSIONS	-	TT05858AA	053	\$98,230.00
EPG HW/SW FROM 250K TO 350K IP SESSIONS	-	TT05859AA	053	\$98,230.00
EPG HW/SW FROM 350K TO 500K IP SESSIONS	-	TT05860AA	053	\$125,300.00
EPG HW/SW FROM 500K TO 750K IP SESSIONS	-	TT05861AA	053	\$207,570.00
EPG HW/SW FROM 750K TO 1M IP SESSIONS	-	TT05862AA	053	\$207,570.00

Spares

The recommended EPG spare parts package for a new system includes one of each of the following:

Description	Full Description	Nomenclature	APC	Price

FAN TRAY, SSR	-	DDN1854	053	\$4,375.00
SWITCH PROCESSOR CARD, SSR	-	DDN1855	053	\$32,813.00
SWITCH ALARM CARD, SSR	-	DDN1856	053	\$16,406.00
10 X 10 GBIT ETH, SSR, USE XFP	-	DDN1857	053	\$67,500.00
SSR 8020 CHASSIS	-	DDN1858	053	\$87,500.00
PEM SSR - POWER SUPPLY SET	-	DDN1859	053	\$2,917.00
SWITCH CARD, SSR	-	DDN1860	053	\$9,844.00
SMART SERVICES CARD, SSR , WITH SSD	-	DDN1861	053	\$197,073.00
10G SM LR SSR, XFP	-	DDN1862	053	\$8,333.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN1854	FAN TRAY, SSR	053	80
QUOTEDS	ERS	DDN1855	SWITCH PROCESSOR CARD, SSR	053	80
QUOTEDS	ERS	DDN1856	SWITCH ALARM CARD, SSR	053	80
QUOTEDS	ERS	DDN1857	10 X 10 GBIT ETH, SSR, USE XFP	053	80
QUOTEDS	ERS	DDN1858	SSR 8020 CHASSIS	053	80
QUOTEDS	ERS	DDN1859	PEM SSR - POWER SUPPLY SET	053	80

QUOTEDS	ERS	DDN1860	SWITCH CARD, SSR	053	80
QUOTEDS	ERS	DDN1861	SMART SERVICES CARD, SSR , WITH SSD	053	80
QUOTEDS	ERS	DDN1862	10G SM LR SSR, XFP	053	80
QUOTEDS	ERS	TT2700	EPG SERVING AND PACKET GW 250K IP SESSIONS BUNDLE	053	80
QUOTEDS	ERS	TT2701	EPG SERVING AND PACKET GW 500K IP SESSIONS BUNDLE	053	80
QUOTEDS	ERS	TT2702	EPG SERVING AND PACKET GW 1M IP SESSIONS BUNDLE	053	80
QUOTEDS	ERS	TT2711	EPG SERVING AND PACKET GW 10K IP SESSIONS BUNDLE	053	80
QUOTEDS	ERS	TT2712	EPG SERVING AND PACKET GW 25K IP SESSIONS BUNDLE	053	80
QUOTEDS	ERS	TT2714	EPG SERVING AND PACKET GW 100K IP SESSIONS BUNDLE	053	80

General Information

FACTORY MUTUAL

UNDERWRITERS' LABORATORIES, MINE SAFETY & HEALTH ADMINISTRATION

FACTORY MUTUAL (FM) and UNDERWRITERS' LABORATORIES (UL)

Equipment approved by Factory Mutual and Underwriters' Laboratories as Intrinsically Safe and/or Non-incendive is generally accepted by code enforcing authorities for use in hazardous locations. Intrinsically Safe equipment is suitable for Division 1 & 2 locations. Non-incendive equipment is only suitable for Division 2 locations. Hazardous Locations are defined in Article 500 of the National Electrical Code (NEC) available from the National Fire Protection Association as NFPA/70.

HAZARDOUS (CLASSIFIED) LOCATIONS

Locations are classified depending on the properties of the flammable vapors, liquids or gases, or combustible dusts or fibers, which may be present and the likelihood that a flammable or combustible concentration or quantity is present.

The nature and degrees of a hazard existing at a particular location is denoted by specifying the location as being of Class I, II or III; Groups A, B, C, D, E, F, or G; and Division 1 or 2. The classes define the generic nature of the materials and Division the degree of hazard in the location.

CLASS I locations, flammable gas or vapor, are subdivided into Groups A, B, C and D. Article 500 of the NEC Provides a list of flammable gas or vapor within each group.

CLASS II locations, combustible dust, are subdivided into Groups E, F, and G. Group E contains metal dusts including aluminum and magnesium; Group F includes the coke, coal and charcoal dusts and Group G, the grain dusts.

CLASS III locations contain easily ignitable fibers or fillings in quantities to produce ignitable mixtures. Easily ignitable fibers and fillings include rayon, cotton, isle, jute, hemp, okum, and other similar materials.

DIVISION 1: Locations where the particular hazardous materials are present in the air in potentially flammable concentrations continuously, frequently, or intermittently under normal operating conditions. Division 1 approved equipment can also be used in Division 2 locations.

DIVISION 2: Locations, which might become hazardous in the event of a mechanical breakdown, accidental failure, or the abnormal operation of equipment.

TEMPERATURE CODES

In addition to being approved for use in a particular Class, Group and Division, equipment must be marked with Maximum Safe Operation Temperatures or Temperature Codes if a surface temperature exceeds 100°F. This further defines the acceptability of equipment for a

specified location depending on the ignition temperature of the material in the location.

UNDERWRITERS' LABORATORIES LISTED PRODUCTS UL

Listing is offered as an alternate to FM Approval for customers with UL preference. Most code enforcing authorities will accept FM or UL Approval.

MINE SAFETY and HEALTH ADMINISTRATION (MSHA)

MSHA is an agency of the federal government who employs Intrinsically Safe testing techniques to approve products for use in gassy mines or tunnels. The tests are similar to those used by FM and UL but limited to methane gas and coal type dust, which are, found in mine environments. Products approved for use by MSHA require a special identification label with the MSHA logo, approval number, product model and the words Permissible Radio Device.

BATTERIES

Factory Mutual, Underwriters' Laboratories, and Mine Safety and Health Administration ALL REQUIRE THAT ONLY THE BATTERIES THEY SPECIFY BE USED WITH APPROVED RADIOS. Use of non-specified batteries voids these approvals. Batteries approved by one agency are not acceptable to another agency. The approved batteries are specified on the radio labels.

OPTIONS AND ACCESSORIES

Options are Motorola's means of ordering the addition or omission of internal radio features, and of ordering the addition, omission, or substitution of accessories. Most internal features and alternate accessories ordered by options are included in the FM, UL, and MSHA approvals. Accessory kits used in option are also separately listed for convenience in ordering spares and replacements. Both options and accessory kits, which are FM, UL, or MSHA approved, are identified on equipment listing pages in this section of the price book by these symbols.

SPECIAL PRODUCTION (SP) MODELS

These are models with variations or modifications of internal features, accessories, or both which are beyond the scope of option handling. MOST SP MODELS ARE NOT FM, UL or MSHA APPROVED. Contact product marketing for details of approval versus SP modification.

RADIO ONLY MODELS

Portable Products are offered both as complete package models including antenna, battery, carrying accessory, and some models as "radio only" models less all these accessories. Factory Mutual approvals apply to specific models using appropriate batteries. APPROVED audio accessories and internal options may be substituted or added as required.

FACTORY MUTUAL (FM) APPROVAL

LTS 2000 Radios are Factory Mutual Approved as follows:

The LTS 2000 radios when ordered with H236 (HNN9701) and H73 (HNN9808) are rated as Intrinsically Safe

for us in Classes I, II & III, Division I, Groups C, D, E, F and G. Approved as Non-Incendive for use in Class I,
Division 2, Groups A, B, C and D.

MTS 2000 Radios are Factory Mutual Approved as follows:

All MTS radios packaged models when ordered with H236 (NTN7147) are rated as Intrinsically safe for use in Classes I, II and III, Division I, Groups D, F and G. Approved as Non-Incendive for use in Class I, Division 2, Groups A, B, C and D. And when ordered with H223 (NTN7341) are rated as Intrinsically safe for use in Classes I, II and III, Division I, Groups C, D, E, F and G. Approved as Non-Incendive for use in Class I, Division 2, Groups A, B, C and D.

XTS 3000 Radios are Factory Mutual Approved as follows:

The XTS3000 portable radio when properly equipped with options H223 and Q393 are Approved by Factory Mutual Research Corporation (FMRC) as intrinsically safe for use in Class I, II, III, Division I, Group C, D, E, F and G. It is also Approved for non-incendive use in Class I, Division 2, Group A, B, C and D.

Note:

The XTS3000 Portables equipped with encryption modules and options H223BF and Q393AC are Approved as Intrinsically Safe, for use in Class I, II, III, Division I, Group D, F, and G. And non-incendive for use in Class I, Division 2, Group A, B, C, D only.

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Federal Depot Subscriber Upgrade Service

Ordering Information

Executive Summary

This is a Federal Government only specific service and is not applicable to any State and Local or Civilian entity that is not funded by the Federal Government. Federal Depot Subscriber Upgrade Services are only performed at the Federal Technical Support Center (FTC), Guam Service Center (GSC), Korea Service Center (KSC), Japan Service Center (JSC), European Technical Center (ETC, Motorola Managed Services Center (MMSC) and DEA Support Center (DSC).

Features

Federal Depot Subscriber Upgrade Service adds software and hardware features to applicable radios that were originally manufactured without, such as Encryption, Trunking Capabilities and Data Features.

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product CANNOT be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Territory Service Manager.

Federal Depot Subscriber Upgrade Service SOW: [Click Here](#)

Configuration

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Federal Managed Zone Core

Ordering Information

General Information

Motorola's Federal Managed Zone Core Service offers a unique and cost effective pathway to the features and benefits of a Project 25 compliant voice and data communications system. Those benefits include delivering an operational system faster, and at a fraction of the cost, of replacing an existing system.

In a typical scenario, customers provide the RF sites, subscriber radios and dispatch consoles, if needed. Motorola then integrates this equipment at the customer's location and provides access to the Managed Zone Core at Motorola's facility.

***THIS SPECIFIC SOLUTION IS ONLY FOR FEDERAL GOVERNMENT CUSTOMERS. Please see the State/Local Managed Zone Core ECAT page for information about the State/Local service offering.

Features

This cost-effective marriage delivers flexible solutions, such as trunked or conventional communications, close-in radio coverage or wide-area operation, and P25 functionality, including the ability to interoperate with other agencies and systems. Immediately, radio users benefit from the features of the most advanced P25 systems—without the administrative and capital outlay involved in procuring a state-of-the-art P25 zone core.

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions:

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Federal Managed Zone Core Statement of Work:

Ordering Requirements

1. This product must be ordered using the current version of the Services Pricing Configurator. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of anti-virus clients, and barriers (firewalls and intrusion detection sensors). **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
Performance Management Reports-InternalFederal Managed Zone Core Services	SVC01SVC01090A	461	\$0.00
FED MNGD ZONE CORE ANNUAL SVC			\$189,750.00
ADDITIONAL RF SITE ANNUAL SVC			\$37,254.00
DISPATCH POSITION ANNUAL SVC			\$10,950.00
OTAR ANNUAL SUBSCRIBER SVC			\$53.00
OTAP ANNUAL SUBSCRIBER SVC			\$43.00
GPS-AVL ANNUAL SUBSCRIBER SVC			\$48.00
MESSAGE ANNUAL SUBSCRIBER SVC			\$37.00
NETWORK MGR CLIENT ANNUAL SVC			\$4,550.00

KMF CLIENT ANNUAL SVC			\$4,550.00
OTAP CLIENT ANNUAL SVC			\$4,500.00
CONVENTIONAL STATION ANNUAL SVC			\$2,400.00
Description	Nomenclature	APC	Price
Performance Management Reports-InternalFederal Managed Zone Core Services	SVC01SVC01091A	461	\$0.00
RF SITE INITIAL SET-UP			\$40,250.00
ADD'L RF SITE SET-UP			\$8,050.00
DISPATCH POSITION SET-UP			\$8,050.00
NETWORK MANAGER CLIENT SET-UP			\$6,025.00
KMF CLIENT SET-UP			\$6,025.00
CONVENTIONAL STATION SET-UP			\$2,950.00
OTAP CLIENT SET-UP			\$6,025.00

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Network Products - Firewalls

Firewalls - There are feature specific firewalls which ensure that only legitimate traffic from external networks can access to radio system. They protect the system from unauthorized connections, restrict traffic to known applications and protocols, and ensure that network resources cannot be accessed from external systems unless authorized.

Firewall Recovery Media - This is a CD that contains the certified version of FortiOS for the FG-100D Fortinet Firewall and FG 101E Fortinet Firewalls. This CD is included with the purchase of a new zone but it may need to be ordered for expansions or add-ons.

Firewall Management Service (FMS) - The Firewall Manager Server (FortiManager) is installed as a virtual container on the Common Platform Hardware at the core. FortiManager is only supported with Fortigate 100D firewalls. FortiManager provides logging of firewall events. Configuration and fault management of the Fortinet firewalls are managed by the UNC and UEM applications respectively.

FortiManager is available for M3 Core with Zone Core Protection (ZCP) only. It is not available for L1/L2, M1/M2 or K-Core systems. FortiManager includes support for 30 FortiGate devices. Only one FortiManager is required in a system.

Two Factor Authentication - Compliments the standard Central Authentication functionality in ASTRO 25 systems to authenticate the identity of a person or other entity attempting to access the system remotely via a VPN connection (from CEN, Internet or through DMZ terminal server). Two-factor authentication requires the user to possess a token in addition to their Active Directory credentials.

The RNI-DMZ firewall is configured with VPN users and when a user connects, the firewall authenticates the user with Active Directory.

Two Factor Authentication requires either hardware (Hard tokens) or software (iOS or Android app) based FortiTokens be ordered in conjunction with the RNI-DMZ FortiGate 100D/101E firewall(s) which acts as the authentication service (tied in with AD). Please note: This does not apply to control room firewalls.

Updates

Function	ASTRO 25 System Type	Existing Model	Replacement Model
RNI/DMZ Firewall	K1/K2; L1/L2; M1/M2/M3	Fortinet FG-100D	Fortinet FG-101E
Control Room Firewall	K1/K2; L1/L2; M1/M2/M3	Fortinet FG-100D	Juniper SRX345
Telephony Firewall1	L1/L2; M1/M2/M3	Fortinet FG-100D	Fortinet FG-101E
ISSI.1/MPTT Firewall2	L1/L2; M1/M2/M3	Fortinet FG-100D	Fortinet FG-101E
ISSI 8000/CSSI 8000 Firewall1	L1/L2; M1/M2/M3	Fortinet FG-100D	Fortinet FG-101E
LMP Firewall	M1/M2/M3	Fortinet FG-100D	Fortinet FG-101E
ZCP Firewall3	M3	Fortinet FG-100D	None
Dispatch Console Site Firewall 3	M3	Fortinet FG-100D	None

Firewall Constraints

- ZCP firewalls (Fortigate 100D) must be the same model within a zone.
- ZCP firewalls (Fortigate 100D) within a DSR pair of zones must be the same model.
- A DSR pair of ISSI 8000 firewalls or combined ISSI8000 / Telephony firewalls must be the same model.
- HA RNI-DMZ Firewalls must be the same model.
- RNI-DMZ Firewalls within a DSR pair of zones must be the same model.
- HA Control Room Firewalls must be the same model.

Ordering Information

The ordering guide for the firewalls can be found [here](#).

Beginning with ASTRO 25 A2019.1, new systems should be ordered with Fortinet (FortiGate) 101E Firewalls or Juniper SRX345 as the Fortinet FortiGate 100D model Firewalls are moving to Legacy support. Refer to [Lifecycle Support Notice for Fortinet FortiGate](#) for more details.

- For RNI-DMZ firewalls for K or ASTRO Core (SRC), please refer to their individual ordering guides / price pages for ordering instructions.
- For Site and Hub Router/Firewalls (AC/DC), please refer to ordering guide/Price pages for Network Products ordering guide.
- For all other firewall functions, you may order the standalone options contained below:

Configuration

For A7.16

Please reach out to Product group for the Firewall part number.

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	Fortinet Firewall Recovery Media	T8128	147	\$100.00

For A7.17.X+ :

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	Fortinet FG101E VPN/Firewall (A7.17.X + with limited functions)	T8586	877	\$3,300.00
FORTINET FIREWALL RECOVERY MEDIA	Fortinet Firewall Recovery Media	T8128	147	\$100.00
JUNIPER FIREWALL APPLIANCE	Juniper Firewall Appliance (Control Room Firewall) (A7.17.X +)	T8639	147	\$3,200.00
	JUNIPER FIREWALL			

CONTROL ROOM FIREWALL OS	RECOVERY MEDIA (Firewall OS for A7.17.X +)	T8669	147	\$100.00
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Two Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	FortiToken – Pack of 10 hard-tokens	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	FortiTokenMobile – Pack of 5 soft-tokens for iOS and Android mobile devices*	DDN1881	708	\$272.00

Firewall Management Server

Firewall Management Service is ordered as an option when ordering the Core, ONE license should be ordered for systems if required. Please refer to the Mastersite PCAT page for ordering instructions

Description	Full Description	Nomenclature	APC	Price
ADD: FORTINET FIREWALL MANAGER 7.16	ADD: FORTINET FIREWALL MANAGER 7.16	CA02638AB	877	\$9,000.00
ADD: FORTINET FIREWALL MANAGER 7.17	ADD: FORTINET FIREWALL MANAGER 7.17	CA02638AC	877	\$9,000.00
ADD: FORTINET FIREWALL MANAGER 7.18	FIREWALL MANAGEMENT SERVICE (A7.18)	CA02638AD	877	\$9,000.00

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

FSA4000 and FSA4000 I/O

Ordering Information

General Information

FSA4000 Lifecycle on ASTRO

No New System Sales

A7.13

- 1st Yr. Support for Add-ons and expansions of existing FSA4000 systems
- New FSA systems - MACH Alert system from DCR

A7.14

- 2nd Yr. (final Yr.) Support for Add-ons and expansions of existing FSA4000 systems

A7.15

- Migration of FSA4000 to MACH Alert from DCR

FSA4000 is available in two tiers - FSA4000 Client/Server & FSA4000 Aux-I/O:

(High Tier) FSA4000 Client/Server contains the following H/W & S/W components:

AMC (Alerting Master Computer)

- Server for the FSA4000 Client/Server system

ALC (Alerting LAN Computer)

- Client for the FSA4000 Client/Server system
- Standalone or Co-Hab on MCC7500 or Gold Elite clients

FEP (Front End Processor)

- A minimum of one FEP is required per system. The system supports a maximum of 3 FEPs. Each FEP can have a second redundant identical FEP. If redundant FEP operation is required order two identical FEPs.

- The FEP comes equipped with two IP ports to support the "Dual Link" feature, one IP port to connect to the ASTRO 25 IV&D CEN and one IP port to connect to the customer wired IP communications link.

RTU (Remote Terminal Unit)

- One located at each of the Fire Stations in system.

(Low Tier) FSA4000 Aux-I/O - A Lower Cost Solution than Client/Server:

For this application the FEP is wired to the Console AUX I/O interface.

The FEP requires I/O modules to interface to the Console AUX I/O.

One 32 DI module and two 16 DO modules

- **V959** (Qty 1) 32 Digital Input Module
- The FPN1653 24V reference power supply is required for each V959 DI module. The FPN1653 power supply kit is field installed into the V959 Module.
- **V516** (Qty 2) 16 Digital Output Relay module (2A)

Product Planner, Training, and Marketing information can be found at the [SIO Wiki Site](#).

FCC Information

Please refer to the ACE 3600 ECAT Price Page for FCC Information:

Go to:

- Fixed Data Products
- [ACE3600 RTU](#)

Configuration

Alerting Master Computer (AMC) Server

The AMC requires an HP computer, a Monitor, a Port Expansion unit , InTouch and Anti Virus S/W:

ALERTING MASTER COMPUTER (AMC)

Servers are no longer available for FSA4000

MONITOR

Port Expansion Unit

One is required per system.

IN-TOUCH S/W and ANTI-VIRUS S/W

The One of each is required per system.

Anti Virus S/W: Refer to the INFORMATION ASSURANCE ECAT Price Page for the current Antivirus for your System:

(Catalog path: Network Security --> [Network Security ASTRO 7x SYSTEMS](#))

Alerting LAN Computer (ALC) - Standalone or Co-Hab on Console Position

The ALC requires an HP client computer, a Monitor, InTouch S/W, and Anti Virus S/W:

HP CLIENT COMPUTER

Up to Fourty ALC per system.

MONITOR

ANTI-VIRUS

Anti Virus S/W: Refer to the INFORMATION ASSURANCE ECAT Price Page for the current Antivirus for your System:

(ECAT path: Network Security --> [Network Security ASTRO 7x SYSTEMS](#))

FEP (Front End Processor)

FSA4000 Client/Server & FSA4000 AUX-I/O (Note FSA4000 AUX-I/O FEP requires I/O modules)

FSA4000: (Select a ACE Model, Firmware - CPU Upgrades - Plug-In's - Battery & Charger - Mounting)

ACE Models:

No Radio:

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	085	\$1,200.00

VHF Radio:

UHF Radio:

800 MHz Radio:

Firmware - CPU Upgrades - Plug-In's - Battery & Charger - Mounting: FEP- Mandatory Firmware and Licenses

Description	Full Description	Nomenclature	APC	Price
ACE3600 FIRMWARE FOR FSA4000 V5.0	-	VA00161	117	\$0.00
ADD: 3 RD PARTY PROTOCOL LICENSE	One required for each RTU or FIU that uses the 3rd party protocol: ModBus, Allan Bradley.	V377	214	\$100.00

FEP- CPU Upgrades and Plug-ins

Description	Full Description	Nomenclature	APC	Price
ADD: PLUG-IN ETHERNET 10/100 M PORT	Fits only to port P11.	V212	085	\$105.00
ADD: PLUG-IN RS-232 PORT	-	V184	085	\$105.00

FEP- Battery and Charger

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	085	\$286.00
OPTN,CHGR,ADD: AC PWR PS 100-240 V W/ BAT CHGR	-	V261	085	\$414.00

FEP- Rack Mounting 19"

Description	Full Description	Nomenclature	APC	Price
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	085	\$385.00
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	085	\$130.00
ADD: EXPANDED 19 CHAS	-	V269	085	\$230.00

FSA4000 AUX-I/O Only: Additional H/W is required for the FSA4000 I/O configuration.

The FEP for the FSA4000 I/O requires the following I/O. (A 24V Floating reference power supply is required)

Description	Full Description	Nomenclature	APC	Price
ADD: 16 DO ML RELAY 2A	-	V516	085	\$360.00
	Adds 24V output to the I/O module			

24V FLOATING POWER SUPPLY	for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	085	\$80.00
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RTU (Remote Terminal Unit)

Select a RTU- Firmware - CPU Upgrades - Battery & Charger Options - Mounting - ACT Module

No Radio:

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	085	\$1,200.00

VHF Radio:

UHF Radio:

800 MHz Radio:

Mandatory Firmware: (No Charge) For V1, V2, V3, V4

CPU Upgrades and Plug-ins

Description	Full Description	Nomenclature	APC	Price
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	085	\$286.00

DI and DO Modules (A 24V Floating reference may be required for your application.)

Description	Full Description	Nomenclature	APC	Price
ADD: 16 DI FAST 24V IEC TP2	16DI 24V DC per IEC 61131-2 Type 2	V117	085	\$200.00
ADD: 16 DO EE RELAY 2A	-	V616	085	\$345.00
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32	FPN1653	085	\$80.00

	DI module can hold up to two PS, all other modules just one PS.			
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RTU- Frames & Housings and Rack Mount 19"

Frames and Housings:

Description	Full Description	Nomenclature	APC	Price
ADD: 5 I/O SLOTS FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V105	085	\$185.00
ADD: HOUSING TAMPER SWITCH	-	V224	085	\$90.00

Rack Mount 19"

Description	Full Description	Nomenclature	APC	Price
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	085	\$385.00
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	085	\$130.00
ADD: EXPANDED 19 CHAS	-	V269	085	\$230.00

ACT (Audio Control & Tone Module)

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Description	Full Description	Nomenclature	APC	Price
ADD: ACT MODULE FOR ACE3600	-	V155	085	\$600.00

FSA4000 System Software & Licenses

FSA4000- FSA Application & Configuration S/W

Ver9 - A7.13; Ver7 - A7.11; Ver6 - A7.9; Ver5 - A7.8; Ver4 - A7.7; Ver3 - A7.6; Ver2 - A7.5; Ver1 - A7.4

Description	Full Description	Nomenclature	APC	Price
FSA4000 CONFIGURATION APPLICATION S/W & DOC. V7	-	F5589	382	\$20,000.00

FSA4000- Licenses:

Use F5521 main model to order the following S/W Licenses.

Version 9: (A7.13)

Version 7: (A7.11)

Version 6: (A7.9)

Version 5: (A7.8)

Version 4: (A7.7)

Version 3: (A7.6)

Version 2: (A7.5)

Version 1: (A7.4)

Upgrade and Misc. S/W

Upgrade S/W:

Ver9 - A7.13; Ver7 - A7.11; Ver6 - A7.9; Ver5 - A7.8; Ver4 - A7.7; Ver3 - A7.6; Ver2 - A7.5; Ver1 - A7.4

Description	Full Description	Nomenclature	APC	Price
FSA4000 CONFIGURATION APPLICATION S/W UPGRADE TO V7	-	F5580	382	\$10,000.00

Complement CD's:

Fiber Cable from FEP to AMC & from FEP to CAD

RS232 to Fiber Converter:

The use of Fiber Optic cable between the AMC and FEP & CAD and FEP allow the distance between the devices to be greater than 20ft.

The use of Fiber Optic cable significantly reduces data errors caused by external interference imposed on standard RS232 cables.

Two RS232 to Fiber Converters are required for each Fiber Optic cable. (One RS22 to Fiber Converter at each end.)

Select the DSLDLF386837 unit for 110/240VAC operation.

Select the DSTPST388166 unit for 12VDC operation.

Select the DSTORK386842 Rack Shelf (supports up to 3 converters).

NOTE - Cables from AMC and FEP to converter are supplied by CCSI during staging. Cable drawings are included in FSA documentation for field deployments.

Fiber Optic Cable:

Select the DSEFN110SCSC for 100 foot cable.

Select the DSEFN110SCSC200 for 200 foot cable.

ARTA CABLE Assembly (This Cable is required when the ARTA Feature is Ordered) (for the list of individual parts that make up this Kit, go to the FSA Ordering

Guide: <http://compass.mot-solutions.com/cgi?>

[func=ll&objid=308575042&objAction=browse&sort=name](http://compass.mot-solutions.com/cgi?func=ll&objid=308575042&objAction=browse&sort=name))

Accessories for FSA4000

Alphanumeric Alarm Paging Option

Description	Full Description	Nomenclature	APC	Price
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00
CABLE, MODEM 3M W/ADAPTER EPP	One is required per server with paging option.	FLN6458	454	\$48.00

Terminal Blocks and Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 40 WIRE CABLE W/ TB HOLDER 3 M	3 meter numbered cable with connector. Fits 32DI, 32DO/DI, 16AI, 16DO , Mixed I/O, 8AI/4AO, and 8DO-SBO.	V358	085	\$162.00
ADD: 20 WIRE CABLE W/ TB HOLDER 3 M	3 meter color-coded cable with connector. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V253	085	\$105.00

Printers

Description	Full Description	Nomenclature	APC	Price
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00

Radio Installation Kits (for the Second / Voice radio) in the ACE3600

Description	Full Description	Nomenclature	APC	Price
XTL5000/2500 ANALOG INSTALLATION KIT	-	FLN3640	085	\$375.00
XTL5000/2500 DIGITAL INSTALLATION KIT	-	FLN3649	085	\$272.00
CM200/CM140/EM200/GM3188 INSTALLATION KIT	-	FLN3635	455	\$319.00
HT750/GP320/328/PRO5150 INSTALLATION KIT	-	FLN3637	085	\$392.00
CDM750 INSTALLATION KIT	-	FLN3638	085	\$313.00

Analog Radio Note: (When adding a Second / Voice Analog Radio.)

When the system requires the addition of another Analog Radio / Second Analog Radio this Accessory is required FLN3696.

Description	Full Description	Nomenclature	APC	Price
ADD-ON RADIO PORT (GRI)	Kit includes screws and spacers.	FLN3696	085	\$115.00

InTouch Software

InTouch 10.1 (Used in Version 5, 6, 7, 9. (A7.8, A7.9, A7.11, A7.13)

	Full			
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Description	Description	Nomenclature	APC	Price
INTOUCH RUNTIME 60K TAG W-I/O, V10.1, LIC ONLY	-	TT2176	708	\$10,900.00
INTOUCH RUNTIME 60K TAG W/O-I/O, V10.1, LIC ONLY	-	TT2177	708	\$8,700.00
INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	-	TT2180	708	\$18,700.00
UPGRADE, INTOUCH DEV 60K TAG PRE-V10.0 TO V10.1, LIC ONLY	-	TT2182	708	\$11,300.00
UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	-	TT2183	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1,LIC ONLY	-	TT2184	708	\$5,500.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	-	TT2185	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2186	708	\$4,400.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	-	TT2187	708	\$0.00

Manuals

Version 1.0 Manuals:

Version 2.0 Manuals:

Version 3.0 Manuals:

Version 4. 0 Manual:

Version 5. 0 Manual:

Version 6. 0 Manual:

Version 7. 0 Manual and future releases includes the documentation with the Configuration Application DVD

Previous Versions of InTouch Software

Note to Customers who are Updating InTouch S/W on their Servers or Clients.
License numbers are required. Instructions to obtain the License information is listed at the end of this page.

InTouch v10.0 (Used in Version 2 & 3 & 4 - A7.5 & A7.6 & A7.7)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME WITH I/O V10.0 SW	-	TT2032	708	\$10,900.00
INTOUCH RUNTIME W/O I/O V10.0 SW	-	TT2033	708	\$8,700.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	-	TT2034	708	\$18,700.00
INTOUCH RUNTIME WITH I/O UPGRADE TO V10.0	-	TT2035	708	\$5,500.00
INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	-	TT2036	708	\$4,400.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED UPGRADE TO V10.0 SW	-	TT2037	708	\$11,300.00
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00

For Previous Versions of InTouch 9.5 which was only used in A7.4, please refer to the Ordering Guide (bottom of page)

<http://my.mot.com/portal/site/NAGCM/menuitem.c345abd7a844b8b31700411055b400a0/>

INSTRUCTIONS TO OBTAIN InTouch LICENSE INFORMATION:

****For the following steps, close down Intouch WindowViewer, if running****

I. Document Version of Intouch

- 1) Go to Start -> Programs -> Wonderware FactorySuite -> Intouch
- 2) When Intouch starts up, go to Help -> About Application Manager
- 3) Record the version number

II. Document Version of Intouch Application

- 1) Go to Start -> Programs -> Wonderware FactorySuite -> Intouch
- 2) When Intouch starts up, locate the Name and Path of your application
- 3) Locate the column labeled Description and Record the Version

****Intouch WindowViewer can now be restarted by going to Start -> Programs -> Wonderware FactorySuite -> InTouch WindowViewer****

III. Document Intouch License Serial Number

- 1) Double-click the My Computer icon on the Desktop
- 2) Go to (C:) -> Program Files -> FactorySuite -> Common -> License
- 3) Double-click wwsuite.lic
- 4) Record the Serial Number from the first line of the file

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN6691	HP LASERJET PRINTER CP3525DN 220V	424	18
FIXEDSTN	SCB	DLN6692	HP LASERJET PRINTER CP3525DN 110V	877	18
FIXEDDATA	ISR	F5580	FSA4000 CONFIGURATION APPLICATION S/W UPGRADE TO V7	382	70
FIXEDDATA	ISR	F5589	FSA4000 CONFIGURATION APPLICATION S/W & DOC. V7	382	70
ALARMCONT	ISR	F7509	ACE 3600 MAIN MODEL	085	32
ALARMCONT	ISR	F7509	ACE 3600 MAIN MODEL	085	32
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3635	CM200/CM140/EM200/GM3188 INSTALLATION KIT	455	49
ALARMCONT	ISR	FLN3637	HT750/GP320/328/PRO5150 INSTALLATION KIT	085	42

ALARMCONT	ISR	FLN3638	CDM750 INSTALLATION KIT	085	18
ALARMCONT	MGK	FLN3640	XTL5000/2500 ANALOG INSTALLATION KIT	085	100
ALARMCONT	ISR	FLN3640	XTL5000/2500 ANALOG INSTALLATION KIT	085	27
ALARMCONT	MGK	FLN3649	XTL5000/2500 DIGITAL INSTALLATION KIT	085	10
ALARMCONT	ISR	FLN3649	XTL5000/2500 DIGITAL INSTALLATION KIT	085	19
ALARMCONT	SCB	FLN3696	ADD-ON RADIO PORT (GRI)	085	5
ALARMCONT	SCB	FLN3696	ADD-ON RADIO PORT (GRI)	085	5
SYSPERIPH	ISR	FLN6458	CABLE, MODEM 3M W/ADAPTER EPP	454	39
ALARMCONT	CDP	FPN1653	24V FLOATING POWER SUPPLY	085	5
ALARMCONT	CDP	FPN1653	24V FLOATING POWER SUPPLY	085	5
QUOTEDS	AID	TT1964	SCADALARM PAGING WITH MODEM V6.0	708	2
QUOTEDS	AID	TT2032	INTOUCH RUNTIME WITH I/O V10.0 SW	708	1
QUOTEDS	AID	TT2033	INTOUCH RUNTIME W/O I/O V10.0 SW	708	1
QUOTEDS	AID	TT2034	INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	708	4
QUOTEDS	AID	TT2035	INTOUCH RUNTIME WITH I/O UPGRADE TO V10.0	708	23
QUOTEDS	AID	TT2036	INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	708	11
			INTOUCH DEVELOPMENT STUDIO		

QUOTEDS	AID	TT2037	UNLIMITED UPGRADE TO V10.0 SW	708	30
QUOTEDS	AID	TT2176	INTOUCH RUNTIME 60K TAG W-I/O, V10.1, LIC ONLY	708	7
QUOTEDS	AID	TT2177	INTOUCH RUNTIME 60K TAG W/O- I/O, V10.1, LIC ONLY	708	1
QUOTEDS	AID	TT2180	INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	708	5
QUOTEDS	AID	TT2182	UPGRADE, INTOUCH DEV 60K TAG PRE-V10.0 TO V10.1, LIC ONLY	708	35
QUOTEDS	AID	TT2183	UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	708	11
QUOTEDS	AID	TT2184	UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1,LIC ONLY	708	2
QUOTEDS	AID	TT2185	UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	708	11
QUOTEDS	AID	TT2186	UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	708	35
QUOTEDS	AID	TT2187	UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	708	6

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



GCM 8000 Comparator

Ordering Information

Features

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installations can enable new features
- Remote system software upgrades and patching includes system release migration and security updates
- Easy to service - only front access is required and modules are hot-swap capable
- Two comparator modules per chassis means comparators are smaller than ever
- Daisy-chainable power supplies among comparator chassis ensures seamless operation
- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Chassis is 3 RU
- Size: 5.25" x 19" x 18"

General Information

The GCM 8000 Comparator supports Motorola's trunking multisite/simulcast operation and ASTRO 25 Conventional voting and simulcast/voting operation across all frequency bands. The GCM 8000 utilizes a frame-by-frame voting method assemble the best quality voice signal possible by creating a new signal using the best parts of each of the received signals.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Main Model

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	-	T7321	112	\$3,000.00

Modules

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	Number of modules inside the GCM chassis can be 1 or 2 depending on the application.	CA01183AA	112	\$2,500.00

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00

ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION	Trunking comparator software	CA01185AA	595	\$11,500.00
ADD: TRUNKING REDUNDANT COMPTR SW	-	CA01974AA	595	\$1,500.00
ADD: P25 TDMA COMPARATOR SOFTWARE	-	CA01901AA	595	\$16,000.00
ADD: ASTRO 25 CONVENTIONAL SOFTWARE	Conventional comparator software	CA01484AC	595	\$10,500.00
ADD: ASTRO 25 CONV SIMULCAST SW	-	CA01502AC	595	\$3,000.00
ADD: ADD: ASTRO 25 CONV VOTING SW	-	CA01505AC	595	\$2,000.00
ADD: SOFTWARE LICENSE SINGLE EXPANSION PORT	-	CA01914AA	595	\$1,350.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission	CA03111AA	112	\$0.00

	(CEC) regulations.			
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Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00

FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6805	FRU: ENERGY EFFICIENT POWER SUPPLY	112	13
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
FIXEDSTN	SCB	T7321	GCM 8000 COMPARATOR	112	12

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[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



GCP 8000 Site Controller

Ordering Information

Features

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installation can enable new features
- Remote system software upgrades and patching includes system release migration and security updates
- Easy to service - only front access is required and modules are hot-swap capable
- Daisy-chainable power supplies ensure seamless resources availability in the event of a power supply issue
- Compact and integrated design for versatile and efficient use of site space
- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Chassis is 3RU
- Supports Motorola's ASTRO 25 Trunking Simulcast/multisite and 25 kHz High Performance Data operation
- Size: 5.25" x 19" x 18"

General Information

The GCP 8000 Site Controller is used at ASTRO 25 Trunking sites to assign voice and data channels and manage and report alarms on site resources. The GCP 8000 Site Controller supports ASTRO 25 trunking simulcast/multisite and Motorola's 25 kHz High Performance Data system operations. The design enables redundancy either within the chassis (in the

case of HPD) or by using two chassis (in the case of trunking simulcast). Constant communication between the active and standby/redundant site controllers allows the standby/redundant controller to automatically take over the site link or site control operations should the active GCP 8000 fail.

Ordering Requirements

Options

Comparator

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Main Model

Description	Full Description	Nomenclature	APC	Price
GCP 8000 SITE CONTROLLER	-	T7038	112	\$3,000.00

Options

Site Controller

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00

System Release Options

(must include one)

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Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA01194AA	595	\$62,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: CIRCUIT BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA00025AG	595	\$62,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00

Remote Site Licenses

Description	Full Description	Nomenclature	APC	Price

ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SMLCST RMT ST LIC IV&D+ENH DATA	-	CA03004AA	595	\$7,000.00
ADD:SMLCST RX RMT ST LIC VOICE ONLY	-	CA03007AA	595	\$0.00
ADD:SMLCST RXO RMT SITE LIC IV&D	-	CA03006AA	595	\$2,000.00
ADD:SMLCST RX RMT ST LIC IVD+E/DATA	-	CA03005AA	595	\$5,000.00
ADD:GEO-REDUN BACK-UP SC LIC	-	CA02474AA	595	\$0.00

Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
	The CEC Compliance option is required for all orders shipping to California and Oregon starting			

ADD: CEC COMPLIANCE	January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
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Reference Distribution Modules/Expansion Hub Modules
(for Remote Sites with Trunking GPW 8000 Receivers)

Description	Full Description	Nomenclature	APC	Price
ADD : XHUB STANDALONE	-	CA00884AB	112	\$2,000.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00

Reference Distribution Module Software

Description	Full Description	Nomenclature	APC	Price
ADD: RDM SW FOR RX ONLY	-	CA01537AC	595	\$1,000.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00

FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

Associated Products

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 EXPRESS CONFIGURATION MANAGER	-	T7555	877	\$5,000.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6805	FRU: ENERGY EFFICIENT POWER SUPPLY	112	13
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8

FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
FIXEDSTN	SCB	T7038	GCP 8000 SITE CONTROLLER	112	23
FIXEDSTN	SCG	T7555	ASTRO 25 EXPRESS CONFIGURATION MANAGER	877	5

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[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

**GENWATCH3-ATIA (Multi-Site)
ENHANCED PERFORMANCE MANAGEMENT**

Updates

Ordering Information

Overview

The GenWatch3-ATIA empowers system administrators to monitor, manage, and report on Motorola Solutions P25 voice and data systems from multiple sources in multi-site enterprise networks. It uses GenGET (Genesis Global Enterprise Tool) utility to capture data from sources such as ATIA (radio traffic), GGSN (IV&D and Enhanced Data), GPS (Motorola Solutions IMW), SNMP, and UEM. GenWatch-ATIA then distributes that data to desired connection points.

GenWatch3-ATIA is certified, sold, and supported directly through Motorola Solutions.

Configuration

Step 1: Choose the appropriate the GW3-ATIA Model

Models

New GW3-ATIA Model (TT2234)

This model is used when ordering a new GenWatch3-ATIA.

TT2234 includes:

Licensing:

1 GW3-ATIA Connection

5 GW3-ATIA Client Connections

Unlimited Archiving

1 Year Maintenance and Total Support

GenGET Reader, DataProc and DB Server

Core Modules:

Alias Manager

Security Manager

ATIA Input Manager

ATIA Processing and Archiving

Raw Data Archiving

Trigger Module

Live Views:

All Activity Screen

Channel Status Display

System Activity Summary

SysVista Performance Dashboard

Activity by Talkgroup

Affiliation Display

KPI Display

iVISTA Dashboard Skyview Map

Base Reports:

Full Suite of 30+ ATIA Based Reporting

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA BASE	Includes: 1.MAIN GenSZAI Reader - Reader module resides on a PC at the zone controller to receive the ATIA stream UDP packet from the zone controller and passes them on to GW3. 2.MAIN GenSZAI DataProc - co-resides with the Database server at the Network Ops Center to process the ATIA stream from the Reader 3.MAIN GenSZAI Database Server - Database Server module co-resides with the DataProc at the Network Ops Center to	TT2234	708	\$51,480.00

	<p>store the decoded ATIA stream from the DataProc The ATIA data stream ordered independently. Professional installation services must be ordered from GenCore Candeo (1047777 - aka Genesis) via Tigers for ALL GenWatch3-ATIA based solutions purchased. Please contact Kelley Clarida kclarida@genesisworld.com for any professional services quotations</p>			
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Fielded GW3-ATIA Model (TT2266)

This model is used when adding to a GenWatch3-ATIA in the field.

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA ADD-ON	ONLY valid with a licensed copy of GenWatch3 software. This is a zero dollar model used for adding on options after purchasing GenWatch3 license. This model ordered alone includes NOTHING.	TT2266	708	\$0.00

Step 2: Order Additional Zones (or DSR) GW3-ATIA Software if required

This option is needed to support additional zones or DSR.

Requires (1) per additional zone or DSR.

Description	Full Description	Nomenclature	APC	Price
SOFTWARE FOR ADDITIONAL GENWATCH3 ATIA ZONES	Additional Zone (or DSR) GenWatch-ATIA Software * Requires (1) per DSR or additional zone	TT05394AA	708	\$25,750.00

Step 3: Order GW3-ATIA "Optional Enhancements" if desired

Additional GW3-ATIA Client Connection Licenses - (Optional Enhancement)

This option provides a bundle of 5 additional simultaneous client connections to GW3-ATIA.

Description	Full Description	Nomenclature	APC	Price
GW3-ATIA CLIENT LICENSES (SOLD IN	sold in packs			

GROUPS OF 5)	of 5	TT05417AA	708	\$6,600.00
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GenWatch3 Data Warehouse - (Optional Enhancement)

The GenWatch3 Data Warehouse solution optimizes multi-zone two-way network analytics by consolidating data into a single centralized storage archive. With GenWatch3 Reports, data is available on demand for viewing and analysis.

Description	Full Description	Nomenclature	APC	Price
ADD: DATA WAREHOUSE SOFTWARE	Data Warehouse for long term storage	TT06065AA	708	\$15,840.00

Centralized Manager of Agency Filters (CMAF) - (Optional Enhancement)

The CMAF filters ATIA data and distributes it to agencies by zone, talkgroup, and/or subscriber ID. In the event of an interruption, the data stream is buffered, so no data is lost. It is the perfect solution for multi-zone networks with member agencies who want to manage and report on their own subscribers.

Description	Full Description	Nomenclature	APC	Price
ADD: CMAF - CENTRALIZED MANAGER FOR AGENCY FILTERS	Centralized Manager for Agency Filters Allows system owners to filter data to be sent to member agencies for monitoring, management, archiving and reporting. This includes the capability for creating ONE filter.	TT06063AA	708	\$7,200.00
ADD: CMAF - ADDITIONAL FILTERS	Allows ONE additional Filter to be created.	TT06064AA	708	\$2,160.00

Genesis ATIA Forwarder Enhancement - (Optional Enhancement)

Genesis ATIA Forwarder receives data from the ASTRO 25 Core, then sends it unchanged to multiple destinations within and outside of the Customer Enterprise Network (CEN). The ATIA Forwarder is a reliable, hand-off solution that not only forwards raw ATIA data, but remains running as a background service. As long as the host PC is on, the ATIA Forwarder is up and active. Even in the event of an outage, the service will automatically re-start once the computer reboots. It is useful in helping eliminate wasted time and preventing lost data.

Description	Full Description	Nomenclature	APC	Price

GW3-ATIA FORWARDER FOR FIRST ZONE	ATIA Forwarder allows the forwarding of unaltered, native ATIA data to additional devices - either inside or outside of the CEN.	TT05704AA	708	\$6,600.00
GW3-ATIA FORWARDER FOR ADDITIONAL ZONES	Additional ATIA Forwarder per zone.	TT05705AA	708	\$3,300.00

Genesis ATIA Replay Enhancement - (Optional Enhancement)

Genesis ATIA Replay make it possible to revisit chosen moments in time, as selected from data sets in the SQL database. ATIA Replay provides a look back to specified moments in time. Rewind, fast-forward, loop, pause, speed up, or slow down the action.

Description	Full Description	Nomenclature	APC	Price
ADD: ATIA REPLAY SOFTWARE	ATIA Replay - Replay Data Set from the GenWatch database through the Activity and Channel Screens in GW3 and SkyViewII. **Must run on a separate GW3 Computer**	TT06133AA	708	\$16,500.00

Genesis SAM (CloneWatch) Enhancement - (Optional Enhancement)

SAM - Subscriber Access Manager, formerly known as CloneWatch, is a powerful add-on tool to Genesis' industry-standard performance management solution GenWatch3. It identifies and helps eliminate the threat of cloned radios. SAM monitors resources (groups and radios) for suspicious activity. A suspect is a resource (radio ID or group) that breaks a predefined rule or expected behavior. Suspect resources are added to a list where the suspect's activities are then displayed and recorded in details.

Description	Full Description	Nomenclature	APC	Price
CLONEWATCH	Optional module for GW3. Dynamically find and show radios suspected of being cloned.	TT05415AA	708	\$12,540.00

GenSPOut (Genesis Specified Packet Output) Enhancement - (Optional Enhancement)

GenSPOut splits complex trunking network data, filters and distributes it to its desired destinations. It is a powerful specialty module for GenWatch3. GenSPOut formats decoded Control Channel or ATIA data and passed it to a variety of external devices, such as specialized CAD systems, consoles, voice recorders, alarm devices and more! Note: Not all GenSPOut output packets are available from all input sources. Contact Genesis for full details.

Description	Full Description	Nomenclature	APC	Price
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GW3 GENSPOUT	Allows a customizable data feed from GenWatch3 to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc. Includes (1) connection.	L3580	708	\$6,360.00
ADD: GENSPOUT - ADDITIONAL CONNECTI	Additional licensed connections for GenSPOut.	TT06067AA	708	\$1,320.00

GenWatch3 iVista Web-Based Agency Reporting - (Optional Enhancement)

iVista Web-Based Agency Reporting allows Administrators to filter data by Agency so member agencies can run their own reports.

Description	Full Description	Nomenclature	APC	Price
IVISTA WEB BASED AGENCY REPORTING	iVista Web-based Agency Reporting Tool allows Administrator to filter data by Agency so member agencies can run their own reports. Includes Administrator package + (1) Agency Filter.	TT05679AA	708	\$13,860.00
IVISTA ADDITIONAL AGENCY FILTER	iVista Web-based Agency Reporting Tool - Additional Agency Filters. Must have ordered TT05679AA previously.	TT05680AA	708	\$4,620.00

GenWatch3-DATA: IV&D and Enhanced Data Enhancement - (Optional Enhancement)

GenWatch3-ATIA can be enhanced by adding data inputs for Monitoring, Management and Reporting. GenWatch3-DATA receives and archives GGSN feeds from the ASTRO 25 IV&D and Enhanced Data networks to provide in-depth, forensic reporting and analysis.

The following options are for use with ASTRO 25 IV&D:

Description	Full Description	Nomenclature	APC	Price
GGSN INTEGRATION	Archiving and Reporting for Motorola IV&D.	TT05628AA	708	\$12,000.00

The following options are for use with ASTRO 25 Enhanced Data:

Description	Full Description	Nomenclature	APC	Price
GENESIS ENHANCED DATA ADD-ON	Genesis Archiving and Reporting Tool for Enhanced Data statistics (requires existing TT2233, TT05414AA or TT05628AA)	TT05757AA	708	\$12,000.00

Genesis UEM Enhancement - (Optional Enhancement)

The Genesis UEM Enhancement views the health of a system's hardware, then analyzes trends that might not be evident with the snapshot view from the ASTRO 25 UEM. It receives UEM traps through a connection to the North Bound Interface (NBI) and archives every scrap of data into MS SQL database for as long as desired.

Description	Full Description	Nomenclature	APC	Price
UEM-NBI INTEGRATION	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. This is ordered independently. Qty 1 must be ordered per NBI connected to GenWatch3*	TT05630AA	708	\$33,000.00
UEM-NBI INTEGRATION ADDITIONAL LICENSES	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. After Qty 1 of TT05630AA is ordered, subsequent NBI are licensed using TT05678AA	TT05678AA	708	\$16,500.00

Genesis Location Services - (Optional Enhancement)

Genesis Location Services extends the functionality of the ASTRO 25 Location Tracking Solution. It displays the GPS location of subscriber units, as reported by Motorola Solutions Intelligent Middleware (IMW). Genesis Location Services captures and archives location information on subscribers for live views and reporting.

Description	Full Description	Nomenclature	APC	Price
IMW ENHANCEMENT	MUPS Archiving, Reports, and Live Display (outdoor location/GPS integration) *The MUPS must be enabled. This is ordered	TT05629AA	708	\$45,600.00

	independently. Qty 1 must be ordered per MUPS connected to GenWatch3*			
ADD: IMW ENHANCEMENT FOR ADDITIONAL ZONE OR DSR	Requires one IMW Connection per additional zone and/or DSR.	TT06090AA	708	\$22,800.00

GenWatch3 CADI Enhancement - (Optional Enhancement)

The GenWatch3 Multi-CADI Enhancement allows multiple CAD clients access to ASTRO 25 systems. With the CADI enhancement, CAD clients can send radio commands, and receive PTT IDs and Emergencies. The solution is very flexible in that it overcomes the radio system limitation of being able to connect to only one CAD client.

Description	Full Description	Nomenclature	APC	Price
ADD: GENESIS INTERFACE TO ASTRO 25 CADI	Integrates with ASTRO 7.x CADI Port and serves as a full CAD client for sending radio commands (Selective Radio Inhibit, Radio Check, Regroup, Database Snapshot, Call Alert, Emergency ACK, Statuses and Messages). Replicates the 7.x CADI Port seamlessly to multiple agencies with filtering available via GW3. Comes with (1) CADI Connection. **Requires one CADI Connection per primary zone**.	TT05878AA	708	\$32,340.00
ADD: ADDITIONAL CONNECTIONS GENESIS INTERFACE TO ASTRO 25 CADI	Additional CADI Client Connections.	TT05879AA	708	\$4,620.00

Advanced Power Monitor (APM) Enhancement - (Optional Enhancement)

Genesis performance management solutions are modular and have the ability to provide a comprehensive view of much more than just the APM. On ASTRO 25 systems, Genesis correlates call activity, busies, system health, and a vast amount of additional data, along with RF power information from the APM. This means that system owners have an unparalleled view of the user's call experience from multiple angles.

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Description	Full Description	Nomenclature	APC	Price
ADV PWR MONITOR LIC	GenWatch3 displays and reports power levels at user-defined intervals from the APM. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05721AA	708	\$3,300.00
ADV PWR MONITOR ADD CONN	Include a connection to the APM to receive current power levels at user-defined intervals. **Requires one connection license per APM**.	TT05722AA	708	\$264.00

Genesis Provisioning Manager Interface (PMI) Enhancement - (Optional Enhancement)

A GenWatch3 add-on, the Genesis PMI Enhancement works as a standalone solution, integrates with other Genesis performance management solutions, or integrates with third-party accounting and billing/asset management applications. It allows system operators to manage various system applications and assets through a single point of entry. The Genesis PMI enhancement makes it possible for simple remote provisioning through the ASTRO 25 PMI and synchronization with third-party management and accounting software. With one intuitive interface, securely exchange information across multiple applications.

Description	Full Description	Nomenclature	APC	Price
PROVISIONING PORTAL BUNDLE	The Genesis PMI Enhancement makes it possible for simple remote provisioning on the Motorola Provisioning Manager Interface and synchronization with third party asset management and accounting software (with the addition of GENIIB) **NOTE: THIS DOES NOT INCLUDE ANY POSSIBLE MOTOROLA FEES THAT MIGHT BE NECESSARY TO ACTIVATE THE UCS PROVISIONING FEATURE IN THE SWITCH.	TT05697AA	708	\$70,200.00

Genesis Interoperability Information Broker (GenIIB) Enhancement - (Optional Enhancement)

GenIIB is the main integration point between the Genesis Suite of network management, reporting and billing products and third party applications. GenIIB allows completely disparate systems to interact with one or more of the systems already connected to one or more Genesis products.

Description	Full Description	Nomenclature	APC	Price
ADD: GENESIS INTEROPERABILITY BROKER	GenIIB includes a programming API that can be used by third party external devices or software programs to pull live or stored information from the Genesis Databases and push customer driven information or instructions back to those systems and back into the database as well.	TT05880AA	708	\$39,600.00

Step 4: Choose GenWatch-ATIA Hardware

GW3-ATIA Base Hardware (TT05413AA)

GW3-ATIA (GG) MAIN Reader Computer Includes: Rack Mount Intel Pentium Dual Core, 8 GB+ RAM, 500 GB 7200 RPM Hard Drive - RAID 1 configuration, rails for rack mount, single power supply, 5 Year Next Business Day Service Warranty. Monitor not included. **Includes Required Software: Windows Server 2012R2 (or newer).**

GW3-ATIA (GG) MAIN Data Processor and Database Server Computer Includes: Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant TAID with 10k RPM HDD or SDD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** **Includes Required Software: Windows Server 2012R2 (or newer), MS SQL Server 2016 (or newer) and MS Excel 2016.**

GW3-ATIA Client Computer Includes: Intel™ Pentium® Quad Core Processor, 1GB Graphics, Dual Monitor Capable Graphics Card, 16GB SDRAM Memory, CD/DVD-ROM, 500GB SATA, 10K RPM Hard Drive, COM Port, Monito, Sound plus basic speakers, Keyboard, Mouse, External UPS, 5 Year Next Business Day Service Warranty. **Includes Required Software: Windows 10, MS Excel 2016.**

Description	Full Description	Nomenclature	APC	Price
	1. Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 GHz, 4GB, SATA 500 GB 7200 RPM Hard drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor. Windows Server OS, 3 Year			

GENWATCH3 ATIA BASE HARDWARE	<p>Next Business Day Service</p> <p>2.Rack Mount Data Processor / Database Server: Dell PowerEdge R720 server, Intel Xeon E5-2620 2.0 GHz, Ready Rails 2-post/4-post, RAID 6, 6x146GB Hard Drives, DVD-ROM, NO Keyboard, Mouse or Monitor, Window Server OS, MS SQL Server, 3 Year Next Business Day Service 3.</p> <p>GenWatch3-ATIA Host Computer: Dell Precision T3600, Quad Core Processor, 512MB Graphics Card, 6GB RAM, CD/DVD ROM, 500GB SATA Hard Drive, 23" flat panel monitor, Mouse, Keyboard, Windows OS, MS Office Basic, 3 Year Next Business Day Service</p>	TT05413AA	708	\$30,400.00
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GW3-ATIA Hardware for Additional Zones (or DSR)

Description	Full Description	Nomenclature	APC	Price
GW3-ATIA HARDWARE FOR ADDITIONAL ZONES	<p>Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 GHz, 4GB, SATA 500 GB 7200 RPM Hard drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor. Windows Server OS, 3 Year Next Business Day</p>	TT05416AA	708	\$5,800.00

GW3-ATIA (GG) SECONDARY Data Processor and Database Server

Description	Full Description	Nomenclature	APC	Price
	<p>GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer</p> <p>Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available</p>			

ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	storage space in redundant TAID with 10k RPM HDD or SDD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$18,200.00
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GW3-ATIA (GG) Data Warehouse

Description	Full Description	Nomenclature	APC	Price
ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant TAID with 10k RPM HDD or SDD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$18,200.00

GW3-ATIA Client Workstation

Description	Full Description	Nomenclature	APC	Price
	GW3-ATIA Client Includes: Dual Core Processor, 8GB SDRAM Memory, CD/DVD-ROM, Minimum			

GW3-ATIA CLIENT HARDWARE	160GB SATA, 7200 RPM Hard Drive, Native COM Port, Moitor, Sound plus basic speakers, Keyboard, Mouse, Modem, 5 Year Next Business Day Service Warranty. Includes Required Software: Windows 10 and MS Excel 2016.	TT05418AA	708	\$5,400.00
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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

**GENWATCH3-OTA (Single Site)
ENHANCED PERFORMANCE MANAGEMENT**

Ordering Information

Overview

The GenWatch3 solution empowers system administrators to monitor, manage, and report on Motorola Solutions voice and data systems for commercial, private and public safety agencies. One integrated tool pulls together all system-wide data to display real-time activity, send critical notifications, and archive data for forensic reporting and comprehensive analysis. GenWatch3 significantly reduces the amount of time spent assembling or dissecting data from various sources while substantially increasing the amount of information readily available. This provides system administrators the ability to proactively measure and meet system performance metrics. GenWatch3 is certified, sold, and supported directly through Motorola Solutions.

Configuration

Step 1: Choose the appropriate the GW3-OTA Model

Models

New GW3-OTA Model (TT2264)

This model is used when order a new GenWatch3-OTA.

TT2264 includes:

Licensing:

1 GW3 RF Site Connection (3600 or P25)

1 GW3 Client Connection

2 Months Archiving

1 Year Software Warranty

Core Modules:

Alias Manager

Security Manager

Site Input Manager

Live Views:

All Activity Screen

Channel Status Display

System Activity Summary

KPI Display

iVISTA Dashboard

Base Reports:

Activity by Radio Over Time

Activity by Talkgroup Over Time

Activities Over Time

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE	GenWatch3-OTA Network Management Software Based Bundle.	TT2264	708	\$16,200.00

Fielded GW3-OTA Model (TT2265)

This model is used when adding to a GenWatch3-OTA if the field.

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE ADD-ON	This should only be ordered to add features or capacity to an EXISTING GenWatch3-OTA solution.	TT2265	708	\$0.00

Step 2: Order System Control Channel Option

This option is required when order a new GenWatch3-OTA.

Step 3: Order Additional Site Monitoring if required

Description	Full Description	Nomenclature	APC	Price
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GW3-OTA ADDTL SIMULATNEOUS SITE MONITORING	Maximum of 5 Systems Total	TT05154AA	708	\$2,640.00
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Step 4: Order GenWatch3-OTA "Optional Enhancements" if desired

Description	Full Description	Nomenclature	APC	Price
AFFILIATION / DEAFFILIATION DISPLAY	Displays Affiliations and Deaffiliations. Search for and display current affiliation of a single ID or monitor affiliations by site and talkgroup.	TT05155AA	708	\$1,320.00
UPGRADE FROM (3) EXCEL REPORTS TO FULL SUITE (20+)	Upgrade From Limited Reports (3) to Full Suite of Excel Reports (20+)	TT05234AA	708	\$5,020.00
TRIGGER MONITOR	MONITORS ARRAY OF CONTROL CHANNEL ACTIVITY & ALERTS DESKTOP WITH SELECTED EVENTS	TT05217AA	708	\$2,245.00
SYSVISTA PERFORMANCE DASHBOARD	Overall dashboard view of your system from a graphical interface.	TT05160AA	708	\$1,980.00
ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - 9 GROUP DISPLAY LIMIT	Graphical interface that displays Talkgroup based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. Limit 9 Talkgroups displayed simultaneously.	TT05411AA	708	\$600.00
	Graphical interface that displays Talkgroup			

ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - NO DISPLAY LIMIT	based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. No Limit to the number of Talkgroups displayed simultaneously.	TT05410AA	708	\$8,000.00
GW3-OTA UPGRADE FROM 2 MO. TO 12 MO. ARCHIVING	Requires SQL Workgroups (included if order the L3561 PC)	TT05235AA	708	\$6,000.00
GW3 GENSPOUT	-	L3580	708	\$6,360.00
ADD: GENSPOUT - ADDITIONAL CONNECTI	Additional licensed connections for GenSPOut.	TT06067AA	708	\$1,320.00
CLONEWATCH (DETECTING DUPLICATED RADIOS)	Dynamically find and show radios suspected of being cloned. *Only one instance can run on the GW3 Host.	TT05216AA	708	\$6,600.00
ADV PWR MONITOR LIC	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05721AA	708	\$3,300.00
ADV PWR MONITOR ADD CONN	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. ** Requires one connection license per APM.	TT05722AA	708	\$264.00

Step 5: Order Radio Command Management if required

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR CLIENT LICENSE	Simultaneous Client Connections to the GenWatch3 Host Computer.	TT05409AA	708	\$6,900.00

Step 6: Choose GenWatch3-OTA Hardware

Description	Full Description	Nomenclature	APC	Price
GW3 OTA PC BUNDLE	Intel Pentium Quad Core Processor, 512MB Graphics, Dual Monitor Capable Graphics Card, 6GB SDRAM Memory, CD/DVD-ROM, 300GB SATA, 10K RPM Hard Drive, COM Port, 23 inch Flat Panel, Sound plus basic speakers, Keyboard, Mouse, External UPS, Modem, 3 Year Next Business Day Service Warranty. Includes Required Software: Windows OS, MS Office Basic, PC Anywhere	L3561	708	\$5,525.00
CLIENT WORKSTATION (THIS INCLUDES CPU, 20 MONITOR, SPEAKERS,	Specifications: Dual Core Processor, 8GB, SDRAM Memory, 300GB Hard Drive, Monitor, Keyboard, Mouse, 5 Year Next Business Day Service Warranty. Includes Required Software: Windows 10 and MS Excel 2016.	L3522	708	\$7,499.00
ROCKETPORT -INCL 16 PORT	For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561. Includes 16 Port			

<p>PCI CD, BREAKOUT BOX, & CABLE</p>	<p>PCI Card, Breakout Box (aka Brick), and Cable. For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561.</p>	<p>L3523</p>	<p>708</p>	<p>\$2,484.00</p>
<p>GENESIS APX MODEM 700/800MHZ</p>	<p>Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.</p>	<p>L3624</p>	<p>708</p>	<p>\$7,700.00</p>
<p>GENESIS APX MODEM 900MHZ</p>	<p>Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.</p>	<p>L3625</p>	<p>708</p>	<p>\$7,700.00</p>
	<p>Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT</p>			

GENESIS APX MODEM UHF R1	INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3626	708	\$7,700.00
GENESIS APX MODEM UHF R2	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3627	708	\$7,700.00
GENESIS APX MODEM VHF	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3628	708	\$6,900.00
EXTERNAL ALARM RELAY BOX	WORKS WITH TRIGGER TO CLOSE RELAYS	TT05159AA	708	\$720.00

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



GPW 8000 Receiver

Ordering Information

Features

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installation can enable new features
- Remote system software upgrades and patching includes system release migration and security updates
- Easy to service - only front access is required and modules are hot-swap capable
- Compact and integrated design for versatile and efficient use of site space
- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Supports Motorola's ASTRO 25 Conventional voting and simulcast/voting system topologies
- Chassis is 3RU
- Size: 5.25" x 19" x 18"

General Information

The GPW 8000 Receiver supports Motorola's ASTRO 25 Conventional voting and simulcast/voting system topologies. The receiver is used to increase in-bound signal coverage for infrastructure systems so that mobile or portable coverage can be improved without deploying a full-size transmit and receive site.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Main Model

Description	Full Description	Nomenclature	APC	Price
GPW 8000 RECEIVER	-	T7540	0112	1000

Options

Receiver Modules

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 GPW 8000 RECEIVER	-	X301AR	0112	0
ADD: QTY 2 GPW 8000 RECEIVER	-	X302AR	0112	800

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	0595	0
ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	0595	0

ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	0595	0
ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	0595	0

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AB	0112	3200
ADD: VHF (136-174 MHZ)	-	X530BH	0112	3200
ADD: UHF R1 (380-435 MHZ)	-	X448AB	0112	3200
ADD: UHF R2 (435-524 MHZ)	-	X640AN	0112	3200
ADD: 900 MHZ	-	CA01821AB	112	3200

Operational Software

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	0595	0
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	0595	2000
ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA01193AB	0595	4000
ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA00025AH	0595	4000

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option			

ADD: CEC COMPLIANCE	along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	0
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	0112	500

Two-Slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD:DYNAMIC CHNL ASSIGNMENT RCVR SW	-	CA01902AB	0595	5500
ADD : P25 TDMA RCVR SOFTWARE	-	CA01842AB	0112	7000

Conventional Features

Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	0595	360
ADD: MAIN/STANDBY OPERATION	-	CA01955AB	595	135
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	0595	150
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	0595	0

Peripherals

Description	Full Description	Nomenclature	APC	Price
ADD: NARROW PRESECTOR, 136-154 MHZ	-	X265AN	0112	500
BR PRESECTOR, 150-174 MHZ	-	X265AM	0112	500
ADD: NARROW PRESECTOR 380-435 MHZ	-	X265AW	0112	500

ADD: NARROW PRESELECTOR 435- 470 MHZ	-	X265AY	112	500
ADD: NARROW PRESELECTOR 470-512 MHZ	-	X265AZ	112	500
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	0112	500
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	0112	500
ADD : RX SPLITTER	-	X465AB	0112	250

Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	0112	0
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	0
ADD: POWER CABLE, UK	-	X162AE	112	0
ADD: POWER CABLE, EUROPE	-	X187AK	0112	0
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	0112	200

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	0112	50

Cabinets

Description	Full Description	Nomenclature	APC	Price
ADD: G-SERIES INDOOR CABINET 15	-	CA02446AA	112	1250

Rack Units				
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	1600

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	0112	0


Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
POWER SUPPLY ADAPTOR,PWR EFF POWER SUPPLY CEC	-	DLN6805	112	2200
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	0454	2200
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	112	206
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	454	1200
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	454	4000
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	0112	1200
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier			

W/OPTION CARD	systems. Replaces DLN1432A.	DLN6889	0454	4000
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	0454	4000
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	454	1200
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	0112	4000
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	0112	4000
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	0454	1200
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	4000
FRU: GTR ANALOG 4W E&M SIMULCST KIT	-	DLN6821	0454	250
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	0454	25

Ship Card

Data Not Available



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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

Model



GRIP - Graphical Record I/Q and Playback

Ordering Information

General Information

The GRIP (Graphical Record I/Q and Playback) is an application for capturing streams of generic RF signals, converting the signals to

baseband I/Q samples, and storing the captured samples in a non-volatile storage device. Captured RF signals can be subsequently

re-transmitted. The GRIP application provides I/Q capture of multiple RF receivers simultaneously with synchronous start.

For optimum recording capability, the preferred device for storing RF signals is a solid state hard drive (SSD)

connected to the eSATA port, using a SATA III cable.

Features

- 160 MHz total RF input to baseband I/Q capture over 4 independent receivers at 40 MHz per path
- Supports synchronous start of record
- Adjustable sample rate; 220 kHz to 40 MHz
- Record time ~30 minute using 1 TB SSD recording 160 MHz Bandwidth

- Leverages commercial SATA III SSD for capture speed
- 80 MHz total RF transmit via 2 simultaneous paths using playback feature
- Visualization types include FFT, Waterfall, Time Domain, and Constellation
- Web browser User Interface for command and control
- Visualization while recording: 1 RF path
- Control and command via WiFi to tablet, phone, or laptop
- Operational frequency range: 70 MHz - 6 GHz

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Model

Description	Nomenclature	Price
GRIP Upgrade	FDKT00311	\$16,600
GRIP Software	FSFW00072	\$10,000

The GRIP Upgrade contains the GRIP SW, eSATA drive, antennas, web browser device, and cables required for operation. The GRIP Software contains the software CD.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES.

MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR LOST SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

GRV 8000 Comparator

Ordering Information

Features

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installations can enable new features
- Remote system software upgrades and patching includes system release migration and security updates
- Easy to service - only front access is required and modules are hot-swap capable
- Two comparator modules per chassis means comparators are smaller
- Daisy-chainable power supplies among comparator chassis ensures seamless operation
- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Chassis is 3 RU
- Size: 5.25" x 19" x 18"

General Information

The GRV 8000 Comparator supports Motorola's ASTRO 25 Conventional voting and simulcast/voting operation across all frequency bands. The GRV 8000 utilizes a frame-by-frame voting method assemble the best quality voice signal possible by creating a new signal using the best parts of each of the received signals.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Main Model

Description	Full Description	Nomenclature	APC	Price
GRV 8000 COMPARATOR	-	T8341	112	\$3,000.00

System Release

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00

Options

Comparator Modules

Description	Full Description	Nomenclature	APC	Price
ADD: COMPARATOR	-	CA03084AA	112	\$2,500.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONV ONLY SW	-	CA01949AC	595	\$4,500.00
ADD: ASTRO 25 CONVENTIONAL SOFTWARE	-	CA03320AA	595	\$10,500.00

Conventional System Configuration

Description	Full Description	Nomenclature	APC	Price
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ADD: ANALOG CONV VOTING SW	-	CA01951AC	595	\$2,000.00
ADD: ANALOG CONV SIMULCAST SW	-	CA01952AC	595	\$3,000.00
ADD: DIGITAL CONV VOTING SOFTWARE	-	CA03316AA	595	\$2,000.00
ADD: DIGITAL CONV SIMULCAST SOFTWARE	-	CA03317AA	595	\$3,000.00

Conventional Enhancements

Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	595	\$360.00
ADD: GEO REDUNDANCY	-	CA03085AA	595	\$2,000.00
ADD: ANALOG SIDETALK-MDC MUTING	-	CA03086AA	595	\$48,000.00
ADD: DIGITAL SIDETALK	Only certified for system release 2019.2+	CA03616AA	595	\$54,000.00
ADD: ENCRYPTED SIDETALK	Only certified for system release 2019.2+. Requires Digital Sidetalk CA03616AA.	CA03617AA	595	\$8,300.00
ADD: OTEK ENCRYPTION CAPABILITY	Only certified for system release 2019.2+. Requires Digital Sidetalk CA03616AA + Encrypted Sidetalk. CA03617AA.	CA03618AA	595	\$6,350.00
ADD: TRANSMITTER STEERING	Only certified for system release 2019.2+.	CA03619AA	595	\$10,000.00
ADD: HIGH SITE CAPACITY	-	CA03087AA	595	\$90,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
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ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

Field Replacement Units (FRUs)

For spare GRV 8000 comparator modules, use DLN8028

Description	Full Description	Nomenclature	APC	Price
FRU: GRV MAIN MODULE	Replaces DLN6886A starting Q2, 2020	DLN8028	112	\$4,300.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6805	FRU: ENERGY EFFICIENT POWER SUPPLY	112	13
FIXEDSTN	SCB	DLN6886	FRU: XCVR UHF R2 V2 W/OPTION CARD	112	21

FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
ACCESSORY	SCB	DLN8028	FRU: GRV MAIN MODULE	112	40
CNTLPATH	SCB	T8341	GRV 8000 COMPARATOR	112	8

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



G-series Hardware Upgrades

Ordering Information

General Information

G-series Hardware Upgrades are kits designed to simply the process of altering hardware configurations of G-series equipment in the field. The kits will include all the necessary G-series hardware and software to complete your conversion.

Ordering Requirements

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

G-series Hardware Upgrades

Description	Full Description	Nomenclature	APC	Price
G-SERIES HARDWARE UPGRADES	-	T7614	112	\$0.00

Options

GTR 8000 Expandable Site Subsystem

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: GPB 8000 HIGH AVAILABILITY UPGRADE	-	CA01782AA	112	\$23,000.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: 7/800 MHZ DUAL RX KIT 6 BRS	-	CA01915AA	112	\$700.00
ADD: 7/800 MHZ DUAL RX KIT 7-24 BRS	-	CA01916AA	112	\$2,100.00
ADD: 7/800 MHZ DUAL RX KIT EXP RMC	-	CA01923AA	112	\$600.00
ADD: UHF R2 DUAL RX KIT 6 BRS	-	CA01918AA	112	\$700.00
ADD: UHF R2 DUAL RX KIT 7-24 BRS	-	CA01919AA	112	\$2,100.00
ADD: UHF R2 DUAL RX KIT EXP RMC	-	CA01920AA	112	\$600.00
ADD: UHF R1/VHF DUAL RX KIT	-	CA01921AA	112	\$500.00
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00

ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00

GTR 8000 Standalone Base Radio Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: BASE RADIO WILDCARD W/GPIO	-	CA02220AA	112	\$1,200.00
ADD: BASE RADIO MAIN/STANDBY OPERATION	-	CA02221AA	112	\$450.00

GCM 8000 Comparator Channel Add

Description	Full Description	Nomenclature	APC	Price
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ADD: GCM 8000 CONVENTIONAL CHANNEL ADDITION	-	CA01752AA	112	\$13,000.00
ADD: GCM 8000 TRUNKING CHANNEL ADDITION	-	CA01780AA	112	\$14,000.00

GPW 8000 Receiver Options

Receiver Module Channel Add

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 2 GPW 8000 RECEIVER	-	X302AR	112	\$800.00

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AB	112	\$3,200.00
ADD: VHF (136-174 MHZ)	-	X530BH	112	\$3,200.00
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 900 MHZ	-	CA01821AB	112	\$3,200.00

Receiver Software

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	595	\$2,000.00
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	595	\$0.00
ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA00025AH	595	\$4,000.00

ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA01193AB	595	\$4,000.00
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Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	112	\$500.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T7614	G-SERIES HARDWARE UPGRADES	112	13

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

G-Series Software Licensing

Ordering Information

General Information

New G-Series equipment ordered on an ASTRO 7.17 system will now require licenses for many of the G-Series software options. This will require the software licenses below to be ordered for G-Series equipment on any 7.17 and forward M-Core and L-Core. The ASTRO Express, K-Cores, and standalone conventional systems do not require licenses.

When ordering the G-Series licenses, personality information is required, just like when ordering a Master Site. In order to add the licenses to the correct License Manage, it is critical the following information is correctly entered before placing the order.:

1. **System ID.** Four digit hexadecimal number used to uniquely identify a system. For new systems, this will be assigned by the System Engineer using the Trunked Data Repository (TDR) process. Expansions to existing systems will use the existing System ID.
2. **Zone ID.** Number used to uniquely identify each zone in a system. Zone ID will always be 0001 for M1/M2 systems. For M3 systems, values may range from 0001 to 0007.
3. **System Extension ID.** Four digit hexadecimal number, **typically 0000**. Introduced in 7.15 to address the rare case where a customer has intentionally chosen to use the same system ID across multiple systems. For such rare cases, customers or account teams inputting the order shall provide unique system extension IDs across the systems that have same system ID (e.g. 0001, 0002, etc).
4. **Valid Email Address.** This email will be used to deliver all software licensing entitlements to the customer.

NOTE: Software licenses are automatically generated based on the System, Zone and System Extension ID provided on the order. It is critical that valid information is entered on the order, otherwise software licenses will fail to install. Please follow the same guidelines when ordering an ASTRO 25 Core Site to verify ID information. If software licenses are generated with invalid System ID information, contact SSC and open a case to resolve the issue.

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the "Standard Support" period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the "Extended Support" period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

Additional information can be found here: [Software Support Policy Site](#)

Ordering Requirements

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

G-SERIES SOFTWARE LICENSES

Description	Full Description	Nomenclature	APC	Price
GSERIES SOFTWARE LICENSING	-	T8343	595	\$0.00

Options

GTR 8000 Base Station Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: GSERIES BR-P25 TRNK MS IP	-	UA00400AA	595	\$0.00
ADD: GSERIES BR-P25 TRNK MS CRCT	-	UA00399AA	595	\$0.00
ADD: GSERIES BR-P25 TRNK ST RPTR	-	UA00401AA	595	\$0.00
ADD: GSERIES BR-P25 DIG CONV	-	UA00412AA	595	\$0.00
ADD: GSERIES BR-ANALOG CONV	-	UA00413AA	595	\$0.00
ADD: GSERIES BR-HPD	-	UA00398AA	595	\$0.00

GPW 8000 Receiver Licenses

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Description	Full Description	Nomenclature	APC	Price
ADD: GSERIES RX-P25 TRNK MS IP	-	UA00411AA	595	\$0.00
ADD: GSERIES RX-P25 TRNK MS CRCT	-	UA00410AA	595	\$0.00
ADD: GSERIES RX-P25 DIG CONV	-	UA00416AA	595	\$0.00
ADD: GSERIES RX-ANALOG CONV	-	UA00417AA	595	\$0.00

GCP 8000 Site Controller Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: GSERIES SC-P25 TRNK MS IP	-	UA00405AA	595	\$0.00
ADD: GSERIES SC-P25 TRNK MS CRCT	-	UA00404AA	595	\$0.00
ADD: GSERIES SC-P25 TRNK ST RPTR	-	UA00406AA	595	\$0.00
ADD: GSERIES RDM	-	UA00409AA	595	\$0.00
ADD: GSERIES SC-HPD	-	UA00403AA	595	\$0.00
ADD: GSERIES SC-CONV	-	UA00415AA	595	\$0.00


GCM 8000 Comparator Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: GSERIES CM-P25 TRNK IP	-	UA00402AA	595	\$0.00
ADD: GSERIES CM-P25 DIG CONV IP	-	UA00414AA	595	\$0.00
ADD: P25 TDMA TRNK COMPARATOR SW	-	UA00418AA	595	\$0.00
ADD: REDUNDANT CMPRTR P25 TRNK	-	UA00419AA	595	\$0.00
ADD: CMPR EXP SITE CAP P25 TRNK	-	UA00420AA	595	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SYSERIPH	SCB	T8343	GSERIES SOFTWARE LICENSING	595	14



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JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model****GTR 8000 Base Radio****Ordering Information****Features**

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installation can enable new features
- Remote system software upgrades and patching includes system release migration and security updates
- Easy to service - only front access is required and modules are hot-swap capable
- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Supports AC and DC power
- Chassis is 3RU
- Size: 5.25" x 19" x 18"

General Information

Each GTR ships with a transceiver, power supply and power amplifier. One base radio is needed per channel at each site, however it only occupies 3 rack units of space. This small size allows for efficient use of site space.

Power Supply: The standard power supply allows operation from both AC and DC power. Also, standard battery revert and charging eliminates the need for an Uninterruptible Power Supply (UPS) in many installations. (Note: Battery revert is not available in the power

efficient power supply)

Front Serviceability: The front serviceability allows for improved installation and serviceability.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Radio Model

Description	Full Description	Nomenclature	APC	Price
GTR 8000 Base Radio	-	T7039	112	\$0.00

Options

System Release Options
(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Frequency Band

Description	Full Description	Nomenclature	APC	Price
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ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$18,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$25,500.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$19,700.00
ADD: CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$12,500.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Two-Slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00

Conventional Software System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: ANTENNA RELAY	-	CA01504AA	112	\$350.00
ADD: MAIN/STANDBY OPERATION	-	CA01955AA	595	\$450.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00

ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00

RF Peripherals

Description	Full Description	Nomenclature	APC	Price
ADD: DUPLEXER, 136-146 MHZ), THEN TX AND RX MUST BE 136-146	A preselector is required when this option is ordered.	X182CC	112	\$1,380.00
ADD: DUPLEXER, 144-160 MHZ), THEN TX AND RX MUST BE 144-160	A preselector is required when this option is ordered.	X182CB	112	\$1,380.00
ADD: DUPLEXER, 158-174 MHZ	A preselector is required when this option is ordered.	X182CA	112	\$1,380.00
ADD: DUPLEXER, UHF	A preselector is required when this option is ordered.	X182BZ	112	\$1,380.00
ADD: DUPLEXER, 700 MHZ	-	X182BW	112	\$1,380.00
ADD: DUPLEXER, 800 MHZ	-	X182BX	112	\$1,380.00
ADD: NARROW PRESELCTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELCTOR, 150-174 MHZ	-	X265AM	112	\$500.00
ADD: BR PRESELECTOR 380-512 MHZ	-	X265AP	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR, 800	-	X265AH	112	\$500.00

MHZ				
ADD: EXT DUAL CIRCULATOR, 136-146 MHZ	-	X676BJ	112	\$1,500.00
ADD: EXT DUAL CIRCULATOR, 144-160 MHZ	-	X676BI	112	\$1,500.00
ADD: EXT DUAL CIRCULATOR, 158-174 MHZ	-	X676BH	112	\$1,500.00
ADD: UHF EXTERNAL DUAL CIRCULATOR (435-494 MHZ)	-	X676BG	112	\$1,500.00
ADD: 700/800 MHZ EXTERNAL DUAL CIRCULATOR	-	X676BF	112	\$1,000.00
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00

Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

Indoor Cabinets

Description	Full Description	Nomenclature	APC	Price
ADD: G-SERIES INDOOR CABINET 15 Rack Units	-	CA02446AA	112	\$1,250.00
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	\$1,600.00

Retrofit Kits

Description	Full Description	Nomenclature	APC	Price
ADD: STR 3000 RETROFIT HARDWARE	-	CA00951AA	112	\$50.00
ADD: QUANTAR RETROFIT HARDWARE	-	CA00952AA	112	\$50.00

Conventional Hardware Kits

Description	Full Description	Nomenclature	APC	Price
ADD: T1-2R W/TALKAROUND	-	CA01957AA	112	\$1,200.00
ADD: T2-2R RECEIVER MUTE	-	CA01958AA	112	\$2,000.00
ADD: T2-2R DUPLXR & TRPL RELAY	-	CA01962AA	112	\$4,000.00
ADD: T3-3R RECEIVE MUTE	-	CA01959AA	112	\$2,000.00
ADD: T4-4R RECEIVER MUTE	-	CA01960AA	112	\$2,000.00
ADD: RCVR SOFT NO SPLITTER	-	CA01961AA	112	\$400.00

VHF 350W Booster

Description	Full Description	Nomenclature	APC	Price
ADD: VHF 350W	This option is for Federal Systems only. All orders will go on E3 hold for	CA02286AA	282	\$13,664.00

BOOSTER SI	review by the Federal Systems Integration team.			
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150W High Power 800MHz PA

Description	Full Description	Nomenclature	APC	Price
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Compact Site Cabinet

Description	Full Description	Nomenclature	APC	Price
G-SERIES COMPACT SITE ENCLOSURE, WA	-	TT3147	112	\$8,100.00
G-SERIES COMPACT SITE ENCLOSURE, PO	-	TT3145	112	\$8,100.00
G-SERIES COMPACT SITE ENCLOSURE, PA	-	TT3146	112	\$8,032.00

Compact Site Cable Kits

Description	Full Description	Nomenclature	APC	Price
FRU: COMPACT EXPANSION CABLE KIT	-	DLN7014	112	\$300.00
FRU: COMPACT BASE CABLE KIT	-	DLN7013	112	\$600.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price

FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00
FRU: PA UHF R2	Replaces DLN1347A and DLN6792A.	DLN6896	112	\$3,200.00
FRU: PA 7/800 MHZ	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: 150W PA 800MHZ	-	DLN6935	112	\$12,500.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00

FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: GTR 136-146MHZ EXT DUAL CIRCULATOR KIT	-	DLN6836	112	\$1,500.00
FRU: GTR 144-160MHZ EXT DUAL CIRCULATOR KIT	-	DLN6837	112	\$1,500.00
FRU: GTR 158-174MHZ EXT DUAL CIRCULATOR KIT	-	DLN6838	112	\$1,500.00
FRU: GTR 380-403MHZ EXT DUAL CIRCULATOR KIT	-	DLN6839	112	\$1,500.00
FRU: GTR 403-470MHZ EXT DUAL CIRCULATOR KIT	-	DLN6840	112	\$1,500.00
FRU: GTR 470-512MHZ EXT DUAL CIRCULATOR KIT	-	DLN6841	112	\$1,500.00
FRU: GTR 764-870MHZ EXT	-	DLN6842	112	\$1,500.00

DUAL CIRCULATOR KIT				
FRU: T2-2R RECEIVER MUTE	-	DLN6795	112	\$2,000.00
FRU: T2-2R DUPLXR &TRPL RELAY	-	DLN6800	112	\$4,000.00
FRU: T3-3R RECEIVE MUTE	-	DLN6796	112	\$2,000.00
FRU: T4-4R RECEIVER MUTE	-	DLN6797	112	\$2,000.00
FRU: T1-2R W/TALKAROUND	-	DLN6799	112	\$1,200.00
FRU: RCVR SOFT NO SPLITTER	-	DLN6798	112	\$400.00
FRU: GTR ANALOG 4W E&M SIMULCST KIT	-	DLN6821	112	\$250.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

Associated Products

Raymar Modem & Analog Interface

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 ANALOG MODEM II	-	DS01003200100	207	\$4,200.00
CABLE, SCSI INTERCONNECT, 2'	-	DS00573200100	207	\$400.00
CABLE, POWER ADAPTER, MOTOROLA 3084818Y02 - GAIM, 8	-	DS00573200112	207	\$145.00
CABLE, AC POWER, EXTERNAL BRICK, 110/240VAC	-	DS00573200111	207	\$200.00
V.3600, RM, UI, MODEM (0100-3200-100 ONLY)	-	DSTEL6209548100010	207	\$1,450.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
SYSPERIPH	SCB	DLN6795	FRU: T2-2R RECEIVER MUTE	112	40
SYSPERIPH	SCB	DLN6796	FRU: T3-3R RECEIVE MUTE	112	40
SYSPERIPH	SCB	DLN6797	FRU: T4-4R RECEIVER MUTE	112	40
SYSPERIPH	SCB	DLN6798	FRU: RCVR SOFT NO SPLITTER	112	40
SYSPERIPH	SCB	DLN6799	FRU: T1-2R W/TALKAROUND	112	27
SYSPERIPH	SCB	DLN6800	FRU: T2-2R DUPLXR &TRPL RELAY	112	40
FIXEDSTN	SCB	DLN6805	FRU: ENERGY EFFICIENT POWER SUPPLY	112	13
SYSPERIPH	SCB	DLN6821	FRU: GTR ANALOG 4W E&M SIMULCST KIT	112	16
SYSPERIPH	SCB	DLN6836	FRU: GTR 136-146MHZ EXT DUAL CIRCULATOR KIT	112	30
SYSPERIPH	SCB	DLN6837	FRU: GTR 144-160MHZ EXT DUAL CIRCULATOR KIT	112	3
FIXEDSTN	SCB	DLN6838	FRU: GTR 158-174MHZ EXT	112	40

			DUAL CIRCULATOR KIT		
FIXEDSTN	SCB	DLN6839	FRU: GTR 380-403MHZ EXT DUAL CIRCULATOR KIT	112	30
FIXEDSTN	SCB	DLN6840	FRU: GTR 403-470MHZ EXT DUAL CIRCULATOR KIT	112	25
FIXEDSTN	SCB	DLN6841	FRU: GTR 470-512MHZ EXT DUAL CIRCULATOR KIT	112	30
FIXEDSTN	SCB	DLN6842	FRU: GTR 764-870MHZ EXT DUAL CIRCULATOR KIT	112	23
FIXEDSTN	SCB	DLN6883	FRU: XCVR 7/800 MHZ V2 W/OPT CARD	112	18
FIXEDSTN	SCB	DLN6884	FRU: XCVR UHF R2 V2	112	66
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6886	FRU: XCVR UHF R2 V2 W/OPTION CARD	112	21
FIXEDSTN	SCB	DLN6887	FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	112	20
FIXEDSTN	SCB	DLN6888	FRU: XCVR UHF R1 V2	112	5
FIXEDSTN	SCB	DLN6889	FRU: XCVR UHF R1 V2 W/OPTION CARD	112	21
FIXEDSTN	SCB	DLN6890	FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	112	8
FIXEDSTN	SCB	DLN6891	FRU: PA UHF R1	112	13
FIXEDSTN	SCB	DLN6891	FRU: PA UHF R1	112	13
FIXEDSTN	SCB	DLN6892	FRU: XCVR VHF V2	112	4

FIXEDSTN	SCB	DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	112	12
FIXEDSTN	SCB	DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	112	12
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6896	FRU: PA UHF R2	112	15
FIXEDSTN	SCB	DLN6897	FRU: PA VHF	112	10
FIXEDSTN	SCB	DLN6897	FRU: PA VHF	112	10
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6935	FRU: 150W PA 800MHZ	112	10
FIXEDSTN	SCB	DLN7013	FRU: COMPACT BASE CABLE KIT	112	7
FIXEDSTN	SCB	DLN7014	FRU: COMPACT EXPANSION CABLE KIT	112	7
QUOTEDS	TET	DS00573200100	CABLE, SCSI INTERCONNECT, 2'	207	14
QUOTEDS	TET	DS00573200111	CABLE, AC POWER, EXTERNAL BRICK, 110/240VAC	207	14
QUOTEDS	TET	DS00573200112	CABLE, POWER ADAPTER, MOTOROLA 3084818Y02 - GAIM, 8	207	14
QUOTEDS	TET	DS01003200100	ASTRO 25 ANALOG MODEM II	207	28
QUOTEDS	TET	DSTEL6209548100010	V.3600, RM, UI, MODEM (0100-3200-100 ONLY)	207	14

FIXEDSTN	SCB	T7039	GTR 8000 Base Radio	112	17
QUOTEDS	PNH	TT3145	G-SERIES COMPACT SITE ENCLOSURE, PO	112	30
QUOTEDS	PNH	TT3146	G-SERIES COMPACT SITE ENCLOSURE, PA	112	30
QUOTEDS	PNH	TT3147	G-SERIES COMPACT SITE ENCLOSURE, WA	112	30

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



GTR 8000 Site Subsystem

Ordering Information

[Ordering Guide](#)

Features

- Provides equal coverage for HPD systems to voice coverage
- Supports AC and DC power
- Integrates redundant GCP 8000 Site Controllers
- Supports 25 KHz for Motorola's High Performance Data Operation
- Battery revert and charging for backup power supply
- Size: 5.25" x 19" x 18"

General Information

The GTR 8000 Site Subsystem is a prepackaged solution incorporating a base radio, redundant GCP 8000 Site Controllers, duplexer, dual circulator, site preselector and receiver multicoupler in a short open rack. The base radio includes a transceiver, AC and 48DC power supply, and a power amplifier. It supports Motorola's 25 KHZ High Performance Data (HPD) systems providing equivalent HPD coverage to voice coverage.

Power Supply: The standard power supply allows operation from both AC and DC power. Also, standard battery revert and charging eliminates the need for an Uninterruptible Power Supply (UPS) in many installations.

Front Serviceability: The front serviceability allows for improved installation and serviceability.

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the "Standard Support" period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the "Extended Support" period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the "End of Support" period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period. The SwSP takes precedence over warranties extended for any system expansions.

Additional information can be found here: [Software Support Policy Site](#)

Ordering Requirements

G-Series Ordering Guidelines are available through the **Motorola Online (MOL) Resource Center**. Browse to the *Price Book Information --> ASTRO 25 RF Site Products folder*.

Internally at Motorola, the G-Series Ordering Guidelines are also available on the [G-Series Wiki Site](#).

Configuration

GTR 8000 Site Subsystem

Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00

Base Radio

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00

Site Controller

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option			

ADD: CEC COMPLIANCE	along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
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Cables

Description	Full Description	Nomenclature	APC	Price
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

Please refer to the links below for more information:

[LDC Online Literature Fulfillment System](#)

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



G-Series Software Upgrade

Ordering Information

[Ordering Guide](#)

General Information

The G-Series Software Upgrade model allows customers to software upgrade an existing GTR 8000 Base Radio, GTR 8000 Site Subsystem, GTR 8000 Expandable Site Subsystem, GCP 8000 Site Controller, GCM 8000 Comparator, GPW 8000 Receiver, or GPB 8000 Reference Distribution Module to current release software. In some cases, the software can be used to migrate the hardware to a new system type.

Ordering Requirements

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

G-SERIES SOFTWARE UPGRADES

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Description	Full Description	Nomenclature	APC	Price
G-SERIES SOFTWARE UPGRADE	-	T7140	112	\$0.00

Options

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ADD: SITE REPEATER BR SW UPGRADE	-	CA01116AA	595	\$3,500.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE UPGRADE	-	CA01195AA	595	\$5,300.00
ADD: CIRCUIT BASED MULTISITE BR SW UPGRADE	-	CA01115AA	595	\$4,500.00
ADD: ADD: ASTRO 25 CONVENTIONAL SW UPGRADE	-	CA01615AA	595	\$2,150.00
ANALOG CONVENTIONAL GTR 8000 SOFTWARE UPGRADE	-	CA01995AA	595	\$100.00
ADD: ASTRO 25 EXPRESS BR SW UPGRADE	-	CA01430AB	595	\$3,500.00
ADD: 3600 SIMULCAST SW UPGRADE	-	CA02333AA	595	\$3,300.00
ADD: 3600 IR SW UPGRADE	-	CA02336AA	595	\$2,300.00
ADD: 3600 TO P25 UPGRADE	-	CA02335AA	595	\$2,000.00
ADD: DIG COV TO P25 TRUNKING UPGRADE	-	CA02524AA	595	\$0.00
ADD: ANALOG CONV TO DIGITAL CONV BR SW UPGRADE	-	CA02211AA	595	\$6,500.00
ADD: ANALOG CONV TO ASTRO 25 IP SIMULCAST BR SW UPGRADE	-	CA02218AA	595	\$19,500.00
ADD: ANALOG CONV TO ASTRO 25 CIRCUIT				

SIMULCAST BR SW UPGRADE	-	CA02217AA	595	\$13,700.00
ADD: ANALOG CONV TO ASTRO 25 SITE REPEATER BR SW UPGRADE	-	CA02216AA	595	\$12,760.00
ADD: 25 KHZ HPD BR SW UPGRADE	-	CA01114AA	595	\$6,000.00

Two-Slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 TDMA SOFTWARE UPGRADE	-	CA01905AA	595	\$3,300.00
ADD:P25 FDMA TO P25 TDMA SW UPGRADE	-	CA01903AA	595	\$13,000.00
ADD:DYNAMIC CHANNEL ASSIGNMENT SOFTWARE	-	CA01966AA	595	\$10,000.00
ADD: DYNAMIC CHANNEL SW UPGRADE	-	CA01968AA	595	\$3,350.00
ADD: DYNAMIC DUAL MODE BR SW UPGRADE	-	CA01410AA	595	\$12,000.00
ADD: DDM TO DYNAMIC CH SW UPGRADE	-	CA01967AA	595	\$3,350.00
ADD: X2-TDMA TO P25 TDMA SW UPGRADE	-	CA01904AA	595	\$3,300.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: DIGITAL CONVENTIONAL BR VOTING				

TO SIMULCAST UPGRADE	-	CA02208AA	595	\$700.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00

Site Controller Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE UPGRADE	-	CA01196AA	595	\$20,650.00
ADD: CIRCUIT BASED MULTISITE SC SW UPGRADE	-	CA01118AA	595	\$19,800.00
ADD: SITE RPTR SC SW UPGRD VOICE	-	CA02212BA	595	\$1,650.00
ADD: SITE RPTR SC SW UPGRD IV&D	-	CA02219BA	595	\$2,970.00
ADD:ST RPTR SC SW UPGRD IV&D+ENDATA	-	CA03008AA	595	\$3,960.00
ADD: MCC 7500 CONV SITE UPGRADE	Order one CA01246AA for each conventional site controller being upgraded. Order as a sub-item to the T7140.	CA01246AA	112	\$1,200.00
ADD: ASTRO 25 EXPRESS SC SW UPGRADE	-	CA01431AB	112	\$1,650.00
ADD: 25 KHZ HPD SC SW				

UPGRADE	-	CA01117AA	595	\$2,800.00
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Data Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD:STRPTR SC SW UPGR VC IVD+ENDATA	-	CA03003AA	595	\$7,000.00
ADD:SITE RPTR SC EXP IV&D- ENH DATA	-	CA03002AA	595	\$3,000.00
ADD: ASTRO 25 EXPRESS to SITE REPEATER SC SW UPGRADE IV&D	-	CA02205AA	595	\$4,920.00

Remote Site Licenses

TX/RX Site Upgrade SW of Existing Site

Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL REM SITE UPGRD LIC VOICE	-	CA02214BA	595	\$0.00
ADD: SIMUL REM SITE UPGRD LIC IV&D	-	CA02206BA	595	\$1,320.00
ADD:SIMUL RM ST UPGD LC IVD+ENDATA	-	CA03017AA	595	\$3,000.00

TX/RX Add-On New Site in Existing System

Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SMLCST RMT ST LIC IV&D+ENH DATA	-	CA03009AA	595	\$7,000.00

TX/RX Data Expansion on Existing Site

Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SIMUL REM ST LC EXP IV&D-ENDATA	-	CA03010AA	595	\$3,000.00
ADD:SIM RM ST LC EXP VCE-IVD+ENDATA	-	CA03011AA	595	\$7,000.00

RX-Only Site Upgrade SW of Existing Site

Description	Full Description	Nomenclature	APC	Price
ADD:SIMUL RX REM SITE UPGRD LIC VCE	-	CA03020AA	595	\$0.00
ADD:SIMUL RX REM ST UPGRD LIC IV&D	-	CA03018AA	595	\$660.00
ADD:SIM RX RM ST UPGD LC IVD+ENDATA	-	CA03019AA	595	\$1,100.00

RX-Only Add-On New Site in Existing System

Description	Full Description	Nomenclature	APC	Price
ADD:SIMUL RX REM ST LIC VOICE ONLY	-	CA03014AA	595	\$0.00
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD: SIMUL RX RM ST LC IVD+ENH DATA	-	CA03012AA	595	\$5,000.00

RX-Only Data Expansion on Existing Site

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Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD:SM RX REM ST LC EXP IV&D- ENDATA	-	CA03016AA	595	\$3,000.00
ADD:SIM RX RM ST LC EXP IV&D+ENDATA	-	CA03015AA	595	\$5,000.00

Reference Distribution Module Software

Description	Full Description	Nomenclature	APC	Price
ADD: REFERENCE DISTRIBUTION MODULE SOFTWARE UPGRADE	-	CA02210AA	595	\$1,650.00
ADD: RDM SW FOR RX ONLY UPGRADE	-	CA02458AC	595	\$400.00

Comparator Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION UPGRADE	-	CA01197AA	595	\$3,000.00
ADD: GCM 8000 CONVENTIONAL SW	-	CA01799AA	595	\$2,650.00
ADD: CM P25 TDMA SOFTWARE UPGRADE	-	CA01912AA	595	\$3,300.00
ADD: CM P25 FDMA TO P25 TDMA SW UP	-	CA01910AA	595	\$16,000.00
ADD: ADD: ASTRO 25 CONV VOTING SW	-	CA01505AC	595	\$2,000.00
ADD: ASTRO 25 CONV SIMULCAST SW	-	CA01502AC	595	\$3,000.00
ADD: CONVENTIONAL COMPARATOR VOTING TO SIMULCAST UPGRADE	-	CA02213AA	595	\$1,000.00
ADD: TRUNKING REDUNDANT COMPRTTR				

SW	-	CA01974AA	595	\$1,500.00
ADD: ADD: SW UPGRADE LIC SINGLE EXP	-	CA01914AB	595	\$1,350.00
ADD: CM X2-TDMA TO P25 TDMA SW UP	-	CA01911AA	595	\$3,300.00

GPW 8000 Receiver Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MS RCVR SW UPGRADE	-	CA03022AB	595	\$1,300.00
ADD: CIRCUIT BASED MS RCVR SW UPGRADE	-	CA03021AB	595	\$1,300.00
ADD: GPW 8000 CONV SW UPGRADE	-	CA01797AA	112	\$650.00
ANALOG CONVENTIONAL GPW 8000 SOFTWARE UPGRADE	-	CA01995AB	595	\$100.00
ADD : RX/O P25 TDMA SW UPGRADE	-	CA02450AB	595	\$2,300.00
ADD : RX/O DYNAMIC CHANNEL SW UPGRADE	-	CA02451AB	595	\$1,800.00
ADD: ANALOG CONV TO 3.1 CONV RX/O	-	CA02453AB	595	\$2,000.00
ADD: ANALOG CONV TO IP SIMUL RX/O	-	CA02455AB	595	\$4,000.00
ADD: ANALOG CONV TO CIRC SIMUL RX/O	-	CA02454AB	595	\$4,000.00
ADD: 3.1 CONV TO IP SIMUL RX/O	-	CA02457AB	595	\$2,000.00
ADD: 3.1 CONV TO CIRC SIMUL RX/O	-	CA02456AB	595	\$2,000.00
ADD : RX/O P25 FDMA - P25 TDMA SW UPGRADE	-	CA02449AB	595	\$7,000.00
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	595	\$0.00
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	595	\$150.00

ADD : RX/O DYNAMIC CHANNEL ASSIGNEMENT SW	-	CA02452AB	595	\$5,500.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T7140	G-SERIES SOFTWARE UPGRADE	112	15

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



GTR 8000 Expandable Site Subsystem

Ordering Information

[Ordering Guide](#)

Features

Market-leading channel availability - no single point of failures (SPOF) can remove more than one channel from service in a Site Repeater or High Availability Simulcast GTR 8000 Expandable Site Subsystem.

- Market-leading redundancy: distributed power increases availability of site controllers - including integrated site LAN switches, RMCs, GGM 8000 Gateways, and frequency references
- All equipment is full temperature range specification: -30C to +60C
- Turn-key RF site: stations, controllers, frequency references, site LAN switches, routers, TX combiners/filters, RX preselectors/multicouplers

Software Flexibility

- Software configurable, upgradable, and convertible hardware ensures long hardware lifespan
- Software-only installation can enable new features
- Remote system software upgrades and patching includes system release migration and security updates

Compact, Light Weight, and Easy to Service

- AC/DC -48V power supplies with integrated battery revert and charging enables elimination of UPS installations in many site designs
- Field Replaceable Modules weigh ~18 lbs - ensuring that they are easily serviced by one person
- Only front access is required
- Modules are hot-swap capable
- High-reliability fans are rated for 10 years of continuous use or will provide an alarm 7 days prior to failure, allowing for less expensive scheduled maintenance
- Junction Panel wiring interface simplifies installation and future site expansion or service

General Information

A space-efficient, single rack footprint, the GTR 8000 Expandable Site Subsystem, integrates up to six GTR 8000 Base Radios, redundant GCP 8000 Site Controllers or GPB 8000 Reference Distribution Modules, redundant Ethernet LAN switches, redundant network gateways, transmit combiners, and receiver multicouplers. This enables a highly resilient architecture that provides industry-leading protection against single-points-of failure at the RF sites while providing a turn-key site solution that minimizes site cabling connections and installation effort.

It supports ASTRO 25 Simulcast & Site Repeater Trunking operation, 25 kHz High Performance Data, and Conventional operation when co-located with Trunking.

When ordered as an ASTRO 25 Express System, the GTR 8000 Expandable Site Subsystem is the industry's only turn-key, single-site Project 25 Trunking solution. ASTRO 25 Express Systems are a specific configuration of the GTR 8000 Expandable Site Subsystem that are certified to operate in a single-site mode without a separate Master Site. ASTRO 25 Express Systems are limited to 18 channels or three GTR 8000 Expandable Site Subsystems per site. Software specific to the ASTRO 25 Express System must be purchased to operate in this configuration.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Radio Model

Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUBSYSTEM	-	SQM01SUM7054	112	\$6,000.00

Options

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: 900 MHZ	-	CA01821AA	112	\$6,300.00

Base Radios

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Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00
ADD: QTY (6) GTR 8000 BASE RADIOS	-	X306AC	112	\$35,400.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$18,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$25,500.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$19,700.00
ADD: CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$12,500.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,000.00
ADD:3600 TRUNKING SIMULCAST OPERATION	-	CA02207AA	595	\$16,000.00
ADD:3600 INTELLIREPEATER SOFTWARE	-	CA02209AA	595	\$13,000.00
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$16,700.00
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00

Power Distribution Unit

(NOTE: AC cables not included in AC-Only option. Please refer to G-Series Ordering Guide)

Description	Full Description	Nomenclature	APC	Price
ADD: AC ONLY POWER DISTRIBUTION	-	CA02684AA	112	\$0.00
ADD: AC DC POWER DISTRIBUTION	-	CA02686AA	112	\$0.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Two-slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00
ADD:2ND BRANCH DIVERSITY	-	CA01943AA	112	\$700.00
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00

Conventional Software System Configuration

Description	Full Description	Nomenclature	APC	Price

ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: CONVENTIONAL MULTI-NAC MULTI- PL	-	CA01950AA	595	\$500.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00

3600 Trunking Features

Description	Full Description	Nomenclature	APC	Price
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00

Receiver Multicouplers

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET RMC W/ CAPABILITY OF 6 BRS	-	CA00861AA	112	\$700.00
ADD: SITE & CABINET RMC W/CAPABILITY OF 7-24 BRS	-	CA00862AA	112	\$2,100.00
ADD: CABINET RMC FOR EXPANSION RACK	-	CA00877AA	112	\$600.00

UHF Preselectors

Description	Full Description	Nomenclature	APC	Price
ADD: UHF SITE PRESELECTOR, 450-453.5	-	CA02702AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00

ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00

Cavity Combiners

Description	Full Description	Nomenclature	APC	Price
ADD: PRIMARY 6 PORT CAVITY COMBINER	-	CA00879AA	112	\$8,400.00
ADD: EXPANSION 6 PORT CAVITY COMBINER	-	CA00880AA	112	\$8,400.00
ADD:7/800 PRIME 100 T-T CAV COMB	-	CA02855AA	112	\$12,500.00
ADD: 7/800 EXP 100 T-T CAV COMB	-	CA02856AA	112	\$12,500.00
ADD: UHF PRIMARY 6 PORT CAVITY COMBINER	-	CA01180AA	112	\$15,500.00

Hybrid Combiners for 900 MHz

Description	Full Description	Nomenclature	APC	Price
ADD: 900 HYBRID SINGLE OUTPUT 2-	-	CA01824AA	112	\$5,000.00

WAY				
ADD: 900 HYBRID SINGLE OUTPUT 3-WAY	-	CA01825AA	112	\$7,500.00
ADD: 900 HYBRID SINGLE OUTPUT 4-WAY	-	CA01826AA	112	\$10,000.00
ADD: 900 HYBRID SINGLE OUTPUT 5-WAY	-	CA01827AA	112	\$12,500.00
ADD: 900 HYBRID SINGLE OUTPUT 6-WAY	-	CA01828AA	112	\$15,000.00
ADD: 900 HYBRID DUAL OUTPUT 2-WAY	-	CA01829AA	112	\$10,000.00
ADD: 900 HYBRID DUAL OUTPUT 3-WAY	-	CA01830AA	112	\$15,000.00

TX Filters, Diplexers, or 900 MHz Duplexers

Description	Full Description	Nomenclature	APC	Price
ADD: 700 + 800 MHZ DIPLEXER W/PMU	-	CA00881AA	112	\$1,000.00
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00
ADD: 700/800 PHASING HARNESS	-	CA01058AA	112	\$1,000.00
ADD: UHF TX FILTER W/PMU 450-453.5	-	CA01073AA	112	\$3,300.00
ADD: TX FILTER W/PMU 451.5-455	-	CA01074AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 460-463.5	-	CA01075AA	112	\$3,300.00
ADD: TX FILTER W/PMU 461.5-465	-	CA01076AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 470-472	-	CA01077AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 471-473	-	CA01078AA	112	\$3,300.00

ADD: UHF TX FILTER W/PMU 476-478	-	CA01079AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 477-479	-	CA01080AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 482-484	-	CA01081AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 483-485	-	CA01082AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 488-490	-	CA01083AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 489-491	-	CA01084AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 494-496	-	CA01085AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 495-497	-	CA01086AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 500-502	-	CA01087AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 501-503	-	CA01088AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 506-508	-	CA01089AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 507-509	-	CA01090AA	112	\$3,300.00
ADD: 900 MHZ TX FILTER	-	CA01831AA	112	\$1,250.00
ADD: 900 MHZ SINGLE DUPLEXER	-	CA01834AA	112	\$1,000.00
ADD: 900 MHZ DUAL DUPLEXER	-	CA01833AA	112	\$2,000.00
ADD: EXPAN RCK DIPLXR EXTEN CABLE	-	CA01059AA	112	\$100.00

Site Controller, Reference Distribution Module, Expansion Hubs

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: QTY (1) XHUB	-	CA00884AA	112	\$3,500.00

ADD: HIGH AVAILABILITY XHUB	-	CA00885AA	112	\$3,500.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00
ADD: REFERENCE DISTRIBUTION SOFTWARE	-	CA01537AA	595	\$6,500.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00

Integrated GGM 8000 Gateway

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: GGM 8000 GATEWAY	-	CA01706AA	147	\$5,250.00
ADD: 7.12+ GGM 8000 GATEWAY & ENCRYPTION	-	CA02154AA	147	\$7,250.00
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	-	CA02224AA	112	\$700.00
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	-	CA02225AA	112	\$300.00

Cabinets and Racks

Description	Full Description	Nomenclature	APC	Price
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ADD: 43RU SCHROFF CABINET	-	CA00293AA	112	\$880.00
ADD: 7.0 FT OPEN RACK	-	CA01402AA	112	\$495.00
ADD: 7.5 FT OPEN RACK, 48RU	-	X882AH	112	\$495.00

150W High Power 800MHz PA

Description	Full Description	Nomenclature	APC	Price
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00

Additional Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET DOOR, SOLID	-	CA00027AB	112	\$225.00
ADD: FRONT/BACK DOOR, LOUVERED	-	CA00027AC	112	\$225.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00
FRU: PA UHF R2	Replaces DLN1347A	DLN6896	112	\$3,200.00

	and DLN6792A.			
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: PA 900 MHz	Replaces DLN6779A.	DLN6894	112	\$3,000.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00

FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00
FRU: XCVR 900 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6778A.	DLN6882	112	\$3,000.00
FRU: XCVR 900 MHZ V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems.	DLN6923	112	\$4,000.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: G-SERIES XHUB	-	DLN6677	112	\$3,500.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: 43RU SCHROFF GTR ESS CABINET	Includes solid side doors, louvered front and back doors, cable guides, slides, and un-populated GTR 8000 ESS junction panel. Intended for moving open rack GTR 8000 ESS equipment into a cabinet. Size/configuration restrictions apply.	DLN6828A	112	\$5,750.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00
FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	-	DLN6846	112	\$575.00

FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	-	DLN6845	112	\$1,250.00
FRU: 150W PA 800MHZ	-	DLN6935	112	\$12,500.00
FRU HYBRID COMBINER 1/2 - 1/2	-	DLN6782	112	\$1,500.00
FRU HYBRID COMBINER 2/3 - 1/3	-	DLN6783	112	\$1,500.00
FRU HYBRID COMBINER 3/5 - 2/5	-	DLN6784	112	\$1,500.00
FRU HYBRID COMBINER FAN MODULE	-	DLN6780	112	\$1,500.00
FRU: 700/800 MHZ CABINET RMC MODULE	-	DLN1306	112	\$1,000.00
FRU: CABINET RMC PASS THROUGH MODULE	-	DLN1380	112	\$720.00
FRU: 700/800 MHZ SITE LNA	-	DLN6634	112	\$1,000.00
FRU: CABINET LNA MODULE UHF 435-524	-	DLN1374	112	\$1,000.00
FRU:UHF 435-524 MHZ SITE LNA MODULE	-	DLN1375	112	\$1,000.00

Associated Products

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 EXPRESS CONFIGURATION MANAGER	-	T7555	877	\$5,000.00

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN1306	FRU: 700/800 MHZ CABINET RMC MODULE	112	3
FIXEDSTN	SCB	DLN1374	FRU: CABINET LNA MODULE UHF 435-524	112	10
FIXEDSTN	SCB	DLN1375	FRU:UHF 435-524 MHZ SITE LNA MODULE	112	10
FIXEDSTN	SCB	DLN1380	FRU: CABINET RMC PASS THROUGH MODULE	112	4
CNTLPATH	SCB	DLN6455	CONFIGURATION/SERVICE SOFTWARE	454	22
FIXEDSTN	SCB	DLN6634	FRU: 700/800 MHZ SITE LNA	112	13
FIXEDSTN	SCB	DLN6634	FRU: 700/800 MHZ SITE LNA	112	13
FIXEDSTN	SCB	DLN6677	FRU: G-SERIES XHUB	112	10
FIXEDSTN	SCB	DLN6677	FRU: G-SERIES XHUB	112	10
FIXEDSTN	SCB	DLN6725	FRU: VHF 100W LINEAR PA	112	40
FIXEDSTN	SCB	DLN6780	FRU HYBRID COMBINER FAN MODULE	112	40
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6781	FRU: POWER SUPPLY	112	11
FIXEDSTN	SCB	DLN6782	FRU HYBRID COMBINER 1/2 - 1/2	112	40
FIXEDSTN	SCB	DLN6783	FRU HYBRID COMBINER 2/3 - 1/3	112	40
FIXEDSTN	SCB	DLN6784	FRU HYBRID COMBINER 3/5 - 2/5	112	40

FIXEDSTN	SCB	DLN6805	FRU: ENERGY EFFICIENT POWER SUPPLY	112	13
FIXEDSTN	SCB	DLN6828A	FRU: 43RU SCHROFF GTR ESS CABINET	112	40
FIXEDSTN	SCB	DLN6845	FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	112	40
FIXEDSTN	SCB	DLN6846	FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	112	40
FIXEDSTN	SCB	DLN6882	FRU: XCVR 900 MHZ V2	112	48
FIXEDSTN	SCB	DLN6883	FRU: XCVR 7/800 MHZ V2 W/OPT CARD	112	18
FIXEDSTN	SCB	DLN6884	FRU: XCVR UHF R2 V2	112	66
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6885	FRU: XCVR 7/800 MHZ V2	112	18
FIXEDSTN	SCB	DLN6886	FRU: XCVR UHF R2 V2 W/OPTION CARD	112	21
FIXEDSTN	SCB	DLN6887	FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	112	20
FIXEDSTN	SCB	DLN6888	FRU: XCVR UHF R1 V2	112	5
FIXEDSTN	SCB	DLN6889	FRU: XCVR UHF R1 V2 W/OPTION CARD	112	21
FIXEDSTN	SCB	DLN6890	FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	112	8
FIXEDSTN	SCB	DLN6891	FRU: PA UHF R1	112	13
FIXEDSTN	SCB	DLN6891	FRU: PA UHF R1	112	13

FIXEDSTN	SCB	DLN6892	FRU: XCVR VHF V2	112	4
FIXEDSTN	SCB	DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	112	12
FIXEDSTN	SCB	DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	112	12
FIXEDSTN	SCB	DLN6894	FRU: PA 900 MHz	112	13
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6895	FRU: PA 7/800 MHz	112	16
FIXEDSTN	SCB	DLN6896	FRU: PA UHF R2	112	15
FIXEDSTN	SCB	DLN6897	FRU: PA VHF	112	10
FIXEDSTN	SCB	DLN6897	FRU: PA VHF	112	10
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6898	FRU: FAN MODULE	591	8
FIXEDSTN	SCB	DLN6923	FRU: XCVR 900 MHZ V2 W/OPTION CARD	112	30
FIXEDSTN	SCB	DLN6935	FRU: 150W PA 800MHZ	112	10
CNTLPATH	SCB	DLN6966	FRU: GCP 8000/GCM 8000/GPB 8000	112	15
FIXEDSTN	SCB	SQM01SUM7054	GTR 8000 EXPANDABLE SITE SUBSYSTEM	112	14
FIXEDSTN	SCG	T7555	ASTRO 25 EXPRESS CONFIGURATION MANAGER	877	5

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INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model**

**GTR 8000 Expandable Site Subsystem
Channel Addition****Ordering Information**

General Information

The GTR 8000 Expandable Site Subsystem Channel Addition allows customers to add channels to an existing GTR 8000 Expandable Site Subsystem.

For HPD, the GTR 8000 Expandable Site Subsystem may contain a maximum of 5 base radios.

For Site Repeater, Multisite (simulcast), and for configurations with conventional channels co-located in the GTR 8000 Expandable Site Subsystem, each cabinet or rack can contain a maximum of 6 channels.

Ordering Requirements

Beginning July 2017, the G-Series product family will implement a new, mandatory system version option into the orderability rules. Only the currently supported system releases will be listed, one of which must be chosen for every new model ordered. These are no-charge options and will not affect the pricing.

Only the versions that are within the system support period (dictated by the [ASTRO System Support Policy - 2016](#)) are available. Additional information can be found here: [Software Support Policy Site](#)

NOTE: Units will ship from the factory with the latest system software release regardless of which option is selected. Selecting the system version option does not imply that the unit has that version installed. CD packages inside the shipment will only include previous versions that are still under support.

For additional information please refer to the [G-Series Ordering Guide](#).

Configuration

Radio Model

Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUB-SYSTEM CHANNEL ADDITION UPGRADE	-	T7071	112	\$0.00

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00

GTR 8000 ESS Base Radio Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price

ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: 900 MHZ	-	CA01821AA	112	\$6,300.00

Base Radios

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$18,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$25,500.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$19,700.00
ADD: CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$12,500.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,000.00
ADD:3600 TRUNKING SIMULCAST				

OPERATION	-	CA02207AA	595	\$16,000.00
ADD:3600 INTELLIREPEATER SOFTWARE	-	CA02209AA	595	\$13,000.00
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$16,700.00
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00

Conventional Software System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00

ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
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3600 Trunking Features

Description	Full Description	Nomenclature	APC	Price
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00

Two-slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T7071	GTR 8000 EXPANDABLE SITE SUB-SYSTEM CHANNEL ADDITION UPGRADE	112	13

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JUMP TO ...
[GENERAL INFORMATION](#)
[ORDERING REQUIREMENTS](#)
[CONFIGURATION](#)

General Information

Housing

If customer racks and cabinet space are not available, standalone units may be ordered for site installations with one or more LTE servers.

Ordering Requirements

1. For two post telco-style racks, a 7.0' open rack is available. Please order THN1013A.
2. For an enclosed four-post cabinet environment, a 1,000mm deep server-grade cabinet is available. Please order CVN6565A.
3. All PS LTE DL380 G8 server hardware is shipped with brackets, adapters, and hardware required for installation in either two post telco racks or four post cabinets, as applicable, with the exception of the HSS/PCRF DL380 G8 server.
4. For HSS/PCRF only, a separate installation kit must be ordered for the two post telco rack environment (the four post cabinet hardware is still bundled with the DL380 G8 server). For this feature, a DLN6918A kit must be ordered for each DL380 G8 (a total of two installation kits is required for a redundant configuration).

TABLE 1 - SERVER CONFIGURATION

PRODUCT	NO. OF DL380 SERVERS	NO. OF SUN SERVERS	NO. OF DOTHILL ARRAY SERVERS
Prioritization Manager - Redundant Configuration	2	2	1
Prioritization Manager - Non-Redundant Configuration	1	1	0
Prioritization Manager - Redundant Upgrade	1	1	1
HSS/PCRF	2	0	0
DMS	1	0	0
MVPN - Redundant Configuration	2	0	0

MVPN - Non-Redundant Configuration	1	0	0
PTT Server and Gateway	2	1	1
OneForce	1	0	0

Configuration

For pricing information on the "7.5' Open Rack", Part Number THN1013, please see [eNodeB Band Class 14 Macro](#)

For pricing information on the "Spare Cabinet", Part Number CVN6565, please see [Master Site ASTRO 7.11 Upgrade Add-On](#)

For pricing information on the "2Post-2U Conversion Mount Kit, Part Number DLN6918A, please see [Home Subscriber Service \(HSS\)/Policy and Charging Rules Function \(PCRF\)](#)

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

HPD1000 Modem
764-870 MHz
High Performance Data Systems

Ordering Information

Features

All HPD 1000 Modems include the following standard features:

- High Performance Data in 25 kHz in 764-870 MHz
- 10 watt average power in HPD mode; 35 watt power in APCO 800 MHz
- Data transmission rates of 32 kbps, 64 kbps or 96 kbps
- Half and Full Duplex operation
- Ethernet and USB 2.0 connectivity
- 4 Front Panel LEDs to indicate Power-up/Modem Status, RX/TX status, GPS status
- Remote Mount only
- User/Installation manual
- 20 ft. DC Power Cable
- Trunnion with Mounting Hardware

All HPD 1000 modems are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades.

General Information

The HPD 1000 Modem is a data only, mobile radio modem which provides connectivity between a vehicle-mounted data device and the customer's host computer through Motorola's High Performance Data (HPD) radio network. It is designed to support High Performance Data speeds at 32 kbps, 64kbps or 96 kbps within the 700/800 MHz frequency bands. This is a data only modem that does not support any voice communication.

The HPD 1000 is a 25 kHz, 10 watt average radio modem with an optional integrated GPS receiver providing connectivity between a Motorola's™ mobile workstations, laptop computers, portable tablet along with other third party data devices supporting a PPP interface over either USB or Ethernet connection.

The HPD 1000 is qualified to meet MILITARY STANDARD 810 C, D, E & F specifications for shock, vibration, rain, dust and salt environments. It is available in a remote mount installation only and requires a 12 Vdc negative ground source from the vehicle, connected through its standard automotive power connector. It is configurable for either half duplex or full duplex operation (using 2 antennas).

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures

the sensitivity from 764-870 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):856.662, 856.8000, 861.2625, 861.5000, 861.5125, 861.5250, 862.3125.

[HPD 1000 Specification Sheet](#)

Ordering Requirements

The following items are **REQUIRED** when ordering the HPD 1000 Modem:

Step #1: MUST select the HPD 1000 main model:	M26UGA9PW1_N
Step #2: MUST select at least ONE Data Cable for connectivity to the Mobile Data device:	G651 ADD: Data Cable 10â€™™, Ethernet w/ Ignition Sense, 10 ft G652 ADD: Data Cable 18â€™™, Ethernet w/ Ignition Sense, 18 ft G308 ADD: USB Data Cable w/ Ignition Sense, 1.5 meters G309 ADD: Data Cable, USB w/ Ignition Sense, 4.5 meters
Step #3: MUST select at least one ANTENNA: If using Half Duplex operation ONE (1) antenna is required, if using FULL DUPLEX operation TWO (2) antennas are required. Antennas require minimum of 3-5 feet horizontal separation on vehicle. Less separation needed if do not choose gain antenna	W484 ALT: ANTENNA 3DB GAIN 762-870MHz (HAF4017A) G335 ADD: ANTENNA 1/4 WAVE 762-870MHz (HAF4016A) G174 ADD: ANT 3dB LOW-PROFL 762-870 MHz (HAF4013A) G175 ADD: ANT 3dB ELEVATED FEED 762-870MHz (HAF4014A)

The following items are **OPTIONAL** features of the HPD 1000 Modem:

GPS (requires both the Software option and the GPS antenna option)	G440 ADD: GPS Operation G619 ADD: GPS Antenna
--	---

The following items are **REQUIRED** for Programming the HPD 1000 Modem:

HPD 1000 Customer Programming Software (CPS)	RVN4185
Programming Cable The same USB Data cables for connectivity to the Mobile Data Device can be used for programming.	G308 ADD: USB Data Cable w/ Ignition Sense, 1.5 meters (HKN6177) G309 ADD: Data Cable, USB w/ Ignition Sense, 4.5 meters (HKN6178)

FCC Information

		RF Output	FCC		Applicable
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Model	Band	Power	Certification	Emissions	Rules
M26UGA9PW1_N	764-869 MHz	10 watt average	AZ492FT5850	17K7D7W	90
Industry Canada			109U-92FT5850		

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
HPD1000 MODEM 700/800MHZ	-	M26UGA9PW1 N	153	\$1,700.00

Options

Software Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: GPS OPERATION	Does not include GPS antenna.	G440	153	\$400.00

Antenna(s)

Description	Full Description	Nomenclature	APC	Price
ADD: ANTENNA 1/4 WAVE 764-870MHZ	Motorcycle Approved Corresponding Motorcycle kit: HAF4015 Corresponding kit: HAF4016	G335	500	\$14.00
ADD: ANTENNA 3DB LOW-PROFILE 764-870MHZ	Motorcycle Approved Corresponding kit: HAF4013 Corresponding Motorcycle	G174	500	\$43.00

	kit: HAF4018			
ADD: ANTENNA 3DB ELEVATED FEED 764- 870MHZ	NOT Compatible with Motorcycle. Corresponding kit: HAF4014.	G175	500	\$75.00
ADD: GPS ANTENNA	-	G619	153	\$120.00
ALT: ANTENNA 3DB GAIN 764-870MMZ	Not compatible with Motorcycle. Corresponding kit: HAF4017.	W484	500	\$38.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: DATA CABLE 10 FT, ETHERNET WITH IGNITION SENSE	-	G651	153	\$50.00
ADD: ADD: DATA CABLE 6 FT USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 Modem.	G308	153	\$50.00
ADD: DATA CABLE 18 FT ETHERNET WITH IGNITION SENSE	-	G652	153	\$50.00
ADD: ADD: DATA CABLE 16.5 FT, USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 modem.	G309	153	\$50.00

Service Options

Description	Full Description	Nomenclature	APC	Price
ENH: 2 YR SFS LITE	-	V699AN	153	\$108.00
ENH: ONE (1) YEAR EXPRESS SERVICE PLUS	-	V698AN	153	\$60.00

Accessories

Antenna(s)

Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	-	HAF4013	554	\$43.00
ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	-	HAF4014	554	\$75.00
ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	-	HAF4017	554	\$38.00
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00

Cable(s)

Data - USB

Description	Full Description	Nomenclature	APC	Price
USB DATA CABLE W/ IGNITION SENSE 1.5M	-	HKN6177	455	\$50.00
DATA CABLE, USB W/ IGNITION SENSE 4.5M	-	HKN6178	153	\$50.00

Data - ETHERNET

Ignition Sense

Description	Full Description	Nomenclature	APC	Price
CABLE, IGNITION SENS , 18 FT	-	HKN6173	455	\$25.00
CABLE, HPD IGNITION SENSE 10 FT	-	HKN6174	455	\$25.00

Power Cable

Description	Full Description	Nomenclature	APC	Price
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CABLE, POWER, HPD 15A	-	HKN6197	153	\$35.00
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Enhanced Power Control Cable

Description	Full Description	Nomenclature	APC	Price
CABLE, ENHANCED POWER CONTROL	-	FLN4215	153	\$175.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
HPD 1000 Basic Service Manual	-	6816254H01	455	\$29.25

FLASHport Upgrade

[HPD1000 Modem FLASHport Upgrade](#)

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	FLN4215	CABLE, ENHANCED POWER CONTROL	153	5
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4013	ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	554	7
PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6

PARTS	SCB	HAF4014	ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	554	6
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
PARTS	CDP	HAF4017	ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	554	5
FIXEDSTN	FSA	HKN6173	CABLE, IGNITION SENS , 18 FT	455	10
FIXEDSTN	FSA	HKN6174	CABLE, HPD IGNITION SENSE 10 FT	455	10
FIXEDSTN	FSA	HKN6177	USB DATA CABLE W/ IGNITION SENSE 1.5M	455	10
FIXEDSTN	FSA	HKN6197	CABLE, POWER, HPD 15A	153	2
MOBILES	FSA	M26UGA9PW1 N	HPD1000 MODEM 700/800MHZ	153	8

[JUMP TO ...](#)[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

HPD1000 Modem
FLASHport

Ordering Information

Features

All HPD 1000 modems are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades.

General Information

The HPD 1000 Modem is a data only, mobile radio modem which provides connectivity between a vehicle-mounted data device and the customer's host computer through Motorola's High Performance Data (HPD) radio network. It is designed to support High Performance Data speeds at 32 kbps, 64kbps or 96 kbps within the 700/800 MHz frequency bands. This is a data only modem that does not support any voice communication.

Ordering Requirements

The following items are **REQUIRED** when ordering the HPD 1000 Modem upgrade:

Select the HPD 1000 Software Upgrade main model:	T7487
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Select the following option:

For Software upgrade	G880AF ENH: HPD1000 SOFTWARE REFRESH
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ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
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HPD 1000 7/800 MHZ SW UPGRADE	-	T7487	153	\$0.00
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Options

FLASHport Options

Description	Full Description	Nomenclature	APC	Price
ADD: HPD1000 GPS FLASH	-	G440	153	\$400.00
ENH: HPD1000 SOFTWARE REFERSH	-	G880AF	153	\$75.00

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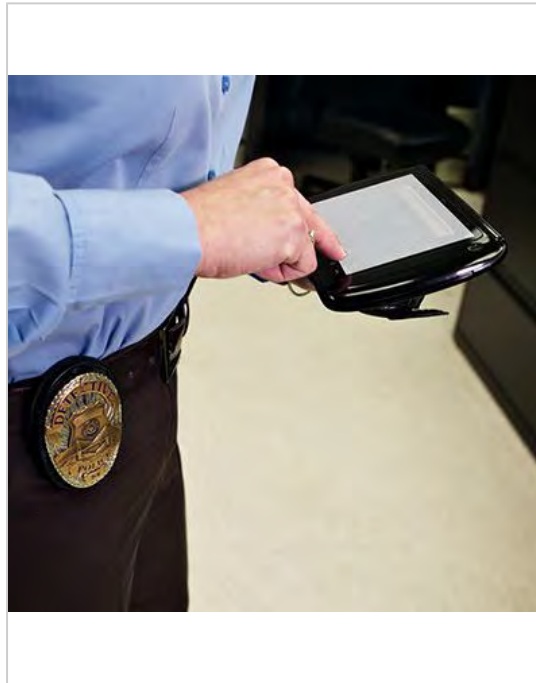
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Product Type	FC	Nomenclature	Description	APC	Lead Time
SYSPERIPH	SCB	T7487	HPD 1000 7/800 MHZ SW UPGRADE	153	15

JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



Home Subscriber Server (HSS)

Ordering Information

Features

- The Home Subscriber Service (HSS) is the master repository that contains subscriber/device profile and state information. It supports authentication, authorization and mobility management functions in LTE. The rich subscriber data management capabilities of Subscriber Data Broker are leveraged to enable subscriber identity management, service profile management, static and dynamic QoS management, and state and usage tracking. The HSS supports a standards-based 3GPP interface to the LTE HSS (S6a).
- HSS can optionally access the Home Location Register (HLR) holding GSM/WCDMA subscriber data in order to obtain authentication, location or user state-type data on IMS scenarios.
- HSS provides user management functions for EPS users, as specified in 3GPP for S6a and SWx interfaces. EPS represents the evolution in terms of user-service experience, improving latency, capacity and throughput. In the access network, LTE can utilize existing 2G and 3G spectrum as well as new spectrum. EPS addresses cost-efficient deployment and operations for public safety market usage of IP services, as well as improvements in the integration of non-3GPP access technologies.
- HSS provides support for Voice Over LTE (VoLTE) offering.
- HSS is the authentication server for EAP-SIM and EAP-AKA based authentication mechanisms, according to relevant IETF and IEEE specifications.

General Information

The Motorola HSS is an integrated system that provides LTE standard subscriber management (HSS). The Motorola HSS provides the capability of managing the IP Multimedia Subsystem (IMS) and new access to the LTE/Evolved Packet Core (EPC) with one single node.

The Motorola HSS supports the following network domains with a modular architecture. The supported domains are:

- IMS - HSS contains the IP Multimedia subscription related information to support the network entities actually controlling the Multimedia sessions.
- EPS - HSS supports the LTE (E-UTRAN) accesses in the context of the Third Generation Partnership Project (3GPP) Evolved Packet System (EPS) specifications, providing mechanisms for the subscription, authentication and mobility management related to the EPS network solution for customers, targeting the modernization of networks towards an all-IP infrastructure domain.

HSS follows the relevant 3GPP, Internet Engineering Task Force (IETF), Third Generation Partnership Project 2 (3GPP2), Packet Cable and Open Mobile Alliance (OMA) specifications.

Configuration

New System Ordering Guidelines

A new HSS system can be ordered as a package/bundle of both software and hardware. The HSS is licensed based upon the number of subscribers. Please choose from one of the following options when ordering a new HSS system:

If IMS support is required along with the HSS, please choose from one of the following options:

Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 5K BUNDLE	-	TT2621	053	\$37,500.00
HSS IMS MODULE 25K BUNDLE	-	TT2623	053	\$47,880.00
HSS IMS MODULE 100K TO 150K	-	TT05734AA	053	\$32,870.00

Existing System Capacity Expansion Guidelines

When ordering an HSS user license capacity expansion for an existing system, please choose from one of the following options. Please note that capacity expansions can only occur as mentioned below. If the capacity expansion needs to span multiple steps, then all steps in between need to be accounted for. For example, if a capacity expansion is needed for 5K to 25K, then 5K to 10K and 10K to 25K need to be accounted for.

Description	Full Description	Nomenclature	APC	Price
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HSS HW/SW FROM 750K TO 1M	-	TT05877AA	053	\$296,520.00
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When ordering an IMS add-on user license capacity expansion for an existing system, please choose from one of the following options:

Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 100K TO 150K	-	TT05734AA	053	\$32,870.00
HSS IMS MODULE 750K TO 1M	-	TT05881AA	054	\$82,450.00

Spares

The recommended HSS spare parts package for an EBS system includes one of each of the following:

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	TT2621	HSS IMS MODULE 5K BUNDLE	053	80

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**iSDL - Integrated Data Solutions Laboratory
Laboratory Time and Engineering Consulting Services**

Ordering Information

General Information

iDSL- Integrated Data Solutions Laboratory

The iDSL is a laboratory facility offering the following services: Application and Product Development Support, Application and Product Verification within a system environment, Software Integration, Third Party Product Integration, Solution Verification, Evaluation of non-Motorola Solutions, and Training. The iDSL also contains the following system and product resources: radios, radio modems/wireless modems, user terminals (laptop computers, Motorola FORTE and MW-520 terminals), complete Private DataTAC systems (UHF, 800 MHz, and 900 MHz), complete ASTRO Integrated Voice and Data systems (UHF, 800 MHz, and VHF), and one 800 MHz analog data-on-trunking system.

The iDSL contains three separate functional areas - the Alliance Area, the Engineering Area, and the Training Room. The Alliance Area is available to partners, vendors, and customers for development, integration, and verification activities. The Engineering Area contains the fixed network equipment necessary for all services, and is typically available only to Motorolans. The Training Room is available as an office, training, or conference facility to Motorolans and to partners, vendors, and customers that are using the Alliance Area. The hours of the iDSL are from 8:00am to 6:00pm, Central Time, on standard business workdays.

Configuration

Ordering Requirements

No orders will be processed until services are scheduled.

NOTE1: For AirMobile & WLAN installation, site survey, and training services, please do not use the table below. Instead, use the following link: [WLAN and AirMobile Service Quote Guidelines](#).

NOTE2: A signed copy of the Motorola Non-Disclosure Agreement must be received before any order will be processed. Send the signed copy to Motorola, 1301 E. Algonquin Rd.

Schaumburg, IL 60196 Attn: Mobile Data Customer Solutions Engineering Room 0509B or FAX at 847-538-2770.

All quotations for **Laboratory Time** and **Engineering Consulting Services** are to be selected from the following list. No additions or modifications will be allowed.

1. All orders will be placed on D1 HOLD for MDCSE review.
2. Enter all orders with expedite code = "BB" (billing purposes only).
3. All orders must be placed under a separate Factory Order Number that does not include items other than MDCSE Laboratory Time and Engineering Consulting Services.
4. All quotations for Laboratory Time and Engineering Consulting Services are to be selected from the following list. No additions or modifications will be allowed.

Description	Full Description	Nomenclature	APC	Price
ADD: LAB TIME 1 DAY	-	Z18AA	375	\$1,000.00
ADD: LAB TIME 2 DAYS	-	Z19AA	375	\$2,000.00
ADD: LAB TIME 3 DAYS	-	Z20AA	375	\$3,000.00
ADD: ENG CONSULTING SVCS 4 DAY	-	Z26AA	375	\$6,000.00
IDSL WEEKLY LAB/ENG SVCS	-	Q3383	375	\$9,000.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SSG	Q3383	IDSL WEEKLY LAB/ENG SVCS	375	10

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

**Intelligent Middleware
(Release 5.2.3)**

Ordering Information

General Information

Intelligent Middleware (IMW, formally UNS) is the Motorola Solutions software platform that provides a set of common services of LMR Networks like (Presence, Location, Messaging, Mission Critical Geofence and Group Management) for applications to integrate and use the information. For example, applications like Mapping applications, CAD applications use IMW services to track location, monitor LMR devices/users, communicate with them using text messaging. These services can be requested on a per device basis or for an entire group. Application can use IMW Group Management services to create dynamic groups to track, monitor or text message users within that group.

Note: MSI developed mapping applications are not included with IMW services; however, a mapping application (MSI or third party mapping applications, CAD applications, or any other location/presence enabled application) is a REQUIRED separate purchase for the system features to be fully functional.

APIs are available to Third Party Application Developers looking to build applications on the IMW platform.

Product Description

The main components of Intelligent Middleware includes but may not be limited to the following:

Intelligent Middleware Software (SW):

- **Presence Services:** Status of a specific device(s) on a network (online/offline).
- **Location Services:** Real time determination of a radio's geographic location that mapping applications can leverage.
- **Messaging Service:** Send a message to any user, group or device.
- **Mission Critical Geofence:** Capability for applications, using IMW APIs, to define dynamic geofences and associate actions that APX subscribers will take when subscribers enter / exit the geofence boundary.
- **Group Management Service:** Create, query, notify and subscribe to a defined group. The specified number of devices provisioned for the IMW service is controlled via licensing. The license is not a floating license. Order the correct number of licenses for the radios that will be provisioned in the IMW for each of the services.

The specified number of devices provisioned for the IMW service is controlled via licensing.

The license is not a floating license. Order the correct number of licenses for the radios that will be provisioned in the IMW.

Intelligent Middleware Hardware (HDW):

Starting IMW 5.2.3, IMW is certified on HP Gen10 hardware platform. All new customers or new orders will ship with HP Gen10 server. Upgrading customers having IMW on Gen9 can upgrade to IMW 5.2.3 on their existing HP Gen9 server. Upgrading customers with IMW on HP Gen8 must update the hardware to new HP Gen10 to upgrade the software to IMW 5.2.3.

IMW 5.2.3 is not supported on HP Gen8 server. IMW Intelligent Middleware deployed on HP Gen 9 hardware can upgrade to IMW 5.2.3 only supports a high capacity server.

Non-redundant and redundant server options are available to order based on the specific customer configuration. Please consult the system planner (<https://learning.motorolasolutions.com/feature-guide/60569enus><https://learning.motorolasolutions.com/feature-guide/6343enus>) for more information on capacity requirements.

A low tier IMW can be deployed on ASTRO Core Enablement Server, if desired. ASTRO Core Enablement Server is included as part of ASTRO Master Site Order. IMW deployed on ASTRO Core Enablement Server will support services upto 10000 Devices and services are non-redundant.

Configuration

Models

In Oracle R12 (OMAR) please use the PTO model "UNS" to order IMW. Use the part numbers shown below to check the items generated.

Configuration

Models

In Oracle R12 (OMAR) please use the PTO model "UNS" to order IMW. Use the part numbers shown below to check the items generated.

Description	Full Description	Nomenclature	APC	Price
INTELLIGENT MIDDLEWARE	-	SQM01SUM0257	232	\$0.00

Options

SYSTEM SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK SERVICES SOFTWARE	-	CA02384AE	232	\$0.00

APPLICATION INTERFACE OPTIONS

NOTE: ASTRO APPLICATION INTERFACE now supports all regions of the world. Astro Rest of the World no longer applies.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO NETWORK APPLICATION INTERFACE	-	CA02354AA	232	\$0.00
ADD: DIMETRA NETWORK APPLICATION INTERFACE	-	CA02355AA	232	\$0.00
ADD: OTHER BEARER NETWORK APPLICATION INTERFACE	-	CA02357AA	232	\$0.00

IMW RESOURCE OPTIONS

IMW License for Location, Presence, Group Management, and Messaging Services.

Licenses are ordered per device. Licenses do not include SMA/SUA. Maintenance and Support is purchased separately.

LOCATION RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00

ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00
ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

PRESENCE RESOURCE OPTIONS

(IF Location Service is selected; MUST select Presence for ASTRO25 Systems)

(NOT Required if ordering Location on ASTRO25 HPD System)

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

MESSAGING SERVICE RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00

ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00
ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00

GROUP MANAGEMENT RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00

HARDWARE OPTIONS

Geo-Redundant Servers include Geo-Redundant software and the hardware.

2 SQL Standard Embedded servers are required when ordering a Geo-redundant option.

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Description	Full Description	Nomenclature	APC	Price
ADD:IMW NON-REDUNDANT HIGH TIER SERVER	-	CA03607AA	232	\$23,665.00
ADD: IMW REDUNDANT HIGH TIER SERVER	-	CA03608AA	232	\$57,330.00
ADD: SQL SVR STD2014 EMB	-	CA02668AE	232	\$5,000.00

OPTIONAL MCAFEE ANTIVIRUS SOFTWARE

Order this option when deploying AntiVirus for IMW.

Description	Full Description	Nomenclature	APC	Price
ADD: MCAFEE STANDALONE ANTI VIRUS SOFTWARE	-	CA02362AE	232	\$660.00

SUPPLEMENTAL CD OPTION (REQUIRED FOR ASTRO; OPTIONAL FOR OTHER RADIO ACCESS NETWORKS)

Description	Full Description	Nomenclature	APC	Price
ADD: SUPPLEMENTAL CD IA (IMW)	-	CA02053AE	232	\$0.00

ASTRO MESSAGING

ASTRO Advanced Messaging System A1 configuration (Text Messaging to ASTRO Radios) is offered as part of IMW product.

Text Messaging to ASTRO Radios is provided by IMW/AMS Software that gets included when IMW Messaging License options are ordered.

Messaging to Radios can be achieved by

1. Using Messaging Client called AMS Smart Client (see T7747 below for ordering information) OR
2. External Applications, like 3rd Party (non-MSI) CAD can use IMW Messaging APIs to integrate text messaging to one of more ASTRO Radios from CAD position.

Talkgroup Text Messaging is enabled using MCC7100 Gateway Console, via the AMS Smart Client. With this feature, text messages can be sent to a talkgroup. All affiliated members of a Talkgroup will receive the text message.

Talk Group Messaging Option REQUIRES ordering a dedicated MCC7100 Gateway Console for AMS. Refer to the MCC7100 Price Pages for Ordering Information. IMW Network Services (SQM01SUM0257), High Capacity Server, IA Supplemental CD are also required.

NOTE: GEO REDUNDANCY OR HIGH AVAILABILITY FEATURE IS NOT SUPPORTED WHEN USING AMS A1 MESSAGING FOR ASTRO.

Description	Full Description	Nomenclature	APC	Price
MCCP Smart Client Software	-	T7746	068	\$2,600.00
ADD: TALK GROUP MESSAGING	Must order exact same quantity of CA03066AA AND T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher.	CA03066AA	068	\$500.00

MISSION CRITICAL GEOFENCE

Intelligent Middleware provides capability for external applications, using IMW APIs, to define dynamic geofences and associate actions that APX subscribers will take when subscribers enter / exit the geofence boundary. Since the actions are evaluated and taken by the subscribers dynamically, this is termed as Mission Critical Geofence.

Mission Critical Geofence API capability is enabled on a per device basis. Please order Mission Critical Geofence licenses using model T8108 - UNS RESOURCE EXPANSION available at IMW Expansion Catalog https://www.motorolasolutions.com/en_us/product-catalog/ref-page-display.html?refPath=/catalog/dup/products/intelligent-middleware--imw-/imw_expansions_andupgrades#productcat

TELEMETRY SERVICE (RADIO BATTERY LEVEL MONITORING)

Intelligent Middleware provides the capability to report APX Radio Battery Level to applications interested in battery level monitoring. Personnel Accountability Offer and IMPRES Battery Fleet Management's APX Over-the-Air Battery Management feature requires IMW Telemetry Services licenses.

Telemetry Service is applicable for ASTRO Radios only. Telemetry Service license ordering is currently available as IMW Expansion Option. Please order telemetry licenses using model T8108 - UNS RESOURCE EXPANSION available at IMW Expansion Catalog https://www.motorolasolutions.com/en_us/product-catalog/ref-page-display.html?refPath=/catalog/dup/products/intelligent-middleware--imw-/imw_expansions_andupgrades#productcat

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Intelligent Middleware (IMW) Expansions and Upgrades

Ordering Information

General Information

Ordering instruction in this document is intended for the following scenarios

- Upgrade existing IMW system to the latest shipping IMW software release
- Expand existing IMW to add devices or resources (capacity licenses) to already enabled services like Presence, location, etc.
- Expand existing IMW to add new services and purchase capacity licenses to enable newly added services. (e.g. add location service for 500 devices. Location service does not exist previously on the system)

IMW Upgrade

There are hardware and software considerations when upgrading the IMW System.

IMW 5.2.3 release is certified on HP Gen10 and HP Gen9 servers platforms. Table below indicates various upgrade paths and their respective hardware migration requirements

Note: To order a new Intelligent Middleware, please search "IMW" in the product catalog search bar.

Upgrading From	Upgrading To	Hardware Impact	Software Impact
IMW 5.2 or IMW 5.2.1 on HP Gen8 Server	IMW 5.2.3	Replace Server with HP Gen10 Server	- Order IMW Software CA03101AA - Order 3rd Party Software Kit CA03610AA - Order ESXi 6.x License CA03612AA - Order HP Gen 10 Firmware CA03611AA
IMW 5.2.2 on HP Gen8 Server	IMW 5.2.3	Replace Server with HP Gen10 Server	- Order IMW Software CA03101AA - Order 3rd Party Software Kit CA03610AA - Order HP Gen 10 Firmware CA03611AA
IMW 5.1 or Older on HP Gen8	IMW 5.2.3	Replace Server with HP Gen10	- Order License Upgrade Kit CA03240AA - Order HP Gen 10 Firmware CA03611AA

Server		Server	
IMW 5.2 or IMW 5.2.1 on HP Gen9 Server	IMW 5.2.3	No Impact	- Order IMW Software CA03101AA - Order 3rd Party Software Kit CA03610AA - Order ESXi 6.x License CA03612AA
IMW 5.2.2 on HP Gen9 Server	IMW 5.2.3	No Impact	- Order IMW Software CA03101AA - Order 3rd Party Software Kit CA03610AA
IMW 5.1 or Older on HP Gen9 Server	IMW 5.2.3	No Impact	- Order IMW Software CA03101AA - Order License Upgrade Kit CA03240AA

Ordering Instructions

In Oracle R12 (OMAR) please use the PTO Model “UNSEXPANSION”. Do NOT use “UNSEXPANSIONS”. Use the part numbers shown below to check the items generated.

Device or Service Expansions: These options are used to add devices to an existing IMW in the field and will allow additional device to be activated.

You will need to choose the correct option based on the release of software that your customers Fielded/Existing IMW is on.

1. Choose model number T8108
3. Choose the option for adding ADDITIONAL RESOURCES to an existing Service (IMW already fielded) CA03096
2. Choose the option which correlates to the number of additional devices needed.

Service Expansions: These options also allow a service to be added. For example, if presence was ordered on the original IMW and the customer now wants to add location. Please note that IGAM was only available for Dimetra and is now covered under Group Management.

1. Choose the model number T8108
2. Choose the option for adding a NEW SERVICE to an existing IMW CA03097
3. Choose the option which correlates to the number of devices needed.

Latest Shipping Software:

This model will provide the customer with the latest shipping version of software. This will not include any functionality that is "optioned" for an additional fee. Depending on the version of software that the IMW/UNS is currently on, it may require a hardware upgrade as well. See table above for hardware and software requirements.

1. Choose the model number.
2. Choose the appropriate Software License Upgrade Kit if you have existing IMW Server

Configuration

Model for Expansion - Adding Licenses or Adding New Services

Description	Full Description	Nomenclature	APC	Price
UNS RESOURCE EXPANSIONS	-	T8108	232	\$0.00

Options for Indicate Quantity Expansion or Service Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL RESOURCES TO AN EXISTING SERVICE	-	CA03096AA	232	\$0.00
ADD: NEW SERVICES TO EXISTING UNS	-	CA03097AA	232	\$0.00

Options to Add Resources or New Service

Number of Device/User Licenses

Location Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00
ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00

ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

Presence Service

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

Messaging Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00
ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00

ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00

Group Management Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00

TELEMETRY SERVICE OPTIONS (BATTERY LEVEL MONITORING)

Intelligent Middleware provides the capability to report APX Radio Battery Level to applications interested in battery level monitoring. Personnel Accountability Offer and IMPRES Battery Fleet Management's APX Over-the-Air Battery Management feature requires IMW Telemetry Services licenses.

Telemetry Service is applicable for ASTRO Radios only.

Order the following option with quantity equal to the number of devices requiring battery level monitoring. Presence license is mandatory for telemetry services. That is, Presence licenses should either already exist or need to be purchased for the devices requiring battery level monitoring. For more information ordering presence license, see PRESENCE RESOURCE OPTIONS section.

For orders greater than quantity of 5000 users or devices, please contact Ramesh Rangappa (rameshr@motorolasolutions.com) for a custom quote

Description	Full Description	Nomenclature	APC	Price
ADD : RESOURCES FOR TELEMETRY SERVICES	-	UA00473AA	232	\$0

MISSION CRITICAL GEOFENCE

Intelligent Middleware provides capability for external applications, using IMW APIs, to define dynamic geofences and associate actions that APX subscribers will take when subscribers enter / exit the geofence boundary. Since the actions are evaluated and taken by the subscribers dynamically, this is termed as Mission Critical Geofence.

Mission Critical Geofence API capability is enabled on a per device basis. Order the following option with quantity equal to the number of devices to be enabled for Dynamic Geofence on IMW

Nomenclature: CA03597AA (ADD : RESOURCES FOR MISSION CRITICAL GEOFENCE)

Latest Shipping Software Models

SELECT THE T-MODEL NUMBER BASED ON THE IMW INTERFACE AND THE CA OPTION FOR EITHER INTERFACE

Description	Full Description	Nomenclature	APC	Price
IMW UPG TO LATEST SHIPPING SOFTWARE ASTRO/LTE	-	T8086	232	\$5,000.00
IMW UPG TO LATEST SHIPPING SOFTWARE DIMETRA/OTHER BEARERS	-	T8087	232	\$5,000.00
ADD: IMW SOFTWARE UPGRADE KIT	-	CA03101AA	232	\$0.00

Note: When upgrading pre 4.0 systems to latest system software the current system MAC ID is required.

Options for High Tier Server

In cases where hardware upgrade to High Tier Server is mandatory (see General Information section for cases that required hardware upgrade), Order the following standalone purchase item.

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Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 HC 128GH DAS4X1	-	DLN8009	877	\$28,000.00
HP GEN10 FIRMWARE	-	CA03611AA	232	\$0.00

Third Party Software Kit

Choose CA03610AA option when you are upgrading from 5.2 or later releases.

Choose CA03612AA option when you are upgrading from 5.2 or 5.2.1 releases.

Description	Full Description	Nomenclature	APC	Price
IMW 3RD PARTY SOFTWARE UPGRADE KIT	-	CA03610AA	232	\$0.00
VMWARE VSPHERE LICENSE AND SW	-	CA03612AA	232	\$520.00

Choose this option when upgrading from IMW 5.1 or older releases.

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH TIER SOFTWARE LICENSE UPGRADE KIT	-	CA03240AA	232	\$4,180.00

Options for ASTRO Advanced Messaging on IMW

For ASTRO systems with standalone AMS that are upgrading to IMW 5.2, High Capacity Server (DLN7100), High Capacity Software License Kit (CA03240AA) and IMW AMS Software option below (CA03241AA) are mandatory

Description	Full Description	Nomenclature	APC	Price
ADD: AMS SOFTWARE FOR IMW	-	CA03241AA	232	\$0.00

Antivirus License

McAfee Antivirus management with the CSMS (Central Security Management Services)

For IMW requiring Antivirus management via Motorola Solutions CSMS, order the following McAfee licenses

Description	Full Description	Nomenclature	APC	Price
IMW ANTI VIRUS MCAFEE	-	T8670	232	\$1,100.00

FRE (Field Replaceable Equipment)

This option should only be ordered on existing Gen9 failure.

Description	Full Description	Nomenclature	APC	Price
HIGH CAPACITY NON REDUNDANT SERVER FRE	-	DLN7001	232	\$20,720.00

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Infrastructure Repair Service

Ordering Information

General Information

Infrastructure Repair with Advanced Replacement service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's IDO.

For more information, contact your Motorola representative.

Features

- Extensive inventory on Motorola and custom parts used for repairs
- Access to Motorola engineers and product groups
- Motorola equipment tested by laboratory simulation using state-of-the-art test equipment
- Manage OEM (Original Equipment Manufacturer) repair process, coordination, and testing

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Lifecycle Application. Please

contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.

2. This Service **cannot** be order in conjunction with Infrastructure Repair with Advanced Replacement SVC01SVC1101.
3. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
4. Enter the main line item as quantity one.
5. Options are required as sub-items, with the quantity equal to the option description.
6. All dollar amounts reflect an annual one year pricing.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
Infrastructure Repair	SVC01SVC1108C	0929	
ASTRO25 K-Core	K1 Master Site		\$2,070.20
	K2 Master Site		\$2,664.20
	Prime Site		\$1,035.10
	Console Ops		\$1,144.00
	RF Stations		\$825.00
	MIP5000 Gateway		\$67.10
ASTRO25 L-Core	L1 Master Site		\$3,664.10
	L2 Master Site		\$6,900.30

	Prime Site		\$1,832.60
	Console Ops		\$1,144.00
	RF Stations		\$825.00
	MIP5000 Gateway		\$67.10
	SmartX Site Converter		\$454.30
	ISSI Network Gateway		\$476.30
ASTRO25 M-Core	M1 Master Site		\$6,661.60
	M2 Master Site		\$11,896.50
	M3 Master Site		\$17,130.30
	DSR Site		\$7,137.90
	Prime Site		\$9,412.70
	Console Ops		\$1,144.00
	RF Stations		\$825.00
	MIP5000 Gateway		\$67.10
	SmartX Site Converter		\$454.30
	ISSI Network Gateway		\$476.30

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Infrastructure Repair with Advanced Replacement Service

Ordering Information

General Information

Infrastructure Repair with Advanced Replacement service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's IDO.

When available, Motorola will provide Customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s). Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair.

For more information, contact your Motorola representative.

Features

- Extensive inventory on Motorola and custom parts used for repairs
- Equipment tested by laboratory simulation using state-of-the-art test equipment
- New or reconditioned FRU sent next day air to replace malfunctioning units
- Access to Motorola engineers and product groups
- Manage OEM (Original Equipment Manufacturer) repair process, coordination, and testing

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the

Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

[Infrastructure Repair with Advanced Replacement SOW](#)


Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Life Cycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. This Service **cannot** be order in conjunction with Infrastructure Repair SVC01SVC1108.
3. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
4. Enter the main line item as quantity one.
5. Options are required as sub-items, with the quantity equal to the option description.
6. All dollar amounts reflect an annual one year pricing.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
Infrastructure Repair with Advanced Replacement	SVC01SVC1101C	0929	
ASTRO25 K-Core	K1 Master Site		\$2,545.40
	K2 Master Site		\$3,283.50
	Prime Site		\$1,272.70
	Console Ops		\$1,373.90
	RF Stations		\$1,236.40

	MIP5000 Gateway		\$96.80
ASTRO25 L-Core	L1 Master Site		\$5,115.00
	L2 Master Site		\$9,612.90
	Prime Site		\$2,557.50
	Console Ops		\$1,373.90
	RF Stations		\$1,236.40
	MIP5000 Gateway		\$96.80
	SmartX Site Converter		\$718.30
	ISSI Network Gateway		\$660.00
ASTRO25 M-Core	M1 Master Site		\$9,517.20
	M2 Master Site		\$16,655.10
	M3 Master Site		\$23,793.00
	DSR Site		\$9,993.50
	Prime Site		\$11,294.80
	Console Ops		\$1,373.90
	RF Stations		\$1,236.40
	MIP5000 Gateway		\$96.80
	SmartX Site Converter		\$718.30
	ISSI Network Gateway		\$660.00



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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model

AdvancedServices for ASTRO 25 Systems

Advanced Services provide you fast response to network issues by our qualified technicians who analyze and diagnose your network, as well as deliver routine maintenance. Two levels of support allow for flexibility to match your requirements.

Ordering Information

General Information

Infrastructure Repair with Advanced Replacement service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's IDO.

When available, Motorola will provide Customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s). Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair.

For more information, contact your Motorola representative.

Features

- Extensive inventory on Motorola and custom parts used for repairs
- Access to Motorola engineers and product groups
- Equipment tested by laboratory simulation using state-of-the-art test equipment
- Manage OEM (Original Equipment Manufacturer) repair process, coordination, and testing
- New or reconditioned FRU sent next day air to replace malfunctioning units

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

[Infrastructure Repair with Advanced Replacement SOW](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Life Cycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. This Service **cannot** be order in conjunction with Infrastructure Repair SVC01SVC1108.
3. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
4. Enter the main line item as quantity one.
5. Options are required as sub-items, with the quantity equal to the option description.
6. All dollar amounts reflect an annual one year pricing.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
Infrastructure Repair with Advanced Replacement	SVC01SVC1101A	929	
	ASTRO Express for Supported Releases		
	ASTRO Express Remote Site		\$1,125.00
	ASTRO Express Station		\$1,012.00
	ASTRO Express Operator Positions		\$1,125.00

	ASTRO25 Infrastructure for Supported Releases		
	K1 Master Site		\$2,545.40
	K2 Master Site		\$3,283.50
	Prime Site		\$1,272.70
	Remote Site		\$-
	Dispatch Site		\$-
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	L1 Master Site		\$5,115.00
	L2 Master Site		\$9,612.90
	Prime Site		\$2,557.50
	Remote Site		\$-
	Dispatch Site		\$-
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	M1 Master Site		\$9,517.20
	M2 Master Site		\$16,655.10

	M3 Master Site		\$23,793.00
	DSR Site		\$9,993.50
	Prime Site		\$11,294.80
	Remote Site		\$0.00
	Dispatch Site		\$0.00
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	MIP5000 Gateway		\$96.80
	SmartX Site Converter		\$718.30
	ISSI Network Gateway		\$660.00
	MCC5500 Console		\$605.00
	E911 Infrastructure for Supported Releases		
	Airbus MAARS Server		\$604.80
	Airbus BCM		\$2,179.80
	Gold Series Elite or E911 Airbus Vesta Maars (Standard)		874.94
	MCC5000 or E911 Airbus Vesta Maars (Standard)		\$604.80
	Airbus Vesta Meridian M1		\$466.20

	Airbus Vesta Meridian Server		\$856.80
	Airbus Vesta Meridian Server_Mini		\$567.00
	Airbus BCM		\$2,179.80
	Gold Series Elite for E911 Airbus Vesta Meridian		874.69
	MCC5500 for E911 Airbus Vesta Meridian		\$604.80
	Airbus BCM for E911 Airbus Vesta Pallas		\$2,179.80
	Airbus Vesta Pallas ACU		\$163.80
	Airbus Vesta Pallas Herbie		\$163.80
	Airbus Vesta Pallas MTU		\$327.60
	Airbus Vesta Pallas RIS Box		\$894.60
	Airbus Vesta Pallas Server		\$604.80
	AirBus Vesta Pallas Workstation		\$466.20
	Gold Series Elite for E911 Airbus Vesta Pallas		\$874.69
	MCC5500 for E911 Airbus Vesta Palla		604.8
	Airbus BCM for E911 Airbus with Integrated Console		\$2,179.80
	Gold Series Elite for E911 Plant with Integrated Console		\$874.69
	MCC5500 or E911 Plant with Integrated Console		\$604.80

	Commandstar Elite or E911 Plant with Integrated Console		\$874.69
	CommandStar Console or E911 Plant with Integrated Console		\$595.35
	Console Buttons & Led or E911 Plant with Integrated Console		\$770.74
	Console Compact or E911 Plant with Integrated Console		\$717.44
	Motorola Gold Elite Gateway or E911 Plant with Integrated Console		\$874.69
	911 PSAP(s) for E911 Sentinel Patriot		998.55
	911 Printer(s) for E911 Sentinel Patriot		\$226.80
	Gold Series Elite for E911 Sentinel Patriot		\$874.69
	MCC5500 for E911 Sentinel Patriot		\$604.80
Mototrbo Infrastructure Repair with Advanced Replacement	SVC01SVC0331A	23	
	XRT9000 Gateway		\$1,285.20
	XRC9000 Single Site Controller		\$1,285.20
	XRC9000 Multi Site Controller		\$1,285.20
	SLR5000 Repeater		\$198.00
	MTR3000 Repeater		\$271.92
	MIP5000 Gateway		\$85.08

	MIP5000 Console		\$409.50
	SLR8000		\$420.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Infrastructure Software
Installation Service**

Ordering Information

General Information

Infrastructure Software Installation Service provides the installation of one Motorola Software Enhancement Release and the additional hardware required.

Features

- - Access to Motorola Technical Expertise
 - Hardware and Software Installation

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

1.0 Description of Service

Infrastructure Software Installation provides the technical resources to install and activate one (1) Enhancement Release per year. Subscriber software installation is not included in this service.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable Agreement to which it is attached and made a part thereof by this reference.

2.0 Motorola has the following responsibilities:

- 2.1 Install Enhancement Release on infrastructure equipment only that has been provided pursuant to the Software Subscription Statement of Work.

2.2 Install additional hardware and software as required by the Enhancement Release.

3.0 Customer has the following responsibilities:

- 3.1 Purchase additional Equipment needed to implement an Enhancement Release.
- 3.2 If travel is required beyond two (2) hours or one hundred twenty (120) miles by vehicle from the prime site to a remote site to deliver this service, the Customer is responsible for incremental travel and expenses incurred.
- 3.3 Inform System users of upgrade plans and scheduled System downtime. Perform appropriate system backups and make them readily available during the installation of the Enhancement Release.
- 3.4 Properly store and make available purchased software and hardware needed for installation of the Enhancement Release.
- 3.5 Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide these services to Customer.

Date Approved by Motorola Legal 09/01/03

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager(ASM) or Customer Support Manager(CSM) for more details.
- **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

Ship Card

Data Not Available



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JUMP TO ...

MODEL

ORDERING INFORMATION

CONFIGURATION

SHIP CARD

Model

Install/Removal

Ordering Information

General Information

All current subscriber and infrastructure installation and removal models are listed below. SVC290, SVC461 and SVC390 are No Longer Available

Infrastructure Models are defined by the TYPE of Installation. The new subscriber models are differentiated by Zone.

Zone 1 = AZ, AK, CA (Alameda, Alpine, Butte, Contra Costa, Del Norte, Glenn, Humboldt, Lake, Lassen, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Mono, Monterey, Orange, Napa, Plumes, San Benito, San Diego, San Francisco, San Mateo, Santa Clara, Santa Cruz, Shasta, Solano, Stanislaus, Tehama, Trinity, Tuoumne & Ventura Counties), CO, CT, DE (New Castle County), ID, IL (Cook, DuPage, Kane, Lake, Madison, McHenry, St. Clair, & Will Counties), IN (Boone, Hancock, Hendricks, Johnson, Lake, Madison, Marion, Morgan, Porter & Shelby Counties), ME, MD, MA, MN (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott & Washington Counties), MO (St. Charles, St. Louis Counties & St. Louis City), MT, NV, NH, NJ, NM, NY, OK, OR, PA, RI, TX, UT, VT, VA (Fairfax, Loudoun, Prince William, Chesapeake, James City, York, Alexandria, Arlington, Portsmouth, Virginia Beach, Norfolk, Hampton, & Newport News Counties), WA, WI (Kenosha, Ozaukee, Milwaukee, Racine, Washington & Waukesha Counties), WY

Zone 2 = AL, YUMA COUNTY, AZ, CA, DE, FL, GA, IL, IN, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, ND, OH, SC, SD, TN, VA, WV, WI.

Configuration

Description	Full Description	Nomenclature for placing the Order	Nomenclature that appears on Service Contract	APC	Price
System Installation		SVC03SVC0104D	LSV00Q00378A		
	Infrastructure Installation				\$1.00

	Equipment Move and Reinstall				\$1.00
	Technical Assistance				\$1.00
	Tower Inspection				\$1.00
<p>The \$1.00 price shown for this item is a "system placeholder" and not the actual price; for a quote on this item please contact the local Services Pre-Sale Representative.</p>					
Description	Full Description	Nomenclature	Nomenclature	APC	Price
Infrastructure Programming		SVC03SVC0105D	LSV00Q00379A	209	\$1.00
<p>The \$1.00 price shown for this item is a "system placeholder" and not the actual price; for a quote on this item please contact the local Services Pre-Sale Representative.</p>					
Description	Full Description	Nomenclature	Nomenclature	APC	Price
Engraving Services		SVC03SVC0116D	LSV00Q00381A	209	\$1.00

The \$1.00 price shown for this item is a "device placeholder" and not the actual price; for a quote on this item please contract the local Services Pre-Sale Representative.					
Description	Full Description	Nomenclature	Nomenclature	APC	Price
Device Programming		SVC03SVC0115D	LSV00Q00202A	209	
	Device Programming				\$1.00
	Programming Zone 1				\$150.00
	Porgramming Zone 2				\$150.00
The \$1.00 price shown for this item is a "device placeholder" and not the actual price; for a quote on this item please contract the local Services Pre-Sale Representative.					
Description	Full Description	Nomenclature	Nomenclature	APC	Price
Device Installation					
	Device				

	Installation- Cust Location	SVC03SVC0124D	LSV00Q00203A	209	\$1.00
	Device Installation- Svcr Location	SVC03SVC0123D	LSV00Q00203A	209	\$1.00
	Std or Police Dash Mount Radio Install Zone 1				\$250.00
	Std or Police Dash Mount Radio Removal Zone 1				\$190.00
	Std or Police Trunk Mount Radio Install Zone 1				\$270.00
	Std or Police Trunk Mount Radio Removal Zone 1				\$150.00
	Std or Police Data Mobile/VRM Install Zone 1				\$700.00
	Std or Police Data Mobile/VRM Removal Zone 1				\$500.00
	Std or Police Vehicle Adapter w/PA Install Zone 1				\$280.00
	Std or Police				

	Vehicle Adapter w/PA Removal Zone 1				\$190.00
	Police Motorcycle Radio Install Zone 1				\$700.00
	Police Special Vehicle Radio Install Zone 1				\$425.00
	Police Special Vehicle Radio Removal Zone 1				\$200.00
	Fire Dash Mount Install Zone 1				\$550.00
	Fire Dash Mount Removal Zone 1				\$250.00
	Fire Remote Mount Radio Install Zone 1				\$700.00
	Fire Remote Mount Radio Removal Zone 1				\$260.00
	Std or Police Dash Mount Radio Install Zone 1				\$200.00

	Police Dash Mount Radio Install Zone 1				\$250.00
	Police Dash Mount Radio Remove Zone 1				\$190.00
	Std or Police Dash Mount Radio Removal Zone 2				\$110.00
	Std or Police Trunk Mount Radio Install Zone 2				\$250.00
	Std Trunk Mount Radio Removal Zone 2				\$115.00
	Std or Police Data Mobile/VRM Install Zone 2				\$500.00
	Std or Police Data Mobile/VRM Removal Zone 2				\$270.00
	Std or Police Vehicle Adapter w/PA Install Zone 2				\$270.00
	Std or Police Vehicle Adapter w/PA Removal Zone 2				\$180.00

	Police Motorcycle Radio Install Zone 2				\$550.00
	Police Special Vehicle Radio Install Zone 2				\$400.00
	Police Special Vehicle Radio Removal Zone 2				\$140.00
	Fire Dash Mount Install Zone 2				\$500.00
	Fire Dash Mount Removal Zone 2				\$190.00
	Fire Remote Mount Radio Install Zone 2				\$600.00
	Fire Remote Mount Radio Removal Zone 2				\$200.00
	The \$1.00 price shown for this item is a "device placeholder" and not the actual price; for a quote on this item please contract the local Services Pre- Sale Representative.				

Description	Full Description	Nomenclature	Nomenclature	APC	Price
Palmetto Install		SVC03SVC0106D	MSV00Q00389A	209	\$1.00
<p>The \$1.00 price shown for this item is a "device placeholder" and not the actual price; for a quote on this item please contract the local Services Pre-Sale Representative.</p>					

Ship Card

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola ASTRO®25 Conventional w/IP Release 3.1 Systems

Ordering Information

Features

Motorola ASTRO®25 Conventional with IP systems support the following features.

System Level Features

- Seamless IP Connectivity in Radio System Infrastructure
- Centralized Radio System Fault Management
- End to End Encryption
- Voice Selective Calls
- Emergency Alarms
- PTT ID
- AES Algorithm
- Key Management via OTAR (for radios) & OTEK (for consoles)
- Agency Partitioning
- Centralized Radio System Configuration Management
- IMBE Vocoder for ASTRO 25 Resources
- Call Alerts
- Emergency Calls
- PTT ID Alias
- DES-OFB Algorithm
- Key Management via Store and Forward (KMF with KVL)

General Information

The following information applies only to ASTRO 25 Conventional Release 3.1 systems. There are three areas that are addressed here:

- MCC 7500 Console and supporting equipment
- IP Connectivity for an ASTRO 25 Conventional 3.1 system
- Parallel audio between dispatch centers that is implemented via new software for the ASTRO-TAC 3000 Comparator

Please contact the system planner for your region for ordering information. Most items have extended delivery.

Configuration

Information for MCC 7500 Console and Supporting Equipment

To put an MCC 7500 Console on an ASTRO 25 3.1 system requires more than just the Console equipment. Supporting equipment is necessary to configure the console and control the audio between the console and the base stations.

The ASTRO 25 Conventional Controller and Network Manager provide the audio control and configuration capabilities. The Network Manager brings a new level of fault management to a conventional system. A Personal Computer (PC) workstation serves as the client terminal for the Network Manager.

The Digital Interface Unit (DIU) is no longer used with the MCC 7500 console in a conventional system. A new interface product is used called the Digital Conventional Channel Gateway (DCCGW). The DCCGW provides the interface between the base station and the Console.

If existing consoles need to have parallel audio with the new MCC 7500 Console then an ASTRO-TAC 3000 Comparator with the right version of software will be needed for each channel that both consoles need to use.

Step 1: Order the MCC 7500 Console equipment. Please refer to the [MCC 7500 Dispatch Consoles, Peripheral Devices, MCC 7500 Archiving Interface Server, IP Logging Recorder](#) and [Auxiliary Input/Output Server](#) catalog pages for information on how to order this equipment.

Note: Please use the CA01222AA software licenses shown below instead of the CA00287AA software license listed on the ECAT pages mentioned above.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 DISPATCH CONSOLE STANDARD CAPACITY SOFTWARE LICENSE	Used when consoles are part of an ASTRO 25 system that uses the ARC 4000 controller. Order as a sub-item to the B1907 and/or B1908.	CA01222AA	443	\$14,000.00

Note: To order the OTEK feature on an operator position or archiving interface server, please use the CA01220AA option shown below.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Required for each dispatch console and archiving interface server that will be managed via OTEK. Order as	CA01220AA	443	\$4,020.00

	a sub-item to the B1908 and/or B1918.			
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Step 2: Order the Digital Conventional Channel Gateway (DCCGW) equipment for digital conventional base stations that interface to the MCC 7500 Console. Please contact the system planner for your region for ordering information.

Step 3: Order the Conventional Channel Gateway (CCGW) equipment for analog conventional base stations that interface to the MCC 7500 Console. Please refer to the [Conventional Channel Gateway](#) page for information on how to order this equipment.

Information for IP Connectivity on an ASTRO 25 3.1 System

IP Connectivity between the major elements of an ASTRO 25 Conventional 3.1 system enables customers to reduce their cost of ownership by leveraging IP networks instead of expensive leased lines. Circuit to packet Converter (CTP) products can be used to connect the major products of an ASTRO 25 Conventional 3.1 system through an IP network that has been properly designed for this application. The links that are supported are:

Digital Conventional:

- Base Radio to Digital Interface Unit (DIU)
- Receiver or Base Radio to ASTRO-TAC 3000 Comparator
- ASTRO-TAC 3000 Comparator to Remote DIU

Analog Conventional:

- Base Radio (Tone Remote Control only) to Central Electronics Bank (CEB)

Conventional Data:

- Radio Network Controller (RNC) to Remote DIU (serial link)

<p>Note: The configurations above are the <u>only</u> configurations supported. Please note that IP connectivity is <u>not</u> supported for mixed mode or digital simulcast stations. The use of ASTRO Modems with IP connectivity is also <u>not</u> supported.</p>
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Circuit to Packet (CTP) converters used for the link applications shown above have been carefully selected for these specific applications. Proper operation depends on the correct configuration of the circuit to packet converters and the use of an IP network with the required characteristics. For detailed information about the circuit to packet converter configuration and the IP network characteristics, please see the IP Specifications for Analog and ASTRO Conventional document (Available in July of 2008).

There are two-port models for supporting base station sites. There are 4-port and 24-port chassis and interface modules for supporting larger sites. The two-port models are recommended for base station sites with one or two stations. The 4-port models are recommended for base station sites with 3 or 4 stations. When 3 to 12 ports are needed at a given location it is best to use multiple 4-port models. Beyond 12 ports it is best to use the 24-port chassis with 1, 2 or 3 8-port cards.

The two-port models come with two different interfaces. The TT2015A model is for products using a V.24 interface. The products that use the V.24 interface are digital conventional base stations and receivers, Digital Interface Units (DIU) and the ASTRO-TAC 3000 Comparator. The RNC uses a serial interface. The TT2016A model is primarily for products using a 4-wire

Trunk Only (4WTO) interface. The products that use 4WTO interfaces are analog conventional base stations. If a mixture of V.24 and 4WTO interfaces is needed in one circuit to packet converter, then the TT2016A can be used. Each TT2015A or TT2016A comes with the operating system software. Each port has a DB-25 connector. Standard cables for these models are not available. Plan on including custom cable build costs. Each unit comes with hardware for rack mounting. The TT2015A and TT2016A operate on 100-240 VAC, 50-60 Hz over 0-40°C and 5-90% non-condensing humidity.

The 4-port models come with two different interfaces just like the two-port models. The TT2017A provides 4 interface ports for V.24 product connection. The TT2028A provides 4 interface ports that can be software configured for either V.24 product connection or 4WTO connection. The I/O ports use the TT05144AA RS-232 to 4 DB-25 breakout cables since each 100-pin RS-232 port supports 4 device connections. The cable is 9 feet long. Cable extensions may be needed for your specific situation. Plan on including custom cable build costs. Each unit comes with hardware for rack mounting. TT2017A and TT2028A operate on 100-132 VAC or 200-240 VAC over 0-40°C and 5-90% non-condensing humidity.

The 24-port chassis can be optioned to include two different types of 8-port cards for interfacing to the circuit side of the circuit to packet converter and one of two different interface cards for the network side of the circuit to packet converter. On the network side of the circuit to packet converter the standard connection is a dual “copper” connection. There are two fiber connection options. The TT05137AA provides dual 1000BaseFX SC Multimode fiber gigabit PCI Mezzanine Card (PMC) connections. The TT5038A provides dual 100BaseFX SC Multimode fiber fast Ethernet connections. On the circuit side the TT5139AA provides 8 interface ports that can be software configured for V.24 product connection. The TT05140AA provides 8 interface ports that can be software configured for either V.24 product connection or 4WTO connection. Up to 3 interface cards (any combination of the TT05139AA or TT05140AA) can be installed in the TT2018A 24-port chassis. The I/O ports use the TT05144AA RS-232 to 4 DB-25 breakout cables since each 100-pin RS-232 port supports 4 device connections. Cable extensions may be needed for your specific situation. Plan on including custom cable build costs. Each unit comes with hardware for rack mounting. TT2018A operates on 100-240 VAC, 50-60 Hz over 0-40°C and 5-90% non-condensing humidity.

Application	V.24 Circuit to Packet Converters			4WTO and/or V.24 Circuit to Packet Converters		
	2-port	4-port	24-port	2-port	4-port	24-port
Digital Station to DIU	TT2015A	TT2017A	TT2018A w/ TT05139AA			
Digital Station or Receiver to Comparator	TT2015A	TT2017A	TT2018A w/ TT05139AA			
Comparator to Remote DIU	TT2015A	TT2017A	TT2018A w/ TT05139AA			
RNC to Remote DIU	TT2015A	TT2017A	TT2018A w/ TT05139AA			

Analog Station to CEB		TT2016A	TT2028A	TT2018A w/ TT05140AA
Note: While the 4WTO / V.24 circuit to packet converters could be used for any application listed above, these recommendations are generally the lowest cost selections.				

The TT2018A 24-port chassis may be order with a TT05142AA Redundant Power Supply option for improved reliability. The 24-port chassis has a suite of spares that can also be ordered if desired.

If firewall protection is desired, the T7376 Firewall can be used. The firewall connects between the IP side of any of the circuit to packet converters and the IP network on the other side. The T7376 Firewall performance can support 25 to 40 IPSec tunnels. If more than 40 tunnels are needed at one site, then multiple firewalls may be needed. A 6' cable and shelf rack mounting kit come standard with the firewall.

To effectively manage the circuit to packet converter equipment and determine the performance of the network it is necessary to order the CTP Network Management Server DDN9458. The DDN9458 allows customers to monitor performance over time and adjust buffer sizes in the circuit to packet converters to accommodate Ethernet network changes. The Server can reach any of the specified circuit to packet converters as long as there is connectivity through the network. A minimum of 1 is required and generally that is all that you will need unless you have more than one independent network. The DDN9458 is a one rack unit high Dell dual core processor server with two hard drives. The software comes preloaded on the server. If you need an Ethernet Switch to connect the DDN9458 to the network you can order the CLN1836 HP Procurve Switch 2610-24.

NOTE: For the circuit to packet converter descriptions below, v.24 interface is a subset of the EIA530 interface.

Ordering Requirements

Please contact the system planner for your region for ordering information. Most items have extended delivery.

CTP stands for Circuit To Packet. Unforecasted CTP orders are 16 weeks ARO for quantities that are 15 or greater of a given model or for quantities that are 30 or greater for a collection of CTP products.

Be sure to contact the Service team to get support options quoted for the CTP Converters and the Firewall. They may have to contact Juniper directly to get the quote.
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2-Port and 4-Port Configurations

8-Port to 24-Port Configurations

Mandatory Network Management Server

Accessories

Spares

Firewall

Description	Full Description	Nomenclature	APC	Price
JUNIPER/FIREWALL GATEWAY	Secure Services Gateway with RS-232 Aux backup	T7376	147	\$1,200.00

Information for Parallel Audio Between Dispatch Centers

Parallel Audio between dispatch centers can be achieved through the use of an ASTRO-TAC Comparator with the correct version of software. This parallel operation can be achieved between tone remote control Motorola Consoles (Gold Elite, MCC5500). It also can be provided between tone remote control Motorola Consoles (Gold Elite, MC5500) and the MCC 7500 for conventional base stations. There is an extended delivery time until the new version of Comparator software will be ready for shipment. Please contact the system planner for your region for ordering information. Most items have extended delivery.

For ASTRO-TAC 3000 Comparators that are FLASH capable order:

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE UPGRADE	Order with T6341 only. Backplane IDs required. Backplane IDs must be entered in the same quantity as the option quantity.	CA00007AA	729	\$1,800.00
SOFTWARE UPGRADE DISK ONLY	-	T6341	729	\$0.00

If the ASTRO-TAC 3000 Comparator isn't FLASH capable (shipments prior to around 1999/2000), then a hardware upgrade is required. To upgrade an ASTRO-TAC 3000 to an ASTRO-TAC 3000 with software download capability order:

Description	Full Description	Nomenclature	APC	Price
SW SWNLD CAP FOR ATAC3K	Upgrades ASTRO-TAC 3000 to ASTRO-TAC 3000 with software download capability.	T6340	729	\$0.00

AND if the wire-line boards ARE CLN6883 or CLN1269, then order:

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE DOWNLOAD CAP	Order with T6340	U455AA	729	\$400.00

IC	only.			
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AND if the wire-line boards are NOT CLN6883 or CLN1269, then order:

Description	Full Description	Nomenclature	APC	Price
ENH: 8 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X226AH	729	\$4,000.00
ENH: 10 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X227AH	729	\$5,000.00
ENH: 12 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X228AH	729	\$6,000.00
ENH: SOFTWARE DOWNLOAD CAP W/WL & ICS	Order with T6340 only	U454AA	729	\$150.00
ENH: 2 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X223AH	729	\$1,000.00
	Software Download Capable Input/Output port option. For			

ENH: 14 I/O SW DNLD CAP UPGR	Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X229AF	729	\$7,000.00
ENH: 4 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X224AH	729	\$2,000.00
ENH: 16 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X230AE	729	\$8,000.00
ENH: 6 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X225AH	729	\$3,000.00

GTR 8000 Base Radio

STEP 1: MAIN MODEL

The following main model must be ordered for a GTR 8000 Base Radio.

Description	Full Description	Nomenclature	APC	Price
GTR 8000 Base Radio	-	T7039	112	\$0.00

NOTE: Only order a quantity of one of the T7039A per line item. This model number will automatically generate internally added options for all hardware components that are not part of an orderable option (such as cabling).

STEP 2: FREQUENCY BAND AND POWER LEVEL

Enter the Frequency Band option:

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00

One TX and one RX frequency must be specified and will be collected at the main model level.

Frequency Rules for CA00855AA

RX Range: 794.00625 - 824.99375 MHz. TX Range: 764.00625 - 775.99375 MHz and 851.00625 - 869.99375 MHz.

If Freq (TX) is 764.00625 - 775.99375 MHz, then Freq (Rx) = TX + 30 If Freq (TX) is 851.00625 - 869.99375 MHz, then Freq (Rx) = TX – 45. All frequencies must be divisible by 6.25 kHz.

Note: Currently, 800.000 MHz and 820.000 MHz are not supported for Rx.

Frequency Rules for X640AL

RX Range: 435.0000-524.0000 MHz. TX Range: 435.0000-524.0000 MHz.

If Freq (TX) is 435-524 MHz, then Freq (Rx) $\geq \pm .25$ MHz TX All frequencies must be divisible by 6.25 kHz.

Note: Currently, 440 MHz, 454.5 MHz, 460 MHz, 474.6375 MHz, 480 MHz, 500 MHz, 520 MHz are not supported for Rx.

Frequency Rules for X448AA

RX Range: 380.0000 – 435.0000 MHz. TX Range: 380.0000 – 435.0000 MHz

If Freq (TX) is 380-435 MHz, then Freq (Rx) $\geq \pm .25$ MHz TX. All frequencies must be divisible by 6.25 kHz.

Note: Currently, 380 MHz, 400 MHz and 420 MHz are not supported for Rx.

Frequency Rules for X530BG

RX Range: 136.0000 – 174.0000 MHz. TX Range: 136.0000 – 174.0000 MHz.

If Freq (TX) is 136 - 174 MHz, then Freq (Rx) $\geq \pm .25$ MHz TX. All frequencies must be divisible

by 6.25, 5.000, 3.125, or 2.500 MHz.

Note: Currently the following frequencies are not supported for Rx: 140.00000, 148.08250, 152.00750, 153.00750, 153.49250, 154.37125, 154.46375, 154.47125, 154.47875, 154.50250, 160.00000, 169.17200, 169.80700, 173.20375, 173.39625, and 173.43570 MHz.

STEP 3: SOFTWARE SYSTEM OPERATION

Choose the appropriate system software option to provide the base radio with system software.

STEP 4: SOFTWARE SYSTEM CONFIGURATION

Choose the appropriate optional software system configuration if required.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00

STEP 5: OPTIONAL FEATURES

Choose the appropriate optional system feature options if required.

Description	Full Description	Nomenclature	APC	Price
ADD: INTERNAL FREQUENCY REFERENCE	-	CA01506AA	112	\$1,100.00
ADD: ANTENNA RELAY	-	CA01504AA	112	\$350.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00

CA01504AA required for base stations with a single antenna.

CA01503AA allows the station to in-cabinet repeat as a fall back mode in a simulcast configuration.

CA01506AA provides an Ultra High Stability Oscillator module.

STEP 6: PERIPHERALS

Tx Filters and Duplexers: Tx filters are not compatible with Duplexers. The PMU functionality is currently disabled.

700/800 MHz: If the customer frequencies are in the 700 MHz frequency range (Tx: 764.00625 - 775.99375 MHz), the customer must order X182BW or CA00882AA per FCC licensing rules. If the customer frequencies are in the 800 MHz frequency range (Tx: 851.00625 - 869.99375 MHz), the following peripherals are optional.

UHF (R1 380-435 MHz, R2 435-524 MHz): The following peripherals are optional.

VHF (136-174 MHz): The following peripherals are optional. TX and RX frequencies must be at least 1.5 MHz apart if peripherals are desired.

Description	Full Description	Nomenclature	APC	Price
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00
ADD: DUPLEXER, 158-174 MHZ	-	X182CA	112	\$1,380.00
ADD: DUPLEXER, 144-160 MHZ), THEN TX AND RX MUST BE 144-160	-	X182CB	112	\$1,380.00
ADD: DUPLEXER, 136-146 MHZ), THEN TX AND RX MUST BE 136-146	-	X182CC	112	\$1,380.00
ADD: DUPLEXER, 700 MHZ	-	X182BW	112	\$1,380.00
ADD: DUPLEXER, 800 MHZ	-	X182BX	112	\$1,380.00
ADD: DUPLEXER, UHF	-	X182BZ	112	\$1,380.00

X182BW provides the option of using the same antenna for receive and transmit in the 700 MHz standalone base radio configuration. This option provides the filtering required by the FCC for 700 MHz.

X182BX provides the option of using the same antenna for receive and transmit in the 800 MHz standalone base radio configuration.

X182BZ provides the option of using the same antenna for receive and transmit in the UHF standalone base radio configuration. If the X182BZ is ordered, X265AP (ADD: NARROW PRESELECTOR, 380-512 MHz) is required. The transmit frequencies must fall within one of the following subbands: 380-403, 403-435, 435-470, 470-494, and 494-512 MHz. Also, above 470 MHz, the Tx and Rx frequency separation should be at least 3.0 MHz. Below 470 MHz, the Tx and Rx frequency separation should be at least 5.0 MHz.

X182CC provides the option of using the same antenna for receive and transmit in the VHF (136-146 MHz) standalone base radio configuration. If the X182CC is ordered, the X265AN (ADD: NARROW PRESELECTOR, 136-154) is required. The Tx and Rx frequency separation must be at least 1.5 MHz.

X182CB provides the option of using the same antenna for receive and transmit in the VHF (144-160 MHz) standalone base radio configuration. If the X182CB is ordered, the X265AN (ADD: NARROW PRESELECTOR, 136-154) or X265AM (ADD: NARROW PRESELECTOR, 150-174) are required. The Tx and Rx frequency separation must be at least 1.5 MHz.

X182CA provides the option of using the same antenna for receive and transmit in the VHF (158-174 MHz) standalone base radio configuration. If the X182CA is ordered, the X265AM (ADD: NARROW PRESELECTOR, 150-174) is required. The Tx and Rx frequency separation must be at least 1.5 MHz.

CA00882AA provides the TX filtering of up to 12 combined 700 MHz transmitters. The Tx filter can be added after the cavity combiner.

CA00883AA provides the required TX filtering of up to 12 combined 800 MHz transmitters. The Tx filter can be added after the cavity combiner.

Narrow Preselector: The Base Radio Preselector rejects unwanted signals including the transmitter signals from overloading the receiver. If TIA102-CAAB Class A spurious response rejection (90 dB) specification is required, the Base Radio Preselector must be ordered. If a narrow preselector is required, order X265AJ, X265AH, X265AM, X265AN or X265AP based on the frequency band of the system. The filter is optional for the GTR 8000 Base Radio. If a duplexer is to be ordered also, a narrow preselector is required for UHF (X448AA or X640AL) or VHF (X530BG) systems.

Description	Full Description	Nomenclature	APC	Price
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR 380-512 MHZ	-	X265AP	112	\$500.00
ADD: NARROW PRESELCTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELCTOR, 150-174 MHZ	-	X265AM	112	\$500.00

X265AJ provides RX filtering in the 700 MHz standalone base radio configuration and is attached to the back side of the base radio.

X265AH provides RX filtering in the 800 MHz standalone base radio configuration and is attached to the back side of the base radio.

X265AN provides RX filtering in the VHF subband 136 - 154 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within the following subband: 136 - 154

MHz.

X265AM provides RX filtering in the VHF subband 150 – 174 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within the following subband: 150 – 174 MHz.

X265AP provides RX filtering in the UHF subband 380-512 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within one of the following subbands: 380-435, 435-470, or 470-512 MHz.

Dual Circulator: If an external dual circulator is needed, order quantity one of X676BF, X676BG, X676BJ, X676BI, or X676BH based on the frequency of the system.L

NOTE: The dual circulator is not compatible when the base radio ordered is using Linear Simulcast Modulation (LSM) in the UHF (X640AL or X448AA) or the VHF frequency band (X530BG).

Description	Full Description	Nomenclature	APC	Price
ADD: EXT DUAL CIRCULATOR, 144-160 MHZ	-	X676BI	112	\$1,500.00
ADD: EXT DUAL CIRCULATOR, 158-174 MHZ	-	X676BH	112	\$1,500.00
ADD: 700/800 MHZ EXTERNAL DUAL CIRCULATOR	-	X676BF	112	\$1,000.00
ADD: EXT DUAL CIRCULATOR, 136-146 MHZ	-	X676BJ	112	\$1,500.00

X676BF adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the 700/800 MHz band. Since the power amplifier has one circulator, this option brings the total number of circulators to three.

X676BG adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the UHF band (380 – 524 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three. All Tx frequencies must fall within one of the following subbands: 380-403, 403-470, or 470-512 MHz. This option is not compatible if the base radio will be used with Linear Simulcast Modulation (LSM).

X676BJ adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (136 – 146 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three. This option is not compatible if the base radio will be used with Linear Simulcast Modulation (LSM).

X676BI adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (144 – 160 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three. This option is not compatible if the base radio will be used with Linear Simulcast Modulation (LSM).

X676BH adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (158 – 174 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three. This option is not compatible if the base radio will be used with Linear Simulcast Modulation (LSM).

STEP 7: CABLES

A 12 foot AC power cable will come standard with the base radio. If a DC power cable is required, order option CA01400AA. If a region-specific AC power cable is required for international applications, please order one of the following power cables and it will be shipped instead of the domestic power cable.

The standard Battery Temperature Sensor is 40 feet long. The CA00975AA option offers an extension cable that provides a 50 foot extension. Up to 3 extensions can be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00

STEP 8: RACKMOUNT HARDWARE

Choose rack mount hardware, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

X153AW provides rack mount hardware for the base radio as well as any associated optional/peripheral equipment. It should be selected if the base radio will be installed in standard 19-inch relay racks.

G-Series Receiver

STEP 1: MAIN MODEL

The following main model must be ordered for a G-SERIES Receiver.

Description	Full Description	Nomenclature	APC	Price
GPW 8000 RECEIVER	-	T7540	112	\$1,000.00

NOTE: Only order a quantity of one of the T7540A per line item. This model number will automatically generate internally added options for all hardware components that are not part of an orderable option (such as cabling).

STEP 2: FREQUENCY BAND AND POWER LEVEL

Enter the Frequency Band option:

Description	Full Description	Nomenclature	APC	Price
ADD: VHF (136-174 MHZ)	-	X530BH	112	\$3,200.00
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 700/800 MHZ	-	CA00855AB	112	\$3,200.00

One RX frequency must be specified and will be collected at the main model level.

Frequency Rules for CA00855AB

RX Range: 794.00625 - 824.99375 MHz. All frequencies must be divisible by 6.25 kHz.

Note: Currently, 800.000 MHz and 820.000 MHz are not supported for Rx.

Frequency Rules for X640AN

RX Range: 435.0000-524.0000 MHz. All frequencies must be divisible by 6.25 kHz

Note: Currently, 440 MHz, 454.5 MHz, 460 MHz, 474.6375 MHz, 480 MHz, 500 MHz, 520 MHz are not supported for Rx.

Frequency Rules for X448AB

RX Range: 380.0000 – 435.0000 MHz. All frequencies must be divisible by 6.25 kHz.

Note: Currently, 380 MHz, 400 MHz and 420 MHz are not supported for Rx.

Frequency Rules for X530BH

RX Range: 136.0000 – 174.0000 MHz. All frequencies must be divisible by 6.25, 5.000, 3.125, or 2.500 MHz.

Note: Currently the following frequencies are not supported for Rx: 140.00000, 148.08250, 152.00750, 153.00750, 153.49250, 154.37125, 154.46375, 154.47125, 154.47875, 154.50250, 160.00000, 169.17200, 169.80700, 173.20375, 173.39625, and 173.43570 MHz.

STEP 3: SOFTWARE SYSTEM OPERATION

Choose the appropriate system software option to provide the satellite receiver with system software.

STEP 4: INTERNAL SITE REFERENCE

Choose the following optional item, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: INTERNAL FREQUENCY REFERENCE	-	CA01506AB	112	\$1,000.00

STEP 5: PERIPHERALS

Narrow preselector: The Preselector rejects unwanted signals including the transmitter signals from overloading the receiver. If TIA102-CAAB Class A spurious response rejection (90dB) specification is required the preselector must be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR 380-512 MHZ	-	X265AP	112	\$500.00
ADD: NARROW PRESELCTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELCTOR, 150-174 MHZ	-	X265AM	112	\$500.00

X265AJ provides RX filtering in the 700 MHz standalone base radio configuration and is attached to the back side of the base radio.

X265AH provides RX filtering in the 800 MHz standalone base radio configuration and is

attached to the back side of the base radio. .

X265AN provides RX filtering in the VHF subband 136 - 154 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within the following subband: 136 - 154 MHz.

X265AM provides RX filtering in the VHF subband 150 – 174 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within the following subband: 150 – 174 MHz.

X265AP provides RX filtering in the UHF subband 380-512 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz. Also, all Rx frequencies must fall within one of the following subbands: 380-435, 435-470, or 470-512 MHz.

STEP 6: CABLES

A 12 foot AC power cable will come standard with the base radio. If a DC power cable is required, order option CA01400AA. If a region-specific AC power cable is required for international applications, please order one of the following power cables and it will be shipped instead of the domestic power cable.

The standard Battery Temperature Sensor is 40 feet long. The CA00975AA option offers an extension cable that provides a 50 foot extension. Up to 3 extensions can be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00

STEP 7: RACK MOUNT HARDWARE

Choose rack mount hardware, if required.

Description	Full Description	Nomenclature	APC	Price
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ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
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X153AW provides rack mount hardware for the base radio as well as any associated optional/peripheral equipment. It should be selected if the base radio will be installed in standard 19-inch relay racks.

GCM 8000 Comparator

STEP 1: MAIN MODEL

The following main model must be ordered for a GCM 8000 Comparator.

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	-	T7321	112	\$3,000.00

NOTE: Only order a quantity of one of the GCM 8000 per line item. This model number will automatically generate internally added options for all hardware components that are not part of an orderable option (such as cabling).

STEP 2: COMPARATORS

Choose the quantity of comparators per chassis (T7321A). Comparators can be ordered two (2) per chassis. Comparators are not redundant, but the comparator power supplies can be wired together to provide redundant power supply operation.

The comparator chassis can hold two separate comparators to support two different channels. If two comparators are desired, order a quantity of two (2) of CA01183AA. If only one comparator per chassis is desired order quantity one (1) of CA01183AA.

STEP 3: SOFTWARE SYSTEM OPERATION

Order one comparator software option per comparator module ordered. The quantity of the CA01484AC must match the quantity of the CA01183AA option.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL SOFTWARE	-	CA01484AC	595	\$10,500.00

STEP 4: SOFTWARE SYSTEM CONFIGURATION

Order one software system configuration option per comparator module ordered. The quantity of the CA01484AC must match the quantity of the CA01502AC or CA01505AC option.

Description	Full Description	Nomenclature	APC	Price
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ADD: ASTRO 25 CONV SIMULCAST SW	-	CA01502AC	595	\$3,000.00
ADD: ADD: ASTRO 25 CONV VOTING SW	-	CA01505AC	595	\$2,000.00

STEP 5: POWER CABLES

A 12 foot AC power cable will come standard with the comparator. If a DC power cable is required, order option CA01400AA. If a region-specific AC power cable is required for international applications, please order one of the following power cables and it will be shipped instead of the domestic power cable.

The standard Battery Temperature Sensor is 40 feet long. The CA00975AA option offers an extension cable that provides a 50 foot extension. Up to 3 extensions can be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00

STEP 6: RACK MOUNT HARDWARE

Choose rack mount hardware, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

X153AW provides rack mount hardware for the comparator. It should be selected if the comparator will be installed in standard 19-inch relay racks.

Information for Integrated Voice & Data (IVD) Packet Data Gateway (PDG)

For New 7.11 Conventional PDG: Order SQM01SUM0197A as a supermodel and select required option CA01521AA for IVD PDG Software. For additional RF Channel licenses, add

option CA01534AA.

New PDG Order

1. Order PDG supermodel (SQM01SUM0197A) as main line item*
2. Select IVD Conventional Software option (CA01521AA)**
3. Optional: Add 8 RF Channel license (CA01534AA)

Upgrade PDG Order

1. Order PDG software upgrade model (T7584A) as main line item.
2. Select IVD Conventional Software Upgrade option (CA01909AA).

Notes:

* Supermodel (SQM01SUM0197A) includes PDG server hardware that comes standard with US power cable.

** Conventional Software option (CA01521AA) includes the first 8 RF Channel license.

NEW PDG

Description	Full Description	Nomenclature	APC	Price
PACKET DATA GATEWAY (RACKMOUNT SERVER)	Provides one server with North American AC line cord.	SQM01SUM0197	222	\$48,000.00
ADD: IV&D CONVENTIONAL PDG SOFTWARE	-	CA01521AA	222	\$35,000.00
8 RF CHANNEL LICENSE	-	CA01534AA	222	\$20,000.00

UPGRADE PDG

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 PDG SOFTWARE	-	T7584	222	\$5,000.00
ADD: IV&D CONVENTIONAL SOFTWARE UPGRADE	-	CA01909AA	222	\$9,000.00

CAI Data Encryption Module (CDEM)

Hardware:

Order (1) ASTRO 25 CAI Data Encryption Module (T7618A)

Select (1) required RS232 Cable (DLN6693A)

Software:

Must select (1) required ASTRO 25 CDEM Operation (CA01535AA)

Must select at least (1) of the below single Encryption Kits:

Select (1) AES Data Encryption Kit (CA00182AT)
 Select (1) DES-OFB Data Encryption Kit (CA00143AD)
 Accessories:

Key Loading Cable (TKN8531C)*

RS232 Cable for Encryption Unit (DLN6693A)

Rack and Cabinet Mounting Tray (TKN9284A)

Note: *Customer must order at least one TKN8531C Keyloader Cable for loading encryption keys on Encryption Unit, if utilizing the KVL 3000 Plus.

Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
CABLE FOR RNC, DIU MGEF	-	TKN8531C	362	\$260.00
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00

Information for S6000 Router and GGSN

Order the S6000 router for Border, Gateway, and GGSN. In order to complete the GGSN configuration you must also select the MNR GGSN software under accessories.

Models

Description	Full Description	Nomenclature	APC	Price
S6000 ENCRYPTION MODULE	-	ST6016	454	\$1,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	-	ST6000	147	\$15,995.00

Accessories

Description	Full Description	Nomenclature	APC	Price

MNR GGSN SOFTWARE	REQUIRED software package to provide GGSN functionality for data systems.	ST6500	147	\$0.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SSO	DLN6693	RS232 CABLE FOR CRYPTR	454	2
QUOTEDS	SCB	SQM01SUM0197	PACKET DATA GATEWAY (RACKMOUNT SERVER)	222	30
FIXEDSTN	SCB	ST6000	S6000 MNR MULTI-PROTOCOL ROUTER	147	55
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6500	MNR GGSN SOFTWARE	147	3
CNTLPATH	SCB	T6340	SW SWNLD CAP FOR ATAC3K	729	92
CNTLPATH	SCB	T6341	SOFTWARE UPGRADE DISK ONLY	729	7
FIXEDSTN	SCB	T7039	GTR 8000 Base Radio	112	17
FIXEDSTN	SCB	T7321	GCM 8000 COMPARATOR	112	12
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20
FIXEDSTN	SCB	T7540	GPW 8000 RECEIVER	112	20
QUOTEDS	SCB	T7584	ASTRO 25 PDG SOFTWARE	222	13

FIXEDSTN	SCB	T7618	ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	137	25
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19

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INFORMATION](#)

[CONFIGURATION](#)

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Model

IMS

Ordering Information

IMS and VoLTE Background Information

IMS Background:

- IMS-IP Multimedia Subsystem, a 3GPP standard service architecture framework for delivering IP-based converged, multimedia services (Voice, Video, Messaging, others)
- Adopted by leading operators as the next generation IP network and service delivery architecture
- Architecture provides flexibility to offer new, converged, multimedia services across multiple access methods, fixed/mobile networks
- Interoperability - across devices and networks
- VoLTE, SMS over IMS, Rich Communication Suite (RCS) services are based on IMS.

VoLTE (Voice over LTE) Background:

- Officially, GSMA profile for Voice and SMS over LTE (PRD IR.92)
- Minimum mandatory set of features for a UE and network to implement for guaranteed, high-quality IMS-based telephony service over LTE
- Voice over Long Term Evolution (VoLTE) utilizing IMS technology is recognized as the industry-agreed progression of voice services

MSI Solution and Key Features

Support for conversational voice telephony services is provided with the use of the leading industry standard, IP Multimedia Subsystem (IMS)-based Voice over LTE (VoLTE). VoLTE enables seamless evolution to advanced multimedia services such as video calling, rich communication suite services such as enhanced calling, enhanced IP messaging, and content sharing services. Motorola's solution is comprehensive, pre-integrated and standards compliant (3GPP, GSMA IR.92), enabling inter-operability with other VoLTE devices and networks.

The IMS/VoLTE solution is a standards-based solution and comprises a device IMS/VoLTE client on handheld devices, an IMS core, fully integrated with the LTE core and the Multi-Media Telephony (MMTel) application server, SMS application server, and a Voice Mail server. The IMS core application comprises an Application, Control, and Connectivity layer.

- The Application Layer is where the application servers reside in the IMS domain:
 - Multimedia Telephony Application Server (for VoLTE calling)
 - SMS over IMS Application Server
 - Voicemail Application Server.
- The Control Layer is in charge of call or session setup, modification and release. Call

Session Control Function (CSCF) and Session Border Gateway (SBG) are used with this layer.

- The Connectivity Layer includes routers, switches, media gateways and other user plane elements.

Key features of the Motorola VoLTE/IMS R9 solution include:

- LTE Voice Telephony - includes basic 1-to-1 voice (VoLTE) calling
- Advanced supplementary voice services - Call Hold, Call Waiting, Caller ID, Call Forwarding, Call Blocking, Ad-Hoc 3-way multi-party calling, etc.
- IMS Voice Mail
- SMS over IMS
- Video Calling, including ad-hoc video multi-party calling
- IMS/VoLTE to PSTN Interworking (for international/ETSI networks)
- IMS/VoLTE to SIP PBX interworking
- IMS Emergency Calling
- Support for Ut/XCAP interface and authentication for user self-administration of supplementary services, using an Authentication and Federation Gateway (AFG)
- Support for local and geographic redundancy
- Quality of Service (QoS) Enablement
- IMS Client application on LTE device - supported devices: L10i
- Introduction of virtualized IMS for some of the applications/capabilities (SMS, Voice Mail, Ut/XCAP)

IMS/VoLTE: Orderable Solution Summary

OFFERED INFRASTRUCTURE HARDWARE AND SOFTWARE

- IMS Core
 - Call Session Control Function (CSCF)
 - Session Border Control/Gateway (SBG)
 - Media Resource System (MRS, with Border Gateway Function/BGF and Media Resource Function Processor/MRFP) - needed only if media support (e.g. Voice/VoLTE or Video) is required
 - Media Gateway Controller
 - Media Gateway (a part of MRS)
 - Authentication Federation Gateway (AFG)
- IMS Application Servers
 - Multimedia Telephony Application Server (MTAS)
 - Short Messaging Service over IMS (SMS and IMS) Application Server
 - Voice Mail Application Server
- Networking and Security (Switching/Transport, DNS, etc.) equipment - listed here for reference. Please refer to the eCAT pages for LTE Networking and Transport Equipment and LTE Enhanced Packet Core (EPC) for additional details and ordering information.
 - Diameter Signaling Controller (DSC) - use from LTE Core (EPC).
 - Provides Diameter Agent (DA)/Diameter Routing Agent (DRA) functionality for diameter signaling.
 - DNS/ENUM for IMS Core - use from EPC
 - Enables translation of E.164 numbers to SIP URI for message routing purposes.
 - Ordering item: BlueCat Networks Model Number S-20 DNS/DHCP server.
 - DNS for IMS user space
 - Provides the AFG IP addresses for the UE
 - Ordering item: BlueCat Networks model number S-20 DNS/DHCP server

- NTP (Network Time Protocol) - use from EPC
 - Provide stable timing reference for the IMS core
- Core Router/Core Switches
 - Provides connectivity between IMS Core elements and EPC elements
 - Ordering items: 2 X Extreme 460 Switches (IMS core routers)
- Firewalls (optional)
 - Provides secure connectivity between IMS Core elements and EPC elements
 - Provide secure inter-geo site connectivity
- LTE Core/RAN - IMS add-on Licenses for: LTE Core, RAN, OSS. Please refer to these pages for additional guidance:
 - HSS catalog page - for HSS IMS add-on licenses (required): [Home Subscriber Service \(HSS\)](#) .
 - eNB catalog page - for eNB IMS/VoLTE add-on licenses - required and optional packages: [eNodeB Band Class 28](#). (see adjacent pages for B14 and B20).
 - OSS-RC catalog page - for OSS-RC add-on IMS licenses (required): [Operation Support System Radio and Core \(OSSRC\)](#) .

SUPPORTED LTE DEVICES, WITH IMS CLIENT APPLICATIONS (please refer to the pages for the respective LTE devices):

- LEX L10i

Ordering Guidelines

ORDERABLE ITEMS:

- Required: IMS Licenses Enabled in LTE Core and RAN: HSS, eNB, and OSS-RC
- Required: IMS HW and SW, ordered in fixed subscriber/capacity bundles, corresponding to 1K, 5K, 10K, 25K 50K, 100K, 250K, 500K or 1M users. 1K is minimum (except for SMS and Voice Mail - for these two applications, 10K is minimum). Each subscriber bundle (1K, 5K, 10K, etc.) has a corresponding node capacity measured in session/messaging units per busy hour (based on a standard IMS call model and dimensioning analysis done for PS-LTE IMS), periodically reviewed and maintained by MSI system engineering (for access to the call model, please contact [Product Management](#)).
- These IMS Core session elements are always required when there is an IMS network - CSCF, SBG
- IMS Core media elements - MRS - required for media/bearer (e.g. as in VoLTE)
- IMS Application Servers (AS) - required for specific application functions - MTAS for VoLTE video; SMS over IMS AS for offering SMS services, and Voice Mail AS for Voice Mail services
- Media Gateway Controller (MGC) and Media Gateway are required for IMS/VoLTE to PSTN (landline telephony) network interworking. Currently in R11.1, the international (ETSI) flavor of PSTN interworking is supported. ANSI/NA flavor is planned in a future release.
- Authentication Federation Gateway (AFG) is required for offering Ut interface and authentication support required for user self-administration of some supplementary services, such as call forwarding/blocking, etc.; if the device supports supplementary services code (SSC) mechanism (also known as star code dialing), Ut/AFG can be optional, depending on customer requirement.
- NOTE 1: In R11.1, MSI added a few optional packages (also known as "value packages") for some of the IMS network elements. The ordering guide below only shows the "Basic" and "Optional/Value Pack" feature packages, where applicable.

- Required: IMS Client application on a supported LTE device.
- NOTE 2: For IMS client on BYOD (non-MSI) or other LTE device types (e.g. tablets) - please contact [Product Management](#).
- In general, the BYOD category falls in one of the two:
 - A commercial device with an IMS client already built-in: can be supported based on a plan for interoperability testing (offered as a Service) to make sure the commercial device works with MSI IMS infrastructure.
 - A commercial or specialized device that does not have an IMS client. This is a roadmap item, and will depend on the specific devices (the solution strategy would be to partner with an IMS client vendor to provide a client for such devices).
- Required: IMS Core Routers and other Networks & Security equipment discussed above.
- Optional: Geo-Redundancy Option
 - Order hardware for two complete IMS systems
 - Order software license for stated number of subscribers must be ordered for each IMS network element (CSCF, SBG, MRS, MTAS, MGC, MGW, AFG, SMS, Voice Mail)
 - For all except Voice Mail, the geo-redundant (second) system added cost is for additional/redundant HW only; SW is at no additional cost. Voice Mail has a small additional cost for the geo-redundant SW and has separate geo-redundant software part numbers, indicated below.
 - A minimum of 2 X 2 or a total of 4 IMS Routers/Switches (2 for each geographic site).

1. New IMS System: Non-Redundant (or Locally Redundant) IMS Hardware and Software

A new IMS system can be ordered as a package/bundle of both software and hardware. The IMS system is licensed based upon the number of subscribers (each subscriber level also corresponds to a stated capacity in sessions/messages). In the sections below, each of the IMS network elements is listed and classified as Basic or (optional) Value Packages. A few of the network elements are only offered as non-redundant, the rest are available as Locally Redundant.

Locally Redundant - CSCF, SBG, MTAS, MRS, MGC, MGW, Voice Mail

Non-Redundant - SMS, AFG

2. New IMS System: Geo-Redundant IMS Hardware and Software

A new IMS Geo-Redundant system can be ordered as a pair of IMS systems, comprised of software and hardware.

- Order IMS hardware and software for two complete IMS systems
 - Hardware and software license for the stated number of subscribers must be ordered for each IMS network element or application (CSCF, SBG, MRS, MTAS, MGC, SMS, Voice Mail, AFG)
 - For all products - you will need to order the first (primary site) system with HW and SW for the stated capacity.
 - For the Geo-Redundant system, hardware must be ordered for all products, and for the same state capacity as the primary system. Part numbers are set up to address the HW capacity thresholds, where applicable.
 - For Geo-Redundant system software licenses, it varies, depending on the product.

- CSCF, SBG, MTAS, MRS, MGC, MGW, AFG, SMS - there is currently no additional software license cost for the geo-redundant system.
- Voice Mail - there is an additional cost for the geo-redundant software - part numbers are specifically set up for these licenses (you will need to order the geo-redundant SW licenses instead of the regular Locally Redundant licenses).
- A minimum of 2 X 2 or a total of 4 IMS routers/switches (2 for each geographic site) - typically need two IMS routers per site, but can vary based on deployments and associated IP transport design

3. Upgrade: Non-Redundant/Locally Redundant to Geo-Redundant IMS Hardware and Software

When upgrading from a non-redundant or locally redundant IMS system to a geo-redundant IMS system, additional HW and SW must be ordered. An IMS Geo-Redundant system is a pair (2) of IMS systems, comprised of software and hardware

1. Order IMS hardware and software for the geo-redundant system as described:
 - For the Geo-Redundant site system, hardware must be ordered for all products, and for the same stated capacity as the primary system. Part numbers are set up to address the HW capacity thresholds, where applicable.
 - For Geo-Redundant system software licenses, it varies, depending on the product.
 - CSCF, SBG, MTAS, MRS, MGC, MGW, AFG SMS - there are no part numbers specifically set up currently for the upgrade; please contact Product Management for this scenario.
 - IMS Core network element - always required
 - IMS Core network element - always required

A. Call Session Control Function (CSCF)

IMS NETWORK ELEMENT = CSCF - Basic (HW & SW)

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
CSCF HW & SW - Basic - 1K SUBS	TT3040	059	5K SEBH
CSCF HW & SW - Basic - 5K SUBS	TT2897	059	5K SEBH
CSCF HW & SW - Basic - 10K SUBS	TT2898	059	10KSEBH
CSCF HW & SW - Basic - 25K SUBS	TT2899	059	25K SEBH
CSCF HW & SW - Basic - 50K SUBS	TT2900	059	50K SEBH
CSCF HW & SW - Basic - 100K SUBS	TT2901	059	100K SEBH
CSCF HW & SW - Basic - 250K SUBS	TT2902	059	250K SEBH
CSCF HW & SW - Basic - 500K SUBS	TT2903	059	500K SEBH

CSCF HW & SW - Basic - 1M SUBS	TT2904	059	1M SEBH
CSCF HW & SW - Basic - Geo-Redundancy <=100K subs	TT3110	059	100K SEBH
CSCF HW & SW - Basic - Geo-Redundancy 250K subs	TT3111	059	250K SEBH
CSCF HW & SW - Basic - Geo-Redundancy 500K subs	TT3112	059	500K SEBH
CSCF HW & SW - Basic - Geo-Redundancy 1M subs	TT3113	059	1M SEBH

SEBH = Sessions Established in Busy Hour

B. Session Border Gateway (SBG) / Session Border Controller:

IMS NETWORK ELEMENT = SBG - Basic (HW & SW)

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
SBG HW & SW - Basic - 1K SUBS	TT3041	059	200 SMMS
SBG HW & SW - Basic - 5K SUBS	TT2881	059	200 SMMS
SBG HW & SW - Basic - 10K SUBS	TT2882	059	300 SMMS
SBG HW & SW - Basic - 25K SUBS	TT2883	059	700 SMMS
SBG HW & SW - Basic - 50K SUBS	TT2884	059	1300 SMMS
SBG HW & SW - Basic - 100K SUBS	TT2885	059	2500 SMMS
SBG HW & SW - Basic - 250K SUBS	TT2886	059	6300 SMMS
SBG HW & SW - Basic - 500K SUBS	TT2887	059	12500 SMMS
SBG HW & SW - Basic - 1M SUBS	TT2888	059	25000 SMMS
SBG HW & SW - Basic - Geo-Redundancy <=1M subs	TT3123	059	25000 SMMS

C. 1. **Media Resource System (MRS) - Basic** includes MRS-Base, Medial Resource Function Processor (MRFP), Border Gateway Function. These elements are required in all cases where there is a media (e.g. as in VoLTE and video calling).

- NOTE: For Media Gateway (MGW) Function - i.e. for VoLTE to PSTN interworking support (for an additional license fee) - for making calls to, or receiving calls from, a PSTN/landline network, please see below for information on this additional component.
 - MRS Value Pack - MRF Multimedia - Required for video calling
 - MRS Value Pack - High Definition (HD) Voice - Required when VoLTE with HD voice is offered.

IMS NETWORK ELEMENT = MRS - Basic (HW & SW)

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MRS HW & SW - Basic - 1K SUBS	TT3051	059	500 SMMS
MRS HW & SW - Basic - 5K SUBS	TT2889	059	500 SMMS
MRS HW & SW - Basic - 10K SUBS	TT2890	059	700 SMMS
MRS HW & SW - Basic - 25K SUBS	TT2891	059	1400 SMMS
MRS HW & SW - Basic - 50K SUBS	TT2892	059	2500 SMMS
MRS HW & SW - Basic - 100K SUBS	TT2893	059	4800 SMMS
MRS HW & SW - Basic - 250K SUBS	TT2894	059	11600 SMMS
MRS HW & SW - Basic - 500K SUBS	TT2895	059	22800 SMMS
MRS HW & SW - Basic - 1M SUBS	TT2896	059	45300 SMMS
MRS HW & SW - Basic - Geo-Redundancy - <=50K SUBS	TT3115	059	2500 SMMS
MRS HW & SW - Basic - Geo-Redundancy - 100K SUBS	TT3116	059	4800 SMMS
MRS HW & SW - Basic - Geo-Redundancy - 250K SUBS	TT3117	059	11600 SMMS
MRS HW & SW - Basic - Geo-Redundancy - 500K SUBS	TT3118	059	22800 SMMS
MRS HW & SW - Basic - Geo-Redundancy - 1M SUBS	TT3119	059	45300 SMMS

SMMS = Simultaneous Multi-Media Sessions

C. 2. MRS - Value Packages (OPTIONAL SOFTWARE ADD-ONS)

The following MRS Value Packages are also offered as optional add-on software to the MRS-BASIC. These can only be purchased on top of the MRS-BASIC, and are not offered independently.

IMS SOFTWARE ELEMENT = MRS - VALUE PACK - MRF MULTIMEDIA (SW)

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MRS VP Multimedia SW - 1K SUBS	TT3052	059	5 SMMS
MRS VP Multimedia SW - 5K SUBS	TT3053	059	5 SMMS
MRS VP Multimedia SW - 10K SUBS	TT3054	059	7 SMMS
MRS VP Multimedia SW - 25K SUBS	TT3055	059	14 SMMS
MRS VP Multimedia SW - 50K	TT3056	059	25 SMMS

SUBS			
MRS VP Multimedia SW - 100K	TT3057	059	48 SMMS
SUBS			
MRS VP Multimedia SW - 250K	TT3058	059	116 SMMS
SUBS			
MRS VP Multimedia SW - 500K	TT3059	059	228 SMMS
SUBS			
MRS VP Multimedia SW - 1M	TT3060	059	453 SMMS
SUBS			

SMMS = Simultaneous Multi-Media Sessions

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MRS VP HD Voice SW - 1K	TT3061	059	500 SMMS
SUBS			
MRS VP HD Voice SW - 5K	TT3062	059	500 SMMS
SUBS			
MRS VP HD Voice SW - 10K	TT3063	059	700 SMMS
SUBS			
MRS VP HD Voice SW - 25K	TT3064	059	1400 SMMS
SUBS			
MRS VP HD Voice SW - 50K	TT3065	059	2500 SMMS
SUBS			
MRS VP HD Voice SW - 100K	TT3066	059	4800 SMMS
SUBS			
MRS VP HD Voice SW - 250K	TT3067	059	11600 SMMS
SUBS			
MRS VP HD Voice SW - 500K	TT3068	059	22800 SMMS
SUBS			
MRS VP HD Voice SW - 1M	TT3069	059	45300 SMMS
SUBS			

IMS SOFTWARE ELEMENT = MRS - VALUE PACK - HD VOICE (SW)

D.1 Multimedia Telephony Application Server (MTAS) - BASIC

- Used for VoLTE and Video Calling Services

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MTAS HW & SW - Basic - 1K SUBS	TT3070	059	200 SMMS
MTAS HW & SW - Basic - 5K SUBS	TT2873	059	200 SMMS
MTAS HW & SW - Basic - 10K SUBS	TT2874	059	400 SMMS
MTAS HW & SW - Basic - 25K SUBS	TT2875	059	800 SMMS
MTAS HW & SW - Basic - 50K SUBS	TT2876	059	1400 SMMS
MTAS HW & SW - Basic - 100K SUBS	TT2877	059	2600 SMMS
			6400

MTAS HW & SW - Basic - 250K SUBS	TT2878	059	SMMS
MTAS HW & SW - Basic - 500K SUBS	TT2879	059	12600 SMMS
MTAS HW & SW - Basic - 1M SUBS	TT2880	059	25000 SMMS
MTAS HW & SW - Basic - Geo-Redundancy - <=250K SUBS	TT3120	059	6400 SMMS
MTAS HW & SW - Basic - Geo-Redundancy - 500K SUBS	TT3121	059	126000 SMMS
MTAS HW & SW - Basic - Geo-Redundancy - 1M SUBS	TT3122	059	25000 SMMS

D.2 Multimedia Telephony Application Server (MTAS) - Value Packages (OPTIONAL SOFTWARE ADD-ONS)

The following MTAS Value Package is offered as optional add-on software to the MTAS-BASIC. This can only be purchased on top of the MTAS-Basic and is not offered independently.

MTAS Value Pack - Multimedia - Required for video calling.

IMS SOFTWARE ELEMENT = MTAS - VALUE PACK - MULTIMEDIA (SW)

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MTAS VP Multimedia SW - 1K SUBS	TT3071	059	200 SMMS
MTAS VP Multimedia SW - 5K SUBS	TT3072	059	200 SMMS
MTAS VP Multimedia SW - 10K SUBS	TT3073	059	400 SMMS
MTAS VP Multimedia SW - 25K SUBS	TT3074	059	800 SMMS
MTAS VP Multimedia SW - 50K SUBS	TT3075	059	1400 SMMS
MTAS VP Multimedia SW - 100K SUBS	TT3076	059	2600 SMMS
MTAS VP Multimedia SW - 250K SUBS	TT3077	059	6400 SMMS
MTAS VP Multimedia SW - 500K SUBS	TT3078	059	12600 SMMS
MTAS VP Multimedia SW - 1M SUBS	TT3079	059	25000 SMMS

SMMS = Simultaneous Multi-Media Sessions

E. Media Gateway Controller (MCG) Function - BASIC

The Media Gateway Controller function is required for interworking from VoLTE to PSTN

(Landline) systems. Currently, the international (ETSI) flavor of this is offered. For pricing/ordering for North American (ANSI) networks, please contact Product Management.

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MGC International HW & SW - Basic - 1K SUBS	TT3042	059	200 SMMS
MGC International HW & SW - Basic - 5K SUBS	TT3043	059	200 SMMS
MGC International HW & SW - Basic - 10K SUBS	TT3044	059	300 SMMS
MGC International HW & SW - Basic - 25K SUBS	TT3045	059	700 SMMS
MGC International HW & SW - Basic - 50K SUBS	TT3046	059	1300 SMMS
MGC International HW & SW - Basic - 100K SUBS	TT3047	059	2500 SMMS
MGC International HW & SW - Basic - 250K SUBS	TT3048	059	6300 SMMS
MGC International HW & SW - Basic - 500K SUBS	TT3049	059	12500 SMMS
MGC International HW & SW - Basic - 1M SUBS	TT3050	059	25000 SMMS
MGC International HW & SW - Geo-Redundancy - <=1M SUBS	TT3114	059	25000 SMMS

F. Media Gateway (MGW) Function - BASIC

Media Gateway (MGW) Function - for VoLTE to PSTN interworking support (for an additional license fee) - this is for making calls to, or receiving calls from, a PSTN/landline network. The MGW is offered as a module (HW and SW) residing on the MRS system and is sometimes referred to as the MRS-MGW.

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
MRS - MGW HW & SW - Basic - 1K SUBS	TT3081	059	500 SMMS
MRS - MGW HW & SW - Basic - 5K SUBS	TT3082	059	500 SMMS
MRS - MGW HW & SW - Basic - 10K SUBS	TT3083	059	700 SMMS
MRS - MGW HW & SW - Basic - 25K SUBS	TT3084	059	1400 SMMS
MRS - MGW HW & SW - Basic - 50K SUBS	TT3085	059	2500 SMMS
MRS - MGW HW & SW - Basic - 100K SUBS	TT3086	059	4800 SMMS
MRS - MGW HW & SW - Basic - 250K			11600

SUBS	TT3087	059	SMMS
MRS - MGW HW & SW - Basic - 500K SUBS	TT3088	059	22800 SMMS
MRS - MGW HW & SW - Basic - 1M SUBS	TT3089	059	453000 SMMS
MRS - MGW HW & SW - Geo-Redundancy - <=1M SUBS (TBD until part is needed)	TBD	059	453000 SMMS

G. AUTHENTICATION FEDERATION GATEWAY (AFG)

The Authentication Federation Gateway provides the required function of IMS/VoLTE Ut interface authentication and support required for Supplementary Services, for users to be authenticated before self-administering some of the Supplementary Services (such as Call Forwarding, Call Barring, etc.)

This capability is offered as a virtualized application software, running on MSI provided hardware and virtualization platform.

The hardware, platform/virtualization software and application software are the ordering elements.

Hardware and Platform/Virtualization Software

Ordering Item	Order this P/N	APC	Part Name	Quantity	Stated Capacity
Supermodel for IMS Virtualized Applications (AFG, SMS, Voice Mail)	SQM01SUM0266A	059	IMS App Servers, APP Software and Licenses	1	N/A
Hardware, OS and Virtualization Platform Software Bundle	CA02532AA	059	IMS App Server - Config 1 HW Kit	1 for Non-Redundant and 2 for Geo-Redundant	1 to 1M subs

***NOTE: You can order one or more of these three applications in the same SQM order: AFG, SMS, Voice Mail.

Application SW - AFG

The software can be ordered for the target application software capacity bundle (the same SW license covers both non-redundant or geo-redundant). Only Quantity (1) needs to be ordered for non-redundant or geo-redundant.

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
IMS AFG Application Software (AS) - 1K SUBS	CA03163AA	059	1K SUBS
IMS AFG AS - 5K SUBS	CA03164AA	059	5K SUBS
IMS AFG AS - 10K SUBS	CA03165AA	059	10K SUBS

IMS AFG AS - 25K SUBS	CA03166AA	059 25K SUBS
IMS AFG AS - 50K SUBS	CA03167AA	059 50K SUBS
IMS AFG AS - 100K SUBS	CA03168AA	059 100K SUBS
IMS AFG AS - 250K SUBS	CA03169AA	059 250K SUBS
IMS AFG AS - 500K SUBS	CA03170AA	059 500K SUBS
IMS AFG AS - 1M SUBS	CA03171AA	059 1M SUBS

H. SMS over IMS

The Short Messaging Service (SMS) over IMS provides the PS-LTE operator the network capability of offering SMS messages on the LTE/IMS network and interworking with commercial SMS networks (this interworking is also called IP-SM gateway function).

The capability is offered as a virtualized application software running on MSI provided hardware and virtualized platform.

The hardware, platform/virtualization software and application software are the ordering elements.

Hardware and Platform/Virtualization Software

Ordering Item	Order this P/N	APC Part Name	Quantity	Stated Capacity
Supermodel for IMS Virtualized Applications (AFG, SMS, Voice Mail)	SQM01SUM0266A	059 IMS App Servers, APP Software and Licenses	1 1 for Non-Redundant	N/A
Hardware, OS and Virtualization Platform Software Bundle	CA02532AA	059 IMS App Server - Config 1 HW Kit Kit includes HW (per site - 1 HP server) and platform SW, firmware, VMWare, etc.)	2 for Geo-Redundant	1 to 1M subs

***NOTE: You can order one or more of these three applications in the same SQM order: AFG, SMS, Voice Mail.

Application Software - SMS over IMS

The software can be ordered for the target application software capacity bundle (the same SW license covers both non-redundant or geo-redundant). Note that the 10K subscribers is the minimum capacity offered. Only Quantity (1) needs to be ordered for non-redundant or geo-redundant.

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
SMS over IMS AS - 10K SUBS	CA03152AA	059	10K SUBS
SMS over IMS AS - 25K SUBS	CA02481AA	059	25K SUBS
SMS over IMS AS - 50K SUBS	CA02514AA	059	50K SUBS
SMS over IMS AS- 100K SUBS	CA02515AA	059	100K SUBS
SMS over IMS AS - 250K SUBS	CA02516AA	059	250K SUBS
SMS over IMS AS - 500K SUBS	CA02517AA	059	500K SUBS
SMS over IMS AS - 1M SUBS	CA02518AA	059	1M SUBS

I. IMS Voice Mail Application

The IMS Voice Mail Application provides the PS-LTE operator the network capability of offering Voice Mail messaging services on the LTE/IMS network.

The capability is offered as a virtualized application software running on MSI provided hardware and virtualization platform.

The hardware, platform/virtualization software and application software are the ordering elements. The hardware can be ordered as locally redundant (a pair of servers per site, and a DAS unit) or geo-redundant (a pair of sites, with identical configurations), a.k.a. "IMS Voice Mail Geo-Redundant Disaster Recovery (DR) solution. The Voice Mail solution must be ordered with associated supplier-provided IP Design and Commissioning Services - and especially in the case of the geo-redundant solution, the supplier services include "callout" (backup/restore) scripts that are required for performing disaster recovery.

Hardware and Platform/Virtualization Software

Ordering Item	Order this P/N	APC Part Name	Quantity	Stated Capacity
Supermodel for IMS Virtualized Applications (AFG, SMS, Voice Mail)	SQM01SUM0266A	059 IMS App Servers, APP Software and Licenses IMS App Server - Config 1 HW Kit Kit includes	1 1 for Locally Redundant	N/A

Server Hardware, OS and Virtualization Platform Software Bundle	CA02533AA	059	HW (per site - 2 HP servers) and platform SW (Firmware, VMWare, SW Load Balancer, etc.)	2 for Geo-Redundant	Dimensioning for beyond 10K subs configuration requires vendor inputs (contact Product Management)
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Network Attached Storage (NAS),HW, SW, Installation Services, Warranty, 3-Year Support	TT3191A	059	HPE 3PAR StoreServ 8000 Storage	2 for Geo-Redundant	Dimensioning for beyond 10K subs configuration requires vendor inputs (contact Product Management)
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***NOTE: You can order one or more of these three applications in the same SQM order: AFG, SMS, Voice Mail.

Application Software - Voice Mail

The software can be ordered for the target application software capacity bundle, and either locally-redundant (1 site) or geo-redundant (SW license covers both sites). Note that the 10K subscribers is the minimum capacity offered. Only Quantity (1) needs to be ordered for locally redundant or geo-redundant. Note that the 1M subscribers Geo-Redundant configuration is not currently offered.

CAPACITY TIER/DESCRIPTION	ORDER THIS PART NUMBER	APC	STATED CAPACITY
IMS Voice Mail AS - 10K SUBS	CA03155AA	059	10K SUBS
IMS Voice Mail AS - 25K SUBS	CA03156AA	059	25K SUBS
IMS Voice Mail AS - 50K SUBS	CA03157AA	059	50K SUBS
IMS Voice Mail AS - 100K SUBS	CA03158AA	059	100K SUBS
IMS Voice Mail AS - 250K SUBS	CA03159AA	059	250K SUBS
IMS Voice Mail AS - 500K SUBS	CA03160AA	059	500K SUBS
IMS Voice Mail AS - 1M SUBS	CA03161AA	059	1M SUBS
IMS Voice Mail AS - 10K SUBS - Geo-Redundant	CA03206AA	059	10K SUBS
IMS Voice Mail AS -25K SUBS - Geo-Redundant	CA03207AA	059	25K SUBS
IMS Voice Mail AS - 50K SUBS - Geo-Redundant	CA03208AA	059	50K SUBS
IMS Voice Mail AS - 100K SUBS - Geo-Redundant	CA03209AA	059	100K SUBS
IMS Voice Mail AS - 250K SUBS - Geo-Redundant	CA03210AA	059	250K SUBS

Configuration

Models

CSCF:

Description	Full Description	Nomenclature	APC	Price
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1K SUBS	-	TT3040	059	\$141,340.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 5K SUBS	-	TT2897	059	\$213,810.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 10K SUBS	-	TT2898	059	\$223,620.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 25K SUBS	-	TT2899	059	\$252,910.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 50K SUBS	-	TT2900	059	\$301,490.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 100K SUBS	-	TT2901	059	\$396,750.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 250K SUBS	-	TT2902	059	\$677,590.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 500K SUBS	CSCF HW & SW - Basic - 1M SUBS	TT2903	059	\$1,144,660.00

CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1M SUBS	-	TT2904	059	\$2,068,160.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR <=100K SUBS	-	TT3110	059	\$129,930.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 250K SUBS	-	TT3111	059	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 500K SUBS	-	TT3112	059	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 1M SUBS	-	TT3113	059	\$159,300.00

SBG:

Description	Full Description	Nomenclature	APC	Price
SESSION BORDER GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3041	059	\$85,600.00
SESSION BORDER GATEWAY HW & SW - BASIC - 5K SUBS	-	TT2881	059	\$165,370.00
SESSION BORDER GATEWAY HW & SW - BASIC - 10K SUBS	-	TT2882	059	\$168,610.00
SESSION BORDER GATEWAY HW & SW - BASIC - 25K SUBS	-	TT2883	059	\$181,550.00
SESSION BORDER GATEWAY HW & SW - BASIC - 50K SUBS	-	TT2884	059	\$200,920.00
SESSION BORDER GATEWAY HW & SW - BASIC - 100K SUBS	-	TT2885	059	\$239,560.00
SESSION BORDER GATEWAY HW & SW - BASIC - 250K SUBS	-	TT2886	059	\$347,710.00

SESSION BORDER GATEWAY HW & SW - BASIC - 500K SUBS	-	TT2887	059	\$514,710.00
SESSION BORDER GATEWAY HW & SW - BASIC - 1M SUBS	-	TT2888	059	\$789,590.00
SESSION BORDER GATEWAY HW & SW - BASIC-GR <= 1M SUBS	-	TT3123	059	\$67,910.00

MRS BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1K SUBS	-	TT3051	059	\$144,810.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 5K SUBS	-	TT2889	059	\$395,550.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 10K SUBS	-	TT2890	059	\$402,920.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 25K SUBS	-	TT2891	059	\$420,230.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 50K SUBS	-	TT2892	059	\$442,150.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 100K SUBS	-	TT2893	059	\$476,690.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 250K SUBS	-	TT2894	059	\$553,480.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 500K SUBS	-	TT2895	059	\$664,770.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1M SUBS	-	TT2896	059	\$881,980.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR <= 50K SUBS	-	TT3115	059	\$48,110.00

MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 100K SUBS	-	TT3116	059	\$48,610.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 250K SUBS	-	TT3117	059	\$49,120.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 500K SUBS	-	TT3118	059	\$50,630.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 1M SUBS	-	TT3119	059	\$55,570.00

MRS Value Package - MRF Multimedia (SW):

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1K SUBS	-	TT3052	059	\$690.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 5K SUBS	-	TT3053	059	\$2,520.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 10K SUBS	-	TT3054	059	\$5,040.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 25K SUBS	-	TT3055	059	\$12,590.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 50K SUBS	-	TT3056	059	\$25,170.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 100K SUBS	-	TT3057	059	\$50,340.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 250K SUBS	-	TT3058	059	\$125,840.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 500K SUBS	-	TT3059	059	\$251,670.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1M SUBS	-	TT3060	059	\$503,330.00

MRS Value Package - HD Voice (SW):

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1K SUBS	-	TT3061	059	\$1,600.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 5K SUBS	-	TT3062	059	\$5,860.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 10K SUBS	-	TT3063	059	\$11,720.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 25K SUBS	-	TT3064	059	\$29,290.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 50K SUBS	-	TT3065	059	\$58,580.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 100K SUBS	-	TT3066	059	\$117,160.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 250K SUBS	-	TT3067	059	\$292,890.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 500K SUBS	-	TT3068	059	\$585,780.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1M SUBS	-	TT3069	059	\$1,171,560.00

MTAS BASIC:

Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1K SUBS	-	TT3070	059	\$161,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 5K SUBS	-	TT2873	059	\$233,470.00
MULTIMEDIA TELEPHONY APPLICATION				

SERVER HW & SW - BASIC - 10K SUBS	-	TT2874	059	\$259,490.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 25K SUBS	-	TT2875	059	\$311,060.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 50K SUBS	-	TT2876	059	\$387,950.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 100K SUBS	-	TT2877	059	\$541,290.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 250K SUBS	-	TT2878	059	\$1,025,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 500K SUBS	-	TT2879	059	\$1,814,390.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1M SUBS	-	TT2880	059	\$3,346,080.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR <= 250K SUBS	-	TT3120	059	\$103,780.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR 500K SUBS	-	TT3121	059	\$141,540.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR 1M SUBS	-	TT3122	059	\$217,070.00

MTAS Value Package - Multimedia (SW):

Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1K SUBS	-	TT3071	059	\$1,230.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 5K SUBS	-	TT3072	059	\$4,500.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 10K SUBS	-	TT3073	059	\$8,990.00

MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 25K SUBS	-	TT3074	059	\$22,470.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 50K SUBS	-	TT3075	059	\$44,940.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 100K SUBS	-	TT3076	059	\$89,880.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 250K SUBS	-	TT3077	059	\$224,700.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 500K SUBS	-	TT3078	059	\$449,400.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1M SUBS	-	TT3079	059	\$898,800.00

MGC BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1K SUBS	-	TT3042	059	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 5K SUBS	-	TT3043	059	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 10K SUBS	-	TT3044	059	\$45,820.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL - HW & SW - BASIC - 25K SUBS	-	TT3045	059	\$56,730.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 50K SUBS	-	TT3046	059	\$71,420.00

MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 100K SUBS	-	TT3047	059	\$103,370.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 250K SUBS	-	TT3048	059	\$178,510.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL - HW & SW - BASIC - 500K SUBS	-	TT3049	059	\$295,910.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1M SUBS	-	TT3050	059	\$488,440.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC-GR <= 1M SUBS	-	TT3114	059	\$33,230.00

MGW BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3081	059	\$35,250.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 5K SUBS	-	TT3082	059	\$129,600.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 10K SUBS	-	TT3083	059	\$130,040.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 25K SUBS	-	TT3084	059	\$131,370.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 50K SUBS	-	TT3085	059	\$133,580.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 100K SUBS	-	TT3086	059	\$138,000.00
MEDIA RESOURCE SYSTEM - MEDIA				

GATEWAY HW & SW - BASIC - 250K SUBS	-	TT3087	059	\$150,810.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 500K SUBS	-	TT3088	059	\$298,950.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1M SUBS	-	TT3089	059	\$464,660.00

AFG - Hardware and Platform/Virtualization SW:

Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	059	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	059	\$28,580.00

AFG - Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS AFG AS - 1K SUBS	-	CA03163AA	059	\$45,450.00
ADD: IMS AFG AS - 5K SUBS	-	CA03164AA	059	\$167,080.00
ADD: IMS AFG AS - 10K SUBS	-	CA03165AA	059	\$178,030.00
ADD: IMS AFG AS - 25K SUBS	-	CA03166AA	059	\$210,870.00
ADD: IMS AFG AS - 50K SUBS	-	CA03167AA	059	\$260,300.00
ADD: IMS AFG AS - 100K SUBS	-	CA03168AA	059	\$356,340.00
ADD: IMS AFG AS - 250K SUBS	-	CA03169AA	059	\$633,180.00
ADD: IMS AFG AS - 500K SUBS	-	CA03170AA	059	\$1,063,290.00
ADD: IMS AFG AS - 1M SUBS	-	CA03171AA	059	\$1,876,590.00

SMS over IMS - Hardware and Platform/Virtualization SW :

Description	Full Description	Nomenclature	APC	Price
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IMS APPLICATION SERVERS	-	SQM01SUM0266	059	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	059	\$28,580.00

SMS over IMS - Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS SMS AS - 10K SUBS	-	CA02514AA	059	\$350,000.00
ADD: IMS SMS AS - 25K SUBS	-	CA02515AA	059	\$476,000.00
ADD: IMS SMS AS - 50K SUBS	-	CA02516AA	059	\$686,000.00
ADD: IMS SMS AS - 100K SUBS	-	CA02517AA	059	\$1,106,000.00
ADD: IMS SMS AS - 250K SUBS	-	CA02518AA	059	\$1,726,200.00
ADD: IMS SMS AS - 500K SUBS	-	CA03202AA	059	\$2,226,700.00
ADD: IMS SMS AS - 1M SUBS	-	CA03203AA	059	\$2,912,700.00

IMS Voice Mail Application:

Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	059	\$0.00
ADD: IMS APP SERVER - LARGE	-	CA02533AA	059	\$55,730.00
HPE 3PAR STORESERV 8000 STORAGE	-	TT3191	059	\$119,590.00

Voice Mail Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS VOICEMAIL AS - 10K SUBS	-	CA03155AA	059	\$267,680.00

ADD: IMS VOICEMAIL AS - 25K SUBS	-	CA03156AA	059	\$410,480.00
ADD: IMS VOICEMAIL AS - 50K SUBS	-	CA03157AA	059	\$654,360.00
ADD: IMS VOICEMAIL AS - 100K SUBS	-	CA03158AA	059	\$1,142,120.00
ADD: IMS VOICEMAIL AS - 250K SUBS	-	CA03159AA	059	\$1,534,400.00
ADD: IMS VOICEMAIL AS - 500K SUBS	-	CA03160AA	059	\$2,658,320.00
ADD: IMS VOICEMAIL AS - 1M SUBS	-	CA03161AA	059	\$4,618,320.00
ADD: IMS VOICEMAIL AS - 10K SUBS - GEO-REDUNDANT	-	CA03206AA	059	\$273,560.00
ADD: IMS VOICEMAIL AS - 25K SUBS - GEO-REDUNDANT	-	CA03207AA	059	\$416,360.00
ADD: IMS VOICEMAIL AS - 50K SUBS - GEO-REDUNDANT	-	CA03208AA	059	\$666,120.00
ADD: IMS VOICEMAIL AS - 100K SUBS - GEO-REDUNDANT	-	CA03209AA	059	\$1,165,640.00
ADD: IMS VOICEMAIL AS - 250K SUBS - GEO-REDUNDANT	-	CA03210AA	059	\$1,593,200.00
ADD: IMS VOICEMAIL AS - 500K SUBS - GEO-REDUNDANT	-	CA03211AA	059	\$2,980,040.00

Spares

TSP SPARES (CSCF, MTAS):

Description	Full Description	Nomenclature	APC	Price
DUST FILTER UNIT FOR BFD 538	-	DDN2196	059	\$520.00
GENERIC PROCESSOR BOARD: GEP3- 24GB	-	DDN2197	059	\$12,790.00
GENERIC PROCESSOR BOARD: GEP3-	-	DDN2198	059	\$15,190.00

HD600				
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	059	\$2,490.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	059	\$7,090.00

SBG SPARES:

Description	Full Description	Nomenclature	APC	Price
GENERIC PROCESSOR BOARD ASSY W/300G HDD: GEP3-HD300	-	DDN2201	059	\$14,030.00
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	059	\$2,490.00
INTELLIGENT SITE EDGE ROUTER: PRINTED BD ASSY/ISER GIGE 1000BASE	-	DDN2202	059	\$24,190.00
MEDIA PACKET PROCESSOR BOARD, PCB ASSEMBLY: MPP4-GE	-	DDN2203	059	\$15,100.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	059	\$7,090.00

MRS SPARES:

Description	Full Description	Nomenclature	APC	Price
PRINTED BOARD ASSEMBLY: AMC VPP 1 1 4	-	DDN2204	059	\$4,810.00
20 PRT 10G ETHERNET SWITCH BOARD: CMXB 10GE SWITCH 8 F/12 B CPPHPS	-	DDN2205	059	\$5,950.00
ETHERNET BOARD: ET-IPG; 1GB/S 4 PRT XAUI	-	DDN2206	059	\$7,810.00
GENERAL PURPOSE PROCESSOR BOARD (GPB7): DUAL CORE 1,5GHZ 2GB/2GB	-	DDN2207	059	\$5,650.00
GENERAL PURPOSE PROCESSOR BOARD	-	DDN2208	059	\$6,630.00

(GPB): DUAL CORE 1,5GHZ 4GB/2GB				
MEDIA STREAM BOARD (MSB): MSB AMC CR	-	DDN2209	059	\$8,110.00
SWITCH CONTROL BOARD SCB-TF: SCB-TF; 4ISL 630MB/S 3X800W	-	DDN2210	059	\$3,110.00
TIMING UNIT BOARD: TUB	-	DDN2211	059	\$2,380.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN2196	DUST FILTER UNIT FOR BFD 538	059	5
QUOTEDS	ERS	DDN2197	GENERIC PROCESSOR BOARD: GEP3-24GB	059	5
QUOTEDS	ERS	DDN2198	GENERIC PROCESSOR BOARD: GEP3-HD600	059	5
QUOTEDS	ERS	DDN2199	FAN UNIT ASSEMBLY: PFM HOD	059	5
QUOTEDS	ERS	DDN2200	SYSTEM CONTROL SWITCH BOARD: SCXB2	059	5
QUOTEDS	ERS	DDN2201	GENERIC PROCESSOR BOARD ASSY W/300G HDD: GEP3-HD300	059	5
QUOTEDS	ERS	DDN2202	INTELLIGENT SITE EDGE ROUTER: PRINTED BD ASSY/ISER GIGE 1000BASE	059	5
QUOTEDS	ERS	DDN2203	MEDIA PACKET PROCESSOR BOARD, PCB ASSEMBLY: MPP4-GE	059	5

QUOTEDS	ERS	DDN2204	PRINTED BOARD ASSEMBLY: AMC VPP 1 1 4	059	5
QUOTEDS	ERS	DDN2205	20 PRT 10G ETHERNET SWITCH BOARD: CMXB 10GE SWITCH 8 F/12 B CPPHPS	059	5
QUOTEDS	ERS	DDN2206	ETHERNET BOARD: ET-IPG; 1GB/S 4 PRT XAUI	059	5
QUOTEDS	ERS	DDN2207	GENERAL PURPOSE PROCESSOR BOARD (GPB7): DUAL CORE 1,5GHZ 2GB/2GB	059	5
QUOTEDS	ERS	DDN2208	GENERAL PURPOSE PROCESSOR BOARD (GPB): DUAL CORE 1,5GHZ 4GB/2GB	059	5
QUOTEDS	ERS	DDN2209	MEDIA STREAM BOARD (MSB): MSB AMC CR	059	5
QUOTEDS	ERS	DDN2210	SWITCH CONTROL BOARD SCB-TF: SCB-TF; 4ISL 630MB/S 3X800W	059	5
QUOTEDS	ERS	DDN2211	TIMING UNIT BOARD: TUB	059	5
FIXEDSTN	SCB	SQM01SUM0266	IMS APPLICATION SERVERS	059	20
QUOTEDS	ERS	TT2873	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT2874	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 10K SUBS	059	5
QUOTEDS	ERS	TT2875	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT2876	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 50K SUBS	059	5
			MULTIMEDIA TELEPHONY		

QUOTEDS	ERS	TT2877	APPLICATION SERVER HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT2878	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT2879	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT2880	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1M SUBS	059	5
QUOTEDS	ERS	TT2881	SESSION BORDER GATEWAY HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT2882	SESSION BORDER GATEWAY HW & SW - BASIC - 10K SUBS	059	5
QUOTEDS	ERS	TT2883	SESSION BORDER GATEWAY HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT2884	SESSION BORDER GATEWAY HW & SW - BASIC - 50K SUBS	059	5
QUOTEDS	ERS	TT2885	SESSION BORDER GATEWAY HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT2886	SESSION BORDER GATEWAY HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT2887	SESSION BORDER GATEWAY HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT2888	SESSION BORDER GATEWAY HW & SW - BASIC - 1M SUBS	059	5
QUOTEDS	ERS	TT2889	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT2890	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 10K SUBS	059	5

QUOTEDS	ERS	TT2891	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT2892	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 50K SUBS	059	5
QUOTEDS	ERS	TT2893	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT2894	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT2895	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT2896	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1M SUBS	059	5
QUOTEDS	ERS	TT2897	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT2898	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 10K SUBS	059	5
QUOTEDS	ERS	TT2899	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT2900	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 50K SUBS	059	5
QUOTEDS	ERS	TT2901	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT2902	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT2903	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT2904	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1M SUBS	059	5
QUOTEDS	ERS	TT3040	CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1K SUBS	059	5

QUOTEDS	ERS	TT3041	SESSION BORDER GATEWAY HW & SW - BASIC - 1K SUBS	059	5
QUOTEDS	ERS	TT3042	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1K SUBS	059	5
QUOTEDS	ERS	TT3043	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT3044	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 10K SUBS	059	5
QUOTEDS	ERS	TT3045	MEDIA GATEWAY CONTROLLER INTERNATIONAL - HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT3046	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 50K SUBS	059	5
QUOTEDS	ERS	TT3047	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT3048	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT3049	MEDIA GATEWAY CONTROLLER INTERNATIONAL - HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT3050	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1M SUBS	059	5
QUOTEDS	ERS	TT3051	MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1K SUBS	059	5
QUOTEDS	ERS	TT3052	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1K SUBS	059	5

QUOTEDS	ERS	TT3053	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 5K SUBS	059	5
QUOTEDS	ERS	TT3054	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 10K SUBS	059	5
QUOTEDS	ERS	TT3055	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 25K SUBS	059	5
QUOTEDS	ERS	TT3056	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 50K SUBS	059	5
QUOTEDS	ERS	TT3057	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 100K SUBS	059	5
QUOTEDS	ERS	TT3058	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 250K SUBS	059	5
QUOTEDS	ERS	TT3059	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 500K SUBS	059	5
QUOTEDS	ERS	TT3060	MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1M SUBS	059	5
QUOTEDS	ERS	TT3061	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1K SUBS	059	5
QUOTEDS	ERS	TT3062	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 5K SUBS	059	5
QUOTEDS	ERS	TT3063	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 10K SUBS	059	5
QUOTEDS	ERS	TT3064	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 25K SUBS	059	5
QUOTEDS	ERS	TT3065	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 50K SUBS	059	5

QUOTEDS	ERS	TT3066	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 100K SUBS	059	5
QUOTEDS	ERS	TT3067	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 250K SUBS	059	5
QUOTEDS	ERS	TT3068	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 500K SUBS	059	5
QUOTEDS	ERS	TT3069	MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1M SUBS	059	5
QUOTEDS	ERS	TT3070	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1K SUBS	059	5
QUOTEDS	ERS	TT3071	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1K SUBS	059	5
QUOTEDS	ERS	TT3072	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 5K SUBS	059	5
QUOTEDS	ERS	TT3073	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 10K SUBS	059	5
QUOTEDS	ERS	TT3074	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 25K SUBS	059	5
QUOTEDS	ERS	TT3075	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 50K SUBS	059	5
QUOTEDS	ERS	TT3076	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 100K SUBS	059	5
QUOTEDS	ERS	TT3077	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP	059	5

			MULTIMEDIA - 250K SUBS		
QUOTEDS	ERS	TT3078	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 500K SUBS	059	5
QUOTEDS	ERS	TT3079	MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1M SUBS	059	5
QUOTEDS	ERS	TT3081	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1K SUBS	059	5
QUOTEDS	ERS	TT3082	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 5K SUBS	059	5
QUOTEDS	ERS	TT3083	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 10K SUBS	059	5
QUOTEDS	ERS	TT3084	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 25K SUBS	059	5
QUOTEDS	ERS	TT3085	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 50K SUBS	059	5
QUOTEDS	ERS	TT3086	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 100K SUBS	059	5
QUOTEDS	ERS	TT3087	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 250K SUBS	059	5
QUOTEDS	ERS	TT3088	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 500K SUBS	059	5
QUOTEDS	ERS	TT3089	MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1M SUBS	059	5

QUOTEDS	ERS	TT3110	CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR <=100K SUBS	059	5
QUOTEDS	ERS	TT3111	CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 250K SUBS	059	5
QUOTEDS	ERS	TT3112	CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 500K SUBS	059	5
QUOTEDS	ERS	TT3113	CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 1M SUBS	059	5
QUOTEDS	ERS	TT3114	MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC- GR <= 1M SUBS	059	5
QUOTEDS	ERS	TT3115	MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR <= 50K SUBS	059	5
QUOTEDS	ERS	TT3116	MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 100K SUBS	059	5
QUOTEDS	ERS	TT3117	MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 250K SUBS	059	5
QUOTEDS	ERS	TT3118	MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 500K SUBS	059	5
QUOTEDS	ERS	TT3119	MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 1M SUBS	059	5
QUOTEDS	ERS	TT3120	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR <= 250K SUBS	059	5
QUOTEDS	ERS	TT3121	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR 500K SUBS	059	5
QUOTEDS	ERS	TT3122	MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR 1M SUBS	059	5
QUOTEDS	ERS	TT3123	SESSION BORDER GATEWAY HW & SW - BASIC-GR <= 1M SUBS	059	5

QUOTEDS	HPY	TT3191	HPE 3PAR STORESERV 8000 STORAGE	059	40
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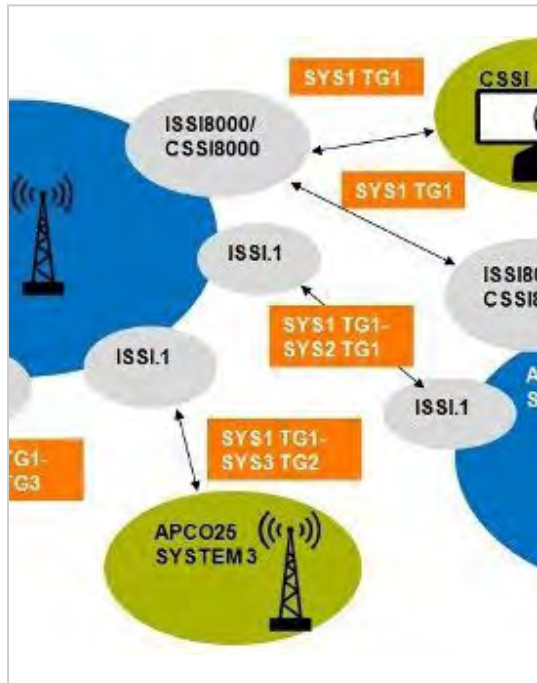
[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ISSI 8000 / CSSI 8000 P25 Interoperability Solutions

<https://drive.google.com/open?id=0BwRIjIR2dEIWcFI2WGJMMEs1VUE>

Price Pages -UPDATE in Progress !!

Ordering Information

Overview

- ISSI interoperability is nuanced, complex, and cannot be oversimplified as seamless mobility in a mission critical environment, particularly in a multi-vendor environment. Please step through specific interoperability scenarios to understand the capabilities and limitations imposed by subscriber fleet, infrastructure, consoles, inter-system links, and vendors on the solution.
- An ASTRO 25 system can support up to (24) P25 interfaces through the ISGW server. These interfaces can be ISSI roaming, CSSI, or WAVE 5000. In 7.13 and 7.14 these can be any combination of interfaces, though only one CSSI interface to a 3rd party console subsystems is allowed. In 7.15 the limitation of a single CSSI interfaces was removed. Any combination of ISSI, CSSI, and/or WAVE 5000 interfaces can be utilized, but the total cannot exceed 24.
- Interfaces can be mixed - can have automatic and manual roaming as separate connections.
- Please refer to the ISSI/CSSI 8000 wiki for system planners, interface standards,

presentation slides, solution briefs etc. <http://compass.mot-solutions.com/web/astro25issi8000>

ISSI / CSSI 8000 Trunking Core Compatibility Chart	7.13	7.14 & 7.15	7.16+
M1	No	Yes	Yes
M2	Yes	Yes	Yes
M3	Yes	Yes	Yes
L1	No	No	Yes
L2	No	No	Yes

- ISSI 8000 and CSSI 8000 are separate features within the same application that reside on a server. Once the hardware (ISGW server and firewall) is purchased, licenses for ISSI or CSSI interfaces can be added without having to order the hardware again.
- In release 7.16 and beyond, the ISGW server is no longer required as a piece of dedicated hardware. The ISSI 8000 application is virtualized on the M or L core server. However, the interface operating licenses are still required by ordering the T7776A model below.

IMPORTANT NOTE: A Data Collection Device (DCD) is highly recommended when implementing an ISSI 8000 interface to a foreign P25 system or a CSSI 8000 interface to a 3rd party console vendor's subsystem. This device will help with debugging the interface and help alleviate issues during the implementation phase. Please contact your service team for adding the DCD to the customers proposal.

Configuration

Ordering ISSI8000 / CSSI8000 for System Releases 7.16+

Beginning in system release 7.16, the ISSI application, gateway hardware, and firewall are included with the master site equipment. For 7.16 M-Cores, include option CA02950AA with Master Site supermodel SQM01SUM0273 to obtain the ISGW hardware and appropriate firewall. 7.16 L-Cores need no special ordering; these will ship with required hardware and software to enable ISSI/CSSI functionality.

The ISSI licenses to enable functionality are ordered using model T7776 plus the desired license options below.

Please refer to the master site price pages and ordering guides for more details about 'enabled' cores.

The SQM01SUM0227 supermodel is ONLY applicable for new M-cores or additions to existing M-cores up to and including system release 7.15 - see next section.

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRAGE Software Licenses	-	T7776	226	\$0.00

Ordering New ISSI8000 Hardware for System Releases 7.13 through 7.15

The SQM01SUM0227 supermodel is ONLY applicable for new M-cores or additions to existing M-cores up to and including system release 7.15.

Skip this step if you have already ordered an ISSI 8000 or CSSI 8000 solution and want to add an additional ISSI/CSSI license capacity.

The ISSI Server (ISGW) and firewall are required on the host system to utilize the ISSI solution. The ISGW supports a maximum of (24) P25 interfaces to foreign P25 RF systems, CSSI based Console subsystems, or WAVE 5000.

The server (ISGW) and the firewall used for ISSI 8000 or CSSI 8000 are different from those used in the older ISSI.1 NGW solution.

7.15 systems with Telephone Interconnect can share the Fortinet 100D firewall.

All UAxxxxxx software licenses must be ordered as options under the SQM01SUM0227 supermodel.

Description	Full Description	Nomenclature	APC	Price
ISGW SERVER USED FOR ISSI / CSSI	-	SQM01SUM0227	226	\$25,250.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
ISG 1000 FIREWALL W/ 2 YR SUPPORT	-	TT1932	708	\$40,000.00

Operating Licenses

The license options in this section are common to many of the ISSI ordering scenarios in this price page. They indicate the desire to 'appropriately' enable functionality inherent in the application software. Licenses can be ordered at initial sale, or when expanding capacity in the future.

For 7.16 systems and later, use model T7776 plus applicable licenses.

For new 7.13 - 7.15 deployments, use model SQM01SUM0227 plus applicable licenses...

where a dedicated ISSI server is being purchased for the first time as part of a new master site,
 OR
 when adding ISSI/CSSI hardware for the first time to an existing 7.13-7.15 system
 For adding licenses to any previously deployed configuration, use model T7776.

After selecting T7776 please choose the appropriate quantity of feature licenses such as:
 Manual Roaming, Automatic Roaming, Simultaneous Talkgroup Capacity, Console Operator
 Position License, etc.

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRAGE Software Licenses	-	T7776	226	\$0.00

Manual and Automatic Roaming Interface Licenses

ISSI 8000 Price Notification - 8/17/16

<https://drive.google.com/open?id=0BwRlJIR2dEIWcFI2WGWJMMes1VUE>

Manual Roaming

Manual roaming gives the user the ability to use the ISSI 8000 as a basic interoperability solution with similar capabilities to the older ISSI.1 NGW, and the ability to view PTT IDs and emergency alarms of the subscribers in the foreign system during an active call. This option enables users to monitor foreign Talkgroups on their MCC 7500/7100 dispatch consoles. Centracom Consoles are not able to monitor foreign TGs. Users have the option to upgrade to automatic roaming capability if they choose to in the future. For Manual roaming, subscribers will need to be provisioned in the foreign system as well, and users will have to manually change the mode on their radio when out of coverage of the home system. Each ISSI roaming license comes with the ability to process 10 simultaneous TG calls over the ISSI link. Increased call capacity can be added by ordering TG license packs below.

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Manual Roaming License	Each connection for systems 1-24 requires this option.	UA00004AA	226	\$2,000,000.00

Automatic roaming

Automatic roaming gives the user the ability to use the ISSI 8000 solution with automatic roaming capabilities, including the ability to view PTT IDs and emergency alarms of the subscribers in the foreign system during an active call. This is subject to the limitations that the foreign system supports automatic roaming. Automatic roaming is only supported on GTR 8000 sites in an ASTRO 25 system. Quantar or STR sites do not support automatic roaming. This option enables users to monitor foreign Talkgroups on their MCC 7500/7100 dispatch consoles as well as on their subscribers. Centracom Consoles are not able to monitor foreign

TGs.

Each ISSI roaming license comes with the ability to process 10 simultaneous TG calls over the ISSI link. Increased call capacity can be added by ordering TG license packs below. Multiple options are permitted and tiered by quantity. Order as many licenses as the number of desired systems to interface from the home system. Selecting 3 manual roaming licenses and 2 Automatic roaming licenses implies that your customer can finger-tip (manually) roam to 3 other systems and automatically roam into the coverage area of 2 other systems.

A maximum of (24) P25 interfaces are supported by ISSI 8000 including: Manual Roaming, Automatic Roaming, CSSI console subsystem, or WAVE 5000.

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Automatic Roaming License (for first system)	-	UA00005AA	226	\$2,000,000.00
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 2-5)	Each connection for systems 2-5 requires this option. It is not meant to imply that all 4 connections are included.	UA00184AA	226	\$2,000,000.00
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 6+)	Each connection for systems 6-24 requires this option. It is not meant to imply that all 19 connections are included.	UA00185AA	226	\$2,000,000.00

Simultaneous TalkGroup Call Capacity Licenses

This option applies only to Manual or Automatic Roaming.

Each ISSI roaming license includes the ability to operate 10 simultaneous calls across the ISSI link. Use this option to add additional capacity to your ISSI solution.

Order the appropriate number of Talkgroup license packs based upon the number of simultaneous Talkgroup registrations you want to have with a foreign system. You may order up to a maximum of nineteen (19) additional Talkgroup license packs per ISSI link - to enable support for up to 200 simultaneous calls through the ISSI interface. Each option ordered provides a license for 10 additional TGs. Example: If a system with a single roaming license requires 20 simultaneous foreign TG registrations, the order should include a quantity of one (1) additional Talkgroup license pack. If a system requires 30 foreign TG registrations, a quantity of two (2) Talkgroup license packs should be ordered.

It is important to understand that the simultaneous call capacity is a resource pool and not assigned to any particular system to system connection. Calls across any of the system connections will borrow resources from the pool and return them as calls are ended. This option is designed to allow planning for boundary conditions that exceed typical ISSI operation.

Description	Full Description	Nomenclature	APC	Price
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ADD: ISSI +10 Addition simultaneous Talk Group Capacity License	-	UA00006AA	226	\$50,000.00
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CSSI: Select Number of Operator Position Licenses

The CSSI interface is used to connect a 3rd party console to an ASTRO 25 system. The CSSI license (connection) supports all of the console activity coming through a single 3rd party console subsystem link and is based on the number of operator positions utilizing the link.

Quantity of licenses here should match the number of console ops that a customer wants to add for CSSI interface

Description	Full Description	Nomenclature	APC	Price
ADD: CSSI Operator Position License	-	UA00009AA	226	\$30,000.00

Redundancy

In system releases 7.13-7.15, the Redundancy license indicates the presence of a 2nd, physical ISGW server that serves as a backup to the primary server. Backup / Redundant / DSR servers do not require operating licenses, which are purchased with the primary server. The Redundancy license is the only option that is purchased with the backup hardware units.

In system releases 7.16 and later, the ISSI application is virtualized within the master site servers and no longer runs on its own dedicated server. The Redundancy option is still required to track the instance of a backup ISSI application if DSR or Redundancy is designed into these systems, i.e. whenever there is a backup master site server in a ISSI-enabled system, the Redundancy option is required.

If Dynamic System Resiliency or a Redundant ISGW is desired, the operating licenses only need to be purchased 1 time with the primary ISSI gateway. Secondary units only require the UA00042AA Redundancy option to indicate that they are backup units should the primary unit fail.

A Redundant ISGW is highly recommended even for Non-DSR configurations especially if connecting to a non-Motorola ISSI gateway. Non-DSR ASTRO 25 system configuration however does not support a redundant firewall.

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI 8000 / CSSI 8000 Redundancy Software License	-	UA00042AA	226	\$0.00

Upgrading existing ISSI / CSSI 8000 Systems

When upgrading to a specific release, please select the correct software from below.

Description	Full Description	Nomenclature	APC	Price

ISSI 8000 / CSSI 8000 7.14 SOFTWARE	-	T8023	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.15 SOFTWARE	-	T8145	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.16 SOFTWARE	-	CLN8973	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.17 SOFTWARE	-	CLN9004	226	\$10,000.00

Migrations and Conversions

Migrating from ISSI.1 to ISSI 8000

Hardware used for ISSI 8000 (ISGW Server and Firewall) is different from ISSI.1 NGW. Customers may upgrade from ISSI.1 NGW to ISSI 8000 by swapping their server hardware, but without repurchasing manual roaming licenses for a new ISSI 8000. This will allow a customer to utilize the newer ISSI 8000 Solution when upgrading their ASTRO 25 system to release 7.13 or later, and receive the benefits of PTT ID being passed between systems. It also provides a path for upgrading to Automatic Roaming and taking advantage of more features available.

For existing ISSI.1 NGW users moving to ISSI 8000 on system releases 7.13-7.15 - These are systems that are assumed to have an HP DL380 G8 Master Site architecture:

Step 1: Order the hardware (ISGW Server and Firewall) New or add-on 7.13 - 7.15 systems at the top of the page.

Step 2: Order the appropriate quantity UA00007AA options based on the number of ISSI.1 applications previously purchased.

Provides 1 Manual Roaming ISSI 8000 interface with capacity for 30 simultaneous talkgroup calls. (New ISSI 8000 roaming licenses provide 10 simultaneous TG calls)

Step 3: Optionally, the new ISSI 8000 Manual Roaming license can be upgraded to Automatic Roaming by adding the UA00008AA conversion option noted below to the order.

An order with the ISSI.1 NGW to ISSI 8000 Manual Roaming upgrade option will go on product group hold. The order # for the existing ISSI.1 equipment will be required in order to verify previous purchase activity and transfer the licenses.

For existing ISSI.1 users migrating to system release 7.16 or later, but keeping G8 master site, follow the same instructions as above to get the required ISSI 8000 hardware.

For ISS.1 customers moving to ISSI 8000 on 7.16 or later systems AND converting the master site to the newer HP G9 server architecture, order model T7776A with the UA00007AA option.

Because of the virtualization in G9-based 7.16+ systems, there is no additional hardware required for ISSI. Only the new upgrade license is required.

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI.1 TO ISSI 8000 Product Upgrade License	-	UA00007AA	226	\$0.00

Convert ISSI8000 Manual Roaming to Automatic Roaming

For users who have previously purchased Manual Roaming and want to upgrade to Automatic

Roaming

Orders for this option will go on product group hold to verify previous license purchase activity.

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRAGE Software Licenses	-	T7776	226	\$0.00
ADD: ISSI Manual to Automatic Roaming Upgrade License	This option is only valid if UA00004 has been previously purchased.	UA00008AA	226	\$125,000.00

Other Product Interactions

Upgrade XTS/XTL Subscribers to support Automatic Roaming

- This section is applicable only if Automatic Roaming is required. This is not applicable for Manual Roaming.
- These options enable select XTS/XTL subscribers (XTS5000, XTS2500 BN, XTS1500 BN, XTS4000, and all XTL models) to automatically roam onto a foreign system and maintain connectivity back to their home system as well as have access to communicate on foreign TalkGroups if they have the authorization to do so.
- Auto-Roaming capability is standard on all the APX series subscribers, however existing APX subscribers may still need to be flash upgraded to the latest version available (R09.00.00 is the minimum APX release for 7.13 where automatic roaming was first certified).
- Please remember that radios may need to be programmed with TG information from foreign systems if they want to communicate on foreign TGs. Radios can also be programmed with alias information from foreign systems via CPS to identify aliases of users in the foreign system.

IMPORTANT NOTE: *The options noted apply to subscriber upgrade models and are addressed elsewhere as part of the subscriber ordering structure*

Q369 License is applicable for XTS (Portable) Radios

G369 License is applicable for XTL (Mobile) Radios

InterSystem Data Operation

Allows configuration of InterSystem Data in the system. InterSystem Data (Connected CEN) provides packet data accessibility across ASTRO 25 systems (7.15 and later). Automatic Roaming is required for InterSystem Data.

IMPORTANT NOTE: This option (UA00163AA) is part of the Master Site ordering structure

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN8973	ISSI 8000 / CSSI 8000 7.16 SOFTWARE	226	14
CNTLPATH	SCB	CLN9004	ISSI 8000 / CSSI 8000 7.17 SOFTWARE	226	20
FIXEDSTN	SCB	SQM01SUM0227	ISGW SERVER USED FOR ISSI / CSSI	226	7
FIXEDSTN	SCB	T7776	ISSI 8000 / CSSI 8000 UPGRAGE Software Licenses	226	1
FIXEDSTN	SCB	T8023	ISSI 8000 / CSSI 8000 7.14 SOFTWARE	226	14
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY MEDIA	147	32
FIXEDSTN	SCB	T8145	ISSI 8000 / CSSI 8000 7.15 SOFTWARE	226	14
QUOTEDS	SHK	TT1932	ISG 1000 FIREWALL W/ 2 YR SUPPORT	708	2

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INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model**ASTRO® KMF Crypto Card
FLASHport® Universal Crypto Module (UCM) Upgrades**

Ordering Information**General Information**

The KMF Crypto Card FLASHport Universal Crypto Module (UCM) Upgrades allow secure customers the ability to upgrade their basic and algorithm software within a fielded KMF Crypto Card without having to replace the Crypto Card. The UCM software upgrade does require the use of a key loading device (KVL 3000 or KVL 3000 Plus) and a PCMCIA card to deliver the new software to the UCM. When Upgrading the UCM module with AES Encryption. A KVL 3000 Plus is required to FLASH upgrade the module (KVL 3000 does not support AES).

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
c/o: David Horn
1301 E. Algonquin Rd.
Schaumburg, IL
60196

[KEY MANAGEMENT FACILITY Specification Sheet](#)

Ordering Requirements

1. Order PCMCIA Universal Crypto Module (UCM) Upgrade Card (T6775A). Each upgrade kit consists of a single PCMCIA Card that can upgrade up to 100 individual KMF Crypto Cards.
2. Select a desired software upgrade option.
 - Only one (1) option number can be ordered with upgrade card (T6775A)
 - Specify the number of upgrades required
 - Each individual KMF Crypto Card requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.
 - The software options must be ordered in equal number and can not exceed 100 per upgrade option.
3. The KMF Crypto Card FLASHport UCM upgrade requires a key loading device (KVL 300/ KVL 3000 Plus (required for AES encryption)) for updating the basic software and adding a new encryption algorithm into a fielded KMF Crypto Card.

The following example will provide an upgrade card to upgrade twenty (20) fielded KMF Crypto Cards with the AES algorithm.

Item Number Quantity Part Number Description

1 1 T6775A PCMCIA Universal Crypto Module (UCM) Upgrade Kit

1a 20 CA00182AD ADD: AES Encryption Software

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction.

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) are highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
c/o: David Horn
1301 E. Algonquin Rd.
Schaumburg, IL
60196

Configuration

Models

Options

Software

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	-	CA00147AB	137	\$1,000.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DES OFB ENCRYPTION KIT	-	CA00143AA	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AA	137	\$750.00
ADD: AES ENCRYPTION KIT	NOTE: If a customer has an existing 3.1 KMF they can not add the AES Encryption Kit (CA00182AC) unless their current KMF software application is at version R1.11.1 or higher. Please work with system engineering when adding AES encryption to a 3.1 KMF.	CA00182AC	137	\$750.00

IMPORTANT UPDATE: AES OTAR FIPS APPROVED: On December 16, 2003, NIST and CSE issued a joint statement accepting AES OTAR as a FIPS approved mode of operation. The AES OTAR option (CA00182AC) is now validated to FIPS 140-2 given that the current P25 AES OTAR standard has now been approved by NIST.

Ship Card

Data Not Available

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Key Management Facility
(Integrated Trunking & Conventional)**

Ordering Information

Features

Click [here](#) for additional information.

The Key Management Facility (KMF) provides encryption key management services for Motorola's systems including: ASTRO 25 7.14 (and beyond) and PSLTE R9 (and beyond). The following is a sample of the KMF's features and services:

- Over The Air Rekeying (OTAR)
- Over The Ethernet Keying (OTEK)
- Automatic Retry Opportunities
- Store and Forward
- Agency Partitioning
- Remote Inhibit/Enable/Zeorize
- KMF Hello
- KMF Redundancy

OTAR is utilized with ASTRO Subscribers and PSLTE LEX devices with CRYPTR micro. OTEK is used with Consoles, WAVE CRYPTR, and the PDEG/CDEM.

The information contained within applies to the High Tier KMF (64,000 users, 64 partitions) and the Mid Tier KMF (1,000 users (upgradeable to 64,000), 1 partition (upgradeable to 64)).

IMPORTANT NOTE: Instructor-led training and demo videos are available for customers. Participation is highly recommended. For more info, click [here](#).

General Information

The KMF consists of three major elements:

- A web based software application
- A KMF Server application
- A KMF CryptR

The three elements are shipped independently and need to be connected within the customer system. The Customer Center for System Integration (CCSI) may be contracted for integration, the customer may choose to integrate the three elements, or other third party solutions may be available at the customers' discretion.

The KMF CRYPTR is a device that performs encryption and decryption for all security critical key management messages. Encryption Modules equipped with AES are APCO Project 25 and FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

KMF Redundancy allows for automatic database back up and automatic switch over from the main to the standby server in a system. Redundant servers can be co-located, or at a remote site while on the same subnet, to enhance failure recovery.

Configuration

NEW KMF – SERVER, CLIENT, CRYPTR, REDUNDANCY

KMF SERVER & CLIENT (REQUIRED)

REQUIRED FOR KMF SERVER & CLIENT:

Description	Full Description	Nomenclature	APC	Price
KEY MANAGEMENT FACILITY	-	T7688	137	\$0.00
ADD: KMF SERVER AND WEB CLIENT SW	(Note: Includes 1,000 users, 1 agency, 2 client licenses)	ZA01180AA	137	\$105,000.00
KMF DL360 G10 SERVER	-	T8698	137	\$14,500.00

OPTIONAL FOR KMF SERVER & CLIENT:

Software Options

Description	Full Description	Nomenclature	APC	Price
ADD: MORE THAN 1000 RADIO USERS	(Note: Provides up to 64,000 users)	ZA00861AA	137	\$75,000.00
64 AGENCY PARTITIONING	(Note: Provides the capability of dividing the KMF database into 64 agencies)	ZA00975AA	137	\$50,000.00

Client Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL CLIENT LICENSE	(Note: Additional client licenses, up to an orderable quantity of 8, for total client licenses of 10 with the 2 included)	ZA00864AA	137	\$15,000.00
ADD: 11-32 Client Licenses	(Note: Client Option Bundle beyond 10 client licenses)	ZA00972AA	137	\$75,000.00
ADD: 33-65 Client Licenses	(Note: Client Option Bundle beyond 32 client licenses, maximum of 65 total client licenses)	ZA00973AA	137	\$75,000.00
ADD: 11- 65 Additional Client License	-	ZA00974AA	137	\$7,500.00

Anti-Virus Software For Server & Client

Description	Full Description	Nomenclature	APC	Price
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.NOTE - MGECS DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00

KMF CRYPTR (REQUIRED)

REQUIRED FOR KMF CRYPTR:

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
KMF CRYPTR	-	SQM01SUM0222	137	\$750.00
ADD: BASIC SOFTWARE OPTION	-	CA00147AG	137	\$3,500.00

A single Encryption Algorithm Kit must be ordered with each KMF CRYPTR.
 Up to five (5) Encryption Algorithm Kits can be ordered with a single KMF CRYPTR.

Encryption Algorithm Kit choices are:

Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00

The PSLTE (CRYPTR micro) algorithm is only AES 256.

A line cord must be ordered with each KMF CRYPTR.

Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

The following items are shipped with a KMF CRYPTR Unit:

- 1 Mini USB Cable
- 1 Ethernet Crossover Cable
- 1 AC Power Supply w/AC Line Cord and power adapter cable
- 1 Transformer/ AC Adapter

Products, kits, components and software that contain encryption functions or features, and technology related to the development or implementation of encryption functions or

features, will generally require an approved export license prior to export. If required, export license approvals will be based on the algorithms involved, the country of final destination and the specific end user. Depending on the location of the entity making the sale and the source location of the encryption items it may be necessary to obtain licensing from more than one country for the same sale. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Accessories/Replacement Items

Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGEN	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
TRANSFORMER/AC ADAPTER	-	DLN6732	811	\$35.00
MINI USB CABLE	-	DLN6735	811	\$25.00
POWER ADAPTER CABLE	-	DLN6739	811	\$65.00

KMF REDUNDANCY (OPTIONAL)

REQUIRED FOR KMF REDUNDANCY:

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
ADD: KMF REDUNDANCY SOFTWARE	-	CA01229AA	137	\$14,000.00
KMF CRYPTR	-	SQM01SUM0222	137	\$750.00
ADD: BASIC SOFTWARE OPTION	-	CA00147AG	137	\$3,500.00

KMF DL360 G10 SERVER	-	T8698	137	\$14,500.00
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A single Encryption Algorithm Kit must be ordered with each KMF CRYPTR.
Up to five (5) Encryption Algorithm Kits can be ordered with a single KMF CRYPTR.

Encryption kits must match the main configuration.

Encryption Algorithm Kit choices are:

Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00

A line cord must be ordered with each KMF CRYPTR.

Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

UPGRADES

PLEASE NOTE: Any Software and Hardware expansions or upgrades are only supported for releases with the ASTRO Standard Support period.

IMPORTANT NOTE: Instructor-led training and demo videos are available for customers. Due to the scope of operational changes, customer participation is highly recommended. For more info, click [here](#).

KMF SERVER & WEB CLIENT SOFTWARE UPGRADES

Description	Full Description	Nomenclature	APC	Price
KMF SERVER & WEB CLIENT SW UPGRDE	-	T8631	137	\$0.00
ADD: KMF REDUNDANCY SOFTWARE	-	CA01229AA	137	\$14,000.00
ADD: KMF SERVER AND WEB CLIENT SW	ADD: KMF SERVER AND WEB CLIENT SW	CA03599AA	137	\$27,500.00

Note: The Client's Computer Operating System must be Windows 10, or later, with 2 GB of memory or it must be upgraded to this configuration.

KMF FEATURE UPGRADES

Description	Full Description	Nomenclature	APC	Price
KMF UPGRADE OPTIONS KIT	-	T7689	137	\$0.00
ADD: MORE THAN 1000 RADIO USERS	(Note: Provides up to 64,000 users)	ZA00861AA	137	\$75,000.00
64 AGENCY PARTITIONING	(Note: Provides the capability of dividing the KMF database into 64 agencies)	ZA00975AA	137	\$50,000.00
ADD: ADDITIONAL CLIENT LICENSE	(Note: Additional client licenses, up to an orderable quantity of 8, for total client licenses of 10 with the 2 included)	ZA00864AA	137	\$15,000.00
ADD: 11-32 Client Licenses	(Note: Client Option Bundle beyond 10 client licenses)	ZA00972AA	137	\$75,000.00
ADD: 33-65 Client Licenses	(Note: Client Option Bundle beyond 32 client licenses, maximum of 65 total client licenses)	ZA00973AA	137	\$75,000.00
ADD: 11- 65 Additional Client License	-	ZA00974AA	137	\$7,500.00

REQUIRED FOR CUSTOMERS WISHING TO ADD REDUNDANCY TO THEIR EXISTING KMF (WEB BASED THIN CLIENT):

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
WEB KMF REDUNDANCY SW	-	DLN7003	137	\$57,150.00
KMF CRYPTR	-	SQM01SUM0222	137	\$750.00
ADD: BASIC SOFTWARE OPTION	-	CA00147AG	137	\$3,500.00
KMF DL360 G10 SERVER	-	T8698	137	\$14,500.00

A single Encryption Algorithm Kit must be ordered with each KMF CRYPTR.
Up to five (5) Encryption Algorithm Kits can be ordered with a single KMF CRYPTR.

The main KMF software must match the Redundancy software version.

Encryption Algorithm Kit choices are:

Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00

A line cord must be ordered with each KMF CRYPTR.

Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, UK	-	CA02064AA	137	\$0.00

AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

KMF CRYPTR SOFTWARE UPGRADE

REQUIRED FOR CUSTOMERS WISHING TO UPGRADE THEIR KMF CRYPTR TO THE LATEST VERSION OF SOFTWARE:

Description	Full Description	Nomenclature	APC	Price
KMF CRYPTR SOFTWARE CD UPGRADE	-	T8209	137	\$100.00

KMF CRYPTR ENCRYPTION (ALGORITHM) UPGRADE

REQUIRED FOR CUSTOMERS WISHING TO ADD ALGORITHMS TO A FIELD KMF CRYPTR VIA THE KVL:

Description	Full Description	Nomenclature	APC	Price
KMF CryptR Encryption CD Upgrade Kit	-	T7766	137	\$50.00

You must choose only one (1) Encryption Option per T7766.

You must order one (1) encryption option per KMF CRYPTR needing upgrade.

You can order up to a qty of 20 of the Encryption Option.

Description	Full Description	Nomenclature	APC	Price
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	CLN0005	SOFTWARE,WINDOWS 2012 EMB UPGRADE KIT	708	7
SOFTWARE	SCB	DLN6672	KMF REDUNDANCY SOFTWARE	137	20
CNTLPATH	SCB	DLN6732	TRANSFORMER/AC ADAPTER	811	10
CNTLPATH	SCB	DLN6735	MINI USB CABLE	811	29
CNTLPATH	SCB	DLN6739	POWER ADAPTER CABLE	811	10
SOFTWARE	SCB	DLN7003	WEB KMF REDUNDANCY SW	137	11
QUOTEDS	SHI	DSMT9234MUCDCXR	USB MODEM BY MULTITECH - REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY	708	10
SOFTWARE	SCB	SQM01SUM0222	KMF CRYPTR	137	14
SOFTWARE	SCB	T7517	KMF REDUNDANCY SOFTWARE UPGRADE KIT	137	20
SOFTWARE	SCB	T7688	KEY MANAGEMENT FACILITY	137	31
SOFTWARE	SCB	T7689	KMF UPGRADE OPTIONS KIT	137	5
SOFTWARE	SCB	T7766	KMF CryptR Encryption CD Upgrade Kit	137	11
CNTLPATH	SCB	T7768	KMF SERVER & CLIENT SOFTWARE UPGRADE	137	20
CNTLR	SCB	T7885	MCAFEE WINDOWS AV CLIENT	708	21

SOFTWARE	SCB	T8209	KMF CRYPTR SOFTWARE CD UPGRADE	137	27
SOFTWARE	SCB	T8630	WEB KMF REDUNDANCY SW UPGR	137	3
SOFTWARE	SCB	T8631	KMF SERVER & WEB CLIENT SW UPGRDE	137	4
FIXEDSTN	SCB	T8698	KMF DL360 G10 SERVER	137	8
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
CNTLPATH	SCB	TKN9285	RACK MOUNT KIT FOR CRYPTR II	811	16
QUOTEDS	PCW	TT2872	DL380 G9 SERVER WITH WINDOWS SERVER 2012 EMBEDDED	708	15
QUOTEDS	PCW	TT3125	KMF DL380 G9 SERVER WITH WINDOWS SERVER 2008	708	15

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Model



KVL 4000
Key Variable Loader

THE KVL 5000 IS NOW AVAILABLE. THE KVL 5000 WILL REPLACE THE KVL 4000. TO ORDER YOUR NEXT GENERATION [KEY LOADER CLICK HERE.](#)

Ordering Information

General Information

PLEASE NOTE: The Standard Support Period for the 7.11 Release ends on June 30, 2017. Any software and hardware expansions on this release will no longer be supported after this date.

Click [here](#) for additional information.

[LINK TO ORDERING GUIDE](#)

KVL 4000 Description & Details

The KVL 4000 is a two piece handheld key fill device (PDA and security adaptor) that allows customers to create, store, and deliver encryption keys, authentication keys, and algorithms into their security compatible radios, devices, and other secure communication infrastructure equipment. The KVL (Key Variable Loader) is required to load keys for all secure equipped products (subscriber and infrastructure) containing AES, DES, ADP, DES-XL, DES-OFB, DVP-XL and DVI-XL cryptographic algorithms.

The KVL 4000 has three modes of operation available: ASTRO 25 Mode, Radio

Authentication Mode, and ASN Mode.

ASTRO 25 Mode

is required for P25 compliant systems, for ASTRO 25 (Conventional and Tactical) OTAR, and for any interactions with the Key Management Facility (KMF). ASTRO 25 mode provides Common Key Reference (CKR) key management. CKR key management eliminates the need to place a key in a specific memory location. All secure products that support CKR™ will access the same encryption keys independent of physical storage capabilities of the product.

NOTE: An Over-the-Air Rekeying (OTAR) system is a secure communications system in which encryption keys, managed by Key Management Facility (KMF), can be sent to subscriber units via radio transmission to a subscriber to load keys. Tactical OTAR allows the user, without the KMF, to wirelessly rekey radios within range of a radio modem connected to a KVL.

NOTE: If purchasing a KVL 4000 for use in LTE, you are required to use ASTRO 25 Mode.

Radio Authentication Mode

is required to enable the ability for the KVL to generate and send radio authentication keys. In Radio Authentication Mode The KVL 4000 generates a unique authentication key for each radio and synchronizes the authentication key information with the ASTRO 25 system remotely over a secure Virtual Private Network (VPN) connection without requiring the operator to travel to the ASTRO 25 core location.

The Radio Authentication key is a unique 128 bit AES key, defined by the Project 25 standard, is required for the authentication key. It is generated by the KVL 4000 and stored in the Authentication Center (AuC). To maximize integrity, the authentication key is never sent over the air and it cannot be read from the radio.

The Radio Authentication Center is a central database that stores the authentication keys for all radios in the system.

See

[Solution Brief](#)

for more details.

Advanced Securenet (ASN) Mode

is for customers utilizing Physical Identifier (PID) key management. ASN mode provides PID key management. PID key management identifies a physical memory slot where a key variable is stored in a unit. All products that support PID key management access the same encryption keys dependent on the physical storage capability of the product. PID key management provides support for all SECURENET, Secure ASTRO, and Secure ASTRO@25 systems

[NOTE: Regarding DIMETRA: The Dimetra (Air Interface Encryption-AIE) KVL 3000 Plus Key Variable Loader is used to store and transfer encryption keys from the Authentication Centre to Dimetra System infrastructure devices (i.e. Zone Controller, Tetra Site Controller, and the Base Radio Controller) and Mobile Stations.]

[NOTE: To keyload CRYPTRmicro you must have KVL 4000 version B; on the security adapter label it must read T7537B.]

When to quote KVL 4000

Quote a KVL 4000 to your customer if:

- The customer is going to use encryption on their radio channels
- They have a KMF
- They want to use OTAR
- They need to load encryption algorithms, aftermarket, on to their radios

Customer Considerations

Things for the customer to consider:

- What encryption algorithm you will need
 - How many KVLs you will need
1. How many locations will need to be able to load keys
 2. How many traveling technicians will need to be able to load keys
 3. Backup units
- Do you use Radio Authentication in your system?
 - Do you use ASN Mode?
 - If you are using in an LTE system order ASTRO 25 Mode
 - What cables you will need to keyload your radios
1. A list is provided; however, your specific radio manual will provide the most specific and accurate information on the keyloading cable needed

Ordering Requirements

Ordering KVL 4000 for ASTRO / P25

The following are

REQUIRED

to order KVL 4000 for ASTRO / P25, select the KVL 4000 (**T7537B**),
ASTRO 25 Mode Software (**U239AD**),
AES Encryption
(**CA00182AP**),
and applicable line cord.

REQUIRED KVL 4000 PARTS AND OPTIONS

Part Number	Description
T7537B	KVL 4000 (called KVL PDA Snap-On)
U239AD	ASTRO 25 Mode
CA00182AP	AES Encryption Software

The following options are

OPTIONAL

when ordering a KVL 4000:

ADDITIONAL OPERATION MODES

Part Number	Description
QA01767AA	Radio Authentication Mode Compatible with, and requires, ASTRO 25 Mode (U239AD)
X795AJ	ASN (Advanced Securenet) Mode Required for PID (Physical Identifier) Key Management

ADDITIONAL ALGORITHM OPTIONS

Part Number	Description
C793BM	DVI-XL ENCRYPTION SOFTWARE
CA00243AG	ADP PRIVACY
X423AF	DES/DES-XL/DES-OFB ENCRYPTION
X769AD	DVP-XL ENCRYPTION SOFTWARE

AC LINE CORDS (Picking one is required at time of order of KVL 4000)

Part Number	Description
DDN3094	PWR SUPPLY ADAPTOR PWR BRICK AC DC 3A UNDERGROUND 5.4V 16W (REQUIRED)
DDN3095	CABLE ASSEMBLY PWR 5.4VDC 3A PWR (REQUIRED)
XXX	ADD APPROPRIATE COUNTRY LINE CORD - SCROLL DOWN FOR PART NUMBERS
Part Number	Description
C542	ADD: CABLE FOR KVL TO KMC (KEYLOADING) Cable for CIU, SYNTOR, SYNTOR X, KMC.
C543	ADD: CABLE FOR RNC, DIU, MGEG Keyloading cable for KMF, MCC 7500, MGEG, CDEM, RNC, DIU 3000, and XTL 5000 Consolette.

C724	CABLE, KEYLOAD Keyloading cable for XTS 5000, XTS 2500, and XTS 3000. Not for XTS 4000
C725AA	ADD: KEYLOAD CABLE FOR APX PORTABLE Keyloading cable for APX 7000 and APX6000
CA01603AA	Communication (USB)/ Charging cable with cup for MC55 PDA
CA02186	ADD: KEYLOAD CABLE FOR CRYPTR MICRO
CA02187	ADD: KEYLOADING CABLE ADAPTER (GCAI)

To add a sleeve cover when ordering a KVL 4000 order:

Part Number	Description
CA01803	KVL 4000 SLEEVE COVER

Order KVL 4000 for LTE

The following are

REQUIRED

to order KVL 4000 for LTE systems, select the KVL 4000 **(T7537B)**,

ASTRO 25 Mode Software **(U239AD)**,

AES Encryption

(CA00182AP),

and applicable line cord.

REQUIRED KVL 4000 PARTS AND OPTIONS

Part Number	Description
T7537B	KVL 4000 (called KVL PDA Snap-On)
U239AD	ASTRO 25 Mode
CA00182AP	AES Encryption Software

The following options are

OPTIONAL

when ordering a KVL 4000:

Part Number	Description
QA01767AA	Radio Authentication Mode Compatible with, and requires, ASTRO 25 Mode (U239AD)

X795AJ	ASN (Advanced Securenet) Mode Required for PID (Physical Identifier) Key Management
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ADDITIONAL ALGORITHM OPTIONS

Part Number	Description
C793BM	DVI-XL ENCRYPTION SOFTWARE
CA00243AG	ADP PRIVACY
X423AF	DES/DES-XL/DES-OFB ENCRYPTION
X769AD	DVP-XL ENCRYPTION SOFTWARE

Part Number	Description
C542	ADD: CABLE FOR KVL TO KMC (KEYLOADING) Cable for CIU, SYNTOR, SYNTOR X, KMC.
C543	ADD: CABLE FOR RNC, DIU, MGEG Keyloading cable for KMF, MCC 7500, MGEG, CDEM, RNC, DIU 3000, and XTL 5000 Consolette.
C724	CABLE, KEYLOAD Keyloading cable for XTS 5000, XTS 2500, and XTS 3000. Not for XTS 4000
C725AA	ADD: KEYLOAD CABLE FOR APX PORTABLE Keyloading cable for APX 7000 and APX6000
CA01603AA	ADD: USB COMM/CHARGE CABLE W/ CUP Communication (USB)/ Charging cable with cup for MC55 PDA
CA02186	ADD: KEYLOAD CABLE FOR CRYPTR MICRO
CA02187	ADD: KEYLOADING CABLE ADAPTER (GCAI)

To add a sleeve cover when ordering a KVL 4000 order:

Part Number	Description
CA01803	KVL 4000 SLEEVE COVER

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export license prior to shipment. Review the following link <http://exportcontrols.mot.com/> for any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, & DES-OFB) are highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Review the above link, for a list of contacts, for the Global Trade Compliance Organization, for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
KVL 4000 PDA SNAP-ON	-	T7537B	201	\$4,900.00
RUGGED USB CLIENT TO ETHERNET ADAPTER WITH USB CABLE BUILT IN.	-	DSPSA1U1EE	708	\$226.00
KVL 4000 OS HARDENING SW	-	T7672	201	\$100.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASN MODE	This option provides the ASN mode of operation and basic operating system software. This option is compatible with ASTRO 25 mode. This option is required for PID key management.	X795AJ	201	\$600.00
ADD: KVL RADIO AUTHENTICATION	Requires U239AD- ASTRO 25 Mode.	QA01767AA	201	\$500.00
ADD: ASTRO 25 MODE	ASTRO 25 Mode is required for P25 compliant systems. This option is required to perform CKR key management and is required for Conventional ASTRO 25 OTAR operation and	U239AD	201	\$250.00

	the MGEG. NOTE: ASTRO 25 Mode includes KMF feature.			
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Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: DVI-XL ENCRYPTION SOFTWARE	Requires an Export Licence see Export Control Requirements section above.	C793BM	201	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	X423AF	201	\$1,550.00
ADD: ADP PRIVACY	ADP Privacy is not compatible with option X795, if U239 option is not ordered. Not compatible with KMF. ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	CA00243AG	201	\$300.00
ADD: DVP-XL ENCRYPTION SOFTWARE	-	X769AD	201	\$750.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AP	201	\$750.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
ADD: KEYLOAD CABLE FOR CRYPTR MICRO	-	CA02186	201	\$190.00
CABLE, KEYLOAD	Keyloading cable for XTS 5000, XTS 2500, and XTS 3000. Not for XTS 4000.	C724	201	\$75.00
ADD: CABLE FOR RNC, DIU, MGEG	Keyloading cable for KMF, MCC 7500, MGEG, CDEM, RNC, DIU 3000, and XTL 5000 Consolette.	C543	620	\$84.00

ADD: CABLE FOR KVL TO KMC (KEYLOADING)	Cable for CIU, SYNTOR, SYNTOR X, KMC.	C542	201	\$84.00
ADD: USB COMM/CHARGE CABLE W/ CUP	Communication (USB)/ Charging cable with cup for MC55 PDA.	CA01603AA	201	\$115.00
ADD: KEYLOADING CABLE ADAPTER (GCAI)	-	CA02187	201	\$41.50
ADD: KEYLOAD CABLE FOR APX PORTABLE	Keyloading cable for APX 7000 and APX6000.	C725AA	201	\$75.00

Power Supply Cable(s)

REQUIRED: DDN3094, DDN3095 plus the country's line cord

Description	Full Description	Nomenclature	APC	Price
LINE CORD 18 AWG 250V 1.8M AC EUROPE	Europe Line Cord	DDN3121	201	\$25.00
PWR SUPPLY ADAPTOR PWR BRICK AC DC 3A UNDERGROUNDED 5.4V 16W	-	DDN3094	201	\$61.00
CABLE ASSEMBLY PWR 5.4VDC 3A PWR	(REQUIRED) CABLE ASSEMBLY PWR 5.4VDC 3A PWR	DDN3095	201	\$14.00
CORD PWR 18AWG 10A 250V UL PWR	UK CORD PWR 18AWG 10A 250V UL PWR	DDN3096	201	\$25.00
AC PWR CORD FOR US/ROHS PWR	AC PWR CORD FOR US/ROHS PWR	DDN3097	201	\$25.00
3FT US AC LINE CORD/3 WIRE FOR PWR PWRS	3FT US AC LINE CORD/3 WIRE FOR PWR PWRS	DDN3098	201	\$17.00
PWR CORD 18AWG 10A 250V PWR AUSTRALIA	PWR CORD 18AWG 10A 250V PWR AUSTRALIA	DDN3099	201	\$17.00

CORD PWR CHINA PWR	CORD PWR CHINA PWR	DDN3100	201	\$17.00
CORD AC PWR 18AWG 3 PLUG BLK PWR 10A BRAZIL	CORD AC PWR 18AWG 3 PLUG BLK PWR 10A BRAZIL	DDN3101	201	\$25.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
ADD: KVL 4000 SLEEVE COVER	-	CA01803	201	\$75.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE KEYLOAD MX	Cable for transferring keys between two KVL units.	TKN8209	201	\$75.00
CABLE FOR RNC, DIU MGE G	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered seperately: - HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. - TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
KVL 3000 DB-9/MODEM CABLE	DB9 -DB25 Cable for KMF Store and Forward via RS232 modem, Cable Part No. 3082013X02.	CKN6324	272	\$75.00
	Keyloading cable for			

KVL CABLE FOR XTS3000 AND MTS2000	XTS 2500, XTS 3000, XTS 5000. Not for XTS 4000.	TDN9390	644	\$100.00
KEYLOAD CABLE FOR APX7000	Keyloading cable for APX 7000 and APX6000.	WPLN6904A	795	\$110.00
U.S. ROBOTICS USB FAX MODEM - REQD FOR KVL-KMF REMOTE COMMUNICATION	USB MODEM REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY	DSUSR5637MODEM	708	\$250.00

Case

Description	Full Description	Nomenclature	APC	Price
WEATHER CASE FOR KVL	-	NNTN8120A	201	\$339.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
KVL 4000 SLEEVE COVER	-	37009265001	201	\$75.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	37009265001	KVL 4000 SLEEVE COVER	201	15
SYSPERIPH	SCB	CKN6324	KVL 3000 DB-9/MODEM CABLE	272	15
QUOTEDS	ING	DDN3094	PWR SUPPLY ADAPTOR PWR BRICK AC DC 3A	201	30

			UNDERGROUNDED 5.4V 16W		
QUOTEDS	ING	DDN3095	CABLE ASSEMBLY PWR 5.4VDC 3A PWR	201	30
QUOTEDS	ING	DDN3096	CORD PWR 18AWG 10A 250V UL PWR	201	30
QUOTEDS	ING	DDN3097	AC PWR CORD FOR US/ROHS PWR	201	30
QUOTEDS	ING	DDN3098	3FT US AC LINE CORD/3 WIRE FOR PWR PWRS	201	30
QUOTEDS	ING	DDN3099	PWR CORD 18AWG 10A 250V PWR AUSTRALIA	201	30
QUOTEDS	ING	DDN3100	CORD PWR CHINA PWR	201	30
QUOTEDS	ING	DDN3101	CORD AC PWR 18AWG 3 PLUG BLK PWR 10A BRAZIL	201	30
QUOTEDS	ING	DDN3121	LINE CORD 18 AWG 250V 1.8M AC EUROPE	201	30
QUOTEDS	SHK	DSPSA1U1EE	RUGGED USB CLIENT TO ETHERNET ADAPTER WITH USB CABLE BUILT IN.	708	14
QUOTEDS	PCW	DSUSR5637MODEM	U.S. ROBOTICS USB FAX MODEM - REQD FOR KVL-KMF REMOTE COMMUNICATION	708	10
FIXEDSTN	CDP	NNTN8120A	WEATHER CASE FOR KVL	201	2
PORTABLES	SCB	T7537B	KVL 4000 PDA SNAP-ON	201	51
PORTABLES	SCB	T7672	KVL 4000 OS HARDENING SW	201	16
PORTABLES	CDP	TDN9390	KVL CABLE FOR XTS3000 AND MTS2000	644	7
PORTABLES	CDP	TDN9390	KVL CABLE FOR XTS3000 AND MTS2000	644	7

PORTABLES	CDP	TDN9390	KVL CABLE FOR XTS3000 AND MTS2000	644	7
PARTS	SCB	TKN8209	CABLE KEYLOAD MX	201	45
PARTS	SCB	TKN8209	CABLE KEYLOAD MX	201	45
PARTS	SCB	TKN8209	CABLE KEYLOAD MX	201	45
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
PARTS	SCB	TRN7414	CBL ADAPTER SPECTRA/SPECTRO	201	63
PORTABLES	CDP	WPLN6904A	KEYLOAD CABLE FOR APX7000	795	12
PORTABLES	CDP	WPLN6904A	KEYLOAD CABLE FOR APX7000	795	12

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

KVL

Key Variable Loader

FLASHport® Aftermarket Upgrades

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade the existing System Software Package or to add Enhancement Options to existing KVL (Key Variable Loaders.) The FLASHport® Upgrade Kit contains:

- Relevant software on a CD-Rom
- Upgrade Instructions

The KVL Software Upgrade DOES require the use of a personal computer and programming cable. The software is delivered via the CD-Rom.

Ordering Requirements

1. **Each Upgrade Kit (T7586) consists of a CD-Rom that can upgrade one individual KVL.**
2. **Tech Edit will request for KVL Serial Number and Current Operation Mode Programmed in KVL - ASN Mode or ASTRO 25 Mode. Please have this information ready when ordering KVL Flashport.**
3. **REQUIRED to select REFRESH option of existing operation mode when upgrading KVL - CA01635AA, CA01636AA, CA02010AA.**
4. **REQUIRED to use USB communication charging cable for any operation mode upgrades or refresh - 25-108022-04R.**
5. **Modem (DSUSR5637MODEM) is required with ASTRO 25 Mode when using KVL-KMF communication remotely.**
6. **USB/ethernet adapter (DPSA1U1EE) is REQUIRED for -**
 - **ASTRO 25 MODE when using KVL-KMF communication remotely via IP connectivity**
 - **USB/ethernet adapter (DPSA1U1EE) is REQUIRED for Radio Authentication.**

REMINDER: When selecting an upgrade (e.g. CA01633AA or CA01798AA) you must also select Software Refresh options for any existing modes on your KVL4000 (e.g. CA01635AA, CA01636AA, CA02010AA)

REMINDER: You will be required to enter the Serial Number of the KVL you will be upgrading. KVL serial numbers begin with 201. Failure to enter the correct KVL serial number may result in a non-functional Upgrade CD.

REMINDER: The algorithm, DES, is only available on APX 6000 and above.

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Configuration

Models

Description	Full Description	Nomenclature	APC	Price
KVL 4000 FLASHPORT UPGRADE	-	T7586	462	\$100.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 MODE	Please select ASTRO 25 Mode if you would like to enable this feature and already have ASN Mode enabled. Incompatible with CA01635AA.	CA01633AA	462	\$250.00
ADD: ASN MODE	Please select ASN Mode if you would like to enable this feature and already have ASTRO 25 Mode enabled. Incompatible with CA01636AA	CA01798AA	462	\$500.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price

ADD: KVL RADIO AUTHEN FLASHPORT	Please select Radio Authentication Mode if you would like to enable this feature. ASTRO 25 Mode is required. Incompatible with CA02010AA	QA01767AP	462	\$500.00
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Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: SW UPGRADE TO CURRENT ASTRO 25	This refresh is REQUIRED if you already have ASTRO 25 Mode enabled in KVL. Not compatible with CA01633AA	CA01635AA	462	\$50.00
ENH: KVL RADIO AUTHENTICATION UPGRADE	This refresh is REQUIRED if you already have Radio Authentication Mode enabled in KVL. Not compatible with QA01767AP	CA02010AA	201	\$50.00
ENH: SW UPGRADE TO CURRENT ASN MODE	This refresh is REQUIRED if you already have ASN Mode enabled in KVL. Not compatible with CA01798AA	CA01636AA	462	\$50.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION	-	CA01632AA	462	\$750.00
ADD: DVI-XL ENCRYPTION	-	CA01640AA	462	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	CA01638AA	462	\$1,550.00
ADD: ADP PRIVACY	-	CA01641AA	462	\$300.00
ADD: AES ENCRYPTION	-	CA01639AA	462	\$750.00

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Description	Full Description	Nomenclature	APC	Price
ADD: LOCALIZED ENABLED ENCRYPTION (BR)	-	CA02611	462	\$750.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T7586	KVL 4000 FLASHPORT UPGRADE	462	11

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MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

KVL 5000
Key Variable Loader
FLASHport® Aftermarket Upgrades

Ordering Information

General Information

FLASHport® Aftermarket Software is used to upgrade the existing System Software Package or to add Enhancement Options to existing KVL (Key Variable Loaders.) The FLASHport® Upgrade Kit contains:

- Relevant software on a CD-Rom
- Upgrade Instructions

The KVL Software Upgrade DOES require the use of a personal computer and programming cable. The software is delivered via the CD-Rom.

Ordering Requirements

1. **Each Upgrade Kit consists of a CD-Rom that can upgrade one individual KVL.**
2. **Tech Edit will request for KVL Serial Number and Current Operation Mode Programmed in KVL. Please have this information ready when ordering KVL Flashport.**
3. **REQUIRED to select REFRESH option of ASTRO Mode - CA03455AB.**
4. **REQUIRED to use USB communication charging cable for any operation mode upgrades or refresh - 25-108022-04R.**
5. **Modem (DSUSR5637MODEM) is required with ASTRO 25 Mode when using KVL-KMF communication remotely.**
6. **USB/ethernet adapter (DPSA1U1EE) is REQUIRED for -**
 - **ASTRO 25 MODE when using KVL-KMF communication remotely via IP connectivity**
 - **USB/ethernet adapter (DPSA1U1EE) is REQUIRED for Radio Authentication.**

REMINDER: You will be required to enter the Serial Number of the KVL you will be upgrading. KVL serial numbers begin with 201. Failure to enter the correct KVL serial number may result in a non-functional Upgrade CD.

REMINDER: The algorithm, DES, is only available on APX 6000 and above.

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Configuration

Models

Description	Full Description	Nomenclature	APC	Price
KVL 5000 UPGRADE	KVL 5000 FLASHPORT UPGRADE	T8500	201	\$100.00

Options

ASTRO Mode

Description	Full Description	Nomenclature	APC	Price
ADD:UPGRADE SW TO LATEST VERSION FOR ASTRO P25 MODE	Upgrade SW to Latest Version for ASTRO P25 Mode NOTE: THIS IS REQUIRED	CA03455AA	201	\$50.00

ALGOS

ALGOS

Description	Full Description	Nomenclature	APC	Price
ADD: ADP ENCRYPTION	ADD: ADP ENCRYPTION	CA01641AB	462	\$300.00
ADD: DVP-XL ENCRYPTION	ADD: DVP-XL ENCRYPTION	CA01632AB	462	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	ADD: DES/DES-XL/DES-OFB ENCRYPTION	CA01638AB	462	\$1,550.00

ADD: DVI-XL ENCRYPTION	ADD: DVI-XL ENCRYPTION	CA01640AB	462	\$750.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T7586	KVL 4000 FLASHPORT UPGRADE	462	11
FIXEDSTN	SCB	T8500	KVL 5000 UPGRADE	201	14

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[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model



DIMETRA KVL4000 & KVL4000 upgrade

Key Variable Loader

Updates

NOTE: All prices shown are LIST PRICE before any discount

The TETRA Product portfolio is only available to Accredited Channel Partners and a specific discount structure applies to this portfolio. Accredited Channel Partners should be advised of the applicable discount structure via their Motorola account manager

Ordering Information

General Information

IMPORTANT NOTE FOR ALL ENCRYPTED ITEMS

The export of TETRA encryption algorithms used for Air Interface encryption (TEA1, TEA2 and TEA3) and TETRA End-to-End (AES) encryption are export restricted by the United States Federal Government, the European Union and the German Federal Government, as well as by the governments of many other nations. Depending on the country of destination, there may be applicable national import restrictions. Export License approvals are based on the country of final destination and the specific end user. Certain countries and certain end users will not be eligible for approval. Contact your Local Export Control office if you are unfamiliar with the licensing process before exporting or importing encryption products.

Key Variable Loaders are used for three different applications in Dimetra.

1. Authentication key loading
2. Air Interface Encryption key loading
3. End to End Encryption key loading

The Authentication key loading application is used to load an infrastructure key (Ki) to the Zone Controllers, TETRA Site Controllers, and Base Radio controllers. Ki is derived from the AuC (Authentication Centre) and loaded into the KVL, the KVL is also used to return a receipt to the AuC. When the KVL attaches to the AuC it is able to check the identity of that AuC, with the identity that it is expecting, and if they do not match the KVL will abort the session.

The Air Interface Encryption key loading application is used to transfer Static Cipher Key material, SCK/SCKN and SCKVN and also the Authentication Key (K) from the PrC (Provisioning Centre) to the subscriber Terminals.

Configuration

Models

STEP 1: KVL4000 AIE/E2EE (AES) or Authentication only

Description	Full Description	Nomenclature	APC	Price
DIMETRA KVL 4000 HARDWARE	-	T7863	201	\$4,900.00

Options

STEP 2: Select the KVL4000 application required

KVL hardware can only support one encryption software - either Air Interface or End To End.

For Air Interface Encryption (AIE) with Authentication KVL. Select option in step 3a

For Authentication KVL, select option in step 3b

For E2EE KVL, select option in step 3c

STEP 3a: Add Tetra Mode if you chose Air Interface Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: AIE W/ AUTH DVI-XL DIM MODE				

SW	-	ZA00964	201	\$2,188.00
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STEP 3b: Add Tetra Mode if you chose Authentication only

Description	Full Description	Nomenclature	APC	Price
ADD: AUTH ONLY DVI-XL DIM MODE SW	-	ZA00965	201	\$1,870.00

STEP 3c: Add Tetra Mode if you chose End to End only

Description	Full Description	Nomenclature	APC	Price
ADD: AES256 E2EE	-	ZA01039AA	532	\$2,950.00
ADD: AES128 E2EE	-	ZA01038AA	532	\$2,750.00

STEP 4: Add AC Line Cords

(REQUIRED: DDN3094 and DDN3095) + Country Cable

(Must select one of the below appropriate country cables)

Description	Full Description	Nomenclature	APC	Price
PWR SUPPLY ADAPTOR PWR BRICK AC DC 3A UNDERGROUNDED 5.4V 16W	REQUIRED - PWR SUPPLY ADAPTOR PWR BRICK AC DC 3A UNDERGROUNDED 5.4V 16W	DDN3094	201	\$61.00
CABLE ASSEMBLY PWR 5.4VDC 3A PWR	REQUIRED - CABLE ASSEMBLY PWR 5.4VDC 3A PWR	DDN3095	201	\$14.00
CORD PWR 18AWG 10A 250V UL PWR	UK CORD PWR 18AWG 10A 250V UL PWR	DDN3096	201	\$25.00
AC PWR CORD FOR US/ROHS PWR	US AC PWR CORD FOR US?ROHS PWR	DDN3097	201	\$25.00
3FT US AC LINE CORD/3 WIRE FOR PWR PWRS	US 3FT US AC LINE CORD/3 WIRE FOR PWR PWRS	DDN3098	201	\$17.00

PWR CORD 18AWG 10A 250V PWR AUSTRALIA	AUS PWR CORD 18AWG 10A 250V PWR AUSTRALIA	DDN3099	201	\$17.00
CORD PWR CHINA PWR	CHINA CORD PWR CHINA PWR	DDN3100	201	\$17.00
CORD AC PWR 18AWG 3 PLUG BLK PWR 10A BRAZIL	BRAZIL CORD AC PWR 18AWG 3 PLUS BLK OWR 10A BRAZIL	DDN3101	201	\$25.00
LINE CORD 18 AWG 250V 1.8M AC EUROPE	EUROPE PWR CORD	DDN3121	201	\$25.00

STEP 5: Do you want a communication/charging cable? (Optional)

Adds cable 25-108022-02R. Model T7863A already comes with a battery charger, this cable (to which the battery charger may be connected) is to connect the MC55A0 PDA to a PC for the purpose of loading software including OS Hardening and Flashport upgrades.

Description	Full Description	Nomenclature	APC	Price
ADD: USB COMM/CHARGE CABLE W/ CUP	Communication (USB)/ Charging cable with cup for MC55 PDA.	CA01603AA	201	\$115.00

STEP 6: Do you want a sleeve cover? (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KVL 4000 SLEEVE COVER	-	CA01803	201	\$75.00

STEP 7: Do you want OS Hardening software? (Optional)

If yes, you will need the communication/charging cable 25-108022-02R orderable in step 5 or separately.

Description	Full Description	Nomenclature	APC	Price
KVL 4000 OS HARDENING SW	-	T7672	201	\$100.00

Accessories

CHARGERS AND BATTERIES

Appropriate for both AIE and E2E equipped KVL4000

Description	Full Description	Nomenclature	APC	Price
CORD:AC PWR,18AWG,250V,10A,1.8M,CHINA*	AC Line Cord, 1.8M ungrounded, two-wire, GB 2099-1-1996 plug. Associated Country: China.	50-16000- 664R	177	\$15.00
50-16000-255R	AC Line Cord, 1.8M ungrounded, two-wire, CEE7/16. Europe, Abu Dhabi, Bolivia, Dubai, Egypt, Iran, Korea, Russia, Vietnam.	50-16000- 255R	177	\$8.00
CORD:AC PWR,18AWG,250V,3A,1.8M,AUSTRALA*	AC Line Cord, 1.8M ungrounded, two-wire. Associated Country: Australia.	50-16000- 666R	177	\$14.00
50-16000-182R	Line Cord, un- grounded, two- wire US, Taiwan, Thailand, Mexico, Columbia.	50-16000- 182R	177	\$5.00
PWRSPLY:100-240VAC, 5.4VDC,3A MODIFIED DC POWER JACK OVERMOLD FOR KVL	-	PWRS-14000- 249S	362	\$100.00
BTRY:SPARE.MC55XX, 2400MAH,1X	-	BTRY- MC55EAB00	201	\$55.00

CABLES (AIE Data Cables & Misc)

Description	Full Description	Nomenclature	APC	Price
BOTTOM CONNECTOR SERIAL DATA CABLE	Serial Data cable for MTP3000/6000 series terminals.	PMKN4127A	261	\$40.00
ACTIVE DATA CABLE	Data cable for MTM5400	PMKN4104A	362	\$103.00
TETRA ATEX SERIAL CABLE	Data Cable with RS232 9 way connector. Used for standard Data applications and Keyfill of AIE Keys with KVL for MTP850EX/MTP810EX	PMLN5237	890	\$75.00
ACTIVE DATA CABLE	Data Cable DB9F to 20 Pin Accessory for use with MTM700/MTM800/MTM800 Enhanced and CM5000 (programming). Refer to user guide (6866537D35)for limitations.	GMKN1022	261	\$90.00
PROGRAMMING CABLE	Basestation Programming Cable	3080369E32	443	\$56.25
RS232 DATA CABLE	Programming & Data Cable for MTP700/MTP750	PMLN4504	261	\$94.00
NULL MODEM CABLE DB9, M-FEMALE 1.8M	Connects KVL to AuC / PrC	GMLN5353A	532	\$147.00
STANDARD MALE ADAPTER 9WAY TO 9 WAY	Gender Change Adapter is required for use with Subscriber Data Cables to enable connection to KVL for Download of AIE Keys.	5883856X01	454	\$65.50

E2E CABLE

Description	Full Description	Nomenclature	APC	Price
KVL CABLE FOR MOBILE	Keyfill Cable for E2E Keys for use with MTM5400	PMKN4108A	938	\$218.00

E2EE KVL CABLE FOR MTP6000	MTP3000/6000 Series E2EE KVL Cable	PMKN4124A	125	\$200.00
CABLE, KEYLOAD	MTP850/MTP850S/MTH800/ E2EE KVL Cable	0182297T14	201	\$134.00
E2EE KVL CABLE EX	MTP8500Ex/MTP8550Ex E2EE KVL Cable	PMKN4161A	122	\$289.00

MODEM

Description	Full Description	Nomenclature	APC	Price
USB MODEM BY MULTITECH - REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY	-	DSMT9234MUCDCXR	708	\$250.00

CARRY SOLUTIONS

Description	Full Description	Nomenclature	APC	Price
WEATHER CASE FOR KVL	-	NNTN8120A	201	\$339.00

KVL4000 Upgrade

STEP 1:

Description	Full Description	Nomenclature	APC	Price
DIMETRA KVL 4000 FLASHPORT UPGRADE	-	T7866	532	\$300.00

STEP 2a: Select KVL4000 upgrade software

Description	Full Description	Nomenclature	APC	Price
ADD: UPGR DIM AUTH ONLY DVI-XL	Upgrades Dimetra Authentication Only KVL4000 to latest release - Export Licence not required.	ZA00967AA	532	\$8.00
	Upgrades Dimetra Air Interface			

ADD: UPGR DIM AIE W/AUTH DVI-XL	Encryption with Authentication KVL4000 to latest release - Requires an Export Licence see Export Control Requirements section above.	ZA00968AA	532	\$8.00
ADD: UPGR 128 AES E2EE	From old AES128 (R03.02.05) to the latest AES128 (R03.02.06)	ZA01040AA	532	\$100.00
ADD: UPGR 256 AES E2EE	From old AES256 (R03.02.05) to the latest AES256 (R03.02.06)	ZA01041AA	532	\$100.00

STEP 2b: Select KVL4000 convert software

Description	Full Description	Nomenclature	APC	Price
ADD: UPGR AUTH ONLY TO AIE W/AUTH	Converts Dimetra Authentication Only KVL4000 to latest release of Dimetra Air Interface Encryption with Authentication KVL4000 - Requires an Export Licence see Export Control Requirements section above.	ZA00969AA	532	\$14.00
ADD: UPGR AES128 TO AES256	From E2EE AES128 (R03.02.05 / R03.02.06) to E2EE AES256 (R03.02.06)	ZA01042AB	532	\$200.00

JUMP TO ...

[ORDERING GUIDE](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Ordering Guide

For Ordering Guide; please go to Link: [KVL 5000 Ordering Guide](#)

The KVL 5000 allows programmers to generate, transport, and load encryption keys, securely and efficiently into secure communication products thereby enabling secure encrypted communications. Offering the only P25 keyloader with a Hardware Backed Keystore. Packaged in an easy to use one-handed design with an intuitive UI, the KVL 5000 integrates with Motorola's Key Management Facility (KMF) by provisioning radios to use Over The Air Rekeying (OTAR).

Please note the KVL 5000 does not yet have parity with the KVL 4000; parity is targeted for Q3 2020. If you need to use USB Key Fill, USB Key File Export, Tactical OTAR or Control Head Keyloading - then you will need to order a KVL 4000. All of these features will be released in the KVL 5000 - if you order a KVL 5000 now, in order to get the additional features you will need to upgrade your software to get the remaining feature set. If you order the KVL 5000 after all of these features have been released, then your KVL 5000 will automatically have these features.

*ENCRYPTION--All encryption products, kits, software, and technology require an approved export license prior to shipment. Review the following link <http://exportcontrols.mot.com/> for any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, & DES-OFB) are highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Review the above link, for a list of contacts, for the Global Trade Compliance Organization, for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

KVL 5000 Value

As one of the top providers in the secure communications industry, Motorola prides itself on producing reliable and quality products. Designed to meet the requirements of two-way radio programmers, the purpose-built KVL 5000 delivers a quick start and snappy response for easy and efficient key loading - without interrupting the rest of their workflow. The only keyloader that can protect keys with hardware protected keystore, the KVL 5000 provides users with the highest level of secure programming and information protection.

KVL 5000 Value

- Purpose built device

- One Piece Design
- Rugged (IP54, MIL-STD)
- Quick Startup
- Feature Parity with the KVL 4000 including:
 - Built on FIPS 140-2 Level 2 validated architecture
 - Hardware protected keystore
 - Auto Keyload
 - Ability to keyload while KVL is charging, no minimum charge required
 - Multiple keyload
 - Key generation
 - KMF support (UKEK provisioning, Store & forward)
- Enhancements
 - Increased Responsiveness
 - Increased Efficiency
 - Power Management
 - User Friendly Interface
 - Key sharing (KVL 4000 to KVL 5000, KVL 3000+ to KVL 5000)

When is the KVL 5000 Needed?

The KVL 5000 is needed when:

- Customer is going to use encryption on their radio channels
- Customer has a KMF
- Customer wants to use OTAR
- Customer is using Radio Authentication
- Customer needs to load encryption algorithms, aftermarket, on to their radios

When is the KVL 5000 Needed?

Things for the Customer to Consider:

Things for the customer to consider:

- How many KVLs will you need?
 - How many locations will need to be able to load keys
 - How many traveling technicians will need to be able to load keys
 - How many backup units are needed?
- What cables will you need to key load your radio?

REQUIRED PARTS AND OPTIONS FOR ASTRO P25 KVL 5000

Part Number	Description
T8476B	KVL 5000 Includes Hardening and Radio Authentication
CA00182AW	AES Algorithm
CA03358AA	ASTRO P25 Software
DQUUSBOTG	Startech 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER NOTE: USB Keyboards must be "HID keyboards" in order to work with KVL 5000
Part Number	Description
CA03360AA	ADD:EURO MICRO USB CHARGER 100/240V
CA03361AA	ADD:BRAZIL MICRO USB CHARGER 100/240V
CA03362AA	ADD:ARGENTINA MICRO USB CHARGER 100/240V
CA03363AB	ADD:UK/HKG MICRO USB CHARGER 100/240V
CA03364AA	ADD:AUS/NZ MICRO USB CHARGER 100/240V
CA03467AA	ADD: NORTH AMERICA MICRO USB CHARGER 100/240V
CA03468AA	ADD: CHINA MICRO USB CHARGER 100/240V
CA03469AA	ADD: KOREA MICRO USB CHARGER 100/240V

OPTIONAL ADDITIONS

Optional Algorithms

Part Number	Description
X423AF	DES/DES-XL/DES-OFB ENCRYPTION
CA00243AG	ADP PRIVACY
C793BM	DVI-XL ENCRYPTION SOFTWARE
X769AD	DVP-XL ENCRYPTION SOFTWARE

Optional Accessories

Part Number	Description
PMNN4549A	SPARE BATTERY
PMPN4381A	CHGR DESKTOP MULTI UNIT BATT INT PS UK
PS000339A02	EURO MICRO USB CHARGER 100/240V
PS000339A08	BRAZIL MICRO USB CHARGER 100/240V
PS000339A05	ARGENTINA MICRO USB CHARGER 100/240V
PS000339A03	UK/HKG MICRO USB CHARGER 100/240V
PS000339A04	AUS/NZ MICRO USB CHARGER 100/240V
PS000339A01	ADD: NORTH AMERICA MICRO USB CHARGER 100/240V
PS000339A06	ADD: CHINA MICRO USB CHARGER 100/240V
PS000339A07	ADD: KOREA MICRO USB CHARGER 100/240V
DSUSR5637MODEM	USB MODEM REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY
PMPN4119A	(SINGLE BATTERY CHARGER) VEHICLE ADAPTER EXT USB CHGR 5VDC
	STARTECH 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB

DQUUSBOTG	ADAPTER
DQPSA1UB1EE	PORTSMITH USB TO ETHERNET RUGGED ENCAPSULATED FOR ANDROID NOTE: KVL5000onlysupports Portsmouth PSA1uB1E-E USB to Ethernet adapter

Optional Cables

Part Number	Description
HKN6182B	RS232 Mobile cable for RA APX 6500/7500/8500 Adapter for GCAI
WPLN6904A	RS232 Portable cable for RA, Tactical OTAR APX 3000/4000/6000/7000/8000
TKN1039	CryptR Micro
TKN8531	KMF, KMF CryptR, MCC 7500 Dispatch Console, CDEM, MDEG, PDEG
PMKN4013C	USB CPS Programming

Configuration

KVL 5000 Parts List

See Ordering Guide Link for more details

Description	Full Description	Nomenclature	APC	Price
KVL 5000	KVL 5000 (REQUIRED)	T8476B	201	\$6,000.00
ADD: AES ENCRYPTION SOFTWARE	AES Algorithm (REQUIRED)	CA00182AW	201	\$0.00
ADD: ASTRO 25 MODE	ASTRO P25 Software (REQUIRED)	CA03358AA	201	\$0.00
STARTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQUUSBOTG	207	\$13.00

ADD: NORTH AMERICA MICRO USB CHARGER 100/240V	-	CA03467AA	201	\$0.00
ADD: EURO MICRO USB CHARGER 100/240V	-	CA03360AA	201	\$0.00
ADD: BRAZIL MICRO USB CHARGER 100/240V	-	CA03361AA	201	\$0.00
ADD: ARGENTINA MICRO USB CHARGER 100/240V	-	CA03362AA	201	\$0.00
ADD: UK/HKG MICRO USB CHARGER 100/240V	-	CA03363AB	201	\$0.00
ADD: AUS/NZ MICRO USB CHARGER 100/240V	-	CA03364AA	201	\$0.00
ADD: CHINA MICRO USB CHARGER 100/240V	-	CA03468AA	201	\$0.00
ADD: KOREA MICRO USB CHARGER 100/240V	-	CA03469AA	201	\$0.00
ADD: ADD: DVI-XL ENCRYPTION SOFTWARE	-	C793BM	201	\$750.00
ADD: DVP-XL ENCRYPTION SOFTWARE	-	X769AD	201	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	X423AG	201	\$750.00
PORTABLE PROGRAMMING CABLE	-	PMKN4012B	037	\$77.00
BATT IMPRES 2 LIION 2925T	-	PMNN4549A	453	\$80.00
CABLE,MICRO USB PROGRAMMING CABLE	-	CB000262A01	261	\$10.00
CHARGER,CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	-	PMPN4119A	785	\$30.00
STARTECH.COM 5IN MICRO USB TO				

USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQUUSBOTG	207	\$13.00
PORTSMITH USB TO ETHERNET RUGGED ENCAPSULATED FOR ANDROID	-	DQPSA1UB1EE	207	\$174.00
ADD: ADP PRIVACY	-	CA00243AJ	201	\$300.00
CABLE KEYLOADING ADAPTER CGAI	-	HKN6182B	362	\$163.00

Update History

1/16/2019 - Created Page with Link to Ordering Guide

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
QUOTEDS	SHI	DQPSA1UB1EE	PORTSMITH USB TO ETHERNET RUGGED ENCAPSULATED FOR ANDROID	207	14
QUOTEDS	SHI	DQUUSBOTG	STARTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	207	14

PARTS	CDP	HKN6182B	CABLE KEYLOADING ADAPTER CGAI	362	6
PARTS	CDP	HKN6182B	CABLE KEYLOADING ADAPTER CGAI	362	6
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	PDC	PMKN4012B	PORTABLE PROGRAMMING CABLE	037	4
ACCESSORY	CDP	PMNN4549A	BATT IMPRES 2 LIION 2925T	453	6
FIXEDSTN	CDP	PMPN4119A	CHARGER,CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	785	3
FIXEDSTN	CDP	PMPN4119A	CHARGER,CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	785	3
FIXEDSTN	CDP	PMPN4119A	CHARGER,CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	785	3
FIXEDSTN	FSC	T8476B	KVL 5000	201	10

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

L2/L3 Aggregation Switch/Router (copper)

Ordering Information

Features

- Built for advanced, scalable carrier-grade Ethernet services and large data center applications.
- Wire-speed, non-blocking performance in all configurations.
- 24 port copper switch (4 fiber ports standard, fiber plug-in optional)
- Field-proven Brocade Multi-service IronWare OS provides an industry standard interface, support for robust routing protocols, MPLS VPNs, advanced security and simplified management.
- Comprehensive IPv4 and IPv6 routing, and virtual routing in non-MPLS environments, via Multi-VRF.

For additional information, see Brocade Model Number CES2024C at www.brocade.com

General Information

The L2/L3 Aggregation Switch/Router may be used as a aggregation point for other switches, or as a BTE switch, if Multiprotocol Label Switching (MPLS) is required at the eNB. It supports multiple eNB connections and can be used to provide end-to-end MPLS.

Ordering Requirements

DC Power:

1. There is a minimum quantity 1 required for the L2/L3 Switch (DC Power) - Copper.
2. When the L2/L3 Switch (DC Power) - Copper is ordered, you must also order L3/L3 Redundant DC Power, minimum quantity 1.
3. When the L2/L3 Switch (DC Power) - Copper is ordered, a license option must also be selected. The options are mutually exclusive and you may not order both options. Select either the L3 Premium License or the MPLS Metro Edge Premium License, minimum quantity 1.
4. When the L2/L3 Switch (DC Power) - Copper is ordered, one or more SFP Fiber Plug-ins may be ordered, at a maximum quantity of 4 (this is optional for combination ports). Options are not mutually exclusive. An order can be placed for all three options, and no minimum quantities are required. Note: the L2/L3 Switch (DC Power) - Copper has 24 copper ports

total, and 4 combination copper/fiber ports. If a combination port is used, whether for fiber or copper, a corresponding port will be disabled from the main port. This means that you will always have a total maximum of 24 ports.

5. Product FRUs must be used when ordering standalone items.

6. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

AC Power:

1. There is a minimum quantity 1 required for the L2/L3 Switch (AC Power) - Copper.

2. When the L2/L3 Switch (AC Power) is ordered, you must also order L3/L3 Redundant AC Power Supply, minimum quantity 1.

3. When the L2/L3 Switch (AC Power) is ordered, a license option must also be selected. The options are mutually exclusive and you may not order both options. Select either the L3 Premium License or the MPLS Metro Edge Premium License, minimum quantity 1.

4. When the L2/L3 Switch (AC Power) - Copper is ordered, one or more SFP Fiber Plug-ins may be ordered, at a maximum quantity of 4 (this is optional for combination ports). Options are not mutually exclusive. An order can be placed for all three options, and no minimum quantities are required. Note: the L2/L3 Switch (AC Power) - Copper has 24 copper ports total, and 4 combination copper/fiber ports. If a combination port is used, whether for fiber or copper, a corresponding port will be disabled from the main port. This means that you will always have a total maximum of 24 ports.

5. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

Configuration

Models

Options

REDUNDANT POWER:

LICENSES:

OR

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price

SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	055	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	055	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	055	\$470.00

Accessories

COPPER SWITCH FRUs (DC power):

COPPER SWITCH FRUs (AC power):

SWITCH LICENSES:

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	EXL	DDN1344A	MINI GBIC 1000BASESX WITH 1 LC MM PORT	454	20
QUOTEDS	EXL	DDN1345A	10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	454	20

QUOTEDS	BRO	DDN1346A	SFP (FIBER PLUG-IN)- UP TO 70 KM	454	20
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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

L2/L3 Aggregation Switch/Router (fiber)

Ordering Information

Features

- Built for advanced, scalable carrier-grade Ethernet services and large data center applications.
- Wire-speed, non-blocking performance in all configurations.
- Available in 24-port configuration in Hybrid Fiber (HF).
- Field-proven Brocade Multi-service IronWare OS provides an industry standard interface, support for robust routing protocols, MPLS VPNs, advanced security and simplified management.
- Comprehensive IPv4 and IPv6 routing, and virtual routing in non-MPLS environments, via Multi-VRF.

For additional information, see Brocade Model Number CES2024F at www.brocade.com

General Information

The L2/L3 Aggregation Switch/Router may be used as a aggregation point for other switches, or as a BTE switch, if Multiprotocol Label Switching (MPLS) is required at the eNB. It supports multiple eNB connections and can be used to provide end-to-end MPLS.

Ordering Requirements

DC Power:

1. There is a minimum quantity 1 required for the L2/L3 Aggregation Switch (DC Power) - Fiber.
2. When the L2/L3 Aggregation Switch (DC Power) is ordered, you must also order L2/L3 Redundant DC Power, minimum quantity 1.
3. When the L2/L3 Aggregation Switch (DC Power) is ordered, a license option must also be selected. The options are mutually exclusive and you may not order both options. Select either the L3 Premium License or the MPLS Metro Edge Premium License, minimum quantity 1.
4. When the L2/L3 Aggregation Switch (DC Power) is ordered, one or more SFP Fiber Plug-ins must be ordered, at a maximum quantity of 24. Options are not mutually exclusive. Orders can be placed for all three options, if required.

5. When the L2/L3 Aggregation Switch (DC Power) is ordered, SFP Copper Plug-ins are optional (not required), and may be ordered at a maximum quantity of 24.
6. Product FRUs must be used when ordering standalone items.
7. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

AC Power:

1. There is a minimum quantity 1 required for the L2/L3 Aggregation Switch (AC Power) - Fiber.
2. When the L2/L3 Aggregation Switch (AC Power) is ordered, you must also order L2/L3 Redundant AC Power, minimum quantity 1.
3. When the L2/L3 Aggregation Switch (AC Power) is ordered, a license option must also be selected. The options are mutually exclusive and you may not order both options. Select either the L3 Premium License or the MPLS Metro Edge Premium License, minimum quantity 1.
4. When the L2/L3 Aggregation Switch (AC Power) is ordered, one or more SFP Fiber Plug-ins must be ordered, at a maximum quantity of 24. Options are not mutually exclusive. Orders can be placed for all three options, if required.
5. When the L2/L3 Aggregation Switch (AC Power) is ordered, SFP Copper Plug-ins are optional (not required), and may be ordered at a maximum quantity of 24.
6. Product FRUs must be used when ordering standalone items.
7. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

Configuration

Models

Options

REDUNDANT POWER:

LICENSES:

OR

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
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SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	055	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	055	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	055	\$470.00

COPPER PLUG-INS:

Accessories

FIBER SWITCH FRUs (DC power):

FIBER SWITCH FRUs (AC power):

SWITCH LICENSES

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00
SFP (COPPER PLUG-IN) - ALL LENGTHS	-	DDN1347A	454	\$375.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	EXL	DDN1344A	MINI GBIC 1000BASESX WITH 1 LC MM PORT	454	20

QUOTEDS	EXL	DDN1345A	10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	454	20
QUOTEDS	BRO	DDN1346A	SFP (FIBER PLUG-IN)- UP TO 70 KM	454	20
QUOTEDS	BRO	DDN1347A	SFP (COPPER PLUG-IN) - ALL LENGTHS	454	20

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

L2/L3 Remote EPG Switch - Copper

Ordering Information

Features

- Compact 1U IP/MPLS/VRF-enabled switch that is purpose-built for advanced Carrier Ethernet and large data center applications.
- Wire-speed, non-blocking performance in all configurations.
- 48-port configurations in both Hybrid Fiber (HF) and RJ45 versions to suit versatile access/aggregation media with two optional 10 GbE uplink ports.
- Powered by field-proven Brocade Multi-service IronWare OS that also runs on the Brocade MLX Series of high-performance routers.
- Integrated support for OpenFlow in true hybrid mode, enabling Software-Defined Networking (SDN) for programmatic control of the network.
- Advanced and highly scalable IPv4/IPv6 routing and Carrier Ethernet services, including E-LINE, E-LAN and E-TREE.
- MEF 9-, MEF 14- and MEF 21-certified, with comprehensive service OAM capabilities.

For additional information, see Brocade Model Number CES2048CX/FX (AC/DC power) at www.brocade.com

General Information

The L2/L3 Remote EPG Switch/Router enables a split equipment configuration, whereby the eNBs, EPG, security GW and application servers are located in-market. The remaining core components (MME, HSS/PCRF, and OSS-RC) are installed in a centralized location.

The Brocade CES2048CX or CES2048FX Series offers routing capabilities that are commonly required in edge aggregation and other applications within a provider's domain. These capabilities include advanced hardware-based routing technology, which ensures secure and robust wire-speed routing performance. It provides high performance IPv4, IPv6 and MPLS (Multiprotocol Label Switching) capabilities, as well as advanced Layer 2 switching.

Ordering Requirements

L2/L3 Remote EPG Copper - AC Power

1. There is a minimum quantity of 2 required for the L2/L3 Switch (AC Power) - Copper - 48 Ports.
2. When the L2/L3 Switch (AC Power) - Copper - 48 Ports is ordered, you must also order L2/L3 REDUNDANT AC POWER SUPPLY, minimum quantity 1 per switch, for a total of 2 for the 2 redundant switches.

3. If 10G Ethernet support is required, then order 1 10G XFP (FIBER PLUG-IN) for 1 10G port, and a maximum of 2 if 2 10G ports are required per switch, for a maximum quantity of 4 for the 2 redundant core switches.

4. Product FRUs must be used when ordering standalone items.

5. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

L2/L3 Remote EPG Copper - DC Power

1. There is a minimum quantity of 2 required for the L2/L3 Switch (DC Power) - Copper - 48 ports.

2. When the L2/L3 Switch (DC Power) - Copper - 48 ports is ordered, you must also order L2/L3 REDUNDANT DC POWER SUPPLY, minimum quantity 1 per switch, for a total of 2 for the 2 redundant switches.

3. If 10G Ethernet support is required, then order 1 10G XFP (FIBER PLUG-IN) for 1 10G port, and a maximum of 2 if 2 10G ports are required per switch, for a maximum quantity of 4 for the 2 redundant core switches.

4. Product FRUs must be used when ordering standalone items.

5. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

Configuration

Models

AC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER AC INC MPLS LICENSE	-	TT2718	055	\$26,492.00

DC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER DC INC MPLS LICENS	-	TT2719	055	\$26,895.00

Options

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	055	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	055	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	055	\$705.00

Accessories

AC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER AC INC MPLS LICENSE	-	DDN1767	055	\$26,492.00

DC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER DC INC MPLS LICENS	-	DDN1768	055	\$26,895.00

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	055	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	055	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	055	\$721.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	BRO	DDN1767	CES2048X COPPER AC INC MPLS LICENSE	055	20
QUOTEDS	BRO	DDN1768	CES2048X COPPER DC INC MPLS LICENS	055	20
			CES2048X AC RED POWER SUPPLY		

QUOTEDS	BRO	DDN1771	500W	055	20
QUOTEDS	BRO	DDN1772	CES2048X DC RED POWER SUPPLY 500W	055	20
QUOTEDS	EXL	DDN1773	10GBASE-SR, SFP+OPTIC (LC), 300M MMF	055	20
QUOTEDS	BRO	TT2718	CES2048X COPPER AC INC MPLS LICENSE	055	20
QUOTEDS	BRO	TT2719	CES2048X COPPER DC INC MPLS LICENS	055	20

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

L2/L3 Remote EPG Switch - Fiber

Ordering Information

Features

- Compact 1U IP/MPLS/VRF-enabled switch that is purpose-built for advanced Carrier Ethernet and large data center applications.
- Wire-speed, non-blocking performance in all configurations.
- 48-port configurations in both Hybrid Fiber (HF) and RJ45 versions to suit versatile access/aggregation media with two optional 10 GbE uplink ports.
- Powered by field-proven Brocade Multi-service IronWare OS that also runs on the Brocade MLX Series of high-performance routers.
- Integrated support for OpenFlow in true hybrid mode, enabling Software-Defined Networking (SDN) for programmatic control of the network.
- Advanced and highly scalable IPv4/IPv6 routing and Carrier Ethernet services, including E-LINE, E-LAN and E-TREE.
- MEF 9-, MEF 14- and MEF 21-certified, with comprehensive service OAM capabilities.

For additional information, see Brocade Model Number CES2048CX/FX (AC/DC power) at www.brocade.com

General Information

The L2/L3 Remote EPG Switch/Router enables a split equipment configuration, whereby the eNBs, EPG, security GW and application servers are located in-market. The remaining core components (MME, HSS/PCRF, and OSS-RC) are located in a centralized location.

The Brocade CES2048CX or CES2048FX Series offers routing capabilities that are commonly required in edge aggregation and other applications within a provider's domain. These capabilities include advanced hardware-based routing technology, which ensures secure and robust wire-speed routing performance. It provides high performance IPv4, IPv6 and MPLS (Multiprotocol Label Switching) capabilities, as well as advanced Layer 2 switching.

Ordering Requirements

L2/L3 Remote EPG Fiber - AC Power

1. There is a minimum quantity of 2 required for the L2/L3 Switch (AC Power) - Fiber - 48 Ports.
2. When the L2/L3 Switch (AC Power) - Fiber - 48 Ports is ordered, you must also order L2/L3 REDUNDANT AC POWER SUPPLY, minimum quantity 1 per switch, for a total of 2 for the 2 redundant switches.

3. If 10G Ethernet support is required, then order 1 10G XFP (FIBER PLUG-IN) for 1 10G port, and a maximum of 2 if 2 10G ports are required per switch, for a maximum quantity of 4 for the 2 redundant core switches.

4. If the fiber switch AC power is ordered, one or more 1G SFP Fiber Plug-ins must be ordered, at a maximum quantity of 48. Three different options of SFP Plug-ins can be ordered, based on fiber length requirements, and these options are not mutually exclusive. Orders can be placed for all three options, if required.

5. Product FRUs must be used when ordering standalone items.

6. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

L2/L3 Remote EPG Copper - DC Power

1. There is a minimum quantity of 2 required for the L2/L3 Switch (DC Power) - Fiber - 48 ports.

2. When the L2/L3 Switch (DC Power) - Fiber - 48 ports is ordered, you must also order L2/L3 REDUNDANT DC POWER SUPPLY, minimum quantity 1 per switch, for a total of 2 for the 2 redundant core switches.

3. If 10G Ethernet support is required, then order 1 10G XFP (FIBER PLUG-IN) for 1 10G port, and a maximum of 2 if 2 10G ports are required per switch, for a maximum quantity of 4 for the 2 redundant core switches.

4. If the fiber switch DC power is ordered, one or more 1G SFP Fiber Plug-ins must be ordered, at a maximum quantity of 48. Three different options of SFP Plug-ins can be ordered, based on fiber length requirements, and these options are not mutually exclusive. Orders can be placed for all three options, if required.

5. Product FRUs must be used when ordering standalone items.

6. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

Configuration

Models

AC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048X FIBER AC INC MPLS LICENSE	-	TT2720	055	\$29,373.00

DC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048 FIBER DC INC MPLS LICENSE	-	TT2721	055	\$29,776.00

Options

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	055	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	055	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	055	\$705.00

1G (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	055	\$470.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	055	\$990.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	055	\$3,820.00

Accessories

AC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048X FIBER AC INC MPLS LICENSE	-	DDN1769	055	\$29,373.00

DC Power Core Copper/Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048 FIBER DC INC MPLS LICENSE	-	DDN1770	055	\$29,776.00

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	055	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	055	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	055	\$721.00

1G (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
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SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	055	\$470.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	055	\$990.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	055	\$3,820.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	BRO	DDN1769	CES2048X FIBER AC INC MPLS LICENSE	055	20
QUOTEDS	BRO	DDN1770	CES2048 FIBER DC INC MPLS LICENSE	055	20
QUOTEDS	BRO	DDN1771	CES2048X AC RED POWER SUPPLY 500W	055	20
QUOTEDS	BRO	DDN1772	CES2048X DC RED POWER SUPPLY 500W	055	20
QUOTEDS	EXL	DDN1773	10GBASE-SR, SFP+OPTIC (LC), 300M MMF	055	20
QUOTEDS	BRO	TT2720	CES2048X FIBER AC INC MPLS LICENSE	055	20
QUOTEDS	BRO	TT2721	CES2048 FIBER DC INC MPLS LICENSE	055	20

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JUMP TO ...

Learning Management Systems

LEARNING SERVICES
sels@motorolasolutions.com

Learning Management Systems

LMS will be available to order via CPQ.

Silver

Availability: Continual access to LMS, beginning at time of contract signing; end date is at a minimum of 2 years post go live date, with incentive for sales to sell as many out years as possible.

Content: Base content assigned per contracted applications and/or products; with the addition of all applicable new release training during contracted term.

Access to courses for LMS administrators to be able to add/modify users, run reports, and add/modify groups within the panorama.

Cost: \$24 per user license per year for length of contract.

Gold

Availability: Continual access to LMS for length of contract.

Content: Base content assigned per contracted applications and/or products; with the addition of all applicable new release training during contracted term. With ability to upload customer content and ability to track all learning.

Training: Remote training of 12 hours provided for up to 6 administrators covering the administration of their LMS instance. Pre Go Live consists of 10 hours; post go live (to be used no later than 180 days past go live) consists of 4 hours.

Cost: \$32 per user license per year for length of contract.

Platinum

Availability: Continual access to LMS for length of contract.

Content: Base content assigned per contracted applications and/or products; with the addition of all applicable new release training during contracted term. With ability to upload customer content and ability to track all learning.

Eight (8) hours of customized content included, with ability to add more as customer deems necessary.

Training: Remote training of 24 hours provided for up to 6 administrators covering the administration of their LMS instance. Pre Go Live consists of 12 hours; post go live (to be used no later than 365 days past go live) consists of 12 hours. Then 12 hours of continuing administrator training per year for the length of the maintenance and support contract.

Twenty-four (24) hours of on site training for up to 6 administrators; covering creation of content and LMS use/administration.

CPQ Part Number	Description	Item Type	APC	Price
SSV00S01450A	Silver LMS Named User License Subscription	Subscription Service	0253	\$24/user/yr
SSV00S01451A	Gold LMS Named User License Subscription	Subscription Service	0253	\$32/user/yr
SSV00S01452A	Platinum LMS Named User License Subscription	Subscription Service	0253	\$40/user/yr
PSV00S01453A	Custom Content Development, 10 hour Block	Service Software	0030	\$15,200/qty
PSV00S01454A	LMS Onboarding	Service Software	0030	Silver - \$0 Gold - \$22,400 Platinum - \$22,400

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)**Model****LEX L10****Ordering Information****Product Information**

The LEX L10 Mission Critical LTE Handheld is purpose-built to deliver the Public Safety Experience (PSX) that responders need to work faster, safer and smarter. It addresses the unique requirements of public safety personnel by delivering the mission critical capabilities not available on consumer-grade smart phones. The device is equipped with the PSX User Interface that is customizable, role-based, and adaptive. It intelligently aggregates and prioritizes information to only present what is critical to the user, based on their current status and activity.

The sleek LEX L10 is ergonomically designed for one-handed operation with a no-slip grip and a 4.7 inch touch screen. It features best-in-class audio performance with dual 1-watt front-facing speakers, tri-microphone noise and echo cancellation, and a dedicated PTT button for fast voice collaboration. It can operate in covert mode and can be securely touch-paired with Motorola APX P25 radios via mission critical bluetooth. It uses a removable battery that enhances long-term usage in the field.

The LEX L10 is secured with hardware encryption and Security Enhanced Android OS. It works on Verizon 3G/4G and Public Safety LTE, ensuring seamless roaming and optimal coverage at all times.

For more information, please visit: <http://www.motorolasolutions.com/US->

General Information

The LEX L10 is a ruggedized handheld device that operates on an Android 4.4 Kit-Kat OS. This government grade interface solution is easily deployed to security and public safety teams. The LEX L10 (MIL-STD 810G) with an operating temperature of -10C to 55C. LEX L10 is built on Android Kit Kat 4.4.4 OS. Furthermore, it is IP67 sealed and ruggedized against everyday hazards like moisture, vibration, and temperature extremes.

LEX L10 has several key features, including dual SIM slots to support Verizon 3G/4G LTE and Public Safety LTE, ensuring seamless roaming and optimal coverage at all times. LEX L10 has a removable battery, which has a 10hr battery life (2340 mAH), in addition to an X-cap with a 20hr battery life (4680 mAH). It is ergonomically optimized for one-handed dedicated PTT button operation, and volume up and down operation. The LEX L10 comes with a battery, battery door, data/charging cable, and a heavy-duty 6W AC two-piece charger.

Please note: General lead times are 12-16 weeks.

Configuration

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	CDP	HK2056A	LEX L10 HANDHELD	171	36

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

**LEX L10g**

Ordering Information

Product Information

"The Lex L10g is NOT compatible with WAVE OnCloud or WAVE 5.12 or later"

The LEX L10g Mission Critical LTE Handheld is purpose-built for first responders who need to work faster, safer and smarter. It addresses the unique requirements of public safety personnel by delivering the mission critical capabilities not available on consumer-grade smart phones. The device is equipped with Google Mobile Services and comes preloaded with several very useful Google applications. Users have access to Google Playstore, which helps to discover and deliver millions of applications.

The sleek LEX L10g is ergonomically designed for one-handed operation with a no-slip grip and a 4.7 inch touch screen. It features best-in-class audio performance with dual 1-watt front-facing speakers, tri-microphone noise and echo cancellation, and a dedicated PTT button for fast voice collaboration. It can operate in covert mode and uses a removable battery that enhances long-term usage in the field.

The LEX L10g is secured with hardware encryption and Security Enhanced Android OS. It works on Verizon 3G/4G and Public Safety LTE, ensuring seamless roaming and optimal coverage at all times.

General Information

The LEX L10g is a ruggedized handheld device that operates on an Android 4.4 Kit-Kat OS. This government grade interface solution is easily deployed to security and public safety teams. The LEX L10g (MIL-STD 810G), with an operating temperature of -10C to 55C, is built on Android Kit Kat 4.4.4 OS. Furthermore, it is IP67 sealed and ruggedized against everyday hazards like moisture, vibration, and temperature extremes.

LEX L10g has several key features, including dual SIM slots to support Verizon 3G/4G LTE and Public Safety LTE, ensuring seamless roaming and optimal coverage at all times. LEX L10g has a removable battery, which has a 10hr battery life (2340 mAH), in addition to an X-cap with a 20hr battery life (4680 mAH). It is ergonomically optimized for one-handed dedicated PTT button operation, and volume up and down operation. The LEX L10g comes with a battery, battery door, data/charging cable, and a heavy-duty 6W AC two-piece charger.

Please note: General lead times are 12-16 weeks.

Configuration

Models

Sample Order/Ordering Requirements

COF Order Line Number: Part Number	Part Number Description
Line 1: HK2064A	LEX L10g - Sales Model

Please note: As mentioned in the General Information section, the LEX L10g sales model includes a ruggedized handheld device, a standard battery with door, a USB data/charging cable, an AC wall charger, and a quickstart guide.

For additional information, please contact [Product Management](#).

Accessories

Description	Full Description	Nomenclature	APC	Price
COVER-DOOR,LEX HANDHELD STANDARD CAPACITY BATTERY DOOR	-	HKLN4619A	171	\$12.00
COVER-DOOR,LEX HANDHELD EXTENDED CAPACITY BATTERY DOOR	-	HKLN4620A	171	\$15.00
LEX L10 AUTO CHARGE	-	CKN6968	171	\$60.00
CARRY ACCESSORY-HOLSTER,LEX				

HANDHELD HOLSTER	-	HKLN4618A	171	\$60.00
BATTERY PACK LI ION 4680 MAH 3.7V	-	PMNN4475B	171	\$90.00
CARRY ACCESSORY-GLOVE,LEX L10 RUBBER SLEEVE	-	HKLN4623A	171	\$24.00
MOUNTING KIT,LEX L10 CAR CRADLE ASSEMBLY KIT	-	HKLN4627A	171	\$100.00
CHARGER,LEX L10 DESKTOP CHARGER ASSEMBLY KIT	-	HKLN4628A	171	\$100.00
CABLE,MICRO USB PROGRAMMING CABLE	-	CB000262A01	261	\$10.00

MSI Device Applications

Application	Product Information
Device Manager	Please visit the Device Manager pCAT page.
Premier One	Please visit the Premier One pCAT page.
CRYPTR MICRO FOR VoIP & Wave 7000	Please visit the Cryptr Micro pCat page

[*Device Manager pCat Page](#)

[*PREMIER ONE](#)

[*CRYPTR MICRO FOR VoIP & Wave 7000](#)

SIM Card

3FF SIM Profile Options

Please contact [LTE Product Management](#) to confirm if a SIM card purchase is necessary, and to discuss 3FF SIM Profile Options. For additional product information, please visit the [LTE SIM](#) page.

Price per SIM Profile Option is \$50 each. Volume discounts may apply based on order quantity. [LTE Product Management](#) should be contacted for further information.

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
PARTS	PDC	CB000262A01	CABLE,MICRO USB PROGRAMMING CABLE	261	5
FIXEDSTN	CDP	CKN6968	LEX L10 AUTO CHARGE	171	4
FIXEDSTN	CDP	CKN6968	LEX L10 AUTO CHARGE	171	4
FIXEDSTN	CDP	CKN6968	LEX L10 AUTO CHARGE	171	4
FIXEDSTN	CDP	HKLN4618A	CARRY ACCESSORY-HOLSTER,LEX HANDHELD HOLSTER	171	5
FIXEDSTN	CDP	HKLN4618A	CARRY ACCESSORY-HOLSTER,LEX HANDHELD HOLSTER	171	5
FIXEDSTN	CDP	HKLN4618A	CARRY ACCESSORY-HOLSTER,LEX HANDHELD HOLSTER	171	5
FIXEDSTN	CDP	HKLN4619A	COVER-DOOR,LEX HANDHELD STANDARD CAPACITY BATTERY DOOR	171	8
FIXEDSTN	CDP	HKLN4619A	COVER-DOOR,LEX HANDHELD STANDARD CAPACITY BATTERY DOOR	171	8
FIXEDSTN	CDP	HKLN4619A	COVER-DOOR,LEX HANDHELD STANDARD CAPACITY BATTERY DOOR	171	8
FIXEDSTN	CDP	HKLN4620A	COVER-DOOR,LEX HANDHELD EXTENDED CAPACITY BATTERY	171	8

			DOOR		
FIXEDSTN	CDP	HKLN4620A	COVER-DOOR,LEX HANDHELD EXTENDED CAPACITY BATTERY DOOR	171	8
FIXEDSTN	CDP	HKLN4620A	COVER-DOOR,LEX HANDHELD EXTENDED CAPACITY BATTERY DOOR	171	8
FIXEDSTN	CDP	HKLN4623A	CARRY ACCESSORY-GLOVE,LEX L10 RUBBER SLEEVE	171	9
FIXEDSTN	CDP	HKLN4623A	CARRY ACCESSORY-GLOVE,LEX L10 RUBBER SLEEVE	171	9
FIXEDSTN	CDP	HKLN4623A	CARRY ACCESSORY-GLOVE,LEX L10 RUBBER SLEEVE	171	9
FIXEDSTN	CDP	HKLN4627A	MOUNTING KIT,LEX L10 CAR CRADLE ASSEMBLY KIT	171	4
FIXEDSTN	CDP	HKLN4627A	MOUNTING KIT,LEX L10 CAR CRADLE ASSEMBLY KIT	171	4
FIXEDSTN	CDP	HKLN4627A	MOUNTING KIT,LEX L10 CAR CRADLE ASSEMBLY KIT	171	4
FIXEDSTN	RNS	HKLN4628A	CHARGER,LEX L10 DESKTOP CHARGER ASSEMBLY KIT	171	25
FIXEDSTN	CDP	HKLN4628A	CHARGER,LEX L10 DESKTOP CHARGER ASSEMBLY KIT	171	5
FIXEDSTN	PDC	HKLN4628A	CHARGER,LEX L10 DESKTOP CHARGER ASSEMBLY KIT	171	20
FIXEDSTN	CDP	PMNN4472B	BATTERY PACK LI ION 2340 MAH 3.7V	171	8
FIXEDSTN	CDP	PMNN4472B	BATTERY PACK LI ION 2340 MAH 3.7V	171	8
FIXEDSTN	CDP	PMNN4472B	BATTERY PACK LI ION 2340 MAH 3.7V	171	8

FIXEDSTN	CDP	PMNN4475B	BATTERY PACK LI ION 4680 MAH 3.7V	171	2
FIXEDSTN	CDP	PMNN4475B	BATTERY PACK LI ION 4680 MAH 3.7V	171	2
FIXEDSTN	CDP	PMNN4475B	BATTERY PACK LI ION 4680 MAH 3.7V	171	2
PORTABLES	CDP	T4107	LEX L10IG HANDHELD LA REGION	171	7

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

Model



LEX L11 LTE DEVICE

CERTIFIED FOR ATT/FIRSTNET NETWORK/VERIZON

Ordering Information

PRODUCT INFORMATION

When hardware, software, and accessories work seamlessly together, the result is a device that works seamlessly for you. The LEX L11 Mission-Critical LTE Device is designed with first responders in mind; it's the result of our tireless quest to understand the way you actually work. Every feature and function is thoughtfully considered, from the rugged, easy to operate design to the always loud and clear audio to the advanced end to end secure mobile platform and the enhanced accessibility provided by a suite of accessories. Rugged and durable yet streamlined and slim, you can count on the LEX L11 to perform when it's needed most.

The LEX L11 is equipped with a 5.0 in. touch screen display, WiFi, Bluetooth 4.2 LE, and ships with Android 7.1 Nougat OS. Users also have access to the Google Playstore which delivers millions of applications.

The LEX L11 is available with removable IMPRES™ 2 battery options: 2500 mAH standard or 5000 mAH high-capacity. The LEX L11 is designed for use in mission-critical situations; you need to keep your eyes in front of you and easily access key features using just one hand. With its ergonomic design, the LEX L11 places the most important buttons on the left-hand side, including a dedicated push-to-talk button and two programmable buttons. A talk group rocker switch and dedicated emergency button placed on the top provide quick access even when the device is holstered.

The LEX L11 includes Security Enhanced Android OS.

Ordering Example of LEX L11

LINE ITEM 1:

1. **HK2108**: LEX L11 HANDHELD

1a. **QA07392AA**: ALT: IMPRES2 Li-Ion 5000 mah Battery (OPTIONAL)

1b. **VA00898AA**: 3YR ESSENTIAL SERVICE

LINE ITEM 2:

2. **HKVN4631A**: 3 YEAR SOFTWARE SUBSCRIPTION

Each LEX 11 Order should include quantity 1 of HKVN4631A to ensure customers have access to future software releases. Quantity 1 is sufficient for any quantity of devices, but must be included on every order.

PLEASE NOTE AN EMAIL ADDRESS MUST BE ENTERED WHEN ORDERING HKVN4631A ON EVERY ORDER.

LEX L11 LTE DEVICE RESOURCES:

https://www.motorolasolutions.com/en_us/products/lte-user-devices/lexl11.html#tabproductinfo

Configuration

STEP 1: MODEL

NOTE: LEX L11 Handheld Includes the device with Standard battery, Standard battery cover, USB-A wall charger, data/charging cable, QUICK START GUIDE and SAFETY/REGULATORY GUIDE.

Description	Full Description	Nomenclature	APC	Price
LEX L11 HANDHELD NA REGION	LEX L11 HANDHELD	HK2108	790	\$1,000.00

STEP 2: BATTERY OPTIONS (OPTIONAL)

If no battery option is selected, the LEX L11 will ship with the standard 2500 mAH battery. Selecting this option replaces the standard battery and battery cover with the high capacity battery and battery cover.

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Description	Full Description	Nomenclature	APC	Price
ADD: IMPRES 2 LI-ION 5000 MAH BATTERY (PMNN4546)	-	QA07392AA	790	\$50.00

STEP 3: OTHER DEVICE OPTIONS (OPTIONAL)

Select one of these options if required.

NOTE: The Black options (QA02850ZT) is not stocked at the Distribution Center, so longer lead times will be incurred for this device. TAA model will ship in **APRIL** (16-22 weeks lead time).

DESCRIPTION	FULL DESCRIPTION	NOMENCLATURE	APC	PRICE
LEXL11 TRADE AGREEMENT ACT MODEL	THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT	QA02850UM	790	\$100.00
LEXL11 BLACK COVERT MODEL	THIS CONFIGURATION INCLUDES BLACK EMERGENCY BUTTON, NO GREEN RING ROUND THE PTT BUTTON OR CAMERA AND NO WHITE LINE OR +/- ON THE TALKGROUP ROCKER	QA02850ZT	790	\$50.00

STEP 4: SFS OPTIONS (MUST SELECT ONE)

The LEX L11 has choices for service & repair coverage levels. Select Essential Service with fast repair turnaround time, add on Accidental Damage to protect your investment, or choose the standard one year warranty.

Description	Full Description	Nomenclature	APC	Price
3YR ESSENTIAL SERVICE	3YR ESSENTIAL SERVICE	VA00898AA	185	\$38.00
3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	VA00906AA	185	\$90.00
5YR ESSENTIAL SERVICE	5YR ESSENTIAL SERVICE	VA00899AA	185	\$74.00

5YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	5YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	VA00907AA	185	\$180.00
DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	QA06507AC	790	\$0.00

STEP 5: SOFTWARE SUBSCRIPTION (MUST BE ORDERED)

NOTE: This software must be ordered or the device will not have access to software updates. Qty 1 per order is sufficient for any qty. of devices, but every order must include this line item.

Description	Full Description	Nomenclature	APC	Price
3YR SOFTWARE SUBSCRIPTION LTE	-	HKVN4631A	206	\$0.00

AFTERMARKET ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
COVER-COVER,COVER, BATTERY, SLIM	ADD: Standard Battery Back Cover	HN001154A01	790	\$12.00
BATTERY PACK,BATT IMPRES2 LIION IP68 2500T	Battery IMPRES2 LIION 2500	PMNN4545A	453	\$95.00
COVER-COVER,COVER, BATTERY, HI CAP	ADD: High Capacity Battery Back Cover	HN001155A01	790	\$15.00
BATTERY PACK,BATT IMPRES2 LIION IP68 5000T	Battery IMPRES2 LIION 5000	PMNN4546A	453	\$125.00
CABLE,1000 MM,LEX L11 USBA TO USBC	Works with wall charger PS000150A351 (purchased separately)	CB000756A01	790	\$20.00

CABLE,1000 MM,LEX L11 USBC TO USBC	Works with wall charge PS000278A01. (purchased separately)	CB000754A01	790	\$40.00
COVER-DOOR,PLUG, MICROSD SLOT, L11	MICRO SD PLUG (package of 5)	HN001197A01	790	\$10.00
COVER-DOOR,INTERNAL,NANO SIM DOOR TRAY	NANO SIM DOOR TRAY (package of 5)	HN001195A01	790	\$10.00
CHGR VEHICULAR ADAPTER	Vehicular Charging Cable	PMLN7779A	785	\$60.00
CARRY ACCESSORY- HOLSTER,CARRY HOLSTER WITH PETER JONES BELT CLIP FOR L	Carry Holster This holster includes a Peter Jones stud. Please select one of the following Peter Jones attachment clips for the holster.	PMLN7845A	271	\$50.00
PETER JONES BELT DOCK 38MM	This belt dock can be used with belts 38mm in width.	GMDN0497A	607	\$11.50
LEATHER BELT LOOP AND DOCK	Includes a leather loop for belts up to 50mm in width.	GMDN0566AC	607	\$9.75
REPLACEMENT DOCK FOR FTN6355A	Used with garments that accommodate screw-to-fit docks.	WALN4307	607	\$18.00
CARRYCASE ASSEMBLY,CLAMSHELL,PLAS,S	Sew-on dock for mounting on uniforms, body armor, and other clothing types.	GMDN0386A	607	\$13.00
	Includes 12 charging slots. Each slot can			

CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US	accommodate a device with standard or high capacity battery OR a standalone standard or high capacity battery.	PMPN4349A	785	\$1,500.00
CHGR DESKTOP DUAL UNIT IMPRES 2 EXT PS NA	Includes 2 charging slots: 1 slot accommodates the device with either standard or high capacity battery; the other slot accommodates a spare standard or high capacity battery.	PMPN4359A	785	\$100.00
ACCESSORY KIT, CRADLE VEHICULAR, WITH SUCTION BASE	Includes a vehicular cradle and Ram mount. Vehicular charging cable (PMLN7779A) should be ordered separately.	PMLN7912A	785	\$75.00
3.5MM MONO EARBUD W MIC/PTT	3.5mm earbud with inline microphone and push-to-talk	PMLN7540A	607	\$23.00
3.5MM 2-WIRE EARPIECE W TRANS/TUBE	3.5mm two-wire earpiece with translucent tube	PMLN7541A	607	\$60.00
PS WALL 100-240V FIXED BLADE US/JP PPS L6 USB-C	Use this Wall Charger with CB000754A01. Quick Charging Wall Cable.	PS000278A01	785	\$22.00
PS WALL 240VAC UNIVERSAL US/JPN ADAPTER 5VDC/1.5A L6	Use this Wall Charger with CB000756A01.	PS000150A31	785	\$15.00

USB-A DETACHABLE	Standard Wall Charging Cable.			
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MSI DEVICE APPLICATIONS

Application	Product Information
WAVE Tactical	Please contact the Product Manager: matthew.dedecker@motorolasolutions.com
KODIAK/EPTT	Please contact the Product Manager: Dave.lafferty@motorolasolutions.com

MARKETING AND SALES COLLATERAL

www.motorolasolutions.com/sales

Log in using core ID and password then navigate to the LEX L11 product detail page.

CONTACT INFORMATION

PRODUCT MANAGER

Judy Walker

Judy.Walker@motorolasolutions.com

(847) 576-1285

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

LINK Services

Ordering Information

Land mobile radio (LMR) system management has grown especially complex over the past two decades, as systems become more IP-based. LMR systems must seamlessly interact and connect with applications, software and broadband networks—all of which are moving targets. With unprecedented interoperability and performance requirements, keeping pace with evolving system capabilities and IP-based technology can be a time-consuming and expensive undertaking.

With LINK, Motorola assumes full responsibility for your existing ASTRO 25 assets and optimizes the coverage, capacity and availability for your entire region or state in a subscription-based model. We are also accountable for all technology improvements, interoperability, cybersecurity and much more, leaving your staff and resources free to focus on your core mission.

Benefits

From ever-increasing demands for system interoperability to new technology and security concerns, LMR systems create an array of critical challenges for today's system operators. LINK allows you to focus on your mission at a predictable cost without sacrificing the performance of the communication network that empowers your operations and users.

- Achieve savings over traditional methods of procurement and operations with economies of scale of a unified network platform and operations
- Eliminate unexpected expenses through a predictable service model
- Achieve agility with a flexible platform that has the ability to leverage and integrate disparate State and local networks and technologies
- Interoperate across agencies, regions and communication technologies.
- Gain access to the latest technology and features.
- Experience guaranteed, mission-critical performance.

Statement of Work

Link provides users with a Service Level Agreement (SLA) experience which are specific to each system. Service Level Agreements consist of Network Coverage, Network Capacity and

Network Availability commitments. These SLA's are enabled through an integrated delivery

model leveraging capabilities such as 24x7x365 network and security monitoring with end to end event management, technical support, help desk and ticketing, preventive maintenance, onsite services, performance management, and system and software provisioning and updates. Detailed descriptions of each of these capabilities are included in the Product Catalog. A LINK SLA must be provided for each customer. Contact your MSI Account Manager for more details.

Ordering Requirements

1. Inherent in the LINK structure is the ability to drive economies of scale as agencies join the network, creating cost efficiencies for users. As part of the LINK services, Motorola will maintain and manage the customer-owned system equipment, integrating it into the LINK network and enabling others to leverage the resources; which provides economies of scale for all. As more users join the network, pricing will have tiered reductions that provide cost savings to all agencies. These reductions may be tied to both individual agency user quantity reductions, as well as total network users. This pricing also provides an accessible platform for new, additional capabilities as they become available. The network becomes an efficient and effective model for shared services.
2. LINK Services are subject to mutually agreeable Terms and Conditions.
3. Motorola will provide to Customer the managed services and Deliverables (if any) set forth in the Service Level Agreement(s) or in Service Level Agreement executed by the Parties in the future (“Services”) in exchange for Monthly Service Fees and use of Customer’s existing communications equipment.

Configuration

Item	Description	APC	Price
* Services Setup (one-time fee for each LINK customer)	Includes all Hardware, Software, and labor required to integrate existing systems and set up the services to meet required Service level agreements.	989	\$10,000 /unit
** Recurring Monthly User Fees	Fees associated with providing ongoing services to meet coverage, capacity, availability, and resilience commitments. Includes infrastructure network and security operations services, software, and hardware.	989	Cat. A \$30 Cat. B \$50 Cat. C \$70 Cat. D \$90 Cat. E \$110

* Number of Service Setup Fee units are calculated based on existing customer systems, Service Level Agreements, and cutover requirements.

** Fees vary based on type of access and SLA's required for the system and different user categories.

The above is representative pricing only. Specific pricing for specific Service Level Agreements can be provided upon request.

LINK pricing is prepaid annual in advance. Billing will begin after the System is available for the Beneficial Use, or acceptance whichever comes first.

Subscription discounts are available based on the contract term (Years). Customer may be required to pay a minimum annual recurring charge ("ARC") independent of subscriber subscriptions on the system. Any miscellaneous items that are not included in the Annual Recurring Charge (ARC) will be labeled accordingly.

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Local Device Combo Package

Ordering Information

General Information

The Local Device Combo Package provides the first echelon and component level repair services for your radios. The Motorola Local Service Provider makes the determination to repair the radio locally or utilize Motorola's Radio Support Center for the repair. The customer is responsible for bringing the radio to the local service facility for service.

On-site option: The on-site option (pick-up & delivery) provides for a Local Motorola Service Providers to be on-site at the customer's location. Equipment will be picked up and delivered to the customer's location within mutually agreed upon schedule.

Survey and Analysis Option: The Survey and Analysis optional add-on provides for annual testing to ensure equipment meets original manufacturer's specifications. It is the Customer's responsibility to schedule the Radio Survey and Analysis with the SSC.

Antenna Replacement Program for Portables Option: The Antenna Replacement provides for an antenna check and replacement service. Due to the nature of this Option, customer's entire inventory of portables must be covered by this Option. Any physical damage found that requires radio repair beyond a new antenna is charged to the customer at the prevailing time and material rates.

Remote Speaker Microphone Enhancement for Portables Option: The Remote Speaker Microphone Enhancement is an optional add-on to Local Radio Support. It provides for no-hassle remote speaker microphone replacement. Due to the nature of this Option, Customer's entire inventory of portables must be covered by this Option.

Remote Control Head Enhancement for Mobiles Option: The Remote Control Head option is required for each remote control head covered under the contract. The Remote Control Head option is also applicable to speaker microphone control heads and extended control units.

Features

- Single point of contact for radio servicing needs
- Local Motorola service locations for easy drop-off/pick-up of units
- Several options available to enhance the base service

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Territory Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

[Local Device Combo SOW](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Enter the main line item as quantity one.
3. Options are required as sub-items, with the quantity equal to the option description.
4. All dollar amounts reflect an annual one year pricing.
5. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Local Device Combo

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00051A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$132.00
5	LSV00S00052A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$168.00
6	LSV00S00053A	CONSOLETTTE	\$168.00

7	LSV00S00156A	APX1500, APX4500 APX2500 (CA only)	\$114.00
8	LSV00S00157A	APX6500, APX6500LI, APX7500, APX8500	\$168.00
2	LSV00S00049A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$66.00
3	LSV00S00050A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$84.00
32	LSV00S01296A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$75.00

Local Device Combo w Pickup and Delivery

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00214A	MT1500, PR1500, APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$162.00
5	LSV00S00215A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$198.00
6	LSV00S00216A	APX7500 CONSOLETTTE	\$198.00
7	LSV00S00217A	PM1500, XTL2500, APX1500, APX4500 APX2500 (CA only)	\$144.00
8	LSV00S00218A	APX6500, APX6500LI, APX7500, APX8500	\$198.00
2	LSV00S00212A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$96.00
3	LSV00S00213A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580,	\$114.00

		HT750 MSHA	
32	LSV00S01298A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$105.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Local Radio Support Service

Ordering Information

General Information

Local Radio Support provides an operational check of subscriber Equipment. An operational check is an analysis of the Equipment to identify external or internal defects.

If the Equipment has an external defect, or can be restored without opening the radio case, the Equipment will be restored and returned to Customer. If the Equipment has an internal defect, or is not serviceable without opening the radio case, then the Equipment will require additional service not covered by this Service. This service does not include antennas, portable remote speaker microphones, mobile remote control heads, portable chargers, and mobile external speakers and cabling.

This Service has five options to provide additional services:

On-site option: The on-site option (pick-up & delivery) provides for a Local Motorola Service Providers to be on-site at the customer's location. Equipment will be picked up and delivered to the customer's location within mutually agreed upon schedule.

Survey and Analysis Option: The Survey and Analysis optional add-on provides for annual testing to ensure equipment meets original manufacturer's specifications. It is the Customer's responsibility to schedule the Radio Survey and Analysis with the SSC.

Antenna Replacement Program for Portables Option: The Antenna Replacement provides for an antenna check and replacement service. Due to the nature of this Option, customer's entire inventory of portables must be covered by this Option. Any physical damage found that requires radio repair beyond a new antenna is charged to the customer at the prevailing time and material rates.

Remote Speaker Microphone Enhancement for Portables Option: The Remote Speaker Microphone Enhancement is an optional add-on to Local Radio Support. It provides for no-hassle remote speaker microphone replacement. Due to the nature of this Option, Customer's entire inventory of portables must be covered by this Option.

Remote Control Head Enhancement for Mobiles Option: The Remote Control Head option is required for each remote control head covered under the contract. The Remote Control Head option is also applicable to speaker microphone control heads and extended control units.

Features

- Local Motorola service locations for easy drop-
- Packaging and handling services

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Territory Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions Local Radio Support SOW](#)

Ordering and Contractual Documents

Initial Purchase of Service use model SVC03SVC0115D Subscriber Programming

This product cannot be ordered directly through COF at this time. This product must be ordered using an internal Installation Agreement (IA).

Ongoing Maintenance Orders use model SVC01SVC1423

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#).

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amounts reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Local Device Support

TIER	SERVICE ITEM	DEVICE PRODUCTS	List Price
4	LSV00S00046A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$66.00

5	LSV00S00047A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$78.00
6	LSV00S00048A	CONSOLETTTE	\$78.00
7	LSV00S00154A	APX1500, APX4500 APX2500 (CA only)	\$66.00
8	LSV00S00155A	APX6500, APX6500LI, APX7500, APX8500	\$78.00
2	LSV00S00152A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300,	\$26.40
3	LSV00S00153A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$33.00
32	LSV00S01295A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$33.00

Local Device Support w Pickup and Delivery

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00206A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$96.00
5	LSV00S00207A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$108.00
6	LSV00S00208A	APX7500 CONSOLETTTE	\$108.00
7	LSV00S00209A	PM1500, XTL2500, APX1500, APX4500 APX2500 (CA only)	\$96.00
8	LSV00S00210A	APX6500, APX6500LI, APX7500, APX8500	\$108.00
2	LSV00S00204A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$56.40

3	LSV00S00205A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$63.00
32	LSV00S01297A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$63.00

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JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

Location Services

Ordering Information

Product Information

Important: the location services and presence services price pages will be deleted on 10/3/16. location services and presence service client is not cancelled, the location and presence services converged service client bundles are now part of the uns price pages. therefore, when you order the uns, access to the client is included. the client then needs to be downloaded from the google® play store. if a windows version of the client is required, order via the window converged services client option on the uns.

Contact Name: Cathal Tierney

Motorola's solution streamlines the location services to a single client that provides device location coordinates to a central database, which any application on the network can access via standards-based 3GPP compliant APIs. Location services consist of client and server software and respective server hardware and network fabric. When deployed, location service will allow a responder to see his location on a device. A dispatcher will be able to view the location of the responder and vehicles displayed on a map, and utilize this information to dispatch responders to incidents, etc. User equipment (UE) contains GPS hardware that determines its location and conveys this location information to the location client in UE. Applications in the agency can request device location from the location server using the device's address from the agency. The location server communicates with the location client in the device and retrieves the location information.

General Deployment Information

OFFERED HARDWARE:

Hewlett-Packard DL380 G9 server running Windows Server 2012 R2 and fully configured by Motorola.

SUPPORTED DEVICES/CLIENTS:

LEX 755: (Jellybean), LEX L10 (Kit Kat), LEX L10i, BYOD/Non-MSI Android devices, MDTs/Laptops: Windows 7

CAPACITY:

Location server (HW) supports 1000 updates per second or 10,000 users updating once every 10 seconds (10K devices on location server with best case of reporting 1000 users/sec). Additional servers should be ordered to support larger capacity requirements (exceed 10K active user requirement).

NOTE: When installing in an agency, additional accessories (firewall and switches) are needed. Please refer to the following Information page: [Agency Configuration](#) .

Ordering Information and Requirements

REQUIRED: Hardware, Server Capacity License and Client Licenses

1. **Hardware:** Priority Manager, Location Services and Presence Services share same hardware. Do not purchase/order separate server hardware if your customer already purchased Priority Manager or Presence Services. For ordering new hardware please refer to Priority Manager eCAT page: [PRIORITY MANAGER](#).
2. **Server Capacity License:** In order to activate Location Services on the server side, you must purchase licenses for UNS Location Services. For information on part numbers and prices, please refer to the UNS eCAT page: [UNS](#).
3. **Client Licenses:**

NOTE: App Central client will be branded as Converged Services client going forward.

3.1 LEX 755:

The Location Services client is part of the App Central Client (App Central Client is a software package/bundle of Priority Manager client, Location Services client, Presence Services client, Quick Action Button client, and Radio Remote Control client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately).

App Central Client is pre-loaded on LEX 755 Android devices. In order to activate and use Location Services client, customer needs to order/purchase both client licenses stated below.

	Ordering Guide
LEX 755 Location Services Client License	Option T8080A must be selected followed by UA00126AA (\$0) with the required amount of client licenses. Please order T8326A, followed by the needed bundle below.

3.2 LEX L10, LEX L10i:

The Location Services client is part of the Converged Services Client (Converged Services Client is a software package/bundle of Priority Manager client, Location Services client and Presence Services client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately.)

In order to activate and use Location Services client, customer needs to purchase client license under T8326A. Please order T8326A, followed by the needed bundle below.

3.3 Generic/BYOD/Non-MSI Android:

The Location Services client is part of the Generic/BYOD Converged Services Client

available on Google® Play Store (Converged Services Client for generic/BYOD Android devices is a software package/bundle of Location Services client and Presence Services client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately.)

In order to activate and use Location Services client, customer needs to purchase client license under T8326A. Please order T8326A, followed by the needed bundle below.

3.4 Windows 7:

App Central client is a post-load application, and in order to use Location Services client, customer needs to purchase and load App Central Client on MDT/laptop. One software CD will be shipped (NOTE: App Central Client may already be loaded on MDT/laptop if your customer already uses Priority Manager and/or Presence Services. You still need to order/purchase both below licenses to use Location Services Functionality).

	Ordering Guide
Windows Location Services Client License	Option T8080A must be selected, followed by CA02614AA (0\$) with the required amount of client licenses. Please order T8326A, followed by the needed bundle below.

Please order T8326A, followed by the needed bundle below.

	Ordering Guide
Add: Location Services Client - 1 License	Please order T8326A, followed by UA00322AA
Add: Location Services Client - Bundle of 10 Licenses	Please order T8326A, followed by UA00323AA
Add: Location Services Client - Bundle of 100 Licenses	Please order T8326A, followed by UA00324AA
Add: Location Services Client - Bundle of 250 Licenses	Please order T8326A, followed by UA00325AA
Add: Location Services Client - Bundle of 500 Licenses	Please order T8326A, followed by UA00326AA
Add: Location Services Client - Bundle of 1,000 Licenses	Please order T8326A, followed by UA00327AA
Add: Location Services Client - Bundle of 2,000 Licenses	Please order T8326A, followed by UA00328AA

Add: Location Services Client - Bundle of 5,000 Licenses	Please order T8326A, followed by UA00329AA
Add: Location Services Client - Bundle of 7,500 Licenses	Please order T8326A, followed by UA00330AA
Add: Location Services Client - Bundle of 10,000 Licenses	Please order T8326A, followed by UA00331AA
Add: Location Services Client - Bundle of 25,000 Licenses	Please order T8326A, followed by UA00332AA
Add: Location Services Client - Bundle of 50,000 Licenses	Please order T8326A, followed by UA00333AA
Add: Location Services Client - Bundle of 100,000 Licenses	Please order T8326A, followed by UA00334AA

If you have questions, please contact [Divyesh Oza](#) or [Jay Schaper](#).

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
CONVERGED SERVICES/APP CENTRAL CLIENT	-	T8080	063	\$0.00
LOCATION SERVICES CLIENT LICENSE	-	T8326	063	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100 LICENSES	-	UA00324AA	063	\$4,900.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00328AA	063	\$80,000.00

ADD: LOCATION CLIENT LEX 755 LIC	-	UA00126AA	063	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00334AA	063	\$1,800,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00330AA	063	\$255,000.00
ADD: LOC CLIENT WINDOWS LIC	-	CA02614AA	063	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00327AA	063	\$43,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 250 LICENSES	-	UA00325AA	063	\$11,750.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00326AA	063	\$22,500.00
ADD: LOCATION SERVICES CLIENT - 1 LICENSE	-	UA00322AA	063	\$53.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00332AA	063	\$650,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00329AA	063	\$185,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00333AA	063	\$1,100,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00331AA	063	\$300,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10 LICENSES	-	UA00323AA	063	\$500.00

Accessories

FRUs/FREs for Hardware

FRUs for Hardware (HP DL380):

FREs for Hardware (HP DL380):

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0245	Priority Management Super Model	063	60
FIXEDSTN	SCB	T8080	CONVERGED SERVICES/APP CENTRAL CLIENT	063	1
FIXEDSTN	SCB	T8326	LOCATION SERVICES CLIENT LICENSE	063	30
QUOTEDS	EXL	TT2838	24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2839	48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2846	24 PORT SWITCH BUNDLE - DC PO	055	20
QUOTEDS	EXL	TT2847	48 PORT SWITCH BUNDLE - DC PO	055	20

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE Customer Dispatch Call Management Service

Ordering Information

General Information

The Motorola Customer Dispatch Call Management Service provides a central point of contract (via a toll free telephone number) to receive customer technical service requests. Upon receiving the customer call, the Dispatch representative contacts the assigned customer technical support resources and dispatches them to the site per specified service level agreement following a documented process for prioritizing and assigning service calls and requests.

The types of service calls included in the LTE Customer Dispatch Call Management Service may include but are not limited to opening a Return Materials Authorization (RMA), dispatching technicians for scheduled preventive maintenance service or dispatching technicians to a network location.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

- Escalation Management
- Activity Reporting
- 24 Hour/365 Day Service Availability
- Computer Aided Dispatch
- Single Point of Contact
- Electronic Case Tracking
- Toll Free Service Number (800) 221-7144

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

LTE Customer Dispatch Call Management Service SOW

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. Dispatch Service requires the purchase of one of the OnSite Infrastructure Response options (Regular, Limited, Premier).
7. Dispatch Service is required if purchasing Network Monitoring Service and customer is Motorola maintained. See below.

	Network Monitoring Service	Technical Support	Dispatch Service	Customer Technician Dispatch	OnSite Infrastructure Response
Motorola Maintained	Required	Not Required	Required	N/A	Required
Customer Maintained (COAM)	Required	Suggested	N/A	Required	N/A

1. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE Dispatch Services		SVC01SVC0217A	114	

	LTE EPC			\$5,172.00
	LTE Redundant EPC (Active)			\$5,172.00
	LTE Redundant EPC (Inactive)			\$5,172.00
	LTE eNodeB			\$138.00
	LTE PSM			\$138.00
	LTE MPTT			\$121.00
	LTE Device Manager			\$138.00
	LTE CPQ			\$1,017.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0217A	LTE DISPATCH SERVICE	0114	

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE Fault Monitoring

Ordering Information

General Information

Through this service, LTE systems are fault monitored 24x7x365. The LTE unified event manager sends Simple Network Management Protocol (SNMP) events to a Manager of Managers so that fault notifications from the entire Motorola system are integrated. When an event is detected, trained technologists acknowledge and assess the situation and initiate an appropriate response per the Customer Support Plan. Appropriate responses could include, but are not limited to, continuing to monitor the event for further development, dispatching of a local field technician, or transferring the event to Technical Support. If dispatched, the field technician will respond at the customer location based on pre-defined severity levels as set forth below.

The LTE Fault Monitoring service provides integration of fault notifications from the entire Motorola system offering and presentation of alarms via a unified alarm manager. When an Event is detected, trained technologists utilizing sophisticated tools for remote monitoring and event characterization will acknowledge and initiate an appropriate response per the Customer Support Plan (CSP).

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

- Customer Support Manager
- Remote Diagnostic & Monitoring
- 24 Hour Monitoring of System
- Escalation Management
- Report Metrics
- 24 Hour/365 Day Service Availability

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Fault Monitoring SOW

Ordering and Contractual Documents

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#).

Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.**

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amount reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE Network Monitoring Service		SVC01SVC0218A	107	
	LTE EPC			\$5,172.00
	LTE Redundant EPC (Active)			\$5,172.00
	LTE Redundant EPC (Inactive)			\$5,172.00
	LTE eNodeB			\$897.00
	LTE PSM			\$897.00

	LTE MPTT			\$897.00
	LTE VOIP			\$897.00
	LTE Device Manager			\$897.00
	LTE CPQ			\$1,017.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0218A	LTE NETWORK MONITORING	0107	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE Hardware Maintenance Plan (HMP)

Ordering Information

General Information

Hardware Maintenance is a repair service for Motorola and select third party equipment. Hardware may be repaired down to the component level, as applicable, at the Motorola Repair Depot. At Motorola's discretion, select third party Hardware will be sent to the original equipment manufacturer or third party vendor for repair. If Hardware is no longer supported by the original equipment manufacturer or third party vendor, Motorola will replace Hardware with similar Hardware, when possible.

Hardware components are defined as all fixed equipment. Hardware repair is provided through Motorola's centralized repair depot, eliminating the need to send equipment to multiple locations. Hardware repair will be performed on field replaceable units (FRU) or field replaceable entities (FREs) for both Motorola and select third party Hardware. At Motorola's discretion, select third party Hardware may be sent to vendor/OEM for repair. If Hardware is no longer supported by the original equipment manufacturer

Features

- Manage Original Equipment Manufacturer (OEM) repair process, coordination, and testing

Statement of Work

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Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[LTE Hardware Maintenance Plan \(HMP\) SOW](#)

Ordering and Contractual Documents

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory

Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.**

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amount reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE HMP		SVC01SVC0222A	069	
	LTe EnodeB			\$1,617.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0222A	LTE HMP	0033	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE On-Site Infrastructure Response Service

Ordering Information

General Information

Motorola On-Site Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Features

- Motorola Technical Expertise
- 24 Hour/365 day service availability
- On-site Motorola Authorized Servicer
- Preventative maintenance check

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[OnSite Infrastructure Response and Dispatch Service SOW](#)

Ordering Requirements

1. This product cannot be ordered directly through COF at this time. Please

contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.

2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. You may purchase Network Monitoring Service along with OnSite Infrastructure Response. however, you **MUST** purchase Dispatch Service when you purchase OnSite Infrastructure Response.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE On-site Infrastructure Response		SVC01SVC0216A	882	
	LTE EPC			\$5,431.00
	LTE Redundant EPC (ACTIVE)			\$5,431.00
	LTe eNodeB			\$862.00
	LTE PSM			\$862.00
	LTE MPTT			\$862.00
	LTE Device Manager			\$862.00
	LTE CPG			\$1,068.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0216A	LTE ONSITE INFRASTRUCTURE RESPONSE	0882	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE SIM Card

Ordering Information

Features

Standard SIM (2FF)

- Second Generation Form Factor, plug-in SIM (Subscriber Identification Module)
- Compatible with all Motorola Class A, B, and C devices
- Hardened plastic and electronics for use in harsh environments
- Operating temperature -40°C to +105°C
- 512K flash
- Fully compliant with 3GPP Standards
- Optimized for use on a Motorola Public Safety or Private LTE network
- USIM (Universal Subscriber Identification Module) for LTE service
- ISIM (IP Multimedia Services Identity Module) for IMS service
- Programmed/encoded with a custom SIM profile

Triple SIM (2FF/3FF/4FF)

- Triple SIM form factor, plug-in SIM (Subscriber Identification Module)
- Compatible with all Motorola Class A, B, and C devices
- Operating temperature -25°C to +85°C
- 512K flash memory
- Fully compliant with 3GPP Standards
- Optimized for use on a Motorola Public Safety or Private LTE network
- USIM (Universal Subscriber Identity Module) for LTE service
- ISIM (IP Multimedia Services Identity Module) for IMS service
- Programmed/encoded with a custom SIM profile

General Information

The SIM card, also known as a Universal Integrated Circuit Card (UICC), is a next generation subscriber identification module used in 3G and 4G devices. The SIM/UICC is a type of smart card, used in mobile or wireless devices, which contains an on-board computer or microprocessor, as well as its own data storage/memory and software.

The SIM is your "identity" for the Public Safety or Private LTE network. The USIM application, resident on the SIM card, is used to authenticate a device/user to the LTE network, and identifies who the user is and his/her service plan. Once authenticated, the user is granted LTE service. The SIM card also contains an application for storing personal contact information and preferred roaming partners, as well as user confidential information, such as network authentication keys. The ISIM application, also resident on the SIM card, is used to authenticate a device/user to the IMS (IP Multimedia Subsystem) network. Once authenticated, the user is granted IMS service. Both USIM and ISIM applications co-exist on

the same SIM card.

In addition to the USIM and ISIM applications, each SIM card contains a unique, optimized and personalized SIM profile, designed to operate on a Motorola Solutions Public Safety or Private LTE network. The SIM profile is personalized with network specific information, including but not limited to, the PLMN (Public Land Mobile Network) ID, IMSI, network authentication keys, and algorithm constants.

SIM profile creation is a joint effort between Motorola Solutions and the LTE Operator. The network operator and Motorola work together to define the personalization parameters for the SIM profile. Once defined, the customized profile will be programmed/encoded each time a SIM card is ordered. All devices operating on a Motorola LTE network require a SIM card. Motorola SIM cards should ONLY be used with Motorola LTE devices. The SIM card can be ordered when a new device is purchased, or independent of any device orders.

All Motorola Band Class 14 VML devices use a Standard SIM card (2FF). Most of the Motorola Band Class 14 LTE hand held devices use a Triple SIM card.

Motorola Band Class 13 devices do not use an LTE SIM card from Motorola. For Band Class 13 devices, the SIM card must be provided by the Band Class 13 network operator. Please reference the device pricing page for additional information.

Ordering Requirements

When ordering only one SIM card profile for a given SIM card (2FF or Triple SIM), please follow the steps below:

1. Contact [LTE Product Management](#) to identify which SIM profile option is required for the customer.
2. Select model T7770B, and specify the quantity of SIM cards required.
3. Enter the SIM profile option that was provided to you by Product Management.
 - Only one SIM profile option can be entered when ordering model T7770B
4. Specify the quantity for the selected SIM profile option
 - The quantity for the SIM profile option MUST equal the quantity that was entered for model T7770B (LTE SIM card). See example below:

Example:

Order Line 1: (Quantity 5) T7770B (LTE SIM Card)

Order Line 1a: (Quantity 5) VAxxxxxAB (LTE Profile Option)

For the above example, five (5) SIM cards will be programmed and shipped. The quantities are the same for both model (T7770B) and profile option (VAxxxxxAB).

When ordering multiple SIM profiles for multiple SIM cards (2FF and/or Triple SIM), please follow the steps below:

1. Contact [LTE Product Management](#) to identify which SIM profile option is required for the customer.
2. Select model T7770B, and specify the quantity of SIM cards required.
3. Enter the SIM profile option that was provided to you by Product Management.
 - Only one SIM profile option can be entered when ordering model T7770B

4. Specify the quantity for the selected SIM profile option
 - The quantity for the SIM profile option MUST equal the quantity that was entered for model T7770B (LTE SIM card).

5. For each additional SIM card and SIM profile, repeat steps #2, #3, and #4.
 - Each new SIM card and SIM profile MUST be entered as separate line items. See example below.

Example:

Order Line 1: (Quantity 4) T7770B (LTE SIM Card)

Order Line 1a: (Quantity 4) VAxxxxxAB (SIM Profile Option)

Order Line 2: (Quantity 15) T7770B (LTE SIM Card)

Order Line 2a: (Quantity 15) VAxxxxxAB(SIM Profile Option)

For the above example, four (4) SIM cards with SIM profile option VAxxxxxAB, and fifteen (15) SIM cards with SIM profile option VAxxxxxAB, will be programmed and shipped. The quantities are the same for both model and profile options.

Configuration

Models

Model

Description	Full Description	Nomenclature	APC	Price
LTE SIM Card	-	T7770	057	\$0.00

Options

Options:

2FF/Triple SIM Profile Options

Please contact [LTE Product Management](#) to receive your 2FF and/or Triple SIM Profile Options.

Price per SIM Profile Option is \$50 each. Volume discounts may apply based on order quantity. [LTE Product Management](#) should be contacted for additional information.

Ship Card



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Product Type	FC	Nomenclature	Description	APC	Lead Time
DRPSHP	SCB	T7770	LTE SIM Card	057	70

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE Site Preventive Maintenance Service

Ordering Information

General Information

The Motorola Site Preventive Maintenance Service provides scheduled inspection and correction of minor problems at LTE eNB sites to minimize the possibility of failure on an LTE network. The purpose of preventive maintenance service is to ensure that the LTE eNB base stations and their installation as well as the surrounding site continue to meet original manufacturer specifications and to confirm that all critical parts of the site are fully operational.

Preventive maintenance service will be performed approximately once per year for each site as part of the overall Operations and Maintenance program for an LTE network.

Motorola's technicians have access to engineering design teams and multiple technology experts. The technicians are equipped with detailed checklists.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

- Trained Technical Experts on-site
- Preventive Maintenance Check List
- Access to local Motorola servicer
- Provides interface to Motorola

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[LTE Site Preventive Maintenance](#)

Ordering and Contractual Documents

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Customer Support Manager (CSM) if you are interested in ordering this product.

1. All dollar amounts reflect an annual one year pricing.
2. Enter the main line item as quantity one.
3. Options are required as sub-items, with the quantity equal to the option description.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE Preventive Maintenance		SVC01SVC0339A	769	
	LTE eNodeB			\$1,186.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0339A	LTE PREVENTIVE MAINTENANCE	0769	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE Technical Support Service

Ordering Information

General Information

Technical Support service provides continuous centralized remote telephone support for technical issues that require a high level of LTE communications system expertise for troubleshooting on LTE equipment. Once a trouble call or a monitoring event is received, Motorola begins diagnosis of the event by interrogating the LTE system, running appropriate diagnostics, characterizing the problem, and remotely restoring the affected device or subsystem. If a remote fix is not possible, a field technician will be dispatched to the site. The field technician contacts Technical Support to obtain the current status, available diagnostic results, and the assessment of the failure. Motorola will engage internal and Vendor engineering resources, as required, to resolve the issue.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

- Remote Diagnostic & Troubleshooting
- Access to Motorola Technical Expertise
- Laboratory Simulation of System Issues
- 24 Hour/365 Day Service Availability

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[Technical Support SOW](#)

Ordering and Contractual Documents

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Customer Support Manager (CSM) if you are interested in ordering this product.

1. Technical Support can be supported and configured **only** on a complete system basis. Please include all sites when quoting a system for Technical Support. Technical Support cannot be ordered on standalone components or selected sites. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
2. Enter the main line item as quantity one.
3. Options are required as sub-items, with the quantity equal to the option description.
4. All dollar amounts reflect an annual one year pricing.
5. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
LTE Technical Support		SVC01SVC0219A	047	
	LTE EPC			\$12,069.00
	LTE Redundant EPC (ACTIVE)			\$12,069.00
	LTE Redundant EPC (INACTIVE)			\$12,069.00
	LTE eNodeB			\$259.00
	LTE PSM			\$259.00
	LTE MPTT			\$259.00
	LTE Device Manager			\$259.00
	LTE CPG			\$2,373.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0219A	LTE TECHNICAL SUPPORT	0048	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LXN 6000 LTE Deployable Infrastructure

Ordering Information

Features

The LTE Deployable provides a scalable solution that quickly delivers LTE connectivity where and when you need it.

- **Supports Mission Critical Operations:** Provides access to fast mobile broadband connectivity with real-time access to voice, video, data and chat.
- **Fast Deployment:** Set up and go live in less than one hour.
- **Standards-Based Technology:** Ensure operability with equipment from multiple vendors.
- **Scalability and Expandability:** Operate standalone or connect to another network.
- **Superior RF Coverage:** High performance LTE devices and macro base stations provide significantly greater coverage.
- **Centralized Operations and Management:** A comprehensive and centralized network configuration, subscriber provisioning, network performance & monitoring and provisioning solution, along with local alarm monitoring capability.
- **High Availability:** The high reliability of the Evolved Packet Core and base station together contributes to greater than 98% availability.

For complete product information, please see the Deployable spec document: <http://compass.mot-solutions.com/doc/514185246/lte-deployable-infrastructure-solutions-data-sheet.pdf>

General Information

When disaster occurs, either man-made or natural, the existing commercial carrier infrastructure can quickly become overloaded, damaged or completely destroyed. It is in times like this when public safety and government agencies, and various federal civilian and commercial operations, rely on their networks the most. These networks need to be restored quickly and or augmented so that first responders and other personnel can proceed with intelligence and get the job done quicker, safer, and smarter.

In order to augment an overloaded, damaged or destroyed network, Motorola Solutions offers a robust deployable infrastructure platform capable of being deployed in various form factors, to quickly and easily create an ad hoc standalone network, or used to add capacity and coverage of an existing network to a disaster zone, incident area or special event.

Ordering Requirements

The deployable system consists of Deployable Server Hardware Kits, and a Software Kit, which is installed on the hardware kits. These two items are mandatory when ordering the LTE Deployable system.

For a new/greenfield set-up, order the supermodel SQM01SUM0297A. This includes:

(Qty 1) Deployable Server Hardware Kits

(Qty 1) Deployable Software Kit

In addition, please select the following mandatory items:

- Deployable Software Licenses
 - Please see the table below for LTE Deployable Software Tiers and select the appropriate license tier that is required.
- LTE Deployable EMS - Per eNB Licenses
 - Please select the correct number of EMS licenses based on the number of eNBs that are being connected to the deployable system.

Please also order a switch if there are multiple eNBs that will be connected to the Deployable system. The product offering may be found under PS LTE "Networking & Transport" in eCAT.

* **Please note:** Power is not included.

**Average lead time, from point of order placement, is 6 weeks (this does not include eNodeB).

Configuration

Models

* **Please Note:** Applications are not included in this pricing and will be priced separately.

Deployable Supermodel:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 BASE HARDWARE & EMS SOFTWARE	-	SQM01SUM0297	060	\$107,730.00

Deployable Software License Tiers:

Description	Full Description	Nomenclature	APC	Price
ADD: LXN EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00448AA	060	\$79,390.00

ADD: LXN EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00449AA	060	\$97,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00450AA	060	\$126,850.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00451AA	060	\$156,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00452AA	060	\$186,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1500 SUBS	-	UA00453AA	060	\$245,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00454AA	060	\$304,850.00

LTE Deployable per eNB License:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 ENB LICENSE	-	T8367	060	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	056	\$950.00

LTE Deployable Incremental per eNodeB License:

Description	Full Description	Nomenclature	APC	Price
INCREMENTAL LXN PER ENB LICENSE	-	T8396	060	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	056	\$950.00

Options

eNB Types (bands):

Please select your eNodeB from the pCAT pages located by placing "eNodeB" in the Product Catalog search window. If you have space constraints, order the Remote Radio Head-based eNodeB. Please note that the Deployable will support up to 15 eNodeBs. Other eNodeBs may be selected, with the exception of IPSec.

When ordering eNodeBs for the deployable, the following GPS kit is mandatory:

GPS Kit

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	051	\$572.00
GPS ANTENNA CABLE	-	DDN1885	066	\$3,381.00

Antenna Kit

Please visit the ["Site Ancillary" page](#) in the Product Catalog.

Battery Backup

Please visit the ["RF Site Battery Backup System" page](#) in the Product Catalog.

Expansion for LTE Deployable Software Tiers

Description	Full Description	Nomenclature	APC	Price
LXN EPC & SUB PROVISIONING EXP LICENSE - 100 TO 250 SUBS	-	T8352	060	\$19,580.00
LXN EPC & SUB PROVISIONING EXP LICENSE - 250 TO 500 SUBS	-	T8353	060	\$32,050.00
LXN EPC & SUB PROVISIONING EXP LICENSE - 500 TO 750 SUBS	-	T8354	060	\$32,050.00
LXN EPC & SUB PROVISIONING EXP LICENSE - 750 TO 1000 SUBS	-	T8355	060	\$32,050.00
LXN EPC & SUB PROVISIONING EXP LICENSE - 1000 TO 1500 SUBS	-	T8356	060	\$62,890.00
LXN EPC & SUB PROVISIONING EXP LICENSE - 1500 TO 2000 SUBS	-	T8357	060	\$62,890.00

Ship Card



Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ESC	DDN1884	GPS ANTENNA KIT	051	80
QUOTEDS	ERS	DDN1885	GPS ANTENNA CABLE	066	80
SYSPERIPH	SCB	SQM01SUM0297	LXN 6000 BASE HARDWARE & EMS SOFTWARE	060	50
SYSPERIPH	SCB	T8352	LXN EPC & SUB PROVISIONING EXP LICENSE - 100 TO 250 SUBS	060	50
SYSPERIPH	SCB	T8353	LXN EPC & SUB PROVISIONING EXP LICENSE - 250 TO 500 SUBS	060	50
SYSPERIPH	SCB	T8354	LXN EPC & SUB PROVISIONING EXP LICENSE - 500 TO 750 SUBS	060	50
SYSPERIPH	SCB	T8355	LXN EPC & SUB PROVISIONING EXP LICENSE - 750 TO 1000 SUBS	060	50
SYSPERIPH	SCB	T8356	LXN EPC & SUB PROVISIONING EXP LICENSE - 1000 TO 1500 SUBS	060	50
SYSPERIPH	SCB	T8357	LXN EPC & SUB PROVISIONING EXP LICENSE - 1500 TO 2000 SUBS	060	50
SYSPERIPH	SCB	T8367	LXN 6000 ENB LICENSE	060	4
SYSPERIPH	SCB	T8396	INCREMENTAL LXN PER ENB LICENSE	060	4

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JUMP TO ...**MODEL****ORDERING
INFORMATION****CONFIGURATION****SHIP CARD****Model**

Essential Service For Broadband Infrastructure**Ordering Information**

Executive Summary

The Essential Service for Broadband Infrastructure is a new Services Package offer for the LTE Infrastructure products, including: RAN, Core, OSS, transport, and Priority Manager products plus additional infrastructure items such as IMS/VoLTE, SIM card management, etc. The package includes Hardware Maintenance, Remote Technical Support, and Software Maintenance Agreement (SMA) services. It is available as of July 1, 2017 in the Americas and Asia/Pacific regions.

Additional Documentation

Additional information on the Essential Service for Broadband Infrastructure Service Offer may be found at www.motorolasolutions.com/sales <select Services and then Infrastructure>. Included at this site are presentations and other materials to assist you in the learning and selling processes.

Service Offer Description

The Services Package offer for the LTE Infrastructure products, including: RAN, Core, OSS, transport, and Priority Manager products plus additional infrastructure items such as IMS/VoLTE, SIM card management, etc. The package includes Hardware Maintenance, Remote Technical Support, and Software Maintenance Agreement (SMA) services.

Hardware Maintenance support includes on-site repair and/or repair and replacement services depending on the network element type. There is no Advanced Exchange service in the current package.

Remote Technical Support includes Motorola Service Desk, SSC, and Level 3 Engineering Support from the CSE Organization. Where applicable, support is also provided by our 3rd Party Vendors Technical Support Organization. It is important to have remote connectivity to the SSC for effective and efficient troubleshooting. CSMs should notify the on-boarding team shortly after the customer support agreement is complete and request delivery of the Juniper 250 router. CSMs should also make sure that customers account for preparation of an Internet Service Provider (ISP) and MVPN in preparation for service delivery. In the instance where remote connectivity is not permitted, customers should purchase a dispatch service. This services provides Motorola services to dispatch a Motorola technician to address diagnostic and recovery activities.

Software Maintenance Agreement (SMA) provides Software Updates (Patches) and Upgrades (Major Releases) for the Motorola sold Infrastructure. Labor is not included and must be quoted separately. LTE Updates and Upgrades are released per Motorola's

roadmap at our discretion.

Currently there is no formal SwSP for Broadband Infrastructure; however, the following guidelines apply and are expected to be adopted:

LTE RAN/Core	Standard Support	Y+18 months
	Extended Support	Y+24 months
Motorola Products	Standard Support	Y+12 months
(ex OSP, Priority Mngr)	Extended Support	Y+18 months

Note that Broadband Infrastructure SMA DOES NOT include Self Installed security patches as with Astro. Security updates are evaluated by engineering on a quarterly basis and included in SW Updates per Motorola's roadmap. The package also does not currently include MyView Essential. MyView will be provided upon service availability.

Refer to the North America Managed and Support Services website for the Package SOW. <https://sites.google.com/a/motorolasolutions.com/lifecycle-support-services/> (under Infrastructure Services > Support Packages > Broadband Infrastructure) for further details.

Configuration

Service Offer Part Numbers

The following part numbers reflect the primary Essential Service for Broadband Infrastructure package offers. LTE Essential requires item 1 (SMA) and either Item 2 or 3. Items 3a/3b/3c are options when no remote connectivity is available. CSMs should include an on-site service unless the customer has strong and proven LTE technical support services. Item 4 is required for all OnSite options.

Note that the LTE Services Configurator is managed by the Vipul Shah presale Capture Management team. All request for services quotes shall be initiated into this team based on your regional representatives.

Due to the nature of our 3rd Party Vendor costs - LTE Essential services support agreements must be for a minimum of 1 year and customer P.O.s must be non-cancellable.

Description	Full Description	Nomenclature	APC	Price
BROADBAND SMA	(This must be purchased with any of the following LTE System Essential offerings.)	SVC01SVC0456A	0688	\$0.00
LTE ESST W/RMT CONN	LTE SYSTEM ESSENTIAL with REMOTE CONNECTIVITY with HW Maint, and Tech Support	LSV04S00667B	0941	\$0.00

Product Type	FC	Nomenclature	Description	APC	Time
HW_MAINTENANCE	US7	LSV04S00667B	LTE ESST W/RMT CONN	0941	
HW_MAINTENANCE	US7	LSV04S00668B	LTE ESST W/O RMT CONN ONSS	0941	
HW_MAINTENANCE	US1	LSV04S00810A	LTE ESST W/RMT CONN ONSL	0941	
HW_MAINTENANCE	US1	LSV04S00811A	LTE ESST W/O RMT CONN ONSL	0941	
HW_MAINTENANCE	US1	LSV04S00812A	LTE ESST W/RMT CONN ONSP	0941	
HW_MAINTENANCE	US1	LSV04S00813A	LTE ESST W/O RMT CONN ONSP	0941	
HW_MAINTENANCE	US1	LSV04S00814A	LTE ESST W/RMT CONN ONSS	0941	
LTE_SUA	U01	SVC01SVC0456A	BROADBAND SMA	0688	

JUMP TO ...

MODEL

GENERAL INFORMATION

FEATURES

LXN 7100 HARDWARE

ORDERING REQUIREMENTS

MODEL

LXN 7100 LTE ENTRY LEVEL FIXED CORE INFRASTRUCTURE

GENERAL INFORMATION

Motorola Solutions LXN 7100 LTE Entry Level Fixed Core is a framework for virtualizing the functions required to converge voice and data on 4G Long-Term Evolution (LTE) networks. vEPC moves the core network's individual components that traditionally run on dedicated hardware to software that operates on low-cost commercial off-the-shelf (COTS) servers. What differentiates vEPC from the evolution of EPC itself is the decoupling of software from hardware. vEPC breaks apart from the purpose built solutions of the past. Motorola Solutions LXN 7100 LTE Entry Level Fixed Core started from a clean slate instead of simply transforming and augmenting the functionality of legacy purpose built software as the mobile network evolved from 3G to 4G. The design and implementation is a solution that naturally fits into the decoupled architecture envisioned in the NFV model expected of modern solutions. By virtualizing evolved packet core (EPC) functionality, Motorola Solutions can customize networks to meet the unique requirements of individual customers, mixing and matching individual network components as needed. vEPC can also lower Capex and Opex by reducing reliance on specialized hardware, while speeding service delivery and allowing for on-demand scalability and responding to real-time network conditions and user needs. The virtual EPC abstracts and decomposes the various EPC functions and allows them to run in unique combinations on standard COTS servers.

FEATURES

The LTE Entry Level Fixed Core Infrastructure provides a scalable solution that is well suited for an entry level core infrastructure complete with features and competitive in the market.

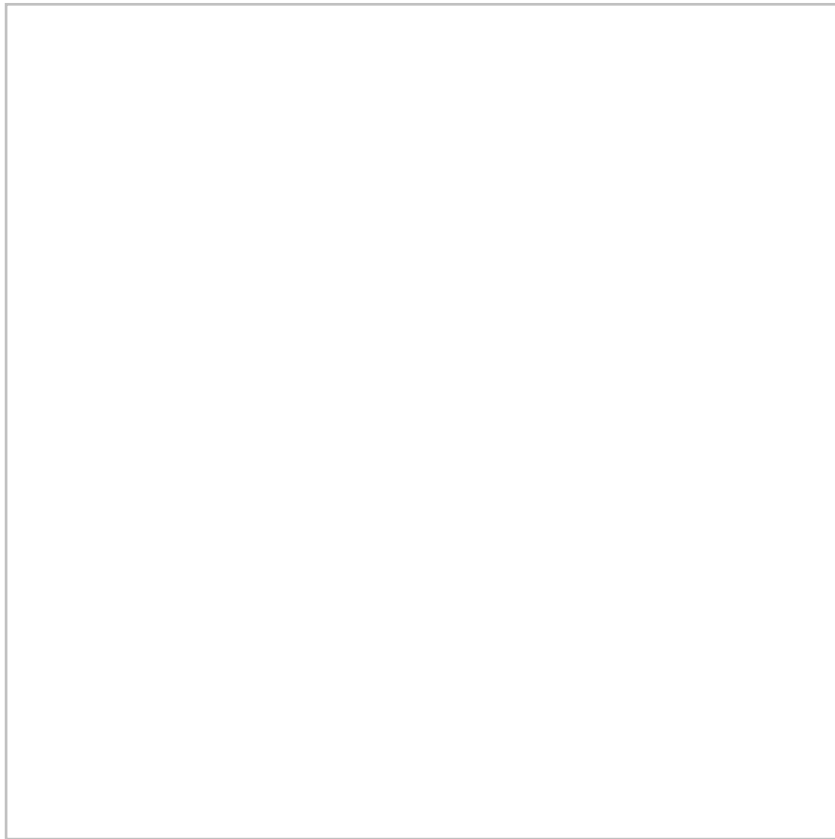
- **Standards-Based Technology:** Ensure operability with equipment from multiple vendors.
- **Scalability and Expandability:** Starts small and can be expanded as needed based on customer demands.
- **Superior RF Coverage:** High performance LTE devices and macro base stations provide significantly greater coverage.
- **Centralized Operations and Management:** A comprehensive and centralized network configuration, subscriber provisioning, network performance & monitoring and provisioning solution, along with local alarm monitoring capability.
- **High Availability:** Provides local or geo redundancy for unplanned outages. The high reliability of the Evolved Packet Core and base station together contributes to greater

than 98% availability.

- Centralized syslog message collection within LXN 7100 and from remote instances (eNodeBs and other RAN transport equipment)
- Forwarding syslog messages to an optional external customer-provided syslog server
- Maximum of 2000 users/subscribers supported.
- Throughput supported is upto 500 Mbps.
- LXN 7100 supports upto 50 eNodeBs at the maximum.
- Supports Mission Critical Operations: Provides access to fast mobile broadband connectivity with real-time access to voice, video, data and chat.
- Support for roaming and MVNO architecture.

LXN 7100 HARDWARE

The LXN 7100 Hardware servers are the most flexible, reliable, and performance-optimized rack servers providing industry-leading compute innovations. The LXN 7100 server comes with flexible choices and versatile design, along with improved energy efficiencies, ultimately lowering your TCO. Integrated with a simplified, but comprehensive management suite and industry-leading support, the LXN 7100 server delivers a more reliable, fast, and secure infrastructure solution, helps increase productivity, and accelerate service delivery. In addition, the LXN 7100 server hardware is performance-optimized for multi-application workloads to significantly increase the speed of operations and enable customers to respond to business needs of any size, faster.



LXN 7100 hardware specifications:

- CPU Two – 2.5GHz/12-core/30MB/120W
- Main Memory 128GB
- Storage 1TB SSD
- Networking 4 x 1 GbE embedded
- Power and Cooling Hot Plug Power, High Performance Fans
- Dimensions 1.7" (4.32cm) Height x 17.11" (43.47cm)
- Width x 27.5" (69.85cm) Length
- Weight 27 lbs (12.25 kg)
- Form Factor 1U
- Throughput 500 Mbps

For complete product information, please see the spec document: xxxxxxxx

ORDERING REQUIREMENTS

The LXN 7100 LTE Entry Level Fixed Core Infrastructure system consists of Server Hardware Kits, and a Software Kit, which is installed on the hardware kits, software license and the high availability options. These three items are mandatory when ordering the LTE Deployable system.

For a new/greenfield set-up, order the supermodel SQM01SUM0325A.

This includes:

(Qty 2) Server Hardware Kits

(Qty 1) Software Kit

In addition, please select the following mandatory items:

- High Availability Options: Local or Geo Redundant
- Software Licenses Tiers
 - Please see the table below for LTE Software Tiers and select the appropriate license tier that is required.
- LTE EMS - Per eNB Licenses
 - Please select the correct number of EMS licenses based on the number of eNBs that are being connected to the system.

* Please note: Power is not included.

**Average lead time, from point of order placement, is 8 weeks (this does not include eNodeB).

Configuration

Models

* **Please note:** Applications are not included in this pricing and will be priced separately.

LXN 7100 Supermodel

Description	Full Description	Nomenclature	APC	Price
LXN 7100 FIXED CORE	-	SQM01SUM0325	060	\$165,000.00

High Availability Options

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Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7100 HA LOCAL REDUNDANCY LICENSE KIT	-	UA00713AA	060	\$50,500.00
ADD: LXN 7100 HA GEO REDUNDANCY LICENSE KIT	-	UA00714AA	060	\$50,500.00

Software License Tiers

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00716AA	060	\$140,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00717AA	060	\$145,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00718AA	060	\$155,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00719AA	060	\$165,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00720AA	060	\$186,190.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00722AA	060	\$236,190.00

LXN per eNodeB License

Description	Full Description	Nomenclature	APC	Price
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	056	\$950.00

Narrow Band - IoT

This section will enable to order any NB-IOT licenses for the LXN 7100.

There are two licenses required for NB-IOT functionality to work.

One time NB-IOT enablement license
Number of IOT end point licencing based on tiers (to be added later)

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7100 NB-IOT LICENSE FOR EPC	LXN 7100 NB-IOT one time enablement license	UA00729AA	060	\$40,000.00

Options

eNB Types (bands)

Please select your eNodeB from the pCAT pages located by placing "eNodeB" in the Product Catalog search window. If you have space constraints, order the Remote Radio Head-based eNodeB. Please note that the LXN 7100 will support up to 50 eNodeBs. When ordering eNodeBs for the LXN 7100, the following GPS kit is mandatory:

GPS Kit

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	051	\$572.00
GPS ANTENNA CABLE	-	DDN1885	066	\$3,381.00

Antenna Kit: Please visit the "Site Ancillary" page in the Product Catalog.

Battery Backup: Please visit the "RF Site Battery Backup System" page in the Product Catalog.

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE On-Site Infrastructure Response Limited and Dispatch Service

Ordering Information

General Information

Motorola On-Site Infrastructure Response Limited provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Features

- Motorola Technical Expertise
- On-Site Motorola Authorized Servicer
- Preventive maintenance check
- 8 x 5 business days per week
- Regular business hours service availability

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[On-Site Limited and Dispatch Service SOW](#)

Ordering Requirements

1. This product cannot be ordered directly through COF at this time. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. You may purchase Network Monitoring Service along with OnSite Infrastructure Response. however, you **MUST** purchase Dispatch Service when you purchase OnSite Infrastructure Response.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

SVC01SVC0214C	Full Description	Nomenclature	APC	Price
LTE On-site Infrastructure Response Limited		SVC01SVC0214A	882	
	LTE eNODEB			\$603.00
	LTE Redundant EPC (Active)			\$1,810.00
	LTE PSM			\$530.00
	LTE MPTT			\$603.00
	LTE Device Manager			\$603.00
	LTE EPC			\$1,810.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0214A	LTE ONSITE INFRASTRUCTURE RESPONSE LMTD	0882	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Public Safety LTE

Rekeying Utility 'RKU'

Ordering Information

Features

UICC Personalization for High Security Conscious Customers:

The Rekeying Utility (RKU) gives Public Safety Broadband customers sole control over SIM card programming. The RKU was created as a way for customers to personalize and manage universal subscriber identity module (USIM) cards for mobile network users. Specifically, the RKU allows customers to create USIM card electronic profiles for a wireless network and its users, edit those profiles or retire them when they are no longer active, and personalize USIM cards to a particular owner. The LTE SIM cards used for RKU are preloaded with a generic profile that is personalized by the customer. Please contact the Product Manager if the RKU customer requires a new generic profile (requires SW update, Test, and new LTE SIM cards with the new profile).

Features and Specifications:

The RKU has three types of users: Operators; Administrators; Super Administrators. The three roles, in the order presented, grant increasing access to RKU functionality. Each user's basic responsibilities, permissions, and relevant end user documentation are presented below.

The RKU Client

The RKU Client is where Operators take generic USIM cards purchased from a vendor and personalize them for distribution to mobile network users.

The RKU Web Interface

The RKU Web Interface is where high-level users manage RKU data behind the scenes. The Web Interface is a browser-based extension to the RKU that allows administrative users to manage RKU data and to generate reports and queries. The tasks a user can perform depend on whether he or she is a Super Administrator, Administrator, or Operator.

Components in the RKU Solution

The RKU can be divided into frontend or backend components depending on where they are physically located. The client-server structure of the RKU means that one backend system is capable of supporting multiple frontends. The backend consists of the following components: a Database; a SafeNet Hardware Security Module (HSM); and a RKU Server. The backend

is located in a secure environment and is connected to the frontend.

For the personalization process, the RKU Server retrieves and stores all the information requested by the RKU Client from both the Database and the SafeNet HSM. Once the personalization job is completed, the RKU Server generates the necessary output files for provisioning of the cards. The frontend consists of the following components: one or more RKU Clients used to personalize cards; the Fargo HDP5000 Card Printer with an internal card encoder for personalizing the digital information of a card, and an optional graphical personalization tool for displaying visuals on the card body.

Communication Methods:

Users can configure each customer profile to send output files in one of three methods: email; manual; Google Drive ®. The method used determines how the RKU Client prompts a user following a successful USIM card personalization job.

Hardware Security Modules

High security conscious customers using the RKU, will use the hardware security modules to generate random keys for provisioning encryption, decryption. authentication to protect transactions, identities, and applications because the HSM excels at securing cryptographic keys and provisioning encryption, decryption, authentication, and digital signing services for a wide range of application. The HSM is a dedicated system that physically and logically secures cryptographic keys and cryptographic processing. As a standalone network-attached application, it is a crucial element in protecting digitized information.

As purpose built appliances, the HSM automatically include the hardware and firmware (i.e. software) necessary for these functions in an integrated package. Physical and logical protection of the appliance is supported by a tamper resistant/evident shell; and protection from logical threats, supported by integrated firewall and intrusion prevention defenses.

In the RKU solution, and HSM is used to perform the following:

- [P] Key generation
- [P] Key derivation
- [P] Encryption of data
- [P] Signature generation
- [P] Secure storage of the Master Personalization Key
- [P] Secure storage of customer's OP value

As part of the personalization process, the HSM generates all the keys, PINs, PUKs, and authentication parameters for personalization of USIM cards. In addition, the HSM secures the data requested by the RKU Client via an encryption and authentication key so that at no point is sensitive data exposed during the personalization process.

The SafeNet Luna SA 1700 (Ethernet-attached Hardware Security Module (FIPS L3)) is recommended for use with the RKU. For information on its functionalities and specifications, visit <https://safenet.gemalto.com/data-encryption/hardware-security-modules-hsms>.

Printer/Encoder

The card printer is the component where the electrical and graphical personalization is performed. The RKU Client, after receiving and processing all the necessary data from the RKU Server, connects to the card printer for personalization of a card.

[P] The printer supports a single or dual hopper to accommodate different card form factors.

[P] The printer supports a single or dual output stacker.

[P] A card reader is supported for personalization with encoding without printing.

The Fargo HDP5000 High Definition Printer/Encoder is recommended for use with the RKU Client. For information on its functionalities and specifications, refer to the manufacturer documentation included with the RKU installation package or visit <https://www.hidglobal.com/products/card-printers/fargo/hdp5000>.

General Information

RKU Client describes the core functionality of the RKU - personalizing USIM Cards for use by customers. There are specific operating requirements required for the RKU solution. To get your computer ready to install and run the RKU, the following hardware and software is recommended for each component of the RKU:

Component	Manufacturer	Model	Description
Card Printer	HID	Fargo HDP5000	Card printer and encoder with 64-bit OS support
HSM	SafeNet	SAFENET Luna 1700	Ethernet-attached Hardware Security Module (FIPS L3)
Database	MariaDB	MariaDB	Standard 64-bit database
RKU Server	Microsoft	Windows Server 2012 R2	
RKU Client	Microsoft	Windows 7, 8, 8.1, or 10	
Web Browsers	Microsoft, Mozilla, or Google	Internet Explorer	
	Mozilla	Firefox	
	Google	Chrome	
Software Framework	Microsoft	.Net Framework 3.5	
Barcode Scanner	INATEK	BCST-20	

Ordering Information

Order the supermodel **SQM01SUM0306A** for Software and Capacity licenses.

Select the Rekeying Utility Application license (T8415A), and then select the application license (UA00531AA). See below:

- 1 - T8415A - REKEYING UTILITY (RKU) APPLICATION
- 1 - UA00531AA - RKU APPLICATION LICENSE

Next, order the SIM Capacity license (T8417A), and then select the number of subscriber SIM Cards to be provisioned according to the selected capacity license. Minimum quantity is 1. Price reductions are reflected after 50,000 SIM capacity licenses are purchased. Contact PdM for quantities beyond 100,000 per customer account.

- 1 - T8417 - RKU SIM CAPACITY LICENSE & OPTIONS
- PER - UA00529AA - SIM CAPACITY LICENSE 1-49,999
- PER - UA00530AA - SIM CAPACITY LICENSE 50,000-100,000

Then, order the below Hardware components:

- 1 - DDN2277A - SAFENET LUNA SA 1700 LOCAL PED BNDL
- 1 - DDN2278A - SAFENET HSM MODULE POWER CABLE
- 1 - DDN2281A - HID FARGO HDP5000 BASE MODEL PRINTER/ENCODER, W/DUAL INPUT HOPPER
- 1 - DDN2280A - FARGO PRINTER CLEANING KIT
- 1 - DDN2295A - OMNIKEY 3121 SMART CARD READER (SCR) (OPTIONAL)

Then, based on the quantity of SIM cards required, order:

- 1 - DDN2320A - FARGO YMCKH FULL COLOR RIBBON (prints Quantity 500 of cards)
- 1 - DDN2305A - HID FARGO PRINTER RETRANSFER FILM (prints Quantity 1500 of cards)

* Please note that when ordering DDN2279 RKU PRINTER YMCKK RIBBON F/HDP500 and DDN2305 HID FARGO PRINTER RETRANSFER FILM, that user will need to calculate the quantity of ribbons required, based on SIM Capacity required for the customer.

Part Number and Description Prints per Ribbon	Approx. Number of
DDN2279 - SKU PRINTER YMCKK RIBBON F/HDP500	500
DDN2305 - HID FARGO PRINTER RETRANSFER FILM	1500

Configuration

Models

Rekeying Utility:

Description	Full Description	Nomenclature	APC	Price
REKEYING UTILITY (RKU)	-	SQM01SUM0306	056	\$0.00
RKU APPL	-	T8415	056	\$0.00
ADD: APPL LICENSE, RKU	-	UA00531AA	056	\$75,000.00

SIM Capacity:

Description	Full Description	Nomenclature	APC	Price
ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00529AA	056	\$8.00
ADD: 50000-99,999 SIM CAPACITY LICENSE	-	UA00530AA	056	\$6.00
RKU SIM CAPACITY	-	T8417	056	\$0.00

RKU Hardware:

Description	Full Description	Nomenclature	APC	Price
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	056	\$45,970.00
SAFENET HSM MODULE POWER CABLE	-	DDN2278	056	\$40.00
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	056	\$421.00
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	056	\$40.00
RKU PRINTER CLEANING KIT	-	DDN2280	056	\$90.00
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	056	\$8,110.00
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	056	\$206.00

SIM Capacity Expansion:

Description	Full Description	Nomenclature	APC	Price

ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00564AA	056	\$8.00
ADD: 50000-99999 SIM CAPACITY LICENSE	-	UA00565AA	056	\$6.00
RKU SIM CAPACITY EXPANSION	-	T8440	056	\$0.00

Spares

FRU:

Description	Full Description	Nomenclature	APC	Price
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	056	\$45,970.00
SAFENET HSM MODULE POWER CABLE	-	DDN2278	056	\$40.00
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	056	\$421.00
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	056	\$40.00
RKU PRINTER CLEANING KIT	-	DDN2280	056	\$90.00
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	056	\$8,110.00
FARGO YMCKH FULL COLOR RIBBON	-	DDN2320	056	\$421.00
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	056	\$206.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	CDL	DDN2277	SAFENET LUNA SA 1700 LOCAL PED BNDL	056	30
QUOTEDS	CDL	DDN2278	SAFENET HSM MODULE POWER CABLE	056	30
QUOTEDS	CDL	DDN2279	RKU PRINTER YMCKK RIBBON F/HDP5000	056	30
QUOTEDS	CDL	DDN2280	RKU PRINTER CLEANING KIT	056	30
QUOTEDS	CDL	DDN2281	RKU HDP5000 SMART CARD ENCODER W/DU	056	30
QUOTEDS	CDL	DDN2295	OMNIKEY 3121 SMART CARD READER (SCR	056	30
QUOTEDS	CDL	DDN2305	HID FARGO PRINTER RETRANSFER FILM	056	10
QUOTEDS	CDL	DDN2320	FARGO YMCKH FULL COLOR RIBBON	056	10
FIXEDSTN	SCB	SQM01SUM0306	REKEYING UTILITY (RKU)	056	5
FIXEDSTN	SCB	T8415	RKU APPL	056	5
FIXEDSTN	SCB	T8417	RKU SIM CAPACITY	056	1
FIXEDSTN	SCB	T8440	RKU SIM CAPACITY EXPANSION	056	50

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[MODEL](#)[UPDATES](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



VML750 LTE
Vehicular Modem

Updates

Ordering Information

Product Information

Public Safety LTE B14, VzW 3G/4G, AT&T 3G/4G, Private LTE B20, WiFi Access Point supporting 32 users, WiFi Client mode, geo-fencing, GPS NMEA and TAIP, RJ45 LAN connectivity, micro USB, MVPN client, micro CRYPR support, external/roof mounted antennas.

General Information

The VML750 is a trunk-mounted modem operating at 13.8V DC power and connected to a low profile roof-mounted antenna. The VML750 supports Ethernet connectivity to end user devices such as laptop or MDT. Further, the VML750 supports the following modulation/spectrum schemes: 700Mhz LTE FDD D block, 5 or 10Mhz configurable in B14 (DL763-768/UL793-798 or DL758-768/UL788-798 respectively) at 200mW; 700Mhz LTE FDD C block, 10Mhz in B13 (DL746-747/UL777-787) at 200mW; 3GPP2 DO Rev A 800 & 1900Mhz, 802.11 b/g/n WLAN at 20mW. The VML750 is ruggedized (MIL SPEC 810G and IP66) with an operating temp of -30C to +60C. It contains internal GPS and supports two

physical SIM cards for Public Safety LTE B14 UICC/SIM and/or VzW/AT&T UICC/SIM.

For more information, please visit:

Insite VML750 Binder: Data Sheet, Webinar, FAQ, Customer Presentation, Battle Card

https://insite.motorolasolutions.com/myre_viewbinder.asp?id=475

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
MODEL,VML750 LTE REBEL VEHICULAR MODEM	-	F0025	057	\$0.00

Ordering Requirements

Please review the required items below for the VML750. If all components are not included in the order, the order will be delayed.

When ordering the VML750 (F0025A), it is required to order the following with the unit: hardware version; software version; software license; MDT software kit; power cable; LAN cable and Antenna Kit.

Hardware Version (choose 1 option):

VML750 VSM Option R3.0 VA00190AA

Software Version (choose 1 option):

VML750 SW VzW R3.0 VA00192AA
VML750 SW AT&T R3.0 VA00193AA

Power Cable

Power Cable Option VA00041AA

LAN Cable

RJ45 LAN Cable Option VA00042AA
USB Cable Option for VML750 VA00045AA

Antenna Kit

VML750 Antenna Model	F6789
VML750 Antenna VzW/AT&T 17 feet Option	VA00070AA
VML750 Antenna VzW/AT&T 12 feet Option	VA00072AA
VML750 add B14 to VzW/AT&T 12 ft Option	VA00131AA
VML750 add B14 to VzW/AT&T 17 ft Option	VA00132AA
VML750 B14 only 12 ft Option	VA00133AA
VML750 B14 only 17 ft Option	VA00134AA
VML750 add VzW/AT&T to B14 12 ft Option	VA00135AA
VML750 add VzW/AT&T to B14 17 ft Option	VA00136AA
VML750 B14 and VzW/AT&T 12 ft Option	VA00137AA
VML750 B14 and VzW/AT&T 17 ft Option	VA00138AA

Supporting Software

VML750 MDT Software	T1740
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Software License

VZW License	HKVN4256A
PSLTE License	HKVN4257A
AT&T License	HKVN4300A

****Note:** For customers ordering the VML750 for Verizon Wireless use, the customer will be responsible for working with Verizon to obtain a VzW SIM card and activating the device on the VzW network.

*****Note:** For service on MSI-provided PS LTE Networks (example: Harris County), PS LTE SIM cards need to be ordered separately. Please see the [LTE SIM Card](#) page. For additional information on SIM card orders, please contact [Product Management](#).

Please contact [Product Management](#) with any questions regarding upgrades.

Order Example

Below is an example of an order placed for a VML750 with **VzW 3G/4G** with a 2 year SFS and a 12 ft. antenna cable:

COF Order Line Number: Part Number	Part Number Description
Line 1: F0025A	VML750
Line 1a: VA00190AA	VML750 VSM Option for R3.2
Line 1b: VA00192AA	VML750 SW VzW R3.2
Line 1c: VA00042AA	RJ45 LAN Cable Option
Line 1d: VA00864AA	SFS: 2 Year Service from the Start: Essential Package

Line 2: T1740	VML750 MDT Software
Line 3: HKVN4256A	SW License VzW 3G/4G
Line 4: F6789	VML750 Antenna Kit
Line 4a: VA00072AA	Antenna 12 ft Cable Option

Below is an example of an order placed for a VML750 with **AT&T 3G/4G** with a 5 year SFS and a 17 ft. antenna cable:

COF Order Line Number: Part Number	Part Number Description
Line 1: F0025A	VML750
Line 1a: VA00190AA	VML750 Option for R3.2
Line 1b: VA00193AA	VML750 SW AT&T R3.2
Line 1c: VA00042AA	RJ45 LAN Cable Option
Line 1d: VA00870AC	SFS: 5 Year Service from the Start: Essential Package
Line 2: T1740	VML750 MDT Software
Line 3: HKVN4300A	SW License AT&T 3G/4G
Line 4: F6789	VML750 Antenna Kit
Line 4a: VA00138AA	Antenna 17 ft Cable Option

Below is an example of an order placed for a VML750 with **PSLTE B14 and AT&T 3G/4G** with a 5 year SFS and a 17 ft. antenna cable:

COF Order Line Number: Part Number	Part Number Description
Line 1: F0025A	VML750
Line 1a: VA00190AA	VML750 Option for R3.2

Line 1b: VA00193AA	VML750 SW AT&T R3.2
Line 1c: VA00042AA	RJ45 LAN Cable Option
Line 1d: VA00870AC	SFS: 5 Year Service from the Start: Essential Package
Line 2: T1740	VML750 MDT Software
Line 3: HKVN4300A	SW License AT&T 3G/4G
Line 4: HKVN4257A	SW License PSLTE B14
Line 5: F6789	VML750 Antenna Kit
Line 5a: VA00138AA	Antenna 17 ft Cable Option

**** Please note that for F0025A and F6789A, the maximum line quantity when ordering is 25.**

F0025A Options

1: Hardware Version (choose 1 option):

Effective June, 2017, the Software Version is 3.2

Description	Full Description	Nomenclature	APC	Price
VML750 VSM OPTION FOR R3.2	-	VA00190AA	057	\$1,450.00

2: Software Version (choose 1 option):

Description	Full Description	Nomenclature	APC	Price
VML750 SW VZW R3.2	-	VA00192AA	057	\$0.00
VML750 SW AT&T R3.2	-	VA00193AA	057	\$0.00

3: LAN Cable (choose 1 option):

Description	Full Description	Nomenclature	APC	Price
ADD: RJ45 LAN CABLE VML OPTION	-	VA00042AA	736	\$0.00

USB CABLE OPTION FOR VML750	-	VA00045AA	736	\$40.00
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If a customer decides they want to home on the VzW/AT&T network, as well as be prepared for the ability to home on PS-LTE in the future, please order both license options below (a customer email address is required when ordering licenses. Licenses will be sent to the email address provided):

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,VZW LICENSE	-	HKVN4256A	057	\$0.00
SOFTWARE,PSLTE B14 LICENSE	-	HKVN4257A	057	\$300.00
NSE,AT&T LICENSE	-	HKVN4300A	057	\$0.00

*****Note:** For service on MSI-provided PS LTE Networks (example: Harris County), PS LTE SIM cards need to be ordered separately. Please see the [LTE SIM Card](#) page. For additional information on SIM card orders, please contact [Product Management](#).

Antenna (F6789A) Options & MDT Software (T1740)

Description	Full Description	Nomenclature	APC	Price
VML750 ANTENNA B14 ONLY 17FT OPTION	-	VA00134AA	057	\$190.00
VML750 ADD VZW/AT&T TO B14 12FT OPTION	-	VA00135AA	057	\$120.00
VML750 VZW/AT&T 12FT OPTION	-	VA00072AA	057	\$225.00
VML750 ADD VZW/AT&T TO B14 17FT OPTION	-	VA00136AA	057	\$140.00
VML750 B14 AND VZW/AT&T 12FT OPTION	-	VA00137AA	057	\$300.00
VML750 ADD B14 TO VZW/AT&T 12FT OPTION	-	VA00131AA	057	\$90.00
VML750 ANTENNA B14 ONLY 12FT OPTION	-	VA00133AA	057	\$175.00

VML750 B14 AND VZW/AT&T 17FT OPTION	-	VA00138AA	057	\$335.00
VML750 VZW/AT&T 17FT OPTION	-	VA00070AA	057	\$250.00
VML750 ADD B14 TO VZW/AT&T 17FT OPTION	-	VA00132AA	057	\$100.00
ANTENNA, STAMPED METAL,MAIN ANTENA LTE WIP	-	FTN7686A	057	\$40.00

MDT software for VML750 - for every F0025A ordered, please order one of the following:

Description	Full Description	Nomenclature	APC	Price
VML750 MDT SOFTWARE	-	T1740	057	\$0.00

Extended Warranty Options

Description	Full Description	Nomenclature	APC	Price
ENH: 3 YR SFS ESSENTIAL	LTE Device Essential Service from the Start is a service support program that delivers three years of seamless coverage (from the time of device purchase) and rapid in-house product repair through Motorola's support centers and world-class service centers. Purchased up front with the hardware, or within 30 days thereafter, this service provides access to technical support resources, priority response and guaranteed turn-around times. Motorola will provide ground shipment on all outbound repairs to specified customer delivery location and bear all cost and risks associated with this transportation; or, Motorola will ship products via customer-designated carrier and method, charged to the customer's account. No discounts are allowed on this option. Local services are not included.	VA00860AA	185	\$135.00
	LTE Device Essential Service from the Start is a service support program that delivers two years of seamless			

<p>ENH: 2 YR SFS BRONZE</p>	<p>coverage (from the time of device purchase) and rapid in-house product repair through Motorola's support centers and world-class service centers. Purchased up front with the hardware, or within 30 days thereafter, this service provides access to technical support resources, priority response and guaranteed turn-around times. Motorola will provide ground shipment on all outbound repairs to specified customer delivery location and bear all cost and risks associated with this transportation; or, Motorola will ship products via customer-designated carrier and method, charged to the customer's account. No discounts are allowed on this option. Local services are not included.</p>	<p>VA00864AA</p>	<p>185</p>	<p>\$100.00</p>
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Upgrade Options

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,UPGRADE TO PSLTE B14 LICENSE	-	HKVN4258A	057	\$300.00

****Note: This upgrade is for customers switching from VzW network to work exclusively on a PSLTE B14 network. Please see the [LTE SIM Card](#) page. For additional information on SIM card orders, please contact SIM [Product Management](#).lease contact VML750 [Product Management](#).

FRUs

Description	Full Description	Nomenclature	APC	Price
CABLE, ASSEMBLY,USB CABLE LTE VSM	-	TTN6125	057	\$40.00
CABLE, ASSEMBLY,RJ45 LAN CABLE LTE VSM	-	TTN6126	057	\$25.00
CABLE, ASSEMBLY,POWER CABLE LTE VSM	-	TTN6127	057	\$30.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	F0025	MODEL,VML750 LTE REBEL VEHICULAR MODEM	057	16
FIXEDSTN	SCB	F0025	MODEL,VML750 LTE REBEL VEHICULAR MODEM	057	16
FIXEDSTN	SCB	F0025	MODEL,VML750 LTE REBEL VEHICULAR MODEM	057	16
ACCESSORY	CDP	FTN7686A	ANTENNA, STAMPED METAL,MAIN ANTENA LTE WIP	057	67
FIXEDSTN	CDP	HKVN4256A	SOFTWARE,VZW LICENSE	057	1
FIXEDSTN	CDP	HKVN4257A	SOFTWARE,PSLTE B14 LICENSE	057	1
FIXEDSTN	CDP	HKVN4258A	SOFTWARE,UPGRADE TO PSLTE B14 LICENSE	057	1
DRPSHP	CDP	HKVN4300A	NSE,AT&T LICENSE	057	7
FIXEDSTN	SCB	T1740	VML750 MDT SOFTWARE	057	13
FIXEDSTN	SCB	TTN6125	CABLE, ASSEMBLY,USB CABLE LTE VSM	057	30
FIXEDSTN	SCB	TTN6126	CABLE, ASSEMBLY,RJ45 LAN CABLE LTE VSM	057	11
FIXEDSTN	SCB	TTN6127	CABLE, ASSEMBLY,POWER CABLE LTE VSM	057	11

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

MODEL

LXN 505 LTE ULTRA PORTABLE

Lightweight, Miniaturized and Full-power Broadband Network

Ordering Information

General Information

DELIVER REAL-TIME BROADBAND INFORMATION ANYWHERE, ANYTIME.

Your operations demand continuous high-speed broadband coverage, yet traditional cell sites can't always reach everywhere you need to be. Weighing only 12 pounds and with activation timeframes of less than five minutes from power on, LXN 505 LTE Ultra Portable Infrastructure is our smallest, lightest and full power broadband network.

Covering a spectrum of use cases from backpack to in-vehicle to in-building and fixed sites, with LXN 505 you bring the network with you to quickly deliver the secure LTE coverage and capacity you need, anywhere, anytime. This current release only supports the LXN 505 as a vehicle kit. The backpack and in-building kits will be supported in the next release.

Please note that the lead time on LXN 505 is 120 days, can be shortened if the hardware vendor has parts in inventory. Please contact the Product Manager for more details.

Features

ALL-IN-ONE SYSTEM

Full power LTE system with eNB+EPC+APPs (optional)

APPLICATIONS HOSTING

Optional standalone capability hosts applications locally for situations where backhaul cannot be established.

COVERAGE AND CAPACITY

Create an LTE bubble up to 1km on demand and host up to 100 subscribers.

DESIGNED FOR HARSH ENVIRONMENTS

The IP65 ready, solid-state, fanless, ruggedized design withstands heat, cold, rain, humidity, dust and vibration.

FAST AND EASY SET-UP

Seconds can make all the difference. Power on and create an almost instant PS LTE network for you and your team. In service time is possible in less than 5 minutes from power on.

INFORMATION ACCESS

Coverage and capacity on demand delivers critical video and other rich media application information at the point of engagement.

MINIATURIZED AND PORTABLE

The miniaturized form factor is perfectly suited for bringing the network with you to establish LTE broadband connectivity anytime, anywhere.

VERSATILITY

Deploy a variety of form factors ranging from backpack, tactical case, vehicular or fixed. Let your imagination decide where and when you will use it.

Ordering Information and Requirements

The LXN 505 system consists of a single box, which includes Hardware Kits, a Software Kit and optional Applications.

For a new/greenfield set-up, order the band class (either Band 14 or 28B) and the EPC software license. In addition, you also need to order the accessories for LXN 505 from the table below. You may also optionally order the applications (WAVE 5000 and/or DragonForce).

Please refer to [flowchat](#) for ordering LXN 505, accessories and applications.

10 SIMs with Default Profile (PLMN 325 111) are included with every order for FREE.

For additional SIMs or specific SIM profile please contact Prasad Walawalkar at walawalkar@motorolasolutions.com +1 (847) 4526257

LXN 505 BAND OPTIONS

LXN 505 currently supports one band per unit and the band needs to be selected. The frequency per band is listed below:

BAND	BANDWIDTH	FREQUENCY RANGE
28 (FDD)	5, 10, 20	UL:703 - 748, DL:758 - 803

Configuration

Models

COF:

Description	Full Description	Nomenclature	APC	Price
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LXN 505 4G/LTE BC28 5W BASESTATION	-	TT3553	569	\$75,000.00
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Mandatory Item

Quantity (1) of one of the following EPC licenses must be ordered with the abovementioned models:

Description	Full Description	Nomenclature	APC	Price
EPC SOFTWARE LICENSE - UP TO 100 US	-	DDN3028	569	\$0.00

ACCESSORIES

Please select the accessories that you need from the table below.

Order Qty 2 for Antenna item below.

Description	Full Description	Nomenclature	APC	Price
MANPACK BACKPACK FOR LXN 505	-	TT3554	569	\$1,280.00
LXN 505 802.11B/G/N WIFI MODEM	-	DDN2838	569	\$400.00
LXN 505 5DBI 700-960 MHZ ANTENNA	-	DDN2839	569	\$1,088.00
LXN 505 LTE MODEM	-	DDN2866	569	\$480.00
BB-2590/U 8.7 H LOW TEMP RECHARGEAB	BB-2590/U 8.7 H LOW TEMP RECHARGEABLE LITHIUM ION BATTERY	DDN3062	569	\$690.00
BB-2590/390/2557 FULL CHARGER MEDIU	BB-2590/390/2557 FULL CHARGER MEDIUM RATE	DDN3063	569	\$599.00

**Please note that Year 1 Support for LXN 505 is included in the price of the hardware and software license. For subsequent years of support, please contact the Product Manager for a quote, which must be paid through iProcurement.

LXN 505 APPLICATION KITS

LXN 505 WAVE 5000 KIT

The LXN 505 includes two optional applications that can be embedded within the system.

WAVE 5000 SYSTEM

This is an optional application on LXN 505. If WAVE 5000 is required, then the models and options listed below need to be ordered, in addition to the "WAVE 5K Kit".

The number of talk groups and mobile clients needs to be selected, according to customer requirements. Annual Service (ARUS) must also be selected, which is listed below. Please note that the following must be entered in the customer email address section for receiving the WAVE 5K licenses: LXN505Wave5K@motorolasolutions.com

Description	Full Description	Nomenclature	APC	Price
NEW WAVE SYSTEM	-	TT3142	892	\$0.00
SOFTWARE,WAVE SERVER LICENSING	-	TT06266AA	892	\$9,995.00
ARUS - 1 YEAR - WAVE SERVER LICENSING	-	TT06172AA	551	\$1,799.00
WAVE COMMUNICATION CHANNEL-NO RADIO SYSTEM INTEGRATION	-	TT06267AA	892	\$995.00
ARUS - 1 YEAR - WAVE COMM CHANNEL - NO RADIO SYS INTEGRATION	-	TT06178AA	551	\$179.00
WAVE MOBILE COMMUNICATOR ANDROID & IOS	-	TT06207AA	892	\$295.00
ARUS - 1 YEAR - WAVE MOBILE COMMUNICATOR (ANDROID OR IOS)	-	TT06208AA	551	\$53.00

Windows 2012 licenses are required for Wave 5K installation. This is a mandatory item if you are ordering the Wave 5000 application on the LXN 505. Please order Quantity 2 per LXN 505. Please put the following ship to address for the windows license as this is required for staging:

Attn: Deepak Elandassery, Motorola Solutions Inc. , 500 West Monroe Street, 41st Floor, Chicago, IL 60661, USA.

Description	Full Description	Nomenclature	APC	Price
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WIN SERVER 2012 R2 STD 2 CPU ** FOR LTE LXN 505 ONLY **	-	DS6FA002351PK	569	\$1,145.00
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FOR EMEA: Please note that the EMEA region does not offer ARUS 1 Year and this option is blocked. Also please note that the WAVE5000 kit in question only provides a pre-installed copy of Windows Server 2012.

LXN 505 DRAGONFORCE APPLICATION KIT

DragonForce is a Team Collaboration application that provides:

- * Command and Control
- * Shared Situational Awareness
- * Incident Management

Key features include:

- * Real-time personnel tracking on maps
- * Collaborative whiteboards and situation reports (images, maps, floor plans and diagrams can be used as a collaborative whiteboards for mission planning and operations)
- * Instant messaging among individuals and groups
- * Online storage and sharing of frequently used files, maps and images
- * After-action reporting - every message, location report and file is logged

DragonForce can be used in many operations:

- * Day-to-day policing, security and campus safety and first responder operations
- * Specialized tactical and emergency response teams (SWAT, Hazmat, K-9, Bomb Squad, Disaster Response)
- * Special event and emergency management
- * Search and Rescue missions
- * Any operation requiring team tracking and coordination

DragonForce operates on the following devices:

- * Android
- * iPhone
- * iPad
- * Toughpad
- * Web browsers (Chrome, Firefox, Safari, IE)

Description	Full Description	Nomenclature	APC	Price
DRAGONFORCE USER LICENSES (QUANTITY 100)	-	DDN2858	569	\$15,000.00

** Please note that Year 1 support for the DragonForce application is included in the price of the license. For subsequent years of support, please contact the Product Manager for a quote, which must be paid through iProcurement.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	KLA	DDN2838	LXN 505 802.11B/G/N WIFI MODEM	569	120
QUOTEDS	KLA	DDN2839	LXN 505 5DBI 700-960 MHZ ANTENNA	569	120
QUOTEDS	KLA	DDN2840	LXN 505 BATTERY, UB-2590 LI+	569	120
QUOTEDS	DRA	DDN2858	DRAGONFORCE USER LICENSES (QUANTITY 100)	569	10
QUOTEDS	KLA	DDN2866	LXN 505 LTE MODEM	569	120
QUOTEDS	ATH	DDN3028	EPC SOFTWARE LICENSE - UP TO 100 US	569	10
QUOTEDS	ATH	DDN3029	EPC SOFTWARE LICENSE - UP TO 100 US	569	10
QUOTEDS	SHI	DDN3062	BB-2590/U 8.7 H LOW TEMP RECHARGEAB	569	20
QUOTEDS	SHI	DDN3063	BB-2590/390/2557 FULL CHARGER MEDIU	569	20
FIXEDSTN	ISR	DLN7972	FRU: VEHICLE POWER CABLE	569	50
FIXEDSTN	ISR	DLN7973	FRU: COMBO ANTENNA VLQ69273 4PORT	569	50
FIXEDSTN	ISR	DLN7974	FRU: COMBO LTE ANTENNA VLQ69273 4PORT CABLE	569	50
FIXEDSTN	ISR	DLN7975	FRU: COMBO WIFI ANTENNA VLQ69273 4PORT CABLE	569	50

FIXEDSTN	ISR	DLN7976	FRU: COMBO GPS ANTENNA VLQ69273 4PORT CABLE	569	50
FIXEDSTN	ISR	DLN7977	FRU: COMBO ANTENNA VLQ69273 3PORT BASE	569	50
FIXEDSTN	ISR	DLN7978	FRU: COMBO ANTENNA VLQ69273 3PORT WHIP	569	50
FIXEDSTN	ISR	DLN7982	FRU: MOUNTING BRACKETS	569	50
FIXEDSTN	ISR	DLN7983	FRU: MOUNTING BRACKET SCREWS	569	50
FIXEDSTN	ISR	DLN9884	FRU: VEHICLE INSTALLATION MATERIALS	569	50
QUOTEDS	AVL	DS6FA002351PK	WIN SERVER 2012 R2 STD 2 CPU ** FOR LTE LXN 505 ONLY **	569	15
QUOTEDS	EKLT	GMDNDDN2838A	LXN 505 802.11B/G/N WIFI MODEM	569	120
QUOTEDS	EKLT	GMDNDDN2839A	LXN 505 5DBI 700-960 MHZ ANTENNA	569	120
QUOTEDS	EKLT	GMDNDDN2840A	LXN 505 LBATTERY, UB-2590 LI+ BATTERY, UB-2590 LI+	569	120
QUOTEDS	EDRA	GMDNDDN2858A	DRAGONFORCE USER LICENSES (QUANTITY 100)	569	30
QUOTEDS	EKLT	GMDNTT3552A	LXN 505 4G/LTE BC14 5W BASESTATION	569	120
QUOTEDS	EKLT	GMDNTT3553A	LXN 505 4G/LTE BC28 5W BASESTATION	569	120
QUOTEDS	EKLT	GMDNTT3554A	MANPACK BACKPACK FOR LXN 505	569	120
QUOTEDS	CDP	TT3142	NEW WAVE SYSTEM	892	7
QUOTEDS	KLA	TT3551	LXN 505 4G/LTE BC20 1W BASESTATION	569	120

QUOTEDS	KLA	TT3552	LXN 505 4G/LTE BC14 5W BASESTATION	569	120
QUOTEDS	KLA	TT3553	LXN 505 4G/LTE BC28 5W BASESTATION	569	120
QUOTEDS	KLA	TT3554	MANPACK BACKPACK FOR LXN 505	569	120

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[Back](#)

MACH_ALERT

Product Catalog

Jump to ...

[Back](#)

MACH_ALERT

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MACH Alert Fire Station Alerting

Ordering Information

General Information

- The MACH Alert FSA system is A TOTAL SYSTEM SOLUTION capable of managing virtually any station alerting task from small systems consisting of a few fire stations with a single dispatch center, to complex FSA systems involving over one hundred stations and multiple control center sites connected via radio, Ethernet and/or wireless broadband networks.
- The MACH Alert Fire Station Automation and Alerting (FSAA) system serves as a cornerstone for the successful operation of the Fire and Rescue alerting process. This comprehensive alerting system will help manage resources with proven hardware and software, leading to a reduction in emergency response times, while reducing firefighter stress and automating turnout procedures.
- The system was designed for rapid response, integration with existing communication systems, redundancy, and the ability to gracefully migrate into new features, auxiliary station functions, and additional sites. It utilizes innovative technologies allowing installations to be tailored to your specific Fire and EMS needs.
- The MACH Alert FSAA system is based on the Motorola ACE3600 high-performance controller with integrated XTL2500 radio for data operation.
- Validated for operation on Motorola ASTRO 25 Integrated Voice and Data infrastructure.

For additional information, see the MACH Alert Wiki site at [MACH Alert Wiki](#)

Features

Reduce First Responder Stress:

- Ramped heart-saver Alert Tones
- Ramped bunkroom and egress LED Lighting
- LCD Incident display boards with count-down timer
- Incident-based color-coded LED lighting per zone

System Reliability

- NFPA 1221 Recommendations compliant
- Provides two CAD ports for inputs from two different CAD systems
- Alerts are sent over up to three communications links simultaneously
- Backup station alerting from dispatch positions if CAD should fail

Competitive features

- Text to Speech - CAD text output converted to Speech in the Fire Station
- Bunkroom Alerting - Alerts are directed to zones of speakers based on company/incident
- WEB Server with low cost client solution
- Zone switch in bunkroom for personnel to select type of alert sent to that bunkroom

Ordering Requirements

1. The MACH Alert solution is sourced from DCR Engineering.
DCR Engineering provides Motorola with the list of DCR equipment and services required to be ordered from DCR.
2. To initiate a proposal fill out the questionnaire located on the WIKI site at [MACH Alert Wiki](#)
Request a conference call with DCR and send the completed questionnaire engineering at fire-info@dcreng.com.
3. DCR personnel will work with Motorola to define the equipment list and will provide part numbers for DCR hardware/software, DCR extended warranty, DCR upgrade program, and Motorola ACE3600 hardware and DCR services.
DCR will assist Motorola in defining the additional hardware/software as needed.
4. Part numbers for the DCR hardware/software, DCR extended warranty, and DCR upgrade program are located on this price page.
Part numbers for the Motorola ACE3600 hardware are located on the ACE3600 price page.
DCR services are margined up by SI.
5. Note regarding DCR extended warranty pricing “ DCR can also provide

cost pricing to the service organization so that these items can be margined up by service.

- Review the documentation on the WIKI site for roles and responsibilities for DCR and Motorola as well as the SOW.

Configuration

Hardware

Description	Full Description	Nomenclature	APC	Price
ADD TTS MODULE FOR SERVER	-	TT2493	708	\$630.00
CANCELLED - MACH ALERT OPERATOR VIEW TERMINAL	-	TT2508	708	\$4,900.00
BASIC STATION CONTROLLER ASSEMBLY LESS ACE3600	-	TT2494	708	\$5,020.00
AIC - ALERTING INTERFACE CONTROLLER LESS ACE3600	-	TT2490	708	\$480.00
MOUNT ANALOG VOICE DISPATCH RADIO	-	TT2496	708	\$190.00
ADD 4 CHANNEL PRORITY IP MIXER	-	TT2495	708	\$3,500.00
MOUNT DIGITAL VOICE DISPATCH RADIO	-	TT2497	708	\$190.00
MACH ALERT RACKMOUNT SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2506	708	\$16,290.00
MACH ALERT TOWER SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2500	708	\$12,230.00

Software

Description	Full Description	Nomenclature	APC	Price
MACH ALERT CLIENT LICENSE FOR UP TO	-	TT2505	708	\$9,810.00

128 STATIONS				
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2504	708	\$25,520.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2510	708	\$42,770.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2509	708	\$60,450.00
MACH ALERT CLIENT LICENSE FOR UP TO 25 STATIONS	-	TT2507	708	\$7,010.00
STATION CONTROLLER SOFTWARE LICENSE	-	TT2488	708	\$1,830.00
MACH ALERT CLIENT LICENSE FOR UP TO 64 STATIONS	-	TT2514	708	\$9,810.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2501	708	\$92,710.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2502	708	\$53,730.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2503	708	\$37,260.00
AIC-128 SOFTWARE	-	TT2511	708	\$1,830.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	MHA	TT2488	STATION CONTROLLER SOFTWARE	708	70

			LICENSE		
QUOTEDS	MHA	TT2490	AIC - ALERTING INTERFACE CONTROLLER LESS ACE3600	708	70
QUOTEDS	MHA	TT2493	ADD TTS MODULE FOR SERVER	708	70
QUOTEDS	DES	TT2494	BASIC STATION CONTROLLER ASSEMBLY LESS ACE3600	708	70
QUOTEDS	MHA	TT2495	ADD 4 CHANNEL PRIORITY IP MIXER	708	70
QUOTEDS	MHA	TT2496	MOUNT ANALOG VOICE DISPATCH RADIO	708	70
QUOTEDS	MHA	TT2497	MOUNT DIGITAL VOICE DISPATCH RADIO	708	70
QUOTEDS	DES	TT2500	MACH ALERT TOWER SERVER HARDWARE FOR UP TO 128 STATIONS	708	70
QUOTEDS	MHA	TT2501	MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 128 STATIONS	708	70
QUOTEDS	MHA	TT2502	MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 128 STATIONS	708	70
QUOTEDS	MHA	TT2503	MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 64 STATIONS	708	70
QUOTEDS	MHA	TT2504	MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 25 STATIONS	708	70
QUOTEDS	MHA	TT2505	MACH ALERT CLIENT LICENSE FOR UP TO 128 STATIONS	708	70
QUOTEDS	MHA	TT2506	MACH ALERT RACKMOUNT SERVER HARDWARE FOR UP TO 128 STATIONS	708	70
QUOTEDS	MHA	TT2507	MACH ALERT CLIENT LICENSE FOR	708	70

			UP TO 25 STATIONS		
QUOTEDS	DES	TT2508	CANCELLED - MACH ALERT OPERATOR VIEW TERMINAL	708	70
QUOTEDS	MHA	TT2509	MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 64 STATIONS	708	70
QUOTEDS	MHA	TT2510	MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 25 STATIONS	708	70
QUOTEDS	MHA	TT2511	AIC-128 SOFTWARE	708	70
QUOTEDS	MHA	TT2514	MACH ALERT CLIENT LICENSE FOR UP TO 64 STATIONS	708	70

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MC Series DESKTOP CONTROLLERS

Ordering Information

General Information

The MC1000 can control a single radio providing, providing selection of up to four frequencies with Tone Remote Control. The unit requires no RSS for programming.

The MC2500 controls up to 4 radios, and includes a paging encoder, Stat-Alert™ signaling with the ability to patch and multi-select channels. All channels are capable of Tone Remote Control (16 frequency), one channel can be DC Controlled (4 frequencies). Programming the unit is via RSS.

Each unit ships complete with a power supply and manual. The MC1000 ships with a 110V, 60Hz unit and the MC2500 ships with an 110/220V, 50/60Hz unit.

Units can be connected in parallel, allowing multiple controllers to be connected to the same radio. Parallel units will see a busy indication when other controllers are active and an intercom facility between the units is provided. A maximum of 10 units can be connected in parallel when using DC or Tone Remote Control.

The MC2500 Unselect Speaker port is designed to support a passive speaker only.

Features

MC1000 Model (Non-Signaling)

Include:

- 4 Frequency Station Control
- 2 or 4 Wire

MC2500 Model (Multi-Channel)

Include:

- All basic model features plus:
- 4 Base Station Control
- 16 Frequency Station Control
- Stat-Alert™ Encode
 - PTT Unit ID
 - Voice Selective Call
 - Call Alert

- Radio Check
- Radio Enable/Disable
- Handset with Push-to-Talk
- Stat-Alert™ Decode
 - PTT Unit ID
 - Voice Selective Call
 - Call Alert
 - Emergency Alarm
 - Status Message
- Speaker
- Recent User Stack
- Unselect Speaker Connector
- Individual Channel Volume Control
- All Mute
- Dedicated per Channle Logging Recorder Output
- Radio Patch
- Multi-Select
- LOTL / LOBL
- RS232 Serial Printer Port
- Volume Control/Transmit LED
- Paging Encoder
 - QC II
 - 5/6 Tone
 - GE 99
 - Digital Dial
 - Reach 1+1
 - DTMF
 - Custom
- Black Color
- Alias for Pages (250 max.)
- Internal Mic (for use without handset)
- 2 Line X20 Character backlit Display
- Line Select
- Aux I/O's
- Monitor Switch
- 18 Programmable Buttons
- Operator Cross Mute
- Securenet Coded / Clear Operation
- Intercom
- 110 / 220 V AC - 50/60Hz Power Supply
- LTR Compatible
- 120V AC - 60Hz Power Supply
- Service Manual

Ordering Guide

For each Deskset order the appropriate model number form the list below.

DC Control

If the radio unit is capable of DC control then nothing other than the Deskset is required. If the radio unit is not capable then order the DC Remote Adapter (L3277) and the appropriate cable to connect this to the radio (DDN6338, DDN6699 or DDN6340). The installation team will need to provide the cable to connect the controller to the termination point for the bearer circuits.

Tone Remote Control

If the radio unit is cable of Tone Remote Control (TRC) then nothing other than the Deskset is required. If the radio unit is not then order the Tone Remote Adapter (L3276) and the appropriate cable to connect this to the

radio (DDN6338, DDN6699 or DDN6340). The installation team will need to provide the cable to connect the controller to the termination point for the bearer circuits.

Accessories

If headset operation is required then order the Audio Accessory Jack Box (DDN6516). This connects to the audio port on the back of the unit and provides a standard 2-prong headset connection.

A rackmount shelf (DDN6335) is available to mount Junction Boxes and Remote Adapters. Each shelf supports two units.

A copy of the Radio Service Software (RVN4178), available from AAD, is required to program the MC2500 and there is a choice of two cables for connection to the PC (DDN6124 and DDN6367).

Documentation

The following hard copy manuals and Quick Connect Guides are available from AAD:

- 6880309L14 MC2500 Multi-channel Deskset Operator and Installation manual
- 6880309K75 MC1000 Tone Control Deskset Operator and Installation manual
- 6880802B90 Tone Remote Adapter Manual
- 6880802B95 DC Remote Adapter Manual

2215051-1 MC2500 Quick Connect Guide

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
MC2500 MULTI-CHANNEL DESKSET	-	L3217	124	\$2,482.00
MC1000 BASIC TONE DESKSET	-	L3213AC	124	\$545.00
tone remote adapter	-	L3276AC	124	\$695.00
DC remote adapter	-	L3277AC	124	\$552.00

Accessories

Extended Local Control

Description	Full Description	Nomenclature	APC	Price
LOCAL JUNCTION BOX	For connecting up to 6 local control desksets to the station.	DDN6337	124	\$399.00
	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and			

RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	124	\$138.00

Microphones

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCESSORY JACK BOX	Provides connection for single headset. Compatible with both 6-wire and 4-wire headsets.	DDN6516	124	\$110.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
MC2500 POWER SUPPLY	-	DDN6339	124	\$350.00
REMOTE ADAPTER 12V DC POWER CABLE, BARE LEADS	-	DDN7067	124	\$75.00

Rack Mounting

Description	Full Description	Nomenclature	APC	Price
RACKMOUNT SHELF	19 in. shelf mounts the following: 2 Digital Junction Boxes (L3208), 2 Remote Adapters (L3276/L3277) 4 I/O Modules (DDN6926)	DDN6335	124	\$170.00

Radio Service Software

Description	Full Description	Nomenclature	APC	Price
RSS PROGRAMMING CABLE WITH DB25 CONNECTOR 10 FT	-	DDN6124	124	\$35.00
PROGRAMMING CABLE WITH DB9 CONNECTOR	-	DDN6367	124	\$35.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
1A SLOW BLOW FUSE KIT FOR DESKSET PRODUCTS	FOR MC1000, MC2000, MC2500, MC3000, Digital Junction Box and	DDN7278	124	\$65.00

	Remote Adapters.			
2A SLOW BLOW FUSE KIT FOR MC2500	-	DDN7284	124	\$65.00
2.5A FAST BLOW FUSE KIT FOR MC2000	-	DDN7285	124	\$65.00
18 BLACK BUTTON KIT FOR MC SERIES DESKSETS	Provides 18 black covers that can be used to hide unused buttons on the Desksets.	DDN7387	124	\$55.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	CSD	DDN6124	RSS PROGRAMMING CABLE WITH DB25 CONNECTOR 10 FT	124	15
QUOTEDS	CSD	DDN6124	RSS PROGRAMMING CABLE WITH DB25 CONNECTOR 10 FT	124	15
QUOTEDS	CSD	DDN6335	RACKMOUNT SHELF	124	15
QUOTEDS	CSD	DDN6335	RACKMOUNT SHELF	124	15
QUOTEDS	CSD	DDN6337	LOCAL JUNCTION BOX	124	15
QUOTEDS	CSD	DDN6338	RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	124	15
QUOTEDS	CSD	DDN6338	RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	124	15
QUOTEDS	CSD	DDN6339	MC2500 POWER SUPPLY	124	15
QUOTEDS	CSD	DDN6339	MC2500 POWER SUPPLY	124	15
QUOTEDS	CSD	DDN6339	MC2500 POWER SUPPLY	124	15
QUOTEDS	CSD	DDN6340	GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	124	15
QUOTEDS	CSD	DDN6340	GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	124	15
QUOTEDS	CSD	DDN6367	PROGRAMMING CABLE WITH DB9 CONNECTOR	124	15

QUOTEDS	CSD	DDN6367	PROGRAMMING CABLE WITH DB9 CONNECTOR	124	15
QUOTEDS	CSD	DDN6516	AUDIO ACCESSORY JACK BOX	124	15
QUOTEDS	CSD	DDN6699	RADIO INTERFACE CABLE FOR THE MCS2000	124	15
QUOTEDS	CSL	DDN7067	REMOTE ADAPTER 12V DC POWER CABLE, BARE LEADS	124	15
QUOTEDS	CSL	DDN7067	REMOTE ADAPTER 12V DC POWER CABLE, BARE LEADS	124	15
QUOTEDS	CSD	DDN7278	1A SLOW BLOW FUSE KIT FOR DESKSET PRODUCTS	124	15
QUOTEDS	CSD	DDN7284	2A SLOW BLOW FUSE KIT FOR MC2500	124	15
QUOTEDS	CSD	DDN7285	2.5A FAST BLOW FUSE KIT FOR MC2000	124	15
QUOTEDS	CSD	DDN7387	18 BLACK BUTTON KIT FOR MC SERIES DESKSETS	124	15
QUOTEDS	CSD	L3213AC	MC1000 BASIC TONE DESKSET	124	15
QUOTEDS	CSD	L3217	MC2500 MULTI-CHANNEL DESKSET	124	15
QUOTEDS	CSD	L3276AC	TONE REMOTE ADAPTER	124	15
QUOTEDS	CSD	L3276AC	TONE REMOTE ADAPTER	124	15
QUOTEDS	CSD	L3277AC	DC REMOTE ADAPTER	124	15

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MCC 5500 DISPATCH CONSOLE

Ordering Information

General Information

Motorola Solutions MCC 5500 Dispatch Console is a full-featured conventional radio system dispatch console designed to handle dispatch requirements for small to medium sized communication centers. It is a PC-based console that seamlessly integrates radio, paging, and telephony allowing dispatch operators to effectively manage and communicate more effectively with field personnel over numerous channels in a wide area system.

The MCC 5500 is a digital, modular radio dispatch console with an easy-to-use graphical user interface (GUI) running under Microsoft Windows 7 Pro SP1 (32 or 64-bit), Windows 8/8.1 Pro (64-bit) Windows 10 Pro (64-Bit), or Windows 10 Enterprise IoT LTSC 2015/2016 (64-Bit) operating system. Each console system can support up to 36 dispatch operator positions and 128 resources (radio channels and analog telephone lines). The maximum number of telephone lines supported is 72 (2 per CES shelf).

The MCC 5500 Dispatch Console allows users to:

- Control conventional, digital, and mobile radio channels
- Receive and make calls on regular telephone lines
- Use the Call Director to route telephone calls to a headset
- Send pages, either through an internal paging encoder or optional external encoder
- Operate a voter/comparator system by receiving comparator audio and by providing status and control to each receiver
- Decode and dispatch Push-To-Talk (PTT) identifications with Stat-Alert (MDC-1200),

ASTRO, GE-STAR, DTMF, and iDEN signaling systems.

SUPPORTED CONVENTIONAL RADIO SYSTEMS:

- Stat-Alert (MDC-1200)
- Securenet (code/clear only)
- GE-STAR
- ASTRO 25 Conventional (P25 Compliant - digital)

The MCC 5500 Dispatch Console supports a variety of trunked radio systems as a wireless console using mobile radios as control stations. In most cases, MCC 5500 dispatch operators can access the full set of features supported on the mobile radio unit, but with the mobile radio located where needed for proper RF coverage.

SUPPORTED WIRELESS CONSOLE INTERFACE:

- SMARTNET
- SmartZone
- SmartZone Omnilink
- ASTRO 25 Trunking
- PassPort/LTR Trunking
- iDEN

Functionality as a wireless console is dependent upon the method of interface and radio. The main choices of a wireless console interface are:

- TRC - provides limited functionality within the system
- Serial Link - ASTRO radio only (ASTRO Consolette W7 model and APX 7500 Consolette) - provides PTT ID, Emergency Call.
- NOTE: The APX 7500 Consolette provides additional features beyond PTT ID and Emergency Call. Refer to MCC 5500 Dispatch Console Product Planner for more details.
- SB9600 - provides full control of the radio.

CONSOLE ADD-ON OPTIONS:

The MCC 5500 dispatch console can integrate with other control room operations such as:

- Instant Recall Recorder (IRR)
- VESTA Pallas E-9-1-1
- MOSCAD Fire Station Alerting (FSA)

MCC 5500 DISPATCH CONSOLE KEY COMPONENTS:

1. **Dispatch Operator Position** - PC, Dispatch Application Program, Console Audio Box (CAB), Operator Accessories
2. **Backroom Electronics** - Console Electronic Shelf (CES), Console Processor (COP), Digital Audio Processor (DAP II) Modules, I/O Shelf.
3. **System Management Software** Console System Database Manager (CSDM) program and Alias Database Manager (ADM) program

Dispatch Operator Position - The MCC 5500 dispatch operator position is the interface between the dispatcher and the console system. Each operator position consists of PC, dispatch application program, CAB, and operator accessories. The operation is controlled via a mouse and/or touch screen monitor. It provides a means for a dispatcher to communicate to field units and telephone caller. It also allows dispatchers to control and monitor multiple channels of radio activity, patch various channels together, and send pages. Each operator

position is connected to a CAB and CES.

Workstation - The MCC 5500 dispatch operator positions are Windows 7 and/or Windows 10-certified workstations. Each workstation connects to a CAB. The workstations do not come with monitors; these must be ordered separately.

NOTE: Motorola will no longer be shipping NEW workstations with Vista OS (TT2289) or Win 7 OS (TT2833) for the MCC 5500 Dispatch Console (Operator Position and CSDM). New workstations (TT3225) ordered for the MCC 5500 Dispatch Console (Operator Position and CSDM) will ship with Windows 10 Enterprise IoT LTSB 2016 (64-Bit) OS.

Dispatch Application Program - features an intuitive, easy-to-use Graphical User Interface (GUI) that runs under Microsoft Windows 7 Pro SP1 (32 or 64-bit) or Windows 8/8.1 Pro (64-bit) or Windows 10 Pro (64-bit) or Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit) operating system utilizing the industry standard PC platform. The GUI is extremely flexible and can be tailored to any given operation and can be configured on a per operator basis.

CAB - provides the interface between the MCC 5500 dispatcher PC and CES. It is the connection point for the operator accessories. There is one CAB per console position. The CAB uses an external power supply (similar to the power supplies used with laptop computers) which must be connected to an AC power source. Power is provided by a single 120/240Vac, 50/60Hz external power supply. The CAB connects to the CES using either a 50' or 100' cable. However, there are many cases when other lengths are more suitable, in these instances the project team would obtain a cable independently. The maximum cable length supported is 4000'. For cable specification please consult the [MCC 5500 Product Planner](#).

Operator Accessories - Operator accessories are sold separately from CAB.

- **Desktop Speakers (required)** - at least 2 external speakers at each OP (select and unselect), up to 6 monitor speakers can be connected to each CAB.
- **Microphones (at least one is required)** - MCC Series Desktop Gooseneck Microphone w/PTT at the base or Standard Gooseneck Microphone.
- **Headset Jack Box (optional)** - supports up to 2, required for headset operation.
- **Headsets (optional)** - requires headset jack box.
- **Dual-Pedal Foot Switch (optional)**
- **Instant Recall Recorder (IRR) (optional)**

Backroom Electronics - consists of one or more CESs with interface cards. Each CES shelf contains a COP, up to three DAP II modules, power supply, optional: dual telephone interface (2 CO) and connection to two I/O shelves.

CES Shelf - consists of console processor (COP) module to manage communications and digital audio processor (DAP) modules to interface external analog circuits. The module facilitate communications between console operators, radio channels, voice recorders, and any other external device connected to the console.

COP Module - it executes the main operating system including the call processing software.

DAP II Module - is designed to interface with radio channels. Each DAP II module is capable of supporting up to four channels if it is equipped with the licensing iButtons required to enable all the channels. By default the DAP II module contains NO iButtons and supports two conventional analog channels. A DAP II module can be equipped to support any combination of two models:

- Four Analog channels
- Four Mobile (SB9600) channels

- Four Digital channels
- Four iDEN channels
- Two Analog and two Mobile (SB9600) channels
- Two Analog and two Digital channels
- Two Digital and two Mobile (SB9600) channels
- Two Analog and two iDEN channels
- Two Digital and two iDEN channels
- Two Mobile (SB9600) and two iDEN channels

I/O Shelf - can be used for voting comparators, remote operation of doors, alarms, Main/Standby operation and visual indicators from the console control at the MCC 5500 operator position. Each MCC 5500 dispatch console supports up to two fully configured I/O shelves with four I/O module cards each, for a total of 48 relay contacts and 96 opto-coupled inputs. Each CES has two I/O connectors, each of these connectors can support one I/O shelf with up to four modules in it. The basic shelf includes the processor card and the first I/O module. Three additional modules can be ordered as options to the I/O shelf. The I/O shelf is rack-mountable.

System Management Software - consists of the Console System Database Manager (CSDM) and Alias Database Manager (ADM).

CSDM - a powerful configuration and maintenance tool for the MCC 5500 dispatch console and is a requirement for every customer site. The CSDM is used to configure an MCC 5500 dispatch console system, to access the customer configuration database, to upgrade software, to monitor the system, and to troubleshoot console problems. The CSDM is located on a dedicated PC that runs Windows 7 Pro SP1 (32 or 64-bit), Windows 8/8.1 Pro (64-bit), Windows 10 Pro (64-Bit) or Windows 10 Enterprise IoT LTSC 2015/2016 (64-Bit) operating system. The CSDM terminal is located in the backroom.

ADM - is a program for managing centralized server-based access to Caller ID aliases. The ADM provides simple aliasing of radio unit IDs, status members, and message numbers. This is an optional component and not required in all architectures. The ADM program can be installed on a MCC 5000 operator position or on a separate customer provided PC Server that runs Window Server 2008 R2 Standard (64bit) operating system or Windows Server 2012 R2 (64-Bit). A network is required to operate ADM using standard networking techniques.

Features

The MCC 5500 dispatch console provides a comprehensive feature set as listed below.

SIGNALING: MDC, ASTRO CAI, and iDEN signaling are supported with the following capabilities:

MDC

- | | |
|---|---|
| <ul style="list-style-type: none"> • OUTBOUND MESSAGES <ul style="list-style-type: none"> • Call Alert • PTT ID • Radio Check • Radio Disable • Radio Enable • Radio Status Request • Remote Monitor | <ul style="list-style-type: none"> • INBOUND MESSAGES <ul style="list-style-type: none"> • Call Alert • Emergency Alarms • Emergency Call • PTT ID • Radio Message • Radio Status |
|---|---|

ASTRO

OUTBOUND MESSAGES

- Call Alert
- PTT ID
- Radio Check
- Radio Inhibit
- Radio Status Request
- Radio Uninhibited
- Remote Monitor

INBOUND MESSAGES

- Call Alert
- Emergency Alarms
- Emergency Call
- PTT ID
- Radio Message
- Radio Status
- Status Query Response

iDEN

- OUTBOUND MESSAGES
 - Call Alert Encode
 - Emergency Call Encode
 - Group Call
 - Private Call
 - Outbound PTT ID

- INBOUND MESSAGES
 - Call Alert Decode
 - Emergency Call Decode
 - Inbound PTT ID
 - Private Call

PAGING: Both manual and pre-programmed pages are supported with the capability of sequential checklist paging. Pre-programmed lists can be created to provide Group Paging and any pre-programmed page (single or group) can be assigned to a paging button that can be placed on the GUI. The paging formats listed below are available:

- 5/6 Tone
- 256 custom Quik-Call II Formats (Customize, Tone, Duration, Inter-Tone Gap)
- Customer Formats
- Digital Dial 1500 Hz
- Digital Dial 2805 Hz
- Quik-Call
- Quik-Call II Tone and Voice
- Quik-Call II Tone Only
- Quik-Call II Battery Saver
- Single Tone
- Touch Code (DTMF)
- Knox

PATCHING and MULTISELECT: Each operator position can support up to 11 patches and 11 multiselects, each one supporting 16 members, a resource cannot be a member of more than one active patch or multiselect.

CHANNEL CONFIGURATIONS: MCC 5500 shall support the following Channel configurations with 4 wire, 600 audio connection. All channels support analog operation with MDC signaling if configured.

Type	# TX	# TX Frequency	# RX	#RX Frequency	NOTES
R1	0	0	1	1	Receive Only
T1R1	1	1	1	1	
T2R2	1	2	1	2	2 Frequency Station

T4R4	1	4	1	4	4 Frequency Station
T8R8	1	8	1	8	8 Frequency Station
T12R12	1	12	1	12	12 Frequency Station
T14R14	1	14	1	14	14 Frequency Station
T16R16	1	16	1	16	16 Frequency Station
T22R	1	2	2	1 per RX	
T44R	1	4	4	1 per RX	Requires 8 wires minimum

In addition there will be the ability to support 6-wire T22R and 10-wire T44R configurations.

iDEN signaling was introduced in MCC 5500 Release 2.5. The MCC 5500 Console can connect to a public iDEN network via a connection to an iDEN control station (i325 or i365IS radio) via direct connect cables. Please see the Product Planner and Ordering Requirements below for more details.

BASE STATION KEYING: TRC, relay, DC (hardware option) ASTRO and Digital (SB9600) keying of channels are available. For TRC, Guard Tone levels and frequencies are configurable. For DC the current for each function is configurable, as is the type of control - pulsed or latched current.

TELEPHONY: MCC 5500 supports connection to external analog, loop-start POTS lines with Caller-ID. Also available are Flash Hook, Hold, and assisted transfer between Operator positions.

GENERAL: Channel Marker and three different Alert tones are available. There is the ability to have a configurable Talk-Extend time after the Alert Tone has been sent. If the channel that the Channel Marker or Alert Tones are being sent out on is part of an active patch, all channels within the patch will transmit the Channel Marker or Alert Tone.

For Radio resources parallel status will be maintained among the Operator positions for frequency, PL, repeater ON/OFF, Repeat-Through-Console, Wild Cards I/II, and common I/Os. Main/Standby (2w and 4w) via relays is supported, as is Main/Alternate.

MCC 5500 RELEASE 2.7.3 FEATURES / ENHANCEMENTS

- Now certified for use with APX8500 Mid Power Control Station, Remote mount 05 Control Head
- Console Op and CSDM certified on Microsoft Windows 10 Professional (64-Bit)
- Console Op and CSDM certified on Microsoft Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit)
- **NEW** IA OS Hardening CDs for TT3106 PC (Microsoft Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit) OS)
- ADM certified on Microsoft Windows Server 2012 R2 (64-Bit)

MCC 5500 RELEASE 2.7 - NEW FEATURES / ENHANCEMENTS:

- **APX 7500 Console with ACIM link support of 255 modes / frequencies** - increased the number of supported modes / frequencies from 16 to 255 when connected to an APX 7500 Console via ACIM link.
- **APX Mobile in Tray (O5 Control Head, Remote Mount) using SB9600** - virtual control head support of the APX 7500 Mobile in a tray (O5 Control Head, Remote Mount) using SB9600, similar to the digital interface between the MCC 5500 and the XTL 5000 W9 Console. The MCC 5500 Dispatch Console mimics the APX 7500 Mobile (O5 Control Head, Remote Mount) and the keypad microphone..
- **Multi-Touch Monitor Support** - on Windows 7 Pro SP1 (32 or 64-bit) and Windows 8/8.1 Pro OS (64-bit).
- **Microsoft Windows 8/8.1 Pro OS (64-bit) Support** - in addition to Windows 7 Pro SP1 (32 or 64-bit) OS.
- **Support for New Docking Format** - R2.7 now supports docking windows framework that provides a user with Supervisor access with more flexibility in setting up how the dispatch console user workspace is composed and displayed to the dispatch console user.
- For more information on the MCC 5500 Release 2.7 features, please refer to the [MCC 5500 Product Planner](#).

PLEASE NOTE:

ADM: The ADM application post Release 2.5 is no longer dependent on the Microsoft SQL Server or MSDE to manage the Caller ID database. Consequently, the MCC 5500 will no longer continue to support the SQL Server.

Please note that legacy MCC 5500 systems may continue to use Microsoft SQL Server 2005; however, the MCC 5500 is not certified with Microsoft SQL Server 2008.

INFORMATION ASSURANCE (IA): Windows PC Operating System Hardening is available for MCC 5500 for PCs purchased from Motorola. If IA is required, element hardening must be applied to every box (Op PCs, CSDM PC, ADM PC). MCC 5500 offers two types of IA Hardening CDs depending on OS version: IA Transparent CD or IA Full Hardened CD.

NOTE: Customers who desire information assurance should not utilize the ADM program or the domain controller, as these programs have not verified to be IA compliant.

Manuals

The following Manuals are available from AAD:

6881005Y60	User Guide
6881005Y65	Installation and Service Manual
6881005Y70	Configuration Manual
6871013P84	Windows Supplemental Configuration Manual

Soft copies are also available on the Motorola Online or from the [LMS Documentation Web Site](#).

Ordering Requirement

SUPPORTED ORDERING SYSTEMS:

Going forward, MCC 5500 systems must be ordered using the REC Tool (Motorola Configurator). The iMPACT design tool cannot support configuration for Release 2.5 or greater systems.

DON'T FORGET:

The MCC 5500 does not ship with Punch Blocks or cables as standard, these should be ordered as required.

ORDERING REQUIREMENTS WHEN USING APX 7500 CONSOLETTA VIA ACIM --- WITH THE MCC 5500 DISPATCH CONSOLE :

The MCC 5500 Dispatch Console R2.6 or greater supports the APX 7500 Consolette via digital control (ACIM).

In this configuration the dispatcher will have the following capabilities at the MCC 5500 Dispatch Console Operator Position:

- Channel Select Mode (maximum is 255)*
- PTT ID
- Emergency Alarm
- Emergency Call
- Aliasing of IDs
- Coded/Clear
- Encryption Key (CKR) Select
- Frequency Select
- Call Alerts (Conventional Only)

* NOTE: Support of 255 modes / frequencies is available in MCC 5500 R2.7 or greater.

For this configuration the following is required:

1. APX 7500 Consolette requires option G806 (ASTRO Digital Operation) and if required GA00469AA for extended dispatch operation.
2. MCC 5500 Dispatch Console System must be running at release R2.6 or greater.
3. MCC 5500 DAP II (L3550 or L3551) with ASTRO DAP iButton (TT05249AA or DDN9681) and channel must be configured in the CSDM for ASTRO signaling.
4. 2 custom cables are required to go from the punch block to the RJ45 on the APX 7500 Consolette. The 2 custom cables must be made in the field. Each of the custom cables consists of a CAT5 cable, terminate one end in a standard RJ45 connection and strip the other end to go to the punchblock. For cable specifications on the 2 custom cables please refer to the MCC 5500 Dispatch Console Installation and Service Manual Revision (221560G-10) contained on MOL under the Resource Center / Product Information / Manuals / Dispatch Consoles / MCC 5500 Dispatch Console.

ORDERING REQUIREMENTS WHEN USING APX 8500 MOBILE IN A TRAY (O5 CONTROL HEAD / REMOTE MOUNT) --- WITH THE MCC 5500 DISPATCH CONSOLE :

APX 8500 Remote Mount Mid Power Model with the MCC 5500 is now a certified solution.

The MCC 5500 Dispatch Console R2.7.3 and beyond supports the APX 8500 Mobile in a Tray (O5 Control Head, Remote Mount). However, in this configuration the use of a Digital Junction Box (DJB) is not supported only direct connection is supported.

In this configuration the MCC 5500 Dispatch Console acts a Virtual Control Head for the APX 8500 Mobile in a Tray (O5 Control Head, Remote Mount) supporting the following features:

- ASTRO IDs
- All mode changes
- All soft keys programmed on the radio
- PTT ID or Alias will display in the Activity Log Window

NOTE: In this configuration, all decoding of MDC 1200 and ASTRO IDs is done at the radio and not the MCC 5500 Dispatch Console. The MCC 5500 Dispatch Console will only display what is displayed on the control head of the radio.

For this configuration the following is required:

1. APX 8500 Mobile required options: G67 (Remote Mount) -- must have.
2. MCC 5500 Dispatch Console R2.7.3 or greater
3. MCC 5500 DAP II (L3550 or L3551) with SB9600 iButton (TT05248AA or DDN9680)
4. APX Direct Connect Cable (DDN1463)

IMPORTANT NOTE: The APX 8500 Mobile dash-mount configuration is **NOT** supported with the MCC 5500. The O5 Control Head (G442) is optional and not required for connecting to the MCC 5500.

ORDER INSTRUCTIONS FOR APX 8500 MOBILE IN A TRAY (REMOTE MOUNT) to be used with the MCC 5500 Dispatch Console:

Below is a guide, for the 12 groups of required selections, to order an APX 8500 mobile.

1. Main Model: Select *M37TSS9PW1_N APX 7500 All-Band MP Mobile*

2. Operation Mode: Select either Operation Mode option, *G241 or G806. (Choose ONE)*

3A. System Enhancement Software: Select option to match your system, *G51 or G48. (Choose ONE)*

3B. Optional System Enhancement Software: Select, if needed to match your system, *G173, G361, GA00580, or QA01648*

4. Control Head Hardware: Select *G88 - APX NO O5 CH NEEDED.*

(Note: G442 - APX O5 CONTROL HEAD can be ordered for visual use of the control head but is not required for connecting to a MCC 5500.)

5. Control Head Software: Select *G444 - CONTROL HEAD SOFTWARE*

6. Mounting: Select *G67 - REMOTE MOUNT MID POWER*

(Note: The remote mount mobile is the only configuration for use with the MCC 5500.)

7. RF Antenna: Select appropriate antenna option, *G89 or GA01513 (Choose ONE)*

Note: G89 - NO RF ANTENNA NEEDED should be ordered if G88 selected in Step 4.

8. GPS Wi-Fi Antenna: Select appropriate antenna option: *GA00226, GA00269, or GA00235 (Choose ONE)*

Note: GA00235 - NO GPS/Wi-Fi ANTENNA NEEDED should be ordered for most applications.

9. Microphone: Select appropriate microphone option, *G892, G90, W20, W22, or W382 (Choose ONE)*

Note: G90 - NO MICROPHONE NEEDED should be ordered if G88 selected in Step 4

10. Speakers: Select appropriate speaker option, *B18, G142, G831, G832, or W432 (Choose ONE)*

Note: G142 - NO SPEAKER NEEDED should be ordered if G88 selected in Step 4

11. J600 Adapter: Select *GA01517 - NO J600 Adapter Cable needed*

12. Service Option: Select desired Service From Start option, *G78, GA00318, GA00249, or GA00255 (Choose ONE)*

OTHER Required Items:

A- Order power supply for mobile - *KT000254A01*

Note: The power supply is not included with the mobile, this part must be ordered separately. Legacy power supplies do not supply sufficient current for the APX 8500. The APX 8500 requires the high capacity KT000254A01 power supply

B- Order RF Adapter Cable - *CB000091A03* (QMA to Mini-UHF, Female)

Note: APX8500 RF Antenna port on the rear panel is QMA.

C- Don't forget the MCC 5500 DAP II (L3550 or L3551) with SB9600 iButton (TT05248AA or DDN9680) and APX Radio Interface Cable - DDN1463

ORDERING iDEN INTERFACE:

On a New MCC 5500 System

One i325 or i365IS radio is required for each iDEN channel to be interfaced. Also, one of each in the below table is required. The only exception to this rule is the iDEN iButton (TT05245AA), which can support up to two iDEN channels.

2 iDEN Channels with License	TT05245AA
Radio Audio Cable	DDN9648A
Audio Interface Board	QTN6050C
RS232 Data Cable	NNTN5406B (available thru Tessco)
Rapid Power Charger	NNTN4963B
Audio Cable and Audio/Data Cable Kit	DDN9659A

On an Existing MCC 5500 System

Existing MCC 5500 Consoles may add an iDEN interface as long as DAP II modules are used. The MCC 5500 must be running CSDM software at R2.5 version or greater.

One i325 or i365IS radio is required for each iDEN channel to be interfaced. Also, one of each in the below table is required. The only exception to this rule is the iDEN iButton (DDN9658), which can support up to two iDEN channels.

Spare 2 iDEN Channels with License	DDN9658
Radio Audio Cable	DDN9648A
Audio Interface Board	QTN6050C
RS232 Data Cable	NNTN5406B (available thru Tessco)
Rapid Power Charger	NNTN4963B
Audio Cable and Audio/Data Cable Kit	DDN9659A

Please see the Ordering Guidelines in the Product Planner for more details.

CANCELLATION INFORMATION - REGARDING iBUTTONS:

Effective Sep 23rd, 2009, the iButton options for the MCC 5500 Dispatch Console were replaced. The iButtons in R2.5 changed so the part #'s for the iButton Options and Spares differ from those of past releases (R2.0 thru R2.4.1).

Take special care when ordering iButton spares as the former iButtons will be offered for a limited time through AAD in parallel with the current iButtons. See below for more details.

IMPORTANT NOTE REGARDING iBUTTONS:

The CSDM software (R2.5 or greater) is compatible with the old version of iButtons. So there is no need to replace old iButtons with new iButtons when upgrading to the latest release (R2.7.1).

Previous software versions (R2.0 thru R2.4.1), however, do not support the new iButtons. If new iButtons are installed, the system must be upgraded to the latest release (R2.7.1).

For this reason, if adding on an operator position to an existing system (R2.0 thru 2.4.1) and the new iButtons (R2.5 or greater) are ordered, an upgrade to the latest release (R2.7.1) software is required. First upgrade the system, then connect the add-on operator position.

INSTRUCTIONS ON ORDERING iBUTTONS FOR NEW MCC 5500 SYSTEMS OR ADDING ON TO FIELDED MCC 5500 CONSOLE (R2.5 or greater):

Ordering iButtons for a brand new MCC 5500 Dispatch Console system (R2.5 or greater) - below are the iButton options that are available to order with either L3550 or L3551:

2 Analog Channels with License	TT05247AA
2 SB9600 Channels with License	TT05248AA
2 ASTRO Channels with License	TT05249AA
2 iDEN Channels with License	TT05245AA

Ordering SPARE iButtons - below are the R2.5 or greater (New) iButton Spares that are used with either L3550 or L3551

2 Analog Channels with License	DDN9679
2 SB9600 Channels with License	DDN9680
2 ASTRO Channels with License	DDN9681
2 iDEN Channels with License	DDN9658

INSTRUCTIONS ON ORDERING PRE-R2.5 i-BUTTONS FOR FIELDED MCC 5500 DISPATCH CONSOLE FOR PAST RELEASES (R2.0 thru 2.4.1):

If the fielded MCC 5500 Dispatch Console System is pre-Release 2.5 (R2.0 thru R2.4.1) than

below are the steps that need to taken to add additional DAPs to the fielded system without having to upgrade the system to the latest release (R2.7).

1. Order the DAP II Module - Two different DAP modules are available depending on whether or not the customer uses DC-Control

- L3550 - DAP II Module for Non-DC Control
- L3551 - DAP II Module for DC Control --- requires option TT04090AA

2. Order the PreR2.5 iButtons Spares from AAD - see part #'s below

2 Analog Channels with License	DDN7933
2 SB9600 Channels with License	DDN8242
2 ASTRO Channels with License	DDN8243

HOW TO CHECK FIELDLED DISPATCH CONSOLE SOFTWARE VERSIONS:

The best way to find out what software version the fielded MCC 5500 Dispatch Console is currently at is thru the CSDM software. Within the CSDM software pull down "Help" and select "About". There will be a number of software version numbers displayed. Checked the software versions against the table below:

MCC 5500 RELEASE #	CSDM	COP	PC CONSOLE		DAP iBUTTON TYPE COMPATIBILITY
R02.00.00	4211059- 20 SR1	4211064- 15 SR1	3211997- 32 SR1		Pre-R2.5 iButtons
R02.01.00	4211059- 28 SR1	4211064- 23 SR1	3211997- 40 SR1		Pre-R2.5 iButtons
R02.02.00	4211059- 44 SR1	4211064- 42 SR1	3211997- 55 SR1		Pre-R2.5 iButtons
R02.02.01	4211059- 50 SR1	4211064- 49 SR1	3211997- 62 SR1		Pre-R2.5 iButtons
R02.02.02	4211059- 50 SR1	4211064- 60 SR1	3211997- 62 SR1		Pre-R2.5 iButtons
R02.02.03	4211059- 68 SR1	4211064- 72 SR1	3211997- 62 SR1		Pre-R2.5 iButtons
R02.02.04	4211059- 68 SR1	4211064- 78 SR1	3211997- 62 SR1		Pre-R2.5 iButtons

R02.03.00	4211059-68 SR1	4211064-80 SR1	3211997-87 SR1	Pre-R2.5 iButtons
R02.03.01	4211059-94 SR1	4211064-93 SR1	3211997-87 SR1	Pre-R2.5 iButtons
R02.04.00	4211059-106 SR1	4211064-105 SR1	3211997-104 SR1	Pre-R2.5 iButtons
R02.04.01	4211059-109 SR1	4211064-108 SR1	3211997-104 SR1	Pre-R2.5 iButtons
R02.05.00	4211059-129 SR1	4211064-127 SR1	3211997-127 SR1	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.05.01	4211059-131 SR1	4211064-129 SR1	3211997-127 SR1	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.06.00	4211059-140 SR1	4211064-138 SR1	3211997-138 SR1	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.07.00	2.7.0.149	4211064-145 SR1	2.0.0.147	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.07.01	2.7.0.149	4211064-146 SR1	2.0.0.148	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.07.02	2.7.0.149	4211064-146 SR1	2.0.1.2	Pre-R2.5 iButtons or R2.5 or greater iButtons
R02.07.03	2.7.0.149	4211064-146 SR1	2.0.1.2	Pre-R2.5 iButtons or R2.5 or greater iButtons

HOW TO OBTAIN MCC 5500 SOFTWARE UPGRADES TO LATEST RELEASE (R2.7.3):

The upgrade to MCC 5500 R2.7.3 provides the latest features and support for the MCC 5500. An upgrade kit can be ordered free of charge by calling Motorola Solutions System Support Center (SSC) and opening a Software upgrade case referencing MCC 5500 R2.7.3. NOTE: The software upgrade kit to R2.7.3 is free but Motorola Solutions does NOT cover the cost to upgrade the customer's Operation System (OS) or any labor costs to perform the upgrade.

IMPORTANT NOTE: MCC 5500 Release 2.7.3 ONLY supports the following Operating Systems (OS):

MCC 5500 CONSOLE	MCC 5500 RELEASE 2.7.3 SUPPORTED OS
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APPLICATIONS	
Console Op, CSDM - Workstations	Windows 7 Professional SP1 (32 or 64-bit) Windows 8 or 8.1 Professional (64-bit) Windows 10 Professional (64-Bit) Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit)
ADM - Server	Windows Server 2008 R2 Standard w.SP1 (64-bit) Windows Server 2012 R2 (64-Bit)

ORDERING INFORMATION ASSURANCE FOR MCC 5500:

MCC 5500 does offer Windows PC Operating System Hardening CD Kits for Motorola supplied PCs ONLY based on OS type. Element hardening must be applied to every box in the MCC 5500 System (Console Op, CSDM, ADM). The table below summarizes the IA Hardening CD based Applications and OS.

IA HARDENING CDS	SUPPORTED OS	IA HARDENING CD COMPLIANT ONLY WITH MOTOROLA SUPPLIED PC	MCC 5500 CONSOLE APPLICATIONS
TT2483 Win 7 - IA Transparent CD TT3194 Win 10 - IA Transparent CD	Windows 7 Pro SP1 (32 or 64-bit); Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit); Windows Server 2008 R2 Standard w.SP1 (64-bit); Windows Server 2012 R2 (64-Bit)	TT2833 - Z440 Win 7 Workstation; TT3106 - Z440 Win 10 Workstation TT3225 - Z2 Mini Win 10 Workstation	Console Op CSDM ADM
TT2482 Win 7 - IA Full Hardened CD TT3195 Win 10 - IA Full Hardened CD	Windows 7 Pro SP1 (32 or 64-bit); Windows 10 Enterprise IoT LTSB 2015/2016 (64-Bit); Windows Server 2008 R2 Standard w.SP1 (64-bit); Windows Server 2012 R2 (64-Bit)	TT2833 - Z440 Win 7 Workstation; TT3106 - Z440 Win 10 Workstation TT3225 - Z2 Mini Win 10 Workstation	Console Op CSDM ADM

IMPORTANT NOTE: Motorola Solutions no longer supplies PCs with Microsoft Windows Vista (TT2289) or Windows 7 (TT2833) or Server 2003 (TT2288) OS.

The IA Hardening CDs (TT2144 or TT2145) are ONLY compliant with the following Motorola supplied PCs TT2289 and TT2288.

TT2385 (Z400 Workstation), TT2537 (Z420 Workstation), TT2833 (Z440 Win 7) and TT3106 (Z440 Win 10) were replaced with TT3225 (Z2 Mini Workstation).

TT2322 (ML110 G7 Server), TT2605 (ML310E G8 Server) and TT2739 (ML310E G8 V2 Server) are no longer available.

Instant Recall Recorder (IRR) Ordering Information

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If PC is	Order	Includes
...TT2833 MIP 5000 Certified Win 7 PC	DDN2090	IRR Software & License, PCIe Soundcard, and PC Speakers
...TT3106 MIP 5000 Certified Win 10 PC	DDN2250	IRR Software & License, PCIe Soundcard, and PC Speakers
...TT3225 MIP 5000 Certified Win 10 PC	DDN2249 & DSICUSBAUDIO7D & CDN6673	IRR Software & License, USB Soundcard, and PC Speakers
... Customer Win 7 PC w/o Speakers	DDN2090	IRR Software & License, PCIe Soundcard, and PC Speakers
... Customer Win 10 PC w/o Speakers	DDN2250	IRR Software & License, PCIe Soundcard, and PC Speakers
... Customer Win 7 PC with Speakers	DDN2089 & DDN2134	IRR Software & License, PCIe Soundcard
... Customer Win 10 PC with Speakers	DDN2249 & DDN2134	IRR Software & License, PCIe Soundcard

Configuration

Dispatch Console System

Dispatch Console Position(s)

Each MCC 5500 Dispatch position requires a CAB (L3359) and a CES (L3358). Each CES can support up to 12 channels, if the capacity of the systems as defined by the number of dispatch console positions is not sufficient for the number of channels required, additional CES units should be ordered.

Description	Full Description	Nomenclature	APC	Price
MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT	Includes 10 in. cable connection to PC, power supply unit, and operator license. Speakers are NOT included with this model, they are to be ORDERED separately (B1912). This model is for R2.0 and beyond. NOTE: 50 in. Cable for CES is	L3359AC	322	\$8,433.00

	NO LONGER automatically included with L3359. Must order TT05088AA for the 50 in. Cable for CES. Note: CAB II PSU IS CALIFORNIA COMPLIANT.			
CONSOLE ELECTRONIC SHELF (CES) II	Includes COP and power supply. This model is for R2.0 and beyond.	L3358	322	\$9,500.00

CAB (L3359AC) - Cable Options

Description	Full Description	Nomenclature	APC	Price
ADD: 50' CES/CAB CABLE	Order with L3359 to add 50 in. CAB/CES cable	TT05088AA	322	\$150.00
ADD: 100' CAB/CES CABLE	ORDER with L3359 to add 100 in. CAB/CES cable	TT04083AA	322	\$320.00

CAB (L3359AC) - Options

Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE OPERATOR OPTION	ORDER with L3359 Model.	TT04080AA	322	\$2,400.00
ADD: CAB II RACK MOUNT KIT	ADDS rack mounting hardware to the CAB II (L3359). CAB comes ready to install in the rack.	TT04218AA	322	\$95.00

CES (L3358) - Option

Description	Full Description	Nomenclature	APC	Price
ADD: TWO (2) CO INTERFACE FOR TELEPHONE II	ORDER with L3358 Model.	TT04213AA	322	\$520.00

CES (L3358) - Extended Warranty Options

Description	Full Description	Nomenclature	APC	Price
	ORDER with L3358. Provides a total of 3 years			

ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION	service and support on new systems with advanced replacement. Service Plan covers all components of the operator position including CES, CAB, Speakers, Microphone, Headset Jackboxes and Footswitch. Does not include PC, Monitor or Headsets.	CA00957AA	150	\$900.00
ENH: (2) YR EXT SVC PL A/ADV RPLCMT ON EACH ADDITIONAL CES	ORDER with L3358. Provides a total of 3 years service and support on new systems with advanced replacement for CES with no CAB.	CA00958AA	150	\$485.00

I/O Shelf

Description	Full Description	Nomenclature	APC	Price
MCC SERIES I/O SHELF W/ CONTROLLER & CABLE	Includes 12 Inputs and 6 Outputs. Additional I/O modules (TT04532AA) can be added (up to 3).	L3468	322	\$1,100.00
ADD: MCC SERIES I / O MODULE II	ORDER with L3468 Model. Includes 12 Inputs and 6 Outputs.	TT04532AA	322	\$800.00

DAP II Modules - Channels

DAP II Modules

Each CES can support up to 3 DAP II Modules.

Description	Full Description	Nomenclature	APC	Price
DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES	-	L3550	322	\$2,300.00
DAP II FOR DC CONTROL CHANNEL INTERFACE ONLY	-	L3551	322	\$2,300.00

ADD: DC CONTROL MODULE (4 CHANNELS)	-	TT04090AA	322	\$750.00
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DAP II Module - Channel Options

Each DAP II module is capable of supporting up to four channels if equipped with the licensing iButtons required to enable all the channels. By default the DAP II module contains NO i-Buttons and supports ONLY two conventional analog channels. Select options below to add-on additional channel capacity to each DAP II module.

Description	Full Description	Nomenclature	APC	Price
ADD: 2 ANALOG CHANNELS WITH LICENSE R2.5	Order with L3550 or L3551 - adds two further analog channels (licenses included)	TT05247AA	322	\$2,000.00
ADD: 2 SB9600 CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two SB9600 channels, or changes default analog channel to SB9600 (licenses included) SB9600 channel can also be configured as SB9600 or analog.	TT05248AA	322	\$2,300.00
ADD: 2 DIGITAL CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551- adds two Digital (ASTRO) channels, or changes default analog channel to Digital(licenses included) Digital channel can also be configured as SB9600 or analog.	TT05249AA	322	\$2,500.00
ADD: 2 IDEN CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two iDEN channels, or changes default analog channel to iDEN(licenses included) iDEN channel can also be configured as Digital, SB9600, or analog.	TT05245AA	322	\$2,700.00

Console System Software

Software

Every MCC 5500 system requires configuration, management and application software and is delivered as a single package in the CSDM program package (DDN6916). The CSDM program package includes all the software required by the MCC 5500 Dispatch Console, excluding OS, on a single CD.

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Description	Full Description	Nomenclature	APC	Price
CSDM PROGRAM	System CD contains all system software and systems manuals (hard copy)	DDN6916	322	\$2,000.00

Cable for CSDM Computer

Description	Full Description	Nomenclature	APC	Price
CSDM COMPUTER CABLE (DB09) 25 FEET	Required cable for CSDM Programming Software (DDN6916).	DDN6924	322	\$90.00

PC Equipment

NOTE: The HP Z2 Mini Workstation does not contain a built-in DVD Drive. Make sure to order at least one (1) USB External DVD Drive for each dispatch center for use when installing or upgrading MCC 5500 system software.

Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSB 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$47.00

Information Assurance (OS Hardening CDs)

NOTE: OS Hardening CDs below are only compatible with the following PCs: TT2537 (Z420), TT2739 (ML310E G8v2), TT2833 (Z440), TT3106(Z440) and TT3225 (Z2 Mini)

Description	Full Description	Nomenclature	APC	Price
IA TRANSPARENT CD - (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2483A TT2483 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2483	322	\$50.00
IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2482 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2482	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSSURANCE TRANS HARDENING KIT CD	TT3194 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3194	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSSURANCE FULL HARDENING KIT CD	TT3195 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3195	322	\$50.00

Dispatch Console Position - Audio Accessories

The CAB (L3359AC) does not include any accessories, these must be ordered separately.

Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$450.00
	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable			

MCC SERIES HEADSET JACK	and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00

Cables

T3 Cables to Connect to CES Shelves

Each CES requires a T3 cable. The particular cable depends upon the number of CES shelves in the system and the distance between them.

Description	Full Description	Nomenclature	APC	Price
T3 CABLE 2 FEET	This T3 cable is used to connect CES shelves together between adjacent shelves in a rack.	DDN6918	322	\$180.00
T3 CABLE 5 FEET	This T3 cable is used to connect CES shelves together between shelves in a rack.	DDN6919	322	\$200.00
T3 CABLE 10 FEET	This T3 cable is used to connect CES shelves together between shelves in adjacent racks.	DDN6920	322	\$250.00
T3 CABLE 25 FEET	This T3 cable is used to connect CES shelves together between shelves in a non-adjacent rack.	DDN6921	322	\$300.00

Cables to Connect to CES to CAB

Description	Full Description	Nomenclature	APC	Price
CES/CAB CABLE 50 FOOT	-	DDN6917	322	\$175.00
CES/CAB 100 FOOT CABLE	-	DDN7094	322	\$420.00

CES/CAB CABLE 200 FOOT	-	DDN1051	322	\$563.00
CES/CAB CABLE 300 FOOT	-	DDN1052	322	\$640.00
CES/CAB CABLE 500 FOOT	-	DDN1053	322	\$1,175.00
CES/CAB PLENUM CABLE 100 FOOT	-	DDN1055	322	\$789.00
CES/CAB PLENUM CABLE 200 FOOT	-	DDN1056	322	\$1,200.00
CES/CAB PLENUM CABLE 300 FOOT	-	DDN1057	322	\$2,170.00
CES/CAB PLENUM CABLE 500 FOOT	-	DDN1058	322	\$3,590.00

Cables to Connect to CES to Punch Block

Punch blocks and cables should be ordered as required on a per CES shelf basis.

Description	Full Description	Nomenclature	APC	Price
TELCO 15 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock. IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9994	322	\$60.00
3TELCO 25 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9995	322	\$74.00
TELCO 50 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9996	322	\$115.00
TELCO 15 FT 50 WAY PLENUM CBL,	Cable to connect CES to Punchblock IMPORTANT NOTE:			

180 DEG MALE - 90 DEG MALE, .35IN SCREW	The screw length of this cable changed from .750 inches to .350 inches.	DDN9997	322	\$59.00
TELCO 25 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9998	322	\$85.00
TELCO 50 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9999	207	\$180.00

Radio Cables

Description	Full Description	Nomenclature	APC	Price
CONSOLETTTE W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00

Field Add-Ons / Spares

Description	Full Description	Nomenclature	APC	Price
CAB/PC USB CABLE	-	DDN7527	322	\$79.00
MCC5500 SPARES PACKAGE /	Package includes: CAB II board, CES PSU; CAB II PSU; COP II, DAP II (including 2 analog licenses), Fuse Kit,			

CAB II PS CALIFORNIA COMPLIANT	Replacement I/O shelf, Replacement I/O controller, Replacement I/O module. Note: CAB II PSU IS CALIFORNIA COMPLIANT	DDN8349AC	322	\$22,150.00
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Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1912	MCC SERIES DESKTOP SPEAKER	443	14
CNTRLR	SSO	B1913	MCC SERIES HEADSET JACK	443	20
CNTRLR	SSO	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE	443	19
QUOTEDS	GRA	DDN1051	CES/CAB CABLE 200 FOOT	322	21
QUOTEDS	GRA	DDN1052	CES/CAB CABLE 300 FOOT	322	21
QUOTEDS	GRA	DDN1053	CES/CAB CABLE 500 FOOT	322	21
QUOTEDS	GRA	DDN1055	CES/CAB PLENUM CABLE 100 FOOT	322	21
QUOTEDS	GRA	DDN1056	CES/CAB PLENUM CABLE 200 FOOT	322	21
QUOTEDS	GRA	DDN1057	CES/CAB PLENUM CABLE 300 FOOT	322	21
QUOTEDS	GRA	DDN1058	CES/CAB PLENUM CABLE 500 FOOT	322	21
QUOTEDS	CIP	DDN1463	APX 7500 MOBILE DIRECT CONNECT CABLE	740	15
QUOTEDS	CTD	DDN6916	CSDM PROGRAM	322	15

QUOTEDS	CTD	DDN6917	CES/CAB CABLE 50 FOOT	322	15
QUOTEDS	CTD	DDN6917	CES/CAB CABLE 50 FOOT	322	15
QUOTEDS	CTD	DDN6918	T3 CABLE 2 FEET	322	15
QUOTEDS	CTD	DDN6919	T3 CABLE 5 FEET	322	15
QUOTEDS	CTD	DDN6920	T3 CABLE 10 FEET	322	15
QUOTEDS	CTD	DDN6921	T3 CABLE 25 FEET	322	15
QUOTEDS	CTD	DDN6924	CSDM COMPUTER CABLE (DB09) 25 FEET	322	15
QUOTEDS	CTD	DDN7094	CES/CAB 100 FOOT CABLE	322	15
QUOTEDS	CTD	DDN7094	CES/CAB 100 FOOT CABLE	322	15
QUOTEDS	CTD	DDN7527	CAB/PC USB CABLE	322	15
QUOTEDS	CTD	DDN8349AC	MCC5500 SPARES PACKAGE / CAB II PS CALIFORNIA COMPLIANT	322	15
QUOTEDS	CTD	DDN8351	CONSOLETTTE W9 DIRECT CONNECT CABLE	322	15
QUOTEDS	CTD	DDN8352	CDM1550 SERIES DIRECT CONNECT CABLE	322	15
QUOTEDS	GRA	DDN9994	TELCO 15 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	322	21
QUOTEDS	GRA	DDN9995	3TELCO 25 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE , .35 INCH SCREW	322	21
QUOTEDS	GRA	DDN9996	TELCO 50 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE , .35 INCH SCREW	322	21
QUOTEDS	GRA	DDN9997	TELCO 15 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	322	21

QUOTEDS	GRA	DDN9998	TELCO 25 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	322	21
QUOTEDS	GRA	DDN9999	TELCO 50 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	207	21
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSICUSBAUDIO7D	STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	708	5
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
QUOTEDS	CTD	L3358	CONSOLE ELECTRONIC SHELF (CES) II	322	15
QUOTEDS	CTD	L3359AC	MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT	322	15
QUOTEDS	CTD	L3468	MCC SERIES I/O SHELF W/ CONTROLLER & CABLE	322	15
QUOTEDS	CTD	L3550	DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES	322	15
QUOTEDS	CTD	L3551	DAP II FOR DC CONTROL CHANNEL INTERFACE ONLY	322	15
QUOTEDS	CTD	TT2482	IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	322	15
QUOTEDS	CTD	TT2483	IA TRANSPARENT CD - (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	322	15
QUOTEDS	CTD	TT3194	MCC5500 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	322	15
QUOTEDS	CTD	TT3195	MCC5500 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT	322	15

			CD		
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MCC 7500 Dispatch Console
-- Logging Solution --

Ordering Information

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the **Standard Support** period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the **Extended Support** period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the **End of Support** period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

MCC 7500 Product Planner and Ordering Guide

The MCC 7500 Product Planner and Ordering Guide also covers the Archiving Interface Server (AIS).

The MCC 7500 Product Planner and Ordering Guide is available on the [High Tier Dispatch Console wiki page](#).

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.
3. Please note that the latest available release of software and hardware will be provided when ordering through the system. If earlier release versions are required then a case must be opened with the System Support Center (SSC) to obtain the desired version from Upgrade Operations (UO).

Don't Forget These Items for Each Dispatch Console

1. PC, Monitor, Speakers, Microphone, and other accessories.
2. Software Entitlement Licenses

Recorders and Replay Stations

Each AIS requires a recorder. Refer to the [MCC 7500 IP Logging Recorder](#) page for information about the recorders and how to order them.

Replay stations are required to replay the recorded audio. Refer to the [MCC 7500 IP Logging Recorder](#) page for information about the replay stations and how to order them.

Links to Other Elements of the Console Sub-System

1. [MCC Series PC, Monitor, and accessories](#) (also available in pulldown box above)
2. [Manuals](#)
3. Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features.
4. [MCC 7500 IP Dispatch Console](#)
5. [MCC 7500E IP Dispatch Console](#)
6. [MCC 7500 IP Logging Recorder](#) (includes Dual IRR in it's pulldown box).
7. Also see the pulldown box at the top of this page for other elements.

Configuration

Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired (more VPM specific FRU's below)

Please see the [MCC Series PC, Monitor, and accessories](#) in the pulldown box above.

VPM

Description	Full Description	Nomenclature	APC	Price
MOTOROLA VOICE PROCESSOR MODULE	Provides one Voice Processor Module (VPM) unit for an MCC 7500 console. Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF). When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.	B1933	443	\$11,920.00

Order the MCC 7500 Archiving Interface Server (AIS) SW Application

Description	Full Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE	Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00

Software Licenses

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Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 ARCHIVING INTERFACE SERVER SOFTWARE LICENSE	Provides a license for using the MCC 7500 VPM-based AIS Software. One is required for each AIS being ordered. Order as a sub-item to the B1933.	CA00288AB	443	\$18,072.00

Upgrade Software Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 AIS SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 AIS Software. One is required for each AIS being upgraded. Order as a sub-item to the B1905.	CA00900AA	443	\$2,700.00

Secure Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 SECURE OPERATION	Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.	CA00147AF	443	\$3,900.00
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00

Secure Algorithms

Description	Full Description	Nomenclature	APC	Price
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ADD: DES-OFB ALGORITHM	Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00143AC	443	\$900.00
ADD: DVP-XL ALGORITHM	Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.	CA00146AC	443	\$900.00
ADD: DES-XL ALGORITHM	Provides factory programming for the DES-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.	CA00144AC	443	\$900.00
ADD: ADP ALGORITHM	Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00245AA	443	\$900.00
ADD: AES ALGORITHM	Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00182AB	443	\$900.00
ADD: DVI-XL ALGORITHM	Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00145AC	443	\$900.00

VPM Power Cords

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00
ADD: AC LINE CORD, BRAZIL	Adds one AC line cord with a Brazilian plug.	CA00140AG	277	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, NORTH AMERICAN	Adds one AC line cord with a North American plug.	CA00140AA	443	\$0.00
ADD: AC LINE CORD, AUSTRALIA	Adds one AC line cord with an Australian plug.	CA00140AF	277	\$0.00

Field-Add Software Licenses

Description	Full Description	Nomenclature	APC	Price
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	-	BLN1317	443	\$18,072.00
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$3,900.00

KVL Programming Cable

The cable used to connect the KVL to the VPM in the dispatch position and the archiving interface server is the TKN8531.

Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGEG	-	TKN8531C	362	\$260.00

Field Replacement Units (VPM Specific)

Note: We've been seeing a significant number of VPM FRUs being returned to the Repair Depot because they don't have the necessary encryption algorithms. Please read the note text under the B1934 below and make sure any required encryption algorithms are ordered when the VPM FRU is ordered.

The items listed in this section are specific to MCC 7500. Please also see the FRUs and other accessories listed in the [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Description	Full Description	Nomenclature	APC	Price
MCC 7500 VOICE PROCESSOR MODULE FRU	Provides the housing and circuit board used for the B1933 VPM. Does not include the power supply, AC power cord, or DC power cord. Each of these items must be ordered separately from RPSD. If secure capability is required, then order the following options with the B1934: - the secure operation option (CA00147AF) - from 1-6 encryption algorithm options Order as a main line item.	B1934	443	\$11,830.00
SHIELD,VPM SHIELD KIT	Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided. When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324 in.s. For example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.	BLN1324	443	\$0.00

Algorithm Upgrades/Field-Adds

Description	Full Description	Nomenclature	APC	Price
	Provides a CD that is used to add new algorithms to existing Telephone Media Gateways (TMGs), VPM-			

MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	based MCC 7500 consoles and VPM-based AISs. Also used to upgrade existing algorithms in existing VPM-based MCC 7500 consoles or AISs. Requires sufficient algorithm options to cover every added/upgraded algorithm in every console or AIS that is affected. The CD is compatible with the KVL 4000 and KVL 5000 Key Variable Loaders. The serial number of the KVL keyloader is required to be entered into the ordering system when ordering the T8063. Order as a main line item.	T8063	443	\$250.00
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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1905	MCC 7500 ASTRO 25 SOFTWARE	443	27
CNTRLR	SSO	B1933	MOTOROLA VOICE PROCESSOR MODULE	443	8
CNTRLR	SSO	B1934	MCC 7500 VOICE PROCESSOR MODULE FRU	443	7
CNTRLR	SSO	BLN1302	OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	443	15
CNTRLR	SSO	BLN1304	SECURE OPERATION FIELD-ADD LICENSE	443	31

CNTRLR	SSO	BLN1317	MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	443	39
CNTRLR	SSO	BLN1324	SHIELD,VPM SHIELD KIT	443	53
QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
CNTRLR	SCB	T8063	MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	443	37
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MCC 7500 Dispatch Console
-- Auxiliary Input/Output Items --

Ordering Information

Features

The Motorola MCC 7500 Dispatch Console is a high tier IP dispatch console for use with ASTRO 25 radio systems. It supports an evolving feature set which includes the following features.

Aux I/O Types

- Latched Relay Outputs
- Momentary Relay Outputs
- Latched Input Buffers
- Momentary Input Buffers
- Interlocked Relay Groups
- Channel-Associated Aux I/Os

General Information

Overview

Auxiliary inputs and outputs (Aux I/Os) allow customers to control external devices via relay closures and sense the state of external devices via input buffers from the dispatch position. The Motorola MCC 7500 and MCC 7100 consoles support Aux I/Os by accessing and controlling SDM 3000 Basic RTUs and displaying the status of the RTUs' inputs and outputs on the dispatch position graphical user interface (GUI). The graphical user interface displays the inputs and outputs by using the same icons that are used with inputs and outputs on CENTRACOM Gold Series dispatch positions. A separate GUI to display the RTU inputs and outputs is not required on the dispatch position.

Multiple dispatch positions may monitor and control the same relay output and/or external inputs. In this case, state changes are indicated across all dispatch positions simultaneously.

Individual relay outputs can be configured so that they require a safety switch to be pressed before they respond to any commands from the dispatcher. A relay output on one dispatch position can be protected by a safety switch while the same relay output on a different dispatch position isn't. The resetting of latched inputs may also be protected by using the safety switch.

Supported Aux I/O Types

The following Aux I/O configurations are supported.

- **Momentary Input** - This is an input where the user interface always shows the true state of the input. If the input is active, it is shown as active. If it is not active, it is shown as not active.
- **Latched Input** - This is an input where the user interface doesn't necessarily show the true state of the input. When the input goes active, the user interface shows the state as active. The display will continue to show the state as active even if the input changes to the inactive state. A dispatcher must manually reset the display to return it to the inactive state. Note that a dispatcher cannot clear the display until the input itself is in the inactive state.
- **Momentary Output** - This is an output relay which is activated when the dispatcher presses the button on the user interface and deactivated when the dispatcher releases the button.
- **Latched Output** - This is an output relay which changes state only when the dispatcher presses the button. The release of the button has no effect on the state of the relay. One press activates the relay; the next press deactivates the relay.
- **Interlocked Latched Output** - This is a latched output relay which is part of a group of latched output relays. Only one of the relays in the group may be active at a time. Pressing the button for a relay automatically deactivates the previously active relay. Pressing the same button twice does not deactivate that relay. There is always one and only one relay active in the group at all times. Interlocked relays work in a "break before make" fashion; that is, the previously active relay is deactivated before the new relay is activated. The maximum number of relays that can be grouped together in an interlocked group is the number of relays in the RTU hosting the interlocked group.

SDM 3000 Basic RTUs

The F4543 SDM3000 Basic RTU is used to support most console Aux I/O needs. The RTU is rack mountable in a standard 19 inch rack and is one rack unit high.

The RTU is capable of supporting up to 16 outputs and 48 inputs. Expansion chassis (each being the same physical size as the SDM3000 RTU) can be added to increase the number of inputs and outputs. The supported configurations are as follows.

- A single SDM 3000 Basic RTU supports 16 Relay Outputs and 48 Input Buffers
- A single SDM 3000 Basic RTU with 1 expansion chassis supports 32 Relay Outputs and 96 Input Buffers
- A single SDM 3000 Basic RTU with 2 expansion chassis supports 48 Relay Outputs and 144 Input Buffers

Two options are available for powering the RTU. One of the following power options must be ordered with each RTU. These are not needed with the expansion chassis.

- VA00905 - ADD: +/- 24/48 VDC Power Operation
- V266 - ADD: AC Power Operation

The VA00874 ADD: Aux I/O Server Firmware Current ASTRO Release option should be ordered with the RTU to add the required application software.

If desired, punch blocks may be ordered with the RTU by using the V592 ADD: Punch Blocks option.

MCC Series I/O Shelf

The MCC Series I/O Shelf can be used with the SDM3000 RTU to provide any required external relays and/or inverters. The MCC Series I/O Shelf interfaces to the SDM3000 RTU via the RTU's relay outputs and input buffers. There is no data communication link between the two units. It is merely acting as a translator to translate the RTU's relays into Form B, Form C or double-pole or to translate an active low signal into an active high signal that can

be properly detected by the RTU. Please see the MCC 7500 Product Planner and Ordering Guide for more information on this.

The MCC Series I/O Shelf is rack mountable in a standard 19 inch rack and is one rack unit high. It consists of a metal chassis, an internal power supply, a controller module and between one and four I/O modules. Each I/O module contains six double pole Form C relays.

The MCC Series I/O Shelf comes standard with one I/O module already in it. Up to three additional I/O modules can be added to provide up to a total of 24 relays. If more than twentyfour relays pairs are needed, additional MCC Series I/O Shelves should be ordered.

RTU Software Upgrades/Downgrades

When upgrading a MCC 7500 console to a newer system release, the software in any SDM 3000 RTUs being used as Aux I/O servers also needs to be upgraded. This is done by ordering the T7955 All Configuration Software and Firmware to Current Version model with the appropriate option on it. The T7955 provides a single CD containing the desired software, regardless of how many of the following options are ordered with it.

- When upgrading to the current shipping release, the CA02411AA Aux I/O Server Firmware Upgrade option is used. One CA02411AA must be ordered for each Aux I/O server being upgraded. A maximum of 100 of this option can be ordered with a single T7955.
- When upgrading to an older release, the CA02405AA Aux I/O Server Firmware Downgrade option is used. One CA02405AA must be ordered for each Aux I/O server being downgraded. A maximum of 100 of this option can be ordered with a single T7955. There is no need to specify which older release is needed because the CD will contain software for all the older releases.

Manuals

The various manuals for the MCC 7500 dispatch console are included in the ASTRO 25 Radio System Documentation Set. The individual manuals (or the complete documentation set) can be downloaded from the ASTRO 25 Documentation Web Site.

MCC 7500 Product Planner and Ordering Guide

The MCC 7500 Product Planner and Ordering Guide is available on the [MCC 7500 wiki page](#).

Ordering Requirements

Orderable Item Descriptions

- Auxiliary inputs and outputs are supported via the SDM3000 Basic Site Manager Remote Terminal Unit (RTU). The RTU can support up to 48 inputs and 16 outputs. If additional inputs or outputs are required, then one or two SDM3000 IO Expansion Chassis may be ordered with the RTU.
- An SDM3000 IO Expansion Chassis supports 48 inputs and 16 outputs. One RTU can support up to two expansion chassis for a maximum of 144 inputs/48 outputs per RTU. The SDM3000 IO Expansion Chassis may be ordered by themselves for expanding RTUs which are already installed in the field.
- One power option (24/48 VDC or AC) per RTU is required. They are not required for expansion chassis.
- The Aux I/O Server Firmware Current ASTRO Release option is used to configure the

RTUs being used for dispatch position auxiliary inputs and outputs. One option per RTU is required.

- When upgrading or downgrading a RTU, order the T7955 with either the Aux I/O Server Firmware Upgrade or Aux I/O Server Firmware Downgrade option.
- The MCC Series I/O Shelf provides 6 double-pole, Form C relays. Additional relays can be ordered in groups of 6 by ordering the MCC Series I/O Module. A shelf can support a maximum of 24 relays.
- Note that a MCC Series I/O Shelf always requires a SDM3000 RTU when part of a MCC 7500 console system.

Links to Other Elements of the Console Sub-System

- [Dispatch Position Items](#)
- [Conventional Channel Gateway Items](#)
- [Auxiliary Input/Output Items](#)
- [Archiving Interface Server \(AIS\) Items](#)
- [Logging Recorder Items](#)
- [Dispatch Furniture Info](#)
- [Manuals](#)

Configuration

Models

SDM 3000 Basic RTU

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER BASIC	-	F4543	469	\$1,855.00
SM IO EXPANSION BASIC	-	F4547	469	\$900.00

Upgrades/Downgrades

Description	Full Description	Nomenclature	APC	Price
SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	-	T7955	382	\$0.00

Options

New RTU Software Option

This option is used when ordering a new RTU

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Description	Full Description	Nomenclature	APC	Price
ADD: AUX I-O SERV FW CURR ASTRO REL	-	VA00874	469	\$175.00

Fielded RTU Software Upgrade/Downgrade Options

These options are used when upgrading or downgrading an RTU in the field

Description	Full Description	Nomenclature	APC	Price
ADD: AUX_I-O_SERVER FIRMWARE UPGRADE	-	CA02411AA	382	\$925.00
ADD: AUX_IO_SERVER AND AUX_IO_COMPARATOR FIRMWARE DOWNGRADE	-	CA02405AA	382	\$50.00

RTU Power Supply

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

Accessories

MCC Series Aux I/O Shelf

Description	Full Description	Nomenclature	APC	Price
MCC SERIES I/O SHELF W/ CONTROLLER & CABLE	Includes 12 Inputs and 6 Outputs. Additional I/O modules (TT04532AA) can be added (up to 3).	L3468	322	\$1,100.00
	ORDER with L3468 Model.			

ADD: MCC SERIES I / O MODULE II	Includes 12 Inputs and 6 Outputs.	TT04532AA	322	\$800.00
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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	ISR	F4543	SITE MANAGER BASIC	469	20
FIXEDDATA	ISR	F4543	SITE MANAGER BASIC	469	20
FIXEDDATA	ISR	F4547	SM IO EXPANSION BASIC	469	20
QUOTEDS	CTD	L3468	MCC SERIES I/O SHELF W/ CONTROLLER & CABLE	322	15
ALARMCONT	SCB	T7955	SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	382	3

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Motorola MCC 7500 Dispatch Console

-- Conventional Channel Gateway and Related Items --

Ordering Information

General Information

GGM 8000 Enhanced Conventional Channel Gateway (Enhanced CCGW) (For use in 7.13 and later system releases)

In 7.13 and later system releases, the GGM 8000 Enhanced CCGW is available for interfacing to conventional channels. The GGM 8000 Enhanced CCGW can support combinations of analog, MDC 1200, ACIM Link, digital and mixed mode channels simultaneously. Low density and high density versions of the GGM 8000 Enhanced CCGW are available.

The low density version contains four analog ports and four V.24 ports plus an Ethernet port. Up to eight conventional channels can be connected to the analog and V.24 ports. The eight channels can be mixtures of analog, MDC 1200, ACIM Link, digital or mixed mode. In addition to the eight channels connected to ports, up to sixteen IP based channels can be supported. This brings the total number of channels supported on the low density version to twenty four.

The high density version contains eight analog ports and eight V.24 ports plus an Ethernet port. Up to sixteen conventional channels can be connected to the analog and V.24 ports. The sixteen channels can be mixtures of analog, MDC 1200, ACIM Link, digital or mixed mode. In addition to the sixteen channels connected to ports, up to sixteen IP based channels can be supported. This brings the total number of channels supported on the high density version to thirty two.

The GGM 8000 Enhanced CCGW may be used in 7.13 and later systems. It cannot be used in pre 7.13 systems.

Please refer to the [GGM 8000 ECAT price page](#) for ordering information.

Conventional Site Controller

The Conventional Site Controller (CSC) provides MCC 7500 dispatch consoles with the ability to access and control stations connected to CCGWs that are located at the console site if the dispatch consoles lose connectivity to the trunking system's controller.

The CSC is based on the CGP 8000 Site Controller hardware, but uses different software to allow it to handle the CCGWs and MCC 7500 dispatch consoles. A complete CSC requires the following:

- One GCP 8000 Site Controller Chassis model (T7038)
- One Site Controller Module option (CA00303AA)
- One Rack Mount Hardware option (X153AW)
- One MCC 7500 Conventional Site Operation Software option (CA01136AA)

Order only one Site Controller Module option per conventional site controller; redundant modules are not supported. Note that only one GCP 8000 Site Controller Chassis (T7038) can be ordered per line. If more than one is required, they must be ordered on separate lines.

Ordering information for the MCC 7500 Conventional Site Operation Software option (CA01136AA) is shown in the Options section below.

Upgrading a CSC from an older system release to the currently-shipping system release is done using the MCC7500 Conventional Site Controller Upgrade option (CA01246AA). The CA01246AA is ordered as a sub-item to the T7140. Refer to the Options section below for further information about the CA01246AA.

For ordering information for the rest of the CGP 8000 Site Controller items, please refer to the [GCP 8000 price pages](#).

MCC 7500 Product Planner and Ordering Guide

More information about conventional channels on the MCC 7500 console can be found in the MCC 7500 Product Planner and Ordering Guide. The ordering guide is available on the [MCC 7500 wiki page](#).

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF. Note that no checking of the design itself is done in COF.
2. Motorola On-Line may not be used to order complete console systems.

Configuration

Options

Controller Software

Description	Full Description	Nomenclature	APC	Price
MCC 7500 CONVEN SITE OPER	Required when using the GCP 8000 as a conventional site controller for the MCC 7500 console. Order as a sub-item to the T7038 site controller chassis.	CA01136AA	595	\$6,500.00

Controller Software Upgrade

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 CONV SITE UPGRADE	Order one CA01246AA for each conventional site controller being upgraded. Order as a sub-item to the T7140.	CA01246AA	112	\$1,200.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

The items described on this page are used with various Motorola dispatch consoles as described in the matrix below. Some items may not be available in all regions so please plan accordingly.

Downloadable Matrix: [Consoles PC Hardware, Monitor, and Accessories Matrix](#)

An “X” in the matrix indicates that the peripheral/accessory is used on for the corresponding product.

For additional information on each of the items and how they’re used on a particular product please refer to the appropriate product planner.

Ordering Information

Supported Ordering Systems

1. MCC 7500 and MCC 7500E console equipment is ordered directly in COF. Note that no checking of the console design itself is done in COF.

Don't Forget These Items

1. Don't forget to order the headsets. They are not included with the headset jacks.
2. Don't forget to order both a top and a bottom for each headset.
3. Don't forget external power supplies and/or USB cables for USB mic and USB speaker.

Configuration

PC Hardware

Description	Full Description	Nomenclature	APC	Price
	Provides one HP Z2 workstation computer with the Windows 10			

Z2 G4 MINI WORKSTATION NON RETURNAB	Enterprise LTSC 2019 64 bit operating system. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed. Does NOT include an internal DVD drive. NOTE THE Z2 WORKSTATION WITH WINDOWS 10 IS NOT RETURNABLE (REALLY!!).	TT3492	708	\$2,500.00
ZBOOK 15 G6 NON RETURNABLE	Provides one HP ZBook 15 G6 laptop with the Windows 10 Enterprise LTSC 2019 64 bit operating system. Includes external brick power supply with North American AC line cord, and Recovery Media. Does NOT include an internal DVD drive. NOTE: THIS LAPTOP IS NON-RETURNABLE (REALLY!!)	TT3721	708	\$4,000.00
STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER	External Ethernet Adapter that connects to the computer via a USB connection. StarTech part number USB31000S.	DSUSB31000S	708	\$34.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with computers that don't contain an internal DVD drive. HP part number F2B56AA.	DSF2B56AA	708	\$172.00
STARTECH 7 PORT USB	Provides a 7 port USB 3.0 hub with Type A ports. Includes an external power supply. May be			

3.0 HUB	used with the HP Z2 Mini computer. StarTech part number ST7300U3M. Replaced USB hub DDN1574.	DSST7300U3M	708	\$93.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA compliant mounting sleeve for the HP Z2 workstation. HP part number Y7B61AA.	DSY7B61AA	708	\$77.00
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is 'ruggedized' and 'RF-Verified' by Consoles Engineering. Order as a main line item.	DSCDN6171B	708	\$459.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides one USB-based external sound card. Startech part number ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$47.00
MOUSE PADS 5 PACK	-	TDN9841	708	\$70.00

MSI Purpose-Built USB Microphone

Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	The B1951 microphone is specifically designed for use with the MCC 7500E console. It is a USB-based desktop microphone that connects directly to the dispatch positions's PC or USB hub (it does not connect to the AIM). It has an 18 inch flexible shaft, a transmit button, a monitor button and a noise cancelling feature that provides 20 dB of front to back noise attenuation.	B1951	754	\$445.00

MSI Purpose-Built USB Speaker

Description	Full Description	Nomenclature	APC	Price
	The B1952 speaker is specifically designed for use with			

SPEAKER, DESKTOP, USB	<p>the MCC 7500E console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch positions's PC or USB hub (it does not connect to the AIM).</p> <p>Each speaker has its own individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.</p>	B1952	754	\$485.00
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: AC LINE CORD, EUROPE	Adds a European AC line cord.	CA03407AA	754	\$18.00
ADD: AC LINE CORD, UK	Adds a UK AC line cord.	CA03408AA	754	\$39.00
ADD: AC LINE CORD, AUSTRALIA	Adds an Australian AC line cord.	CA03409AA	754	\$55.00
ADD: AC LINE CORD, BRAZIL	Adds a Brazilian AC line cord.	CA03410AA	754	\$35.00

USB Cables for MSI Purpose-Built Mic & Speaker

Description	Full Description	Nomenclature	APC	Price
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-	CA03413AA	754	\$29.00

	Built Mic (B1951) or Speaker (B1952).			
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Analog Speakers

Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$450.00
LOGITECH Z130 SPEAKERS	Provides a pair of Logitech Z130 PC speakers with a single volume control. Also includes an external 110V AC power supply.	DSLOGITECHZ130	708	\$37.00

USB Headset Base and Footswitch

Description	Full Description	Nomenclature	APC	Price
USB HEADSET BASE WITH PTT	Headset base with PTT. Requires headset top which is ordered separately. MCC 7500E supports one USB headset per console.	DDN2825	708	\$299.00
USB DUAL ACTION FOOTSWITCH W/INPUT JACK KINESIS	Order one per Console	DDN1396	229	\$220.00

Analog Headset Jack Box and Desk Microphone

Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension	B1913	443	\$200.00

	cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.			
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00

Analog Headset Base used with analog Headset Jack Box

Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	-	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	-	RLN6099A	706	\$242.00

Headset Tops (Universal) used with the Headset Base (analog or USB bases)

Description	Full Description	Nomenclature	APC	Price
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	-	RMN5150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	-	RMN5151A	706	\$156.00

Analog Footswitch

Description	Full Description	Nomenclature	APC	Price
FOOT, SWITCH TRADITIONAL	-	BLN6732	229	\$135.00
PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH	Dual pedal footswitch for use with the Motorola MCC 7500 and MCC 7500E dispatch consoles.	DSTWIN6328A	708	\$290.00

MOTOROLA MCC 7500 DISP	Similar to the BLN6732 except it has a RJ45 connector.			
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The following FRUs are orderable from the Parts Department

- 0183734Y01 Cable, AIM/VPM to Microphone (for B1914)
- 3071113H01 Cable, AIM/VPM to Headset Jack Box (for B1913)
- 3071114H01 Cable, Extender, Headset Jack Box (for B1913)
- 3508800G96 Wind Screen, Microphone (for B1914)
- 3082534Y21 VPM to Speaker Cable (for B1912)
- 3684434Y01 Speaker Volume Knob (for B1912)
- 3082933N08 Power Supply AC Line Cord (North American)
- 30009452004 Power Supply AC Line Cord (UK)
- 30009452003 Power Supply AC Line Cord (Continental European)

Orderable FRUs

Description	Full Description	Nomenclature	APC	Price
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
FRU, MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$445.00
FRU, SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$485.00

FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one end.	BKN2000	754	\$79.00
FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00
FRU, POWER SUPPLY WITH DC CORD	Power supply with DC cord but does not include an AC line cord.	BPN1030	754	\$150.00

Monitors

All monitors are [RF-Validated](#) by Console Engineering and are suitable for use with MCC 7500, MCC 5500 and MIP 5000 consoles.

All ISPO monitors are VESA compliant.

Image retention may occur when using LCD monitors in a 24/7, no-screensaver environment.

Please contact Shannon Fowler (Shannon.Fowler@motorolasolutions.com) for more information on the monitors listed on this page or if you need a monitor that isn't listed.

STANDARD FORMAT MONITORS (4:3 Aspect Ratio) NON-TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00

STANDARD FORMAT MONITORS (4:3 Aspect Ratio) TOUCH MONITORS

Multi-touch monitors may be used with the following consoles on the specified releases. Note that the multi-touch gestures themselves are not supported. Only the legacy touch operations are supported.

MCC 7500/7100 with system release 7.13 and later

MCC 5500 with system release 2.7 and later

MIP 5000 with system release 4.2 and later

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES				

19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00
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WIDE FORMAT MONITORS (16:9 Aspect Ratio) NON-TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,557.00

WIDE FORMAT MONITORS (16:9 Aspect Ratio) TOUCH MONITORS

Multi-touch monitors may be used with the following consoles on the specified releases. Note that the multi-touch gestures themselves are not supported. Only the legacy touch operations are supported.

MCC 7500/7100 with system release 7.13 and later

MCC 5500 with system release 2.7 and later

MIP 5000 with system release 4.2 and later

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00

Ship Card

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MCC 7500 Dispatch Console

-- Dispatch Positions, Dispatch API and Product Software --

Ordering Information

Features

The Motorola MCC 7500 Dispatch Console is a high tier IP dispatch console for use with ASTRO 25 radio systems. It supports an evolving feature set which includes the following features.

System Level Features

- Seamless IP Connectivity with Radio System
- Configured via Radio System Configuration Manager
- Full Participation in Radio System Fault Management
- Full Participation in Radio System Agency Partitioning
- Compatible with MKM 7000 Console Alias Manager
- Full Participation in Radio System Dynamic System Resilience (DSR)

ASTRO 25 Trunking Features

- Full Access to ASTRO 25 Trunked Radio System
- IMBE/AMBE Vocoder for ASTRO 25 Resources
- Full Support for Project 25 FDMA (Phase I) Operation
- Full Support for Project 25 TDMA (Phase II) Operation
- Trunked Talk Group Calls
- Trunked Announcement Group Calls
- Trunked Private Calls
- Trunked Call Alerts
- Trunked Emergency Alarms
- Trunked Emergency Calls
- Trunked Tactical/Normal
- Trunked Repeater On/Off
- Trunked Remote Monitor
- Trunked PTT ID and Alias

ASTRO 25 Conventional Features

- PTT ID and Alias
- Call Alert

- Emergency Alarm and Call
- Voice Selective Call
- Secure Key Select
- Received Key Display
- Momentary Key Override
- Radio Status Display
- Radio Message Display
- Remote Monitor
- Mixed Mode (Analog/Digital) Operation
- Secure Call
- Secure Keypad Select
- Autokey Key Display
- Radio Enable/Disable
- Radio Status Request
- Radio Check
- Ignore Mobile to Mobile Calls

MDC 1200 Conventional Features

- PTT ID and Alias
- Emergency Alarm
- Voice Selective Call
- Radio Status Display
- Radio Message Display
- Remote Monitor
- Call Alert
- Emergency Call
- Radio Enable/Disable
- Radio Status Request
- Radio Check
- Ignore Mobile to Mobile Calls

Analog Conventional Features

- Tone Remote Control
- Analog Talk & Listen
- Private Line (PL) Selection
- Wild Card I & II
- Monitor
- Supervisor Takeover (via Relay)
- RF Cross Mute
- E & M Control
- Frequency Selection
- Repeater On/Off
- Mute Second Receiver
- Line Operated Busy Light (LOBL)
- Main/Alternate Conventional Interfaces
- RF Cross Busy

General Secure Features

- Supports up to 60 Encrypted Calls Simultaneously
- Supports up to 6 Encryption Algorithms Simultaneously

- AES Algorithm
- DES-XL Algorithm
- DVP-XL Algorithm
- Multi-Select Cross-Mode Alert
- Receive Cross-Mode Indication
- Key Management via KVL
- Key Management via OTEK (Over The Ethernet Keying)
- DES-OFB Algorithm
- ADP Algorithm
- DVI-XL Algorithm
- Patch Cross-Mode Alert
- Clear Audio Alert
- Key Management via Store and Forward (KMF with KVL)

General Console Features

- Intuitive, Easy-to-Use Graphical User Interfaces (Elite or IED)
- Up to 8 Speakers
- Desk Microphone
- Instant Recall Recorder Port for Radio Audio
- Local Logging Recorder Port
- General Transmit
- Select/Unselect
- 15 Customizable Alert Tones (Trunking & Conventional)
- VU Meter (On Screen)
- Patch (Standard & Permanent)
- ACIM Link to Console
- Elite GUI is Highly Configurable to meet Unique Customer Needs
- Up to 2 Headsets
- Footswitch
- Instant Recall Recorder Port for Console Telephony Audio
- Telephone Headset Port (for radio & telephone on one headset)
- Instant Transmit
- Multi-Select
- Channel Marker (Trunking & Conventional)
- Integrated Tone Paging Encoder
- Generic Auxiliary Inputs & Outputs

Integrated Tone Paging Encoder Features

- Manual Individual Pages
- Manual Group Pages
- Sequential Paging Operation
- Pre-Defined Individual Pages
- Pre-Defined Group Pages
- Simultaneous Paging Operation

- Quick Page Buttons
- PL Stripping
- Quick Call II B - Tone & Voice
- Quick Call II D - Battery Saver
- Quick Call I
- Touch Code
- Single Tone 0.5
- Digital Dial 1 (1500 Hz)
- Digital Dial 3 (1500/2805)
- ASTRO 25 Conventional Call Alert
- Talk Extend
- "Selected Channel" Paging
- Quick Call II C - Tone Only
- Quick Call II E - Competitive
- Knox
- Motorola 5/6 Tone
- Single Tone 1.5
- Digital Dial 2 (2805 Hz)
- Trunked Call Alert
- MDC 1200 Call Alert

Enhanced Console Telephony Features

- Supports POTS and/or E1/T1 Connections
- Answer/Initiate Calls from Console GUI
- Dialing Keypad
- Configurable Ring Tones
- Caller ID
- Call Hold
- Call Forwarding
- Call Transfer
- Speed Dials
- Phone Books
- Patch Radio & Telephone
- Patch Go-Ahead Tones

VPM Features

- Supports up to 8 Speakers
- Supports up to 2 Headsets
- Supports one Desktop Microphone
- Supports one Footswitch
- Telephone Headset Port (for radio & telephone on one headset)
- Dedicated Private Auxiliary Inputs & Outputs
- Instant Recall Recorder Port for Console Telephony Audio
- Instant Recall Recorder Port for Radio Audio
- Local Logging Recorder Port
- External Paging Encoder Port
- Ethernet Connection between VPM and PC (up to 200 meters)
- Multiple Mounting Options

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the 'Standard Support' period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the 'Extended Support' period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the 'End of Support' period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

VPM-Based Dispatch Consoles Items

The items which comprise a complete VPM-based dispatch console are available for purchase via the models, options and accessories described below. A combination of these items is required to create a complete VPM-based dispatch console as described in the following paragraphs.

Dispatch Console PC

A VPM-based dispatch console uses a dropship workstation PC together with a VPM. The dropship workstation PC comes with a Windows operating system, keyboard and mouse. It does not include a monitor or Ethernet cable. These items must be ordered separately.

Each PC used with a dispatch console also requires the Symantec Anti-Virus application. [Network Security Price Page](#)

Note that the PC ships with a North American AC line cord.

VPM and Licenses

When used with a MCC 7500 dispatch console, the VPM requires a *MCC 7500 Basic Console Functionality Software License* (CA01642AA) and one of the AC line cord options (CA00140AA, AB, AC, AF or AG).

The basic console functionality software license grants the customer the right to use the features supported by the dispatch console application software except for the features covered by the following licenses. Note that it also includes the right to use the API portion of the software.

Depending on the features desired on the dispatch console, one or more of the following license options may also have to be ordered with the VPM.

- *ADD: MCC 7500 Trunking Operation License* (CA01643AA) - This option is required if the dispatch console will be used to control ASTRO 25 trunking resources, SmartZone trunking resources (via a SmartX site converter) or SMARTNET trunking resources (via a SmartX site converter).
- *ADD: MCC 7500 Advanced Conventional Operation License* (CA01644AA) - This option is required if the dispatch console will be used to control ASTRO 25 conventional channels, MDC 1200 channels and/or consolettes connected via ACIM Link.
- *ADD: MCC 7500 Inbound Event Display (IED) License* (CA01645AA) - This option is required if the dispatch console will use the Inbound Event Display (IED) graphical user interface.
- *ADD: MCC 7500 Enhanced Console Telephony Operation License* (CA02073AA) - This option is required if the dispatch console will use any of the enhanced console telephony features.
- *ADD: MCC 7500 Advanced SECURENET Operation License* (CA01972AA) - This option is required if the dispatch console will be used to control Advanced SECURENET channels.

The VPM does not include the following items. These must be ordered separately if required.

- Speakers
- Desktop Microphone
- Headset Jacks
- Footswitch
- Ethernet Cable

Secure Options

The VPM is capable of supporting up to 6 different encryption algorithms simultaneously. When secure operation is desired, order the *ADD: MCC 7500 Secure Operation License* option (CA00147AF) and from 1 to 6 encryption algorithm options (CA00143AC, CA00144AC, CA00145AC, CA00146AC, CA00182AB or CA00245AA).

A particular type of encryption algorithm may only be ordered once with a particular VPM. That is, up to 6 algorithms may be ordered with a VPM, but they must all be different algorithms.

If remote secure key management across the radio system's IP network from a KMF is desired, order the *ADD: Over The Ethernet Keying (OTEK) Operation License* option (CA01220AA).

The TKN8531C cable is used to connect a KVL to a VPM for programming/managing secure key material.

“The Peripherals”

The peripherals are the items which provide interfaces between the VPM and the external environment. These are:

- Speaker (B1912) - Max of 8 per VPM
- Desktop Microphone (B1914) - Max of 1 per VPM
- Headset Jack (B1913) - Max of 2 per VPM
- Footswitch (DSTWIN6328A) - Max of 1 per VPM

The speakers, microphone, headset jacks and footswitch are optional depending on the customer's needs.

Each MCC 7500 dispatch console requires 1 and only 1 VPM.

The VPM is 1 Rack Unit high and is capable of being mounted in a 19" rack. It may also be mounted beneath a writing surface or placed on top of a writing surface. Mounting hardware is included with the VPM.

Each VPM requires an AC line cord option (CA00140AA, AB, AC, AF or AG).

Ordering information for the VPM is provided in the Models, Options and Accessories sections below.

Dual Instant Recall Recorder (IRR)

The dual IRR is compatible with VPM-based dispatch consoles. The dual IRR is capable of recording and playing back the audio from two different sources (e.g., radio and telephone), but may be used to record a single source if desired. If the IRR will be used to record the audio from only one source, the sound card does not need to be ordered. If the IRR will be used to record the audio from two sources, the sound card must be ordered. Only one set of PC speakers needs to be ordered regardless of whether the IRR is recording one or two sources of audio.

Please refer to the [IRR Price Page](#) for information about ordering IRRs for use with MCC 7500 consoles.

Dropship Items

The following dropship items are compatible with VPM-based dispatch consoles. The dropship items are accessories which are not manufactured by Motorola. These include:

- Monitor [Monitor Price Page](#)
- Trackball (See Accessories section below)
- Ethernet Cable
- Headset [Peripheral Devices Price Page](#)
- Dual IRR [IRR Price Page](#)

Note: Headsets certified for use with the MCC 7500 dispatch console are only available from Motorola. While other headsets may work, Motorola cannot guarantee the quality of the audio, especially dispatcher transmit audio, if they are used.

Order the desired dropship items for each dispatch console. Use the links next to the items above to see the ECAT Pages for them. They may also be ordered for use as spares.

Software and Software Refresh Items

The software used on the dispatch console is available for purchase via the model and options shown below. The *MCC 7500 ASTRO 25 Software* (B1905) is a CD which contains the application software for both the dispatch console and the archiving interface server. The two refresh license options (CA00899AA and CA00900AA) provide licenses for using new versions of the dispatch console or archiving interface server software.

These items may be used in the following scenarios.

Buying a New Console System

The dispatch consoles and archiving interface servers come with the appropriate software installed on their computer hard disks, but they do not come with a copy of the software on CD or DVD. It is strongly suggested that at least one *MCC 7500 ASTRO 25 Software* model (B1905) be ordered for each console system as a backup copy.

It is not necessary to order either of the software refresh license options when buying a new console system. They are used when upgrading an existing console system.

Upgrading an Existing MCC 7500 Console System

Upgrade an existing Motorola MCC 7500 console system to the latest version of software as follows.

- Order the desired number of *MCC 7500 ASTRO 25 Software* models (B1905) (at least one is required, but more may be ordered if the customer wants them)
- Order one *ADD: Dispatch Console Software Refresh License* option (CA00899AA) for each dispatch console being upgraded
- Order one *ADD: Archiving Interface Server Software Refresh License* option (CA00900AA) for each archiving interface server being upgraded

The two software refresh license options provide licenses for using the new versions of the dispatch console or archiving interface server software. They must be ordered as sub-items to the *MCC 7500 ASTRO 25 Software* model. The quantities of the software refresh license options may (and most likely will) exceed the quantity of the main model.

Note that the version of software used in the dispatch consoles and AISs must match the versions of software in all the other products in the radio system (zone controller, network manager, CCGWs, Aux I/O servers, etc.). It is usually not possible to upgrade just the dispatch consoles and AISs themselves.

Buying Additional Copies of the Software

If a customer wishes to have additional copies of the dispatch console or archiving interface server software, then the *MCC 7500 ASTRO 25 Software* model (B1905) may be ordered by itself.

Adding Operational Licenses to Fielded Dispatch Consoles and AISs

The following licenses are for use with fielded MCC 7500 dispatch consoles and archiving interface servers. The BLN1316 and BLN1317 are used only with customers who are either converting a SmartX Site Converter VPM into a MCC 7500 VPM or who are using FRUs to

build a MCC 7500 dispatch console or archiving interface server. The rest of the licenses are used when adding the indicated functionality to a fielded dispatch console or archiving interface server, when converting a SmartX Site Converter VPM into a MCC 7500 VPM or when using FRUs to build a MCC 7500 dispatch console or archiving interface server.

Note that the CA01221AA and CA01221AB options are the equivalent of the BLN1316 + BLN1311 + BLN1312, so these do not need to be ordered if the CA01221AA or CA01221AB was ordered with the original dispatch console.

Note also that the CA00288AA and CA00288AB options are the equivalent of the BLN1317, so it does not need to be ordered if the CA00288AA or CA00288AB was ordered with the original archiving interface server.

Adding Basic Dispatch Operation to a Dispatch Console being built from a Converted SmartX VPM or a VPM FRU

Field-assembled VPM-based dispatch consoles can add the licensing for basic console operation by ordering the *Basic Console Operation Field-Add License* (BLN1316) for each dispatch console being assembled in the field.

Adding AIS Software License to an AIS being built from a Converted SmartX VPM or a VPM FRU

Field-assembled VPM-based archiving interface servers can add the AIS license by ordering the *AIS Software Field-Add License* (BLN1317) for each archiving interface server being assembled in the field.

Adding Secure Operation

Existing dispatch consoles and archiving interface servers can add the licensing for secure operation by ordering the *Secure Operation Field-Add License* (BLN1304) for each dispatch console and/or archiving interface server that needs the feature. Note that this license does not provide any required hardware or encryption algorithms. They must be ordered separately.

Adding OTEK Operation

MCC 7500 dispatch consoles and archiving interface servers can support Over the Ethernet Keying (OTEK) operation beginning in the 7.7 system release. Existing systems that are 7.7 or later can add the licensing for OTEK operation by ordering the *Over the Ethernet Keying (OTEK) Operation Field-Add License* (BLN1302) for each dispatch console and/or archiving interface server that needs the feature.

Adding Trunking Operation

Existing dispatch consoles can add the licensing for trunking operation by ordering the *MCC 7500 Trunking Operation Field-Add License* (BLN1311) for each dispatch console that needs the feature.

Adding Advanced Conventional Operation

Existing dispatch consoles can add the licensing for advanced conventional operation by ordering the *MCC 7500 Advanced Conventional Operation Field-Add License* (BLN1312) for each dispatch console that needs the feature.

Adding Inbound Event Display Operation

Existing dispatch consoles can add the licensing for IED operation by ordering the *MCC 7500 Inbound Event Display (IED) Operation Field-Add License* (BLN1313) for each

dispatch console that needs the feature.

Adding or Upgrading Encryption Algorithms on VPM-Based Dispatch Consoles and AISs using a KVL 3000 Plus

Due to obsolete part issues, it is no longer possible to use KVL 3000 Plus KVLs to add algorithms to MCC 7500 consoles. A KVL 4000 KVL must be used. Please see the following section.

Adding or Upgrading Encryption Algorithms on VPM-Based Dispatch Consoles and AISs using a KVL 4000

If a customer wishes to add new encryption algorithms to existing secure-capable VPM-based MCC 7500 dispatch consoles and/or archiving interface servers using a KVL 4000 KVL, the *MCC 7500 VPM Secure Algorithm Upgrade for KVL 4000* (T8063) should be ordered along with the desired algorithm options. This provides a CD containing the desired numbers and types of encryption algorithms. The CD is then used in conjunction with a KVL 4000 Key Variable Loader (KVL) to add the algorithms to secure cards. The KVL 4000 keyloader must have at least the R02.05.03 (also listed as 1.3.0000.174) version of software to be able to load algorithms in VPMs.

Note: The serial number of the KVL 4000 keyloader must be entered into the ordering system when ordering the T8063. This serial number will be loaded on the CD by the factory. The CD can only be used by the keyloader with the matching serial number.

The *MCC 7500 VPM Secure Algorithm Upgrade* may also be used to upgrade encryption algorithms to the latest versions in existing secure-capable VPM-based MCC 7500 dispatch consoles and/or archiving interface servers.

Order one algorithm option for each VPM that is being upgraded. For example, to add the ADP algorithm to three VPMs, order one T8063 with three CA00245AA options.

Multiple types of algorithm options may not be ordered on the same T8063. For example, to add the DES-OFB and AES algorithms to twenty-four VPMs, order two T8063s with twenty-four CA00143AC options on one and twenty-four CA00182AB options on the other.

The T8063 can support up to 100 copies of any single algorithm option.

When adding algorithms to a VPM on a 7.7 system, make sure the VPM has the 7.7 SER or later version of software (VPM_R7.7.00.23). Earlier versions of the 7.7 VPM software do not allow algorithms to be added in the field. Contact Upgrade Operations to obtain the 7.7 SER software. VPMs on 7.8 and later systems do not have any special software version requirements.

Dispatch API Software Development Kit

The Software Development Kit (SDK) for the MCC 7500 Dispatch API requires a license agreement to be executed between the software developer and Motorola Solutions. The license agreement, and instructions for completing it, can be found on the [MCC 7500 wiki page](#). After the license agreement has been signed by both parties, an invoice will be issued for payment of the license fee (\$5000.00). After payment has been received, the SDK will be shipped to the developer. The B1925 is no longer used to order the SDK. **Please note that**

the licensing process typically takes around 8 weeks to complete. Please plan accordingly.

The SDK is required when a customer wishes to use the MCC 7500 Dispatch API to allow 3rd party software to communicate with the MCC 7500 dispatch console or if they wish to use a custom graphical user interface (GUI) on the dispatch console.

The right to use the Dispatch API is covered by the console software license (CA01221AA, CA01221AB, CA01222AA or CA01642AA) which must be purchased with each dispatch console, so no additional licenses are required.

Technical support for the SDK may be ordered using the QLN3437 *Field Add MCC 7500 SDK Technical Support* which provides one hour of technical support. Multiple quantities of the QLN3437 may be ordered if more than one hour of support is desired. The QLN3437 is a "billing only" item (a BB item) and therefore must be on a factory order by itself.

Note that if the QLN3437 is not ordered, no plant technical support will be provided for the software developers using the SDK.

Enhanced Console Telephony Media Gateways

The Enhanced Console Telephony feature is not currently available with MCC 7500 dispatch positions.

Field Replaceable Units (FRUs)

The following items are available directly from the Radio Products and Services Division (RPSD, formerly AAD). None of these items can be ordered in COF; they must be ordered directly from RPSD. Also see the circuit board FRUs listed in the Accessories section at the bottom of this page.

3082534Y18 - VPM/GPIOM to Speaker Cable

3071113H01 - VPM/GPIOM to Headset Jack Permanent Cable

3071114H01 - VPM/GPIOM to Headset Jack Extension Cable

0183734Y01 - VPM/GPIOM to Microphone Cable

01009513004 - VPM/GPIOM Power Supply (w/o DC cable or AC line cord, not orderable in COF)**

30009351001 - VPM/GPIOM DC Power Cable (connects 01009513001 power supply to VPM or GPIOM)**

3082933N08 - AC Line Cord (North American)

3082933N13 - AC Line Cord (UK)

3082933N09 - AC Line Cord (Continental European)

3508800G96 - Microphone Wind Screen

3684434Y01 - Speaker Volume Knob

60009256001 - Secure Key Retention Battery (for VPM, not orderable in COF)

0310907A98 - Screws for VPM Rack Mounting Bracket (two screws required for each bracket)

0771936H01 - VPM Rack Mounting Bracket (two brackets required for each VPM)

** Note that the 0183650Y03 GPIOM/VPM Power Supply has been replaced with a Level V energy efficiency compliant model. The 0183650Y03 power supply has a non-detachable DC power cable, but the new supply has a detachable DC power cable. Please order both the 01009513004 Power Supply and 30009351001 DC Power Cable when replacing a

0183650Y03.

The various board-level FRUs for the MCC 7500 dispatch console are orderable via the accessory numbers shown below.

Manuals

The various manuals for the MCC 7500 dispatch console are included in the ASTRO 25 Radio System Documentation Set. The individual manuals (or the complete documentation set) can be downloaded from the [ASTRO 25 Documentation Web Site](#).

MCC 7500 Product Planner and Ordering Guide

The MCC 7500 Product Planner and Ordering Guide is available on the [High Tier Consoles wiki page](#).

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.

Don't Forget These Items for Each Dispatch Console

1. VPM, Speaker, Microphone, Headset Jack
2. AC Line Cords
3. Monitor
4. Software License

Links to Other Elements of the Console Sub-System

1. [Conventional Channel Gateway Items](#)
2. [Auxiliary Input/Output Items](#)
3. [Archiving Interface Server \(AIS\) Items](#)
4. [Logging Recorder Items](#)
5. [Dispatch Furniture Info](#)
6. [Manuals](#)

Configuration

Models

Dispatch Console PC

VPM

Description	Full Description	Nomenclature	APC	Price
MOTOROLA VOICE PROCESSOR MODULE	Provides one Voice Processor Module (VPM) unit for an MCC 7500 console. Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF). When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.	B1933	443	\$11,920.00

Software Items

Description	Full Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE	Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00

Note: The B1925 is no longer used to order the SDK for the MCC 7500 Dispatch API. Please see the "Dispatch API Software Development Kit" section above for information on how to obtain the SDK.

Options

Software License

Description	Full Description	Nomenclature	APC	Price
	Provides a license for using the MCC 7500 Dispatch Console			

<p>ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE</p>	<p>Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/os, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1933.</p>	<p>CA01642AA</p>	<p>443</p>	<p>\$14,400.00</p>
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Upgrade Software Licenses

Description	Full Description	Nomenclature	APC	Price
<p>ADD: MCC 7500 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE</p>	<p>Provides a license for upgrading to the latest version of the MCC 7500 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1905.</p>	<p>CA00899AA</p>	<p>443</p>	<p>\$3,000.00</p>
<p>ADD: MCC 7500 AIS SOFTWARE REFRESH LICENSE</p>	<p>Provides a license for upgrading to the latest version of the MCC 7500 AIS Software. One is required for each AIS being upgraded. Order as a sub-item to the B1905.</p>	<p>CA00900AA</p>	<p>443</p>	<p>\$2,700.00</p>

Trunking & Advanced Conventional Operation

Description	Full Description	Nomenclature	APC	Price
<p>ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION</p>	<p>Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the</p>	<p>CA01643AA</p>	<p>443</p>	<p>\$6,000.00</p>

	B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.			
ADD: MCC 7500 /MCC 7100 ADV CONV L OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,600.00

Advanced SECURENET Operation

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SECURENET OPERATION	Required when the MCC 7500 dispatch position is used to control Advanced SECURENET resources (Conventional channels using an Advanced SECURENET CIU device). Order as a sub-item to the B1933.	CA01972AA	443	\$50,000.00

Secure Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 SECURE OPERATION	Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.	CA00147AF	443	\$3,900.00
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00

Secure Algorithms

Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB ALGORITHM	Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00143AC	443	\$900.00
ADD: DES-XL ALGORITHM	Provides factory programming for the DES-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.	CA00144AC	443	\$900.00
ADD: DVI-XL ALGORITHM	Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00145AC	443	\$900.00
ADD: DVP-XL ALGORITHM	Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.	CA00146AC	443	\$900.00
ADD: AES ALGORITHM	Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00182AB	443	\$900.00
ADD: ADP ALGORITHM	Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server,	CA00245AA	443	\$900.00

	VPM FRU or Secure Card FRU model.			
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Inbound Event Display GUI

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100	CA01645AA	443	\$6,300.00

Enhanced Console Telephony

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 Enhanced Console Telephony Operation License	Required when the MCC 7500 dispatch position is used to control enhanced console telephony phone lines. Order as a sub-item to the B1933.	CA02073AA	443	\$1,200.00

Power Cords

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, NORTH AMERICAN	Adds one AC line cord with a North American plug.	CA00140AA	443	\$0.00
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, AUSTRALIA	Adds one AC line cord with an Australian plug.	CA00140AF	277	\$0.00
ADD: AC LINE CORD, BRAZIL	Adds one AC line cord with a Brazilian plug.	CA00140AG	277	\$0.00

API Technical Support

Description	Full Description	Nomenclature	APC	Price
FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	Provides one hour of technical support for the SDK from the factory. May be ordered multiple times if more than one hour of support is required. May be ordered to add additional technical support for software developers who are already using the SDK. Note that this is a billable item only (BB item) and must be ordered by itself on its own order.	QLN3437	443	\$1,000.00

Accessories

Enhanced Console Telephony Media Gateways

The MCC 7500 console telephony media gateways have been cancelled by Cisco and are no longer available. Because the replacement gateways are not yet available, there will be a period of time where it will not be possible to order the required hardware to support the MCC 7500 console's enhanced console telephony feature. At this time, there is no date for when a replacement will be available.

Because Cisco is ending their software support and security update patching on December 8, 2020, the last ASTRO 25 system release that will support the Cisco media gateways will be the 7.18 release. They will not be supported in 7.19 and later releases. Also, because Cisco is ending their software support and security update patching on December 8, 2020, Motorola Solutions will not be able to provide software support or security update patching for the Cisco products after that date. Customers who upgrade to the 7.18 release are strongly encouraged to replace their Cisco media gateways with the replacement solution before December, 2020.

Description	Full Description	Nomenclature	APC	Price
MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	Provides a CD-ROM containing a copy of the operating system for the enhanced console telephony media gateways. This should be ordered for use in upgrade or disaster recovery scenarios.	BVN1014A	877	\$500.00

Field-Add Software Licenses

Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$3,900.00
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,600.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,300.00
MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	-	BLN1316	443	\$14,400.00
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	-	BLN1317	443	\$18,072.00
MCC 7500 Enhanced Console Telephony Operation Field-Add License	-	BLN1320A	443	\$1,200.00

Trackball

Description	Full Description	Nomenclature	APC	Price
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is ruggedized and 'RF-CERTIFIED' by Consoles Engineering. Order as a main line item.	DSCDN6171B	708	\$459.00

Programming Cables

Description	Full Description	Nomenclature	APC	Price
	Keyloading cable for APX 7500, XTL			

CABLE FOR RNC, DIU MEGEG	5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
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Field Replacement Units

Note: We've been seeing a significant number of VPM FRUs being returned to the Repair Depot because they don't have the necessary encryption algorithms. Please read the note text under the B1934 below and make sure any required encryption algorithms are ordered when the VPM FRU is ordered.

Description	Full Description	Nomenclature	APC	Price
MCC 7500 VOICE PROCESSOR MODULE FRU	-	B1934	443	\$11,830.00
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
	Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided.			

SHIELD,VPM SHIELD KIT	When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324 in.s. For example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.	BLN1324	443	\$0.00
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Algorithm Upgrades/Field-Adds

Description	Full Description	Nomenclature	APC	Price
MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	-	T8063	443	\$250.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1905	MCC 7500 ASTRO 25 SOFTWARE	443	27
CNTRLR	SSO	B1933	MOTOROLA VOICE PROCESSOR MODULE	443	8
CNTRLR	SSO	B1934	MCC 7500 VOICE PROCESSOR MODULE FRU	443	7
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1276	DESKTOP MIC CIRCUIT BOARD FRU	443	19

CNTRLR	SSO	BLN1277	HEADSET JACK CIRCUIT BOARD FRU	443	19
CNTRLR	SSO	BLN1302	OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	443	15
CNTRLR	SSO	BLN1304	SECURE OPERATION FIELD-ADD LICENSE	443	31
CNTRLR	SSO	BLN1311	MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	443	26
CNTRLR	SSO	BLN1312	MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD- ADD LICENSE	443	4
CNTRLR	SSO	BLN1313	MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	443	40
CNTRLR	SSO	BLN1316	MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	443	4
CNTRLR	SSO	BLN1317	MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	443	39
SYSPERIPH	SSO	BLN1320A	MCC 7500 Enhanced Console Telephony Operation Field-Add License	443	40
CNTRLR	SSO	BLN1324	SHIELD,VPM SHIELD KIT	443	53
SYSPERIPH	SCB	BVN1014A	MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	877	40
QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
CNTRLR	SCG	QLN3437	FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	443	20
CNTRLR	SCB	T8063	MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	443	37
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19

SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEG	362	19

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[MODEL](#)

[ORDERING
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[CONFIGURATION](#)

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Model

Motorola MCC 7500 Dispatch Console

-- Dispatch Positions, Dispatch API and Product Software --

Ordering Information

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the **Standard Support** period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the **Extended Support** period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the **End of Support** period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

MCC 7500 Product Planner and Ordering Guide

The MCC 7500 Product Planner and Ordering Guide is available on the [High Tier Dispatch Console wiki page](#).

Dispatch API Software Development Kit

The Software Development Kit (SDK) is required when a customer wishes to use the MCC 7500E/7500 Dispatch API to allow 3rd party software to communicate with the MCC 7500E dispatch console or if they wish to use a custom graphical user interface (GUI) on the dispatch console.

The MCC 7500E utilizes the same SDK as the MCC 7500 and MCC 7100 consoles. Please see the [High Tier Dispatch Console wiki page](#) for more information about the SDK and SDK technical support.

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.
3. Please note that the latest available release of software and hardware will be provided when ordering through the system. If earlier release versions are required then a case must be opened with the System Support Center (SSC) to obtain the desired version from Upgrade Operations (UO).

Don't Forget These Items for Each Dispatch Console

1. PC, Monitor, Speakers, Microphone, and other accessories.
2. Software Entitlement Licenses

Links to Other Elements of the Console Sub-System

1. [MCC Series PC, Monitor, and accessories](#) (also available in pulldown box above)
2. [Manuals](#)
3. Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features.
4. [MCC 7500 IP Dispatch Console](#)
5. [MCC 7500E IP Dispatch Console](#)
6. [MCC 7500 IP Logging Recorder](#) (includes Dual IRR in it's pulldown box).
7. Also see the pulldown box at the top of this page for other elements.

Configuration

Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired (more VPM specific FRU's below)

Please see the [MCC Series PC, Monitor, and accessories](#) in the pulldown box above.

VPM

Description	Full Description	Nomenclature	APC	Price
MOTOROLA VOICE PROCESSOR MODULE	Provides one Voice Processor Module (VPM) unit for an MCC 7500 console. Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF). When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.	B1933	443	\$11,920.00

Order the MCC 7500 IP Console SW Application

Description	Full Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE	Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00

Software License

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7500 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/os, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1933.	CA01642AA	443	\$14,400.00

Upgrade Software Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1905.	CA00899AA	443	\$3,000.00

Trunking & Advanced Conventional Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,000.00

ADD: MCC 7500 /MCC 7100 ADV CONVL OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,600.00
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Secure Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 SECURE OPERATION	Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.	CA00147AF	443	\$3,900.00
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00

Secure Algorithms

Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB ALGORITHM	Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGEG, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00143AC	443	\$900.00
	Provides factory programming for the DES-XL encryption algorithm. Order			

ADD: DES-XL ALGORITHM	as a sub-item to the appropriate MGEg, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.	CA00144AC	443	\$900.00
ADD: DVI-XL ALGORITHM	Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGEg, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00145AC	443	\$900.00
ADD: DVP-XL ALGORITHM	Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGEg, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.	CA00146AC	443	\$900.00
ADD: AES ALGORITHM	Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGEg, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00182AB	443	\$900.00
ADD: ADP ALGORITHM	Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGEg, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00245AA	443	\$900.00

Inbound Event Display GUI

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100	CA01645AA	443	\$6,300.00

Enhanced Console Telephony

NOTE: The enhanced console telephony functionality described here is for historical information purposes only. The MCC 7500 dispatch position does not currently support a console telephony solution for new deployments due to the cancellation of the telephony media gateways by the vendor.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 Enhanced Console Telephony Operation License	Required when the MCC 7500 dispatch position is used to control enhanced console telephony phone lines. Order as a sub-item to the B1933.	CA02073AA	443	\$1,200.00

VPM Power Cords

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, NORTH AMERICAN	Adds one AC line cord with a North American plug.	CA00140AA	443	\$0.00
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, AUSTRALIA	Adds one AC line cord with an Australian plug.	CA00140AF	277	\$0.00
ADD: AC LINE CORD, BRAZIL	Adds one AC line cord with a Brazilian plug.	CA00140AG	277	\$0.00

Enhanced Console Telephony Media Gateways

The MCC 7500 console telephony media gateways have been cancelled by Cisco and are no longer available. The enhanced console telephony functionality described here is for historical information purposes only. The MCC 7500 dispatch position does not currently support a console telephony solution for new deployments due to the cancellation of the telephony media gateways by the vendor.

Because Cisco is ending their software support and security update patching on December 8, 2020, the last ASTRO 25 system release that will support the Cisco media gateways will be the

7.18 release. They will not be supported in later releases. Also, because Cisco is ending their software support and security update patching on December 8, 2020, Motorola Solutions will not be able to provide software support or security update patching for the Cisco products after that date.

Description	Full Description	Nomenclature	APC	Price
MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	Provides a CD-ROM containing a copy of the operating system for the enhanced console telephony media gateways. This should be ordered for use in upgrade or disaster recovery scenarios.	BVN1014A	877	\$500.00

Field-Add Software Licenses

Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$3,900.00
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,600.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,300.00
MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	-	BLN1316	443	\$14,400.00
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	-	BLN1317	443	\$18,072.00
MCC 7500 Enhanced Console Telephony Operation Field-Add License	-	BLN1320A	443	\$1,200.00

KVL Programming Cable

The cable used to connect the KVL to the VPM in the dispatch position and the archiving interface server is the TKN8531.

Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGEG	-	TKN8531C	362	\$260.00

Field Replacement Units (VPM Specific)

Note: We've been seeing a significant number of VPM FRUs being returned to the Repair Depot because they don't have the necessary encryption algorithms. Please read the note text under the B1934 below and make sure any required encryption algorithms are ordered when the VPM FRU is ordered.

The items listed in this section are specific to MCC 7500. Please also see the FRUs and other accessories listed in the [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Description	Full Description	Nomenclature	APC	Price
MCC 7500 VOICE PROCESSOR MODULE FRU	Provides the housing and circuit board used for the B1933 VPM. Does not include the power supply, AC power cord, or DC power cord. Each of these items must be ordered separately from RPSD. If secure capability is required, then order the following options with the B1934: - the secure operation option (CA00147AF) - from 1-6 encryption algorithm options Order as a main line item.	B1934	443	\$11,830.00
SHIELD,VPM SHIELD KIT	Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided. When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324's. For	BLN1324	443	\$0.00

	example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.			
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Algorithm Upgrades/Field-Adds

Description	Full Description	Nomenclature	APC	Price
MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	<p>Provides a CD that is used to add new algorithms to existing Telephone Media Gateways (TMGs), VPM-based MCC 7500 consoles and VPM-based AISs. Also used to upgrade existing algorithms in existing VPM-based MCC 7500 consoles or AISs. Requires sufficient algorithm options to cover every added/upgraded algorithm in every console or AIS that is affected. The CD is compatible with the KVL 4000 and KVL 5000 Key Variable Loaders. The serial number of the KVL keyloader is required to be entered into the ordering system when ordering the T8063. Order as a main line item.</p>	T8063	443	\$250.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1905	MCC 7500 ASTRO 25 SOFTWARE	443	27

CNTRLR	SSO	B1933	MOTOROLA VOICE PROCESSOR MODULE	443	8
CNTRLR	SSO	B1934	MCC 7500 VOICE PROCESSOR MODULE FRU	443	7
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1275	DESKTOP SPEAKER CIRCUIT BOARD FRU	443	11
CNTRLR	SSO	BLN1276	DESKTOP MIC CIRCUIT BOARD FRU	443	19
CNTRLR	SSO	BLN1277	HEADSET JACK CIRCUIT BOARD FRU	443	19
CNTRLR	SSO	BLN1302	OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	443	15
CNTRLR	SSO	BLN1304	SECURE OPERATION FIELD-ADD LICENSE	443	31
CNTRLR	SSO	BLN1311	MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	443	26
CNTRLR	SSO	BLN1312	MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD- ADD LICENSE	443	4
CNTRLR	SSO	BLN1313	MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	443	40
CNTRLR	SSO	BLN1316	MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	443	4
CNTRLR	SSO	BLN1317	MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	443	39
SYSPERIPH	SSO	BLN1320A	MCC 7500 Enhanced Console Telephony Operation Field-Add License	443	40
CNTRLR	SSO	BLN1324	SHIELD,VPM SHIELD KIT	443	53

SYSPERIPH	SCB	BVN1014A	MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	877	40
QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
CNTRLR	SCG	QLN3437	FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	443	20
CNTRLR	SCB	T8063	MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	443	37
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
SYSPERIPH	SCB	TKN8531C	CABLE FOR RNC, DIU MGEN	362	19
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

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[JUMP TO ...](#)[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)

Model

CRYPTR is Motorola Solution's FIPS 140-2 Level 2 Hardware Key store for the MCC7500E.

Ordering Information

This section does not cover ordering an MCC7500 E console, only the CRYPTR when hardware key storage is required.

The CRYPTR requires an USB Ethernet adaptor: recommended is STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER (DSUSB31000S)

Configuration

CRYPTR Base hardware

Select the base hardware AND a power cord.

The power cord includes the power supply and must be ordered with the hardware.

Description	Full Description	Nomenclature	APC	Price
CRYPTR	WAVE CRYPTR	SQM01SUM0292	137	\$1,875.00
AC Line Cord, Australia	AC Line Cord, Australia	CA02063AA	137	\$0.00
AC Line Cord, UK	AC Line Cord, UK	CA02064AA	137	\$0.00
AC Line Cord, European	AC Line Cord, European	CA02065AA	137	\$0.00
AC Line Cord, North America	AC Line Cord, North America	CA02066AA	137	\$0.00

Add MCC7500E Software

Required software for supporting the MCC7500E

Description	Full Description	Nomenclature	APC	Price
MCC7500 CRYPTR SOFTWARE CD UPGRADE	MCC7500 CRYPTR Software CD Upgrade	T8490	137	\$50.00

Required Secure Operation

Add this Secure Operation Software (required)

Description	Full Description	Nomenclature	APC	Price
ADD: SECURE OPERATION	ADD: Secure Operation SW	CA02954AA	137	\$3,250.00

Encryption Support

Order ONE of these options for the encryption algorithms required

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500E CRYPTR DES-OFB &ADP	ADD: MCC7500E CRYPTR AES 256, DES-OFB, ADP	CA03440AA	137	\$1,800.00

Optional Software: Over the Ethernet Rekeying

Order this option if the MCC7500E console will update encryption keys via OTEK after initial configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: OTEK	ADD: OTEK	CA02934AA	137	\$3,350.00

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MCC 7500E IP Dispatch Console
-- Dispatch Position, Dispatch API and Product Software --

Ordering Information

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the **Standard Support** period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the **Extended Support** period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the **End of Support** period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

MCC 7500E Product Planner and Ordering Guide

The MCC 7500E Product Planner and Ordering Guide is available on the [High Tier Dispatch Console wiki page](#).

Dispatch API Software Development Kit

The Software Development Kit (SDK) is required when a customer wishes to use the MCC 7500E/7500 Dispatch API to allow 3rd party software to communicate with the MCC 7500E dispatch console or if they wish to use a custom graphical user interface (GUI) on the dispatch console.

The MCC 7500E utilizes the same SDK as the MCC 7500 and MCC 7100 consoles. Please see the [High Tier Dispatch Console wiki page](#) for more information about the SDK and SDK technical support.

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.
3. Please note that the latest available release of software and hardware will be provided when ordering through the system. If earlier release versions are required then a case must be opened with the System Support Center (SSC) to obtain the desired version from Upgrade Operations (UO).

Don't Forget These Items for Each Dispatch Console

1. PC, Monitor, Speakers, Microphone, and other accessories.
2. Software Entitlement Licenses

Links to Other Elements of the Console Sub-System

1. [MCC Series PC, Monitor, and accessories](#) (also available in pulldown box above)
2. [Manuals](#)
3. Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features.
4. [MCC 7500 IP Dispatch Console](#)
5. [MCC 7500E IP Dispatch Console](#)
6. [MCC 7500 IP Logging Recorder](#) (includes Dual IRR in it's pulldown box).
7. Also see the pulldown box at the top of this page for other elements.

Ordering Instructions

Ordering in Oracle R12 Quoting (OMAR)

If ordering in Oracle R12 Quoting, the MCC 7500E hardware and software can be ordered using SBoM <MCC7500E-ASTRO-CNSL>. The information below can be used to check the resulting lists.

Ordering in COF

Use the models and options defined below.

Configuration

Step 1: Order the MCC 7500E IP Console SW Application

Software DVD

Description	Full Description	Nomenclature	APC	Price
MCC 7500E SOFTWARE DVD	Provides a DVD containing the application software for the MCC 7500E console. One copy of the DVD may be used to install software on multiple MCC 7500E dispatch positions.	B1949	244	\$250.00

Upgrade Software License

Description	Full Description	Nomenclature	APC	Price
ADD: DISPATCH POSITION SOFTWARE REFRESH	The software refresh license option is required for each existing MCC 7500E dispatch position when upgrading the ASTRO System to a new major system release. Order the option as a sub-item to B1949.	CA03321AA	244	\$2,500.00

Step 2: Order Feature Licenses for each Dispatch Position

Feature/Capacity License Model

All installations of MCC 7500E software must order the corresponding feature and/or capacity licenses for their given software release otherwise the products will not operate. Orders for feature and/or capacity licenses require parametric data (an email address) to be provided with the order. This is required in both COF and OMAR. Motorola emails the License Entitlement ID to the email address entered with the order as part of the order fulfillment process. These licenses are ordered as sub-items to the B1948.

Description	Full Description	Nomenclature	APC	Price
MCC 7500E DISPATCH POSITION LICENSES	The various licenses used with the MCC 7500E console are ordered as options to this model. One B1948 may be ordered per dispatch position or one B1948 may be ordered per multiple dispatch positions. An email address must be entered into COF with the B1948.	B1948	244	\$0.00

Radio Resource Capacity Licenses

Notice: Effective January 1, 2019, Motorola Solutions announces the cancellation of the MCC 7100 / MCC 7500E Dispatch Consoles radio resource capacity tiered license options of 45, 60 and 100. Option numbers UA00251AA, UA00252AA, & UA00651AA, respectively.

This cancellation does not affect the cumulative nature of the any of the capacity licenses, cancelled or otherwise, e.g., two new 30 capacity licenses will provide 60 radio resource capacity, adding a 15 capacity license to an existing 60 capacity license will provide 75 radio resource capacity, etc. Please see the ITC Notification for more information. The notice is available on our wiki page at <https://converge.motorolasolutions.com/groups/high-tier-voice-radio-dispatch-consoles>.

Description	Full Description	Nomenclature	APC	Price
ADD: 15 RADIO RESOURCES LICENSE	MCC 7100 A7.16+: Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources. Order as a sub-item to B1942. MCC 7500E info: Enables a MCC 7500E dispatch position to support up to 15 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00249AA	244	\$3,500.00

ADD: 30 RADIO RESOURCES LICENSE	MCC 7100 A7.16+: Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources. Order as a sub-item to B1942. MCC 7500E: Enables a MCC 7500E dispatch position to support up to 30 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00250AA	244	\$6,250.00
ADD: 160 RADIO RESOURCES LICENSE	Enables a MCC 7500E dispatch position to support up to 160 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00652AA	244	\$18,820.00

Feature Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC CONSOLE OPERATION	Enables a MCC 7500E dispatch position to support basic console functionality. This includes non-signaling analog conventional, patch, multiselect, paging, aux I/Os, alert tones, channel marker, using the API, etc. One UA00653AA is required for each dispatch position being ordered. Order as a sub-item to the B1948.	UA00653AA	244	\$4,800.00
ADD: ASTRO 25 TRUNKING OPERATION	Enables a MCC 7500E dispatch position to support ASTRO 25 trunking operation. One UA00654AA is required for each dispatch position that will be controlling trunking resources (talkgroups and private calls) via a wireline connection to a trunking system. Order as a	UA00654AA	244	\$6,000.00

	sub-item to the B1948.			
ADD: ADVANCED CONVENTIONAL OPERATION	Enables a MCC 7500E dispatch position to support advanced conventional operation. One UA00655AA is required for each dispatch position that will be controlling advanced conventional resources (P25 conventional, MDC 1200 conventional and ACIM connections to consolettes). Order as a sub-item to the B1948.	UA00655AA	244	\$3,600.00
ADD: IED OPERATION	Enables a MCC 7500E dispatch position to support Inbound Event Display (IED) operation. One UA00656AA is required for each dispatch position that will be using the IED GUI. Order as a sub-item to the B1948.	UA00656AA	244	\$6,300.00
ADD: TELEPHONY OPERATION	Enables a MCC 7500E dispatch position to support console telephony operation. One UA00657AA is required for each dispatch position that will be accessing telephone resources via the console telephony feature. Order as a sub-item to the B1948.	UA00657AA	244	\$1,200.00
ADD: SECURE OPERATION	Enables a MCC 7500E dispatch position to support secure (encrypted) voice operation. One UA00658AA is required for each dispatch position that will be controlling radio resources that use encrypted voice. Order as a sub-item to the B1948.	UA00658AA	244	\$3,900.00
	Enables a MCC 7500E dispatch position to support the ADP, AES and DES-OFB			

ADD: ADP/AES/DES-OFB ENCRYPTION	encryption algorithms. The secure operation license must be ordered separately. One UA00659AA is required for each dispatch position that will be using any of those algorithms. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management algorithm licenses are ordered as part of the CRYPTR2.	UA00659AA	244	\$2,160.00
ADD: OTEK OPERATION	Enables a MCC 7500E dispatch position to support Over The Ethernet Keying (OTEK) operation. One UA00660AA is required for each dispatch position that will be using the OTEK feature. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management OTEK license is ordered as part of the CRYPTR2.	UA00660AA	244	\$4,020.00
ADD: ENHANCED IRR	Enables a MCC 7500E dispatch position to support the Enhanced Integrated Instant Recall Recorder (IRR). One UA00661AA is required for each dispatch position that will be using the Enhanced Integrated IRR. Order as a sub-item to the B1948.	UA00661AA	244	\$3,000.00

Step 3: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired

Please see [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Step 4: Order Audio Interface Module (AIM) if desired

Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environment	B1941	443	\$1,900.00

Step 5: Order PRX 7000 Proxy and Firewall (Only required if Installing the MCC 7500E Console outside of the ASTRO 25 Network)

Each PRX 7000 Entitlement License supports 1 to 10 connections from the customer network into the ASTRO 25 Network. Up to 5 PRX 7000 installations are supported per site. Each proxy requires its own computer and its own software license.

More detailed ordering information for the PRX 7000 proxy is included in the MCC 7500E Product Planner and Ordering Guide. That document is available on the High Tier Dispatch Console wiki page located at <https://converge.motorolasolutions.com/groups/high-tier-voice-radio-dispatch-consoles>. This page can't be opened directly from this page, so the link will have to be cut and pasted into the address bar of a web browser.

Proxy Software DVD

Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses are purchased as HKVN4225A for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.	BVN6079	443	\$250.00

Proxy Software License

Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 and/or MCC 7500E connections into the RNI.	UA00254AA	443	\$2,500.00

LICENSE (1-10 CONNECTIONS)	Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately. Order as a sub-item to B1942 or B1948.			
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Proxy Computers

Please see [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Control Room Firewall

When ordering in OMAR, the firewall must be ordered as a standalone item.

Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features. Below item is listed for convenience only and may be out of date. It is not managed by the console group.

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

Step 6: Order Dispatch Assistant software if desired

The following items may be ordered for the Dispatch Assistant. Note that a control room firewall will also be required if the dispatch position hosting the Dispatch Assistant is located inside of the ASTRO 25 console site. The firewall listed above may be used for this purpose.

Description	Full Description	Nomenclature	APC	Price
INTERFACE ADAPTER SOFTWARE LICENSES	Dispatch Assistant software license. One required per dispatch position.	HKVN4581A	443	\$7,975.00
DISPATCH ASSISTANT SOFTWARE DVD	Dispatch Assistant software DVD. One copy of the DVD may be used to install the software on multiple dispatch positions.	BVN1017	443	\$250.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1913	MCC SERIES HEADSET JACK	443	20
CNTRLR	SSO	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE	443	19
CNTRLR	SCB	B1941	USB AUDIO INTERFACE MODULE	443	22
FIXEDSTN	SCB	B1948	MCC 7500E DISPATCH POSITION LICENSES	244	11
FIXEDSTN	SCB	B1949	MCC 7500E SOFTWARE DVD	244	20
FIXEDSTN	CDP	B1951	MICROPHONE, DESKTOP, USB	754	5
FIXEDSTN	CDP	B1952	SPEAKER, DESKTOP, USB	754	8
FIXEDSTN	CDP	BKN2000	FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	754	13
FIXEDSTN	CDP	BKN2001	FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	754	5
CNTRLR	SSO	BLN1276	DESKTOP MIC CIRCUIT BOARD FRU	443	19
CNTRLR	SSO	BLN1277	HEADSET JACK CIRCUIT BOARD FRU	443	19
FIXEDSTN	CDP	BMN2000	FRU, MICROPHONE, DESKTOP, USB	754	40
FIXEDSTN	CDP	BPN1030	FRU, POWER SUPPLY WITH DC CORD	754	40

FIXEDSTN	CDP	BSN2000	FRU, SPEAKER, DESKTOP, USB	754	3
CNTRLR	SCB	BVN1017	DISPATCH ASSISTANT SOFTWARE DVD	443	40
FIXEDSTN	SSO	BVN6079	PRX 7000 Proxy Application SW DVD	443	10
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	SHK	DDN1396	USB DUAL ACTION FOOTSWITCH W/INPUT JACK KINESIS	229	30
QUOTEDS	GRA	DDN1400	SHURE DESKTOP GOOSENECK MICROPHONE 12" NECK	229	30
QUOTEDS	GRA	DDN1428	XLR TO USB ADAPTER SHURE	229	45
QUOTEDS	GRA	DDN1429	ANGLED DESKTOP GOOSENECK BASE SHURE	229	30
QUOTEDS	GRA	DDN2825	USB HEADSET BASE WITH PTT	708	30
QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
QUOTEDS	TIS	DSEV191B	TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	708	80
QUOTEDS	TIS	DSEV221B	TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	708	80
QUOTEDS	TIS	DSEV241B	TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	708	80
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSICUSBAUDIO7D	STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	708	5
QUOTEDS	PCW	DSST7300U3M	STARTECH 7 PORT USB 3.0 HUB	708	10

QUOTEDS	TIS	DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	708	80
QUOTEDS	TIS	DSTG221B	TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	708	80
QUOTEDS	TIS	DSTG241B	TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	708	80
QUOTEDS	LMS	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	708	84
QUOTEDS	PCW	DSUSB31000S	STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER	708	10
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
CNTRLR	CDP	HKVN4581A	INTERFACE ADAPTER SOFTWARE LICENSES	443	40
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
FIXEDSTN	CDP	RMN5077B	SUPRAPLUS SINGLE MUFF HEADSET	706	5
FIXEDSTN	CDP	RMN5078B	SUPRAPLUS NC SINGLE MUFF HEADSET	706	8
FIXEDSTN	CDP	RMN5079B	SUPRAPLUS DUAL MUFF HEADSET	706	6
FIXEDSTN	CDP	RMN5080B	SUPRAPLUS NC DUAL MUFF HEADSET	706	2

CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15
QUOTEDS	PCW	TT3308	ZBOOK 15 G4 256GB 8GB NON RETURNABL	708	7

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

MCC 7500 IP Logging Recorder

DL360 G7 / G8 servers are not supported in A7.17 or later releases

Ordering Information

General Information

PLEASE NOTE: The Standard Support Period for the 7.11 Release ends on June 30, 2017. Any software and hardware expansions on this release will no longer be supported after this date.

Click [here](#) for additional information.

NICE MUST QUOTE ALL SERVICES INCLUDING TRAINING, PM, AND INSTALLATION - THESE ARE NOT IN ECAT OR DQ MODELS

The MCC 7500 IP Logging Recorder provides audio call recording and archiving for ASTRO 25 radio systems. It is the only certified, tested, and supported solution that Motorola sells for use on all ASTRO 25 recording. Jointly developed with NICE Systems, the MCC 7500 IP Logging Recorder has been tested and certified with the MCC 7500 console in every Motorola ASTRO 7.x system release. An innovative recording solution that allows public safety organizations to record their radio system communications, it utilizes an Intel Xeon Core Processor with logical drives in a mix of mirrored RAID 1 and RIAD 5 array configurations providing up to 500,000 on-line channel hours of storage and data, redundant power supplies, and Windows Server 2008 R2 (starting with the A7.14 release). The 10 simultaneous call recorder is scalable with the ability to add capacity with the purchase of additional call licenses.

The MCC 7500 IP Logging Recorder works in conjunction with an Archiving Interface Server (AIS) utilizing an API that allows the recording system to specify which talkgroups and conventional channels will be recorded. Because this API allows call control data to be passed to the recorder system, Motorola's recording solution provides unique capabilities. Customers have the ability to:

- See a call originator's unit ID and/or alias
- See the type of call initiated - talkgroup, emergency, conventional
- See when certain radio events occurred - emergency acknowledgement/knockdown, changes in frequency or PL selection, etc.

The following types of radio system calls are capable of being processed via the AIS and recorded on the logging recorder:

- Conventional PTT Call
- Trunked Talkgroup Call

- Trunking Announcement Group Call
- Trunking Emergency Call

The following types of trunking radio system events are capable of being processed via the AIS and recorded on the logging recorder:

- Call Alert
- Emergency Alarm
- Emergency Acknowledge
- Emergency Knockdown
- Repeater On/Off
- Main/Alt Status

The following types of conventional radio system events are capable of being processed via the AIS and recorded on the logging recorder:

- Frequency Selection
- Private Line (PL) Selection
- Mute Second Receiver
- Repeater On/Off
- Wildcard I
- Wildcard II
- Group Text Messaging (7.16)

Recorders now come in the following capacities:

- 10 simultaneous transmissions (upgradeable up to 120 simultaneous transmissions)
- 120 simultaneous transmissions

The recorder's capacity for recording simultaneous calls is scalable and can be tailored to suit the customer's needs. An option is available which allows the 10 simultaneous recorder to increase capacities by steps of 10 up to a limit of 120 simultaneous transmissions. The simultaneous transmissions capacity of a recorder includes all the trunked talkgroups and conventional channels being recorded via the AIS. Due to the different vocoders used with trunked and conventional audio, the following equation should be used to determine the size of the recorder required to meet a particular customer's needs.

- $1.7 \times (\# \text{ of simultaneous conventional calls}) + (\# \text{ of simultaneous trunked calls}) = \text{required simultaneous call capacity}$

Additional factors to consider when sizing an MCC 7500 IP Logging Recorder:

For customers that use regrouping, there are nuances to consider when sizing the recorder's capacity. The below highlights scenarios that could be encountered. It is best to discuss with the customer how they use these features and the impact their usage patterns might have on the recorders size requirements.

Regrouping's Impact on Call Licenses in the Recorder

- A dispatcher has a patch set up with "N" regroupable trunking talkgroups in it. The dispatcher is transmitting on the patch. This results in N calls being logged on the logging recorder which consume N of the licenses. While the dispatcher is transmitting on the patch, a radio begins transmitting on one of the talkgroups in the patch. This results in an additional N calls being logged on the logging recorder which consume an additional N of the licenses. The end result is 2 x N licenses are consumed by this

scenario.

- A dispatcher has a multiselect group open with N regroupable trunking talkgroups in it. The dispatcher is transmitting on the multiselect. This results in N calls being logged on the logging recorder which consume N of the licenses. While the dispatcher is transmitting on the multiselect, a radio begins transmitting on one of the talkgroups in the multiselect. This results in an additional N calls being logged on the logging recorder which consume an additional N of the licenses. The end result is 2 x N licenses are consumed in this scenario.

Audio and events which have been recorded are accessed through the NICE Inform application. Included with each MCC 7500 IP logging recorder is Inform Lite - a state-of-the-art multiple channel search and replay tool which is configurable to meet specific customer needs.

The NICE logging recorders and playback stations are configured and managed by a common administration application. This application can be run on a playback station PC or on a dedicated PC.

System Requirements:

1. Motorola Archiving Interface Server (AIS)

Client PC Requirements:

Minimum specification for the client (configuration and replay) PC:

Recommended Hardware Specification Windows 7

1. Audio only - Dual Core 2 GHz or higher or Audio and Video - Intel Core 2 Quad 2.4GHz recommended
2. 1GB - audio only, 2GB with 4GB recommended for audio and video
3. 100 Mb/s Ethernet network card
4. 10GB hard disk space to support local call cache
5. SoundBlaster or compatible sound card / [Audio and video - NVidia PX8400 GS 512MB]
6. DVD/CD-ROM drive required for installation
7. 1024 x 768 16bit color display / [SXGA 1280 x 1024]
8. Keyboard and mouse or other pointing device.
9. Loudspeaker or Headphone output

Software Specification

1. Supports the OS platforms:
 1. Windows 7 64 bit
2. The user must have Administration privileges at Install time
3. Direct X 9.0
4. MSXML 4.0
5. Internet Explorer 6 Service Pack 1 or later

Inform Lite supports the following capacities. If greater capacity is required the full version of Inform is required (see Inform price page).

- Maximum of 5 concurrent user licenses (total of both Reconstruction and Monitor)
- Maximum of up to 608 recording resources (a resource is defined as a Talk Group, a Conventional Radio Channel and/or a recording channel in an analog/digital logger)
- Inform Lite can interface to a maximum of 4 active recorder databases and 4 legacy recorder databases
- Inform Lite also supports capture and search of Text-to-9-1-1 recordings on the following platforms:
 - Intrado
 - Airbus
 - NENA
 - Agent 5-1-1

- Inform Lite supports the Redaction tool to allow customers to block replay of sensitive portions of a recording
- One Reconstruction Module license is included with each primary or parallel recorder ordered

Ordering Requirements

The MCC 7500 IP Logging Recorder solution requires a Motorola Archiving Interface Server (AIS). The AIS model numbers can be found on the product catalog tab [here](#). MCC 7500 consoles require an MCC 7500 IP logging recorder.

Key Information & Ordering Instructions:

MCC 7500 IP Logging Recorder Package & Required / Recommended Items

1. Each ASTRO Base Bundle for the MCC 7500 IP Logging Recorder includes the following items: DL360 servers, Radio System AIS Client Software, Internal Storage (up to 500,000 Channel Hours). Parallel bundles include 2 logging servers and one backup server. Single bundles include one logging server and a backup server. All specifications are subject to change.

2. Recording channels must be added to the Logger Recorder(s). There are 2 tiers of channels - Professional and Elite. The differences and description of each are defined on the Inform Price Page. A corresponding number of P25 channel license must be ordered. If parallel logging is required, a corresponding number of resilient channels must be ordered. For the **120-channel bundles**, the channel licenses, P25 licenses and (if applicable) resilient channel licenses are included.

3. Anti-virus software should be ordered separately (see Network Security Price Page). NICE will assist with the initial installation of the software. The customer is responsible for keeping the antivirus software current.

4. An Uninterruptible Power Supply (UPS) is strongly recommended for use in any logging recorder installation. These are not supplied as part of the logging solution and are expected to be supplied by the customer.

5. Windows Supplemental Configuration - A selection is **REQUIRED** for any logging recorders used on **ASTRO 25** systems or later. Either T7448A or T7449A is required to be ordered for every box - one for each logging recorder, replay station, etc.

6. One AIS is required for each ASTRO 25 IP Digital Logging Recorder used on the system.

Consult AIS price pages for a description and ordering information.

7. When used on ASTRO 7.17 release, you must order replay client TT3225A.

8. When placing an order for NICE equipment it is important that all product is placed on the same FO/order and not broken out into separate orders. Please contact David Gutteridge at NICE if there is an exceptional circumstance that requires equipment to be broken out into separate FO's.

Redundant Systems

Audio recording is a mission critical activity on the radio system; often a legal requirement as well. Because of the critical importance of redundancy, special pricing is now available for customers who purchase redundant systems. There are many benefits to having redundant solutions. Here are a few reasons to consider redundancy:

- Protects data loss from a single point of failure
- Protects customers from down time associated with planned activities like upgrades, patches, hardware replacement, etc.
- Increases customer satisfaction and reduces stress

Redundant recorder ordering criteria:

1. The logging recorders must record in parallel (i.e. record exactly the same audio)
2. In a parallel recording system you must have **two** AIS and VPM. There is a one-to-one relationship between the logging recorder and the AIS / VPM.

Warranty & Support

1. Pricing includes first year **SILVER** warranty maintenance (Monday - Friday, 8 -5) (Except International). It is strongly recommended to uplift the warranty to Gold Lite or Gold during year one and for subsequent years of maintenance to ensure customer satisfaction.

2. NICE provides 8x5 technical phone support and NICE or its participating dealer provides M-F 9AM-5PM (local time) same day remote access support for Level A & B severity issues during the warranty period.

3. NICE requires remote access to meet published SLA. Without remote access support may be delayed.

4. If 24x7 support is required, please contact the field CSM for a quotation. This is strongly recommended.

5. HP DAT 72 & 360 Tape Drives - New HP DAT Drives are no longer commercially available. NICE will RMA units for replacement within the standard HP warranty period. After HP warranty period expires, NICE will fulfill RMA's with commercially available refurbished units. This applies to pre-G9 servers that used DAT drives.

Installation / Services

1. IMPORTANT - NICE Services must be ordered separately. NICE will provide a cost quotation to the field that can be margined up and quoted to the customer. There are

no services included in ECAT models. Installation (both at CCSi and in the field, PM services, and training must all be ordered separately). Note: Staging in CCSi does not include telephony recorders unless specifically quoted by NICE.

2. IMPORTANT - In the field commissioning of the logging equipment: The Motorola field PM needs to contact NICE to schedule final commissioning of the logging recorder equipment. Please contact the NICE PM to schedule a final installation. Please note that scheduling for NICE at CCSi or in the field is 8-10 weeks lead-time.

3. Pricing Includes Installation in Domestic United States (**Alaska, Hawaii, and International require additional service quotation**): A factory-trained and certified professional service representative will assist the end user in the implementation of their new recording solution. NICE or a participating dealer installation technician will provide a short demonstration of the basic functions of the MCC 7500 IP radio recorder system and the search and replay application. The demonstration is not intended to provide a thorough understanding of the operation of the system.

4. Professional Training - Professional training for new customers is strongly recommended and will be quoted as part of the services proposal from NICE Systems.

1. Professional training provides a full day or more of in-depth instructor led product training and Q&A for up to six customer personnel.

2. Additional operator, administrative, and technical training are available for added cost (Except International).

3. Training is scheduled Monday-Friday, 8-5 - US orders only - dependent upon travel.

4. **Rescheduling** - NICE training is scheduled several weeks in advance with a lead time that can be 8-10 weeks. If rescheduling is required, please provide at least 6-8 weeks advance notice to NICE. Training is essential to a positive customer experience. Rescheduling delays that prevent training from occurring reduce customer satisfaction. Please try to ensure the training schedule is not changed once locked in.

5. Please order NICE services in advance to ensure NICE has receipt of the service PO at least 8-10 weeks in advance of installation to help ensure proper resource scheduling of field installations or commissioning.

6. NICE maintenance does not include Motopatch or NICEpatch installation. These services are provided by the field team and / or customer.

Upgrades & Telephony Integration

1. **UPGRADES** - The MCC 7500 IP Logging Recorder requires upgrades with each system release. Please contact the UO PM working on the system releases. A quotation will be required for the upgrade - the quote includes pricing for NICE software and on-site technical installation. The logging recorder upgrade should take place immediately **after** the system upgrade. A document outlining the requirements can be found at the Compass site below.

2. **"Integration"** with existing telephony (analog) recorders. If a customer requires the ability to access both a telephony (analog) recorder(s) and a MCC 7500 IP recorder(s) from one replay station then the sales team must work with the field engineering team on the design. An integration document is available at the Compass site below that provides guidance for designing an integrated MCC 7500 IP and telephony/analog logging recorder

system. The NICE implementation engineer will configure the logging recorders, but it will be the responsibility of the Motorola field team to "integrate" the system (configure and design border router, firewall settings, etc).

3. DL360 G6 servers are not supported in A7.16 or later releases

4. DL360 G7 / G8 servers are not supported in A7.17 or later releases - A7.17 release is OS 2012 and this OS will not support HP DAT drives used in G7 / G8 server solutions. DL360 G9 two server solution is supported in A7.17 release.

General Notes

1. The MCC 7500 IP logging recorder and AIS are certified in Motorola's System Integration & Test (SIT) as part of the system release. The integrated telephony solutions are not certified in ASTRO 25 releases, but are ship accepted and have been deployed on the RNI.

2. The MCC 7500 IP Logging Recorder being used with the AIS is not capable of supporting other types of recording interfaces (PBX, T1/E1, analog line, etc.). Separate recorders must be used for anything that isn't coming through the AIS (e.g., recording telephony audio from a PBX or recording analog audio directly from its source). Please see ordering instruction # 2 in Upgrades & Telephony Integration section for incorporating a telephony/analog recorder with an MCC 7500 IP logging recorder.

3. Due to the size of the IP logging recorder, some customers may desire a cabinet for racking of the equipment. If mounting in a 2 post rack, part number DDN9748A can be ordered. This is a black shelf for a 19" 2 post rack.

4. A KVM is strongly recommended as a keyboard, mouse, and monitor are required for both installation and administration of the system.

5. The MCC 7500 IP Logging Recorder has no Motopatch support in the ASTRO 25 7.13 release. This restriction is limited to the A7.13 release when using an HP Gen 8 Windows Server 2008 R1 operating system. NICE does supply Motorola with a monthly patching procedure called NICEpatch that should be applied in the field using the same methodology as Motopatch. Any new system using the HP Gen9 server will have Motopatch support. **NICE maintenance does not include Motopatch or NICEpatch installation. These services are provided by the field team and / or customer.**

6. Customer retention requirements must be shared with NICE for the MCC 7500 IP logging recorder and / or telephony logging solutions. Retention requirements dictate how the database is configured within the logging system during installation. If a change in retention requirements is required after initial installation, the configuration change could impact recording and / or result in a loss of audio.

For technical information on the ASTRO 25 IP Digital Logging Recorder subsystem feature please reference the MCC 7500 System Planner.

Additional Information on NICE products is available from NICE directly at their **ExtraNICE business partner portal**. This site provides Motorolans with access to materials published by NICE on their applications, tools, and solutions. The materials include marketing collateral, manuals (user, installation, hardware, etc.), technical notes, FAQ's, and much more. Register at www.extranice.com .

NICE Documentation is available at the following Wiki and Compass sites:

<http://compass.mot-solutions.com/web/loggingsolutions>

<http://compass.mot-solutions.com/go/325784275>

Configuration

Models

REDUNDANT RECORDER IS NOW STANDARD IN THESE BUNDLES

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$52,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00

Options - System & Additional Capacity

Select System

Description	Full Description	Nomenclature	APC	Price
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00

ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00

Accessories

Windows Supplemental Configuration (Required on ASTRO 25 7.4 or Later Systems)

Description	Full Description	Nomenclature	APC	Price
WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7449	877	\$50.00

Spares & HDD Upgrades

Description	Full Description	Nomenclature	APC	Price
1 TB 7.2K DRIVE FOR THE DL360 G9 IP RADIO LOGGER BACKUP SERVER	-	DDN2146	229	\$1,210.00
SPARES TO SUPPORT MCC 7500 IP LOGGER DL360 G9 SERVER	-	DDN2147	229	\$3,680.00

ASTRO 7.17 Release Windows 10 Workstation

ASTRO 7.16 or earlier Windows 7 Workstation

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
19 INCH BLACK SHELF	Black shelf for use with a 19 in. 2 post rack	DDN9748	229	\$249.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75

End User Licenses and Applications

(see Inform price page for more information and license options)

Description	Long Description	Nomenclature	APC	Price
ADDITIONAL NICE INFORM RECONSTRUCTION CONCURRENT USER LICENSE	-	DDN1698	229	Cancelled
ADDING SECOND LOGGER/DATABASE TO INFORM LITE ACCESS	-	DDN1696	229	Cancelled

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model



ASTRO 25 Advanced Messaging Solution

[Ordering Guide](#)

Ordering Information

[Ordering Guide](#)

Ordering Requirements

Motorola Solutions, Inc. announces the transition of the ASTRO® 25 Advanced Messaging Solution (AMS) from its own standalone platform to the new ASTRO® 25 AMS within the Intelligent Middleware (IMW - formerly known as UNS or Unified Network Services) Messaging service platform. This means that AMS will become an application with the server software residing on the IMW Messaging service platform. This will take effect as of September 30, 2016.

IMPORTANT: The AMS A1 and A2 models will no longer be available for new orders after September 30, 2016. After that time, all new orders for AMS messaging only will need to be transitioned to the new Intelligent Middleware (IMW - formerly known as UNS) Messaging service platform R5.2 and later. Refer to IMW (UNS) prices pages for ordering and pricing [UNS](#).

For existing AMS customers this AMS ECAT page will still be used for upgrades and expansions (add-ons), see bottom of this page. Contact your regional sales enablement or pre-sales / field engineering team for the AMS release specific lifecycle ordering and support

plan.

IMPORTANT NOTE: For any A3 configuration integrated with PremierOne CAD the Field Engineering team MUST contact the Applications (SPSS) Pre-Sales System Architect team to co-architect / engineer the solution and approve the equipment list before a quote is provided to the customer. Contact leo.marroquin@motorolasolutions.com (956-631-3777) or Devery.Thumann@motorolasolutions.com

Configuration

Data Not Available

Ship Card

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



MCD 5000 DESKSET SYSTEM

Ordering Information

General Information

MCD 5000 DESKSET SYSTEM OVERVIEW:

The MCD 5000 Deskset System is the Motorola Solution's next generation radio dispatch deskset platform that utilizes VoIP technology. The MCD 5000 Deskset can be deployed on existing customer's IP network or on a stand-alone IP network. The MCD 5000 Deskset is part of the MCD 5000 Deskset System that provides radio dispatch capability when connected to a two-way radio device. MCD 5000 Desksets can be placed anywhere on the IP network. Each MCD 5000 Deskset connects to a single radio device at a time. The MCD 5000 Deskset may connect directly to a radio or connected to a selected radio over IP network via the MCD 5000 Radio Gateway Unit (RGU).

The MCD 5000 Deskset can be used where MC3000, MC1000 and MC2000 desksets have been used in the past. In addition, it can be used with the APX Consolette and/or a MOTOTRBO XPR5550e.

The MCD 5000 Deskset can connect to the following radios:

- ASTRO XTL5000 Consolette (W9): ASTRO Spectra Consolette, ASTRO Spectra Plus Consolette
- CDM1550 Series Radios: CDM 1550, CDM 1550 LS, CDM 1550 LS+ - **See Note Below**
- MCS 2000 Model III Control Station - **See Note Below**
- APX Consolette (via IP)
- 2-Wire or 4-Wire Tone Remote Control (TRC) devices
- 4-Wire E&M devices
- Dimetra-TETRA Mobile Radios (MTM5400 & MTM800E)
- MOTOTRBO XPR5550e Control Station (**NEW in R02.03.00**)

Note: The CDM1550 Series Radios and MCS 2000 Model III Control Station will not be supported starting in release 2.3.4 (Nov 18, 2019 release). If the customer still wants to use these radios, they can downgrade the Deskset and RGU to any release prior to 2.3.4.

MCD 5000 DESKSET SYSTEM Current Shipping Release R02.03.00 (Jan. 2018):

Changes, New Features and Enhancements with MCD 5000 Deskset System in R02.03.00:

- Control Head emulation of MOTOTRBO XPR5550e Control Station
- CT and ACP application now certified on Windows 10 Pro (64-bit) and Windows 10 IoT Enterprise LTSB 2015/2016 (64-bit) OS
- Redundant OMC Server is no longer a supported configuration

WHERE TO GO TO LEARN MORE ABOUT THE MCD 5000 DESKSET SYSTEM:

- **System Planner:** is available on the [MCD 5000 Deskset System Converge page](#)
- **Manuals:** The various manuals for the MCD 5000 Deskset can be downloaded from the [ASTRO Dispatch Documentation Site](#)

MCD 5000 Deskset System Components

The MCD 5000 Deskset System consists of the following components:

- **MCD 5000 DESKSET** - IP-based deskset that provides dispatch capability when connected to a radio. Each MCD 5000 Deskset can only connect to and monitor one radio channel at a time.
- **DESKSET AUDIO ACCESSORIES** (optional) – each MCD 5000 Deskset is capable of supporting one Desktop Paddle Microphone or one Headset Jackbox in addition to a Push-To-Talk (PTT) Foot Switch.
- **MCD 5000 RADIO GATEWAY UNIT (RGU)** – is used to connect radios to the MCD 5000 Deskset System. Each MCD 5000 RGU can interface up to 4 radios to the MCD 5000 Deskset System IP network. A MCD 5000 Deskset user can create a talkpath over the IP network to a radio resource connected to the MCD 5000 RGU. The MCD 5000 Deskset can only connect to and monitor one radio channel at a time.
- **IP NETWORK** –can be deployable on customer's existing WAN/LAN IP Network or on a dedicated IP network for the deskset system.
- **TWO-WAY RADIO DEVICES** – are used with the MCD 5000 Deskset to provide access to the customer's land mobile radio (LMR) system.
 - ASTRO XTL5000 Consolette (W9): ASTRO Spectra Consolette, ASTRO Spectra Plus Consolette
 - CDM1550 Series Radios: CDM 1550, CDM 1550 LS, CDM 1550 LS+ - **See Note Below**
 - MCS 2000 Model III Control Station - **See Note Below**
 - APX Consolette (via IP)
 - Direct Connection to 2 or 4 wire Tone Remote Control (TRC) devices
 - 4W-E&M Radios
 - Dimetra TETRA Mobile Radios (MTM5400 & MTM800E)
 - MOTOTRBO XPR5550e Control Station

Note: The CDM1550 Series Radios and MCS 2000 Model III Control Station will not be supported starting in release 2.3.4 (Nov 18, 2019 release). If the customer still wants to use these radios, they can downgrade the Deskset and RGU to any release prior to 2.3.4.

- **CONFIGURATION TOOL (CT) APPLICATION** – used to configure all parameters and settings on the MCD 5000 Deskset and MCD 5000 RGU. The CT Application can be located remotely anywhere on the IP network or locally using Ethernet connection. The CT Client PC runs on Microsoft Windows® 7 (64-bit) or Windows 10 Pro (64-bit) or Windows 10 IoT Enterprise LTSB 2015/2016 (64-bit) OS.
- **OMC/ACP** (optional)

OPERATION AND MANAGEMENT CENTER (OMC) SERVER – is a centralized server in the MCD 5000 Deskset System responsible for remote management and configuration of the MCD 5000 Desksets and MCD 5000 RGUs deployed in the system. The OMC server runs on the Red Hat® Linux® operating system.

ADMINISTRATOR CONTROL PANEL (ACP) CLIENT PERSONAL COMPUTER (PC) – provides the user level interface to the OMC Server. The APC Client PC allows local or remote administration access for system management activities. The ACP Client PC runs on Microsoft Windows® 7 (64-bit) or Windows 10 Pro (64-bit) or Windows 10 IoT Enterprise LTSC 2015/2016 (64-bit) OS and is required for MCD 5000 Deskset Systems with an OMC.

Features

The MCD 5000 Deskset provides a comprehensive feature set as listed below.

DESKSET CONNECTIONS:

- IP connection to Motorola radios
- Serial (local) connection to Motorola radios
- TRC (Tone Remote Control) connection to LMR radios

DESKSET FEATURES:

- Emulates the buttons and display of the connected radio, for applicable radios
- Perform all the functions of the radio control head, for applicable radios
- Advanced Signaling capabilities such as Push-To-Talk IDs, Emergency, Call Alerts
- Ability to access different radio system types using the deskset - connect to any one of the radios on the network and change connection when desired
- Programmable security access to certain radio channel - ability to control permissions for individual deskset user to access each radio on the network
- Anywhere access - security PIN solution to allow employees to switch between desksets, customer sites and offices.
- Remote or Local Configuration Management

DESKSET CONTROLS:

- Large LCD Display with Menu Selection and Soft Keys
- Push-To-Talk (PTT), Base Intercom, Channel Selection, Monitor Radio Channel
- Supervisory Mode
- Parallel Deskset Communications and Status Updates
- Inbound Emergency Alarm Acknowledge and Clear
- Generate Outbound Emergency Alarm, for applicable radios
- 3x4 Keypad
- Volume Controls

DESKSET AUDIO INPUTS:

- Front Panel Push-To-Talk (PTT)- (comes standard with deskset)
- Handset with PTT- (comes standard with deskset)
- Supports one PTT Footswitch- (optional)
- Supports one Headset Jackbox OR one Desktop Paddle Microphone- (optional)
- Supports one Local Logging Port - (optional)

DESKSET MOUNTING OPTIONS:

- Desktop Mount via Adjustable Deskset Footstand (comes standard with deskset)
- Wall Mount (optional)

MCD 5000 DESKSET SYSTEM OS HARDENING CDs AVAILABLE :

MCD 5000 Deskset System does offer Windows PC Operating System Hardening CD Kits for Motorola supplied PCs. Element hardening must be applied to every box in the MCD 5000 System (CT and ACP).

The table below summarizes the OS Hardening CD that is available to purchase for Motorola supplied PCs ONLY based on the different MCD 5000 Deskset System types:

- **MCD 5000 Deskset System without OMC** (available for CT PC)
- **MCD 5000 Deskset System with OMC** (available for following PCs: CT and ACP. Note: OMC Server ships OS fully hardened.)

IA COMPLIANT SYSTEM	MCD 5000 DESKSET SYSTEM APPLICATION	MOTOROLA SUPPLIED PC	OS HARDENING CD PART #s
MCD 5000 Deskset System w/out OMC (IA Non Compliant)	FVN5847 CT Application for Systems without OMC	TT3492 Z2 Mini Workstation Windows 10 IoT Enterprise LTSP 2016 (64-bit) Non-Returnable	FVN5956 (Full OS Hardening)
MCD 5000 Deskset System with OMC (IA Compliant)	FVN5848 CT Application for Systems with OMC	TT3492 Z2 Mini Workstation Windows 10 IoT Enterprise LTSP 2016 (64-bit) Non-Returnable	FVN5956 (Full OS Hardening)
MCD 5000 Deskset System with OMC (IA Compliant)	FVN5853 ACP Application	TT3492 Z2 Mini Workstation Windows 10 IoT Enterprise LTSP 2016 (64-bit) Non-Returnable	FVN5956 (Full OS Hardening)
MCD 5000 Deskset System with OMC (IA Compliant)	FVN5850 OMC Application	TT3549 ML30 Gen10 Server Linux 7.x OS Non-Returnable	No IA CDs are required to purchase for OMC Server. The OMC Servers (TT3190) ships Fully OS Hardened.

IMPORTANT NOTE:

- The IA OS Hardening CD (FVN5956) for the MCD 5000 Deskset System is **ONLY** compliant with Motorola supplied PCs.
- For the CT Application, (FVN5847 or FVN5848) the compliant Motorola Supplied PC's are: TT2538 (Z420-Win 7), TT2833 (Z440-Win 7), TT3106 (Z440-Win 10), TT3225 (Z2 Mini-Win 10) and TT3492 (Z2 Mini-Win 10).
- For the ACP Application, the compliant Motorola Supplied PC's are: TT2401 (Z420-Win 7), TT2833 (Z440-Win 7), TT3106 (Z440-Win 10), TT3225 (Z2 Mini-Win 10), and TT3492 (Z2 Mini-Win 10).

Ordering Requirements

This section will lead you through the necessary ordering steps required to order the MCD 5000 Deskset System.

NOTE: For EMEA, orders are entered in OMAR. In the "Product" field, enter "IPDESKSET" and click GO to get to the MCD 5000 Product.

STEP 1: ORDER THE MCD 5000 DESKSET

MCD 5000 Deskset is a desktop console that provides digital control to a variety of Motorola radios. The MCD 5000 Deskset may connect directly to a radio or it may connect to a selected radio over an IP network via the MCD 5000 Radio Gateway Unit (RGU). Through the digital control link the MCD 5000 Deskset emulates the control head of the radio allowing the deskset to perform all the functions that can be performed using the radio control head.

Below are the ordering instructions:

1. Order the [MCD 5000 Deskset Hardware](#) (F2380) - Required
2. Order a [MCD 5000 Deskset Power Supply](#) for each MCD 5000 Deskset - Required
 - FHN7469A - Assy, P/S, MCD 5000 Deskset/RGU Power Supply with USA Power Cord (NA Plug)
 - FHN7485A - Assy, Kit, FRU: MCD 5000 Deskset/RGU Power Supply with out Power Cord (For EU & UK order plug below)
 - 3004209T01 - Power Cord (EU Plug)
 - 3004209T02 - Plug, British Standard (UK Plug)
3. Order an [ETHERNET CABLE](#) for each MCD 5000 Deskset to connect to LAN Switch - Required. Available through MSI or may be customer provided.
Ethernet Cable 10' with Red and Black (FKN8695)
4. Dependent on Deskset Configuration - Order appropriate [RADIO INTERFACE CABLE](#) to connect radio to deskset directly if not using a MCD 5000 RGU.

If system configuration is "Single Deskset" connected to "Single Radio"--- then order the appropriate RADIO INTERFACE CABLE to connect radio to deskset directly:

- FKN8690 - Cable - MCD 5000 to ASTRO Consolette W9 Direct Connect
- FKN8689 - Cable - MCD 5000 to CDM 1550 Series Direct Connect - **See Note Below**
- FKN8688 - Cable - MCD 5000 to MCS 2000 III Direct Connect - **See Note Below**
- FKN8691 - Cable - MCD 5000 to MC3000 DJB for ASTRO Consolette W9
- FKN8693 - Cable - MCD 5000 to MC3000 DJB for CDM 1550 Series
- FKN8692 - Cable - MCD 5000 to MC3000 DJB for MCS 2000 III
- FKN0012 - Cable - MCD 5000 to MOTOTRBO XPR5550e Control Station
- FKN2003 - Cable - MCD 5000 to MTM5400 TETRA Mobile Direct Connect
- FKN2004 - Cable - MCD 5000 to MTM800E TETRA Mobile Direct Connect
- Standard Ethernet Cable is needed for connecting the MCD 5000 Deskset or RGU to the APX Consolette

Note: The CDM1550 Series Radios and MCS 2000 Model III Control Station will not be supported starting in release 2.3.4 (Nov 18, 2019 release). If the customer still wants to use these radios, they can downgrade the Deskset and RGU to any release prior to 2.3.4.

STEP 2: ORDER MCD 5000 DESKSET NATIVE LANGUAGE SUPPORT - OPTIONAL

The MCD 5000 Deskset provides the Software enforced licensing option for Native Language support feature. The MCD 5000 Deskset ships standard with English on the display. IF a 2nd/Native language (German, French or Japanese) is desired/required on the MCD 5000 deskset display, THEN complete this Step otherwise skip to Step 3 below.

Below are the ordering instructions IF 2nd/Native Language Support is desired/required:

1. Order the [B1943A MCD 5000 Licensing, main model](#) (Qty 1 per MCD 5000 System)
2. Order the [UA00447AA Native Language Support](#), option to the B1943 model. (Qty = number of desksets needing 2nd/Native Language Support)

STEP 3: ORDER MCD 5000 DESKSET ACCESSORIES - OPTIONAL

The MCD 5000 Deskset ships standard with a built-in condenser microphone, an internal front panel speaker, and a K-style handset with a Push-To-Talk (PTT) button.

In addition, the following OPTIONAL MCD 5000 Deskset accessories are also available for ordering:

- MCD 5000 Deskset Wall Mount Kit (FHN7394) - Max of 1 per deskset
- PTT Footswitch (BLN6732B) - Max of 1 per deskset
- Desktop Paddle Microphone (RMN5068) OR MCD 5000 Headset Jackbox (FHN7470) - Max of 1 per deskset
- Local Logging Cable (FKN8696) to connect a generic analog voice logger to deskset - Max of 1 per deskset
- VIP Cable (FKN8697) - Max of 1 per deskset

NOTE: The Desktop Paddle Microphone and Headset cannot be used simultaneously since they use the same connector on the MCD 5000 Deskset.

Below are the ordering instructions:

1. Order a [MCD 5000 Deskset Wall Mount Kit](#) (FHN7394) for each MCD 5000 Deskset - Optional

2. Order a [PTT Footswitch](#) (BLN6732B) for each MCD 5000 Deskset - Optional

NOTE: Each MCD 5000 Deskset can support up one PTT footswitch. The PTT footswitch provides two foot pedals in a rugged, metal housing with a 7 foot cable. One pedal is used for the general transmit feature while the other pedal is used for the monitor feature.

3. Order a [Desktop Paddle Microphone](#) (RMN5068) for each MCD 5000 Deskset - Optional

NOTE: Desktop Paddle Microphone and Headset cannot be used simultaneously since they use the same connector on the MCD 5000 Deskset.

4. Order a [Headset](#) for each MCD 5000 Deskset - Optional

A headset may be used with the MCD 5000 Deskset to allow the deskset user to listen to receive audio and to talk on the radio channel. The MCD 5000 Deskset supports one headset per deskset. The headset must be connected to a MCD 5000 Deskset Headset Jackbox (FHN7470).

A headset consist of two parts, a base and a top.

The Headset Base consists of an amplifier unit with volume control, an optional PTT switch, a connector for connecting to the headset jack, a clip for attaching the amplifier to the user's clothing and either a 15 or 25 foot cable for connecting to the jack.

The Headset Top consists of an earpiece, a microphone, a cable for connecting to the bottom section and a clip for attaching the cable to the user's clothing.

To use a headset with the MCD 5000 Deskset the following MUST be ordered per deskset:

- Order MCD 5000 Headset Jackbox Hardware (FHN7470)
- Order Headset Base - choice of two headset bases (RLN6098 - Headset Base with PTT switch, 15' CBL) OR (RLN6099A - Headset Base with PTT Switch, 25' CBL)
- Order Headset Top - several to choose from - see below:
 - RMN5150A - Over-the-Head Monaural Headset Top with Noise Canceling Microphone
 - RMN5151A - Over-the-Head Binaural Headset Top with Noise Canceling Microphone

5. Order a [MCD 5000 Logger Cable](#) (FKN8696) for each MCD 5000 Deskset - Optional

NOTE: The MCD 5000 Deskset contains a local 4W-E&M logging output with the ability to connect a generic external voice logger directly to the MCD 5000 Deskset.

6. Order a [MCD 5000 VIP Cable](#) (FKN8697) for each MCD 5000 Deskset - Optional

STEP 4: ORDER MCD 5000 RADIO GATEWAY UNITS (RGUs)

MCD 5000 RGU is used to connect radios to the MCD 5000 Deskset System. Each MCD 5000 RGU can interface up to 4 radios to the MCD 5000 Deskset System IP network. A MCD 5000 Deskset user can create a talkpath over the IP network to a radio resource connected to the MCD 5000 RGU. The MCD 5000 Deskset can only connect to and monitor one radio channel at a time.

NOTE: The current model of the RGU- F7979A will be cancelled and replaced by new model F7879B. The new model has refreshed hardware components but its connectivity and functionality is identical to the current model. Orders for the F7979A will be accepted through July 31, 2018. All orders must have a customer requested ship date prior to 8/31/2018. The new model- F7879B will be available for ordering starting August 1, 2018.

The F7879B was certified starting with release R02.03.00. The customer can integrate this RGU model with an existing MCD 5000 Deskset System that uses RGU model F7979A. However, if the System is not currently using release R02.03.00, they will need to upgrade their system. The Software can be found at the following location: <http://motonline.mot-solutions.com> **At Path = "Resource Center > Software > 2-Way > Dispatch Console > MCD 5000 Deskset System"**.

Below are the ordering instructions:

1. Order the MCD 5000 RGU Hardware (F7879B) - Required
2. Order a MCD 5000 RGU Power Supply for each MCD 5000 RGU - Required
 - FHN7469A - ASSY, P/S, MCD 5000 Deskset/RGU Power Supply with USA Power Cord (NA Plug)
 - FHN7485A - ASSY, KIT, FRU: MCD 5000 Deskset/RGU Power Supply with out Power Cord (For EU & UK order plug below)
 - 3004209T01 - Power Cord (EU Plug)
 - 3004209T02 - Plug, British Standard (UK Plug)
3. Order an ETHERNET CABLE for each MCD 5000 RGU to connect to LAN Switch - Required (Available thru MSI or may be customer provided)

Ethernet Cable 10' with Red and Black (FKN8695)

4. Order the appropriate RADIO INTERFACE CABLE for each radio connected to each MCD 5000 RGU - Required

NOTE: Each MCD 5000 RGU can connect up to 4 radios.

- Cable - MCD 5000 RGU to ASTRO CONSOLETTTE W9 Direct Connect (FKN8690)
- Cable - MCD 5000 RGU to CDM 1550 SERIES Direct Connect (FKN8689) - **See Note Below**
- Cable - MCD 5000 RGU to MCS 2000 III Direct Connect (FKN8688) - **See Note Below**
- Standard Ethernet Cable is needed for connecting the MCD 5000 Deskset or RGU to the APX Consolette
- Cable - MCD 5000 Deskset RGU to MTM5400 TETRA Mobile Direct Connect (FKN2003)
- Cable - MCD 5000 Deskset RGU to MTM800E TETRA Mobile Direct Connect (FKN2004)
- Cable - MCD 5000 RGU to MOTOTRBO XPR5550e Control Station (FKN0012)

Note: The CDM1550 Series Radios and MCS 2000 Model III Control Station will not be supported starting in release 2.3.4 (Nov 18, 2019 release). If the customer still wants to use these radios, they can downgrade the Deskset and RGU to any release prior to 2.3.4.

5. Order the appropriate DJB/RADIO INTERFACE CABLE for each radio connected to each MCD 5000 RGU - Required

NOTE: If installing MCD 5000 Desksets in parallel to fielded MC3000 desksets using a Digital Junction Box (DJB) – you must order the appropriate DJB / RADIO INTERFACE CABLES. Each MCD 5000 RGU can connect up to 4 radios.

- Cable - MCD 5000 RGU to MC3000 DJB for ASTRO CONSOLETTTE W9 (FKN8691)
- Cable - MCD 5000 RGU to MC3000 DJB for CDM 1550 SERIES (FKN8693)
- Cable - MCD 5000 RGU to MC3000 DJB for MCS 2000 III (FKN8692)

6. Order a RGU RACKMOUNT SHELF (FTN7490) - Optional

NOTE: Each MCD 5000 RGU Rackmount Shelf can fit up to 2 MCD 5000 RGUs (F7879B) per shelf.

STEP 5: ORDER THE CONFIGURATION TOOL (CT) APPLICATION CD

The Configuration Tool (CT) application is a Windows based utility, used to configure all parameters and settings on the MCD 5000 Deskset and MCD 5000 RGU. The CT can be located remotely anywhere on the IP network or locally using Ethernet connection. ONE required per system.

There are two types of configuration tool (CT) applications depending on the type of MCD 5000 Deskset System:

- CT Application for MCD 5000 Deskset System without Operation and Management Center (OMC) – FVN5847
- CT Application for MCD 5000 Deskset System with OMC – FVN5848

Below are the ordering instructions:

1. Order the Configuration Tool (CT) Application CD depending on what type of MCD 5000 Deskset System - ONE REQUIRED per System. Choose one:

- If the MCD 5000 Deskset System will NOT contain an OMC, then order the following CT Application - FVN5847
- If the MCD 5000 Deskset System will contain an OMC, then order the following CT Application - FVN5848

2. Order a Configuration Tool (CT) Workstation - TT3492 (Z2 Mini-Win 10) - Optional

NOTE: CT Application (FVN5847 or FVN5848) can be installed on a technician PC and doesn't need to be connected to the MCD 5000 Deskset System at all times.

IMPORTANT NOTE:

If IA (OS Hardening) is required, then the CT workstation, TT3492, MUST be supplied from Motorola along with OS Hardening CD - FVN5956. In addition, if the CT Workstation is purchased from Motorola, then order McAfee Windows Anti-Virus Client to install on the workstation - T7885.

If IA OS Hardening is NOT a customer requirement --- below are the CT Application PC requirements for supplying own PC:

- Processor: Intel Xeon E5-1603, 2.8 GHz 1066MHz memory Quad Core
- System Memory: 4 GB
- Free Space on Hard Disk: 10 GB
- Network Adapter with LAN 10/100 Mbps
- Screen Resolution: 1024 x 768
- Operating System: Microsoft Windows 7 Professional SP 1 (64-bit) OR Windows 10 Professional (64-bit) OR Windows 10 IoT Enterprise LTSB 2015/2016 (64-bit)

STEP 6: ORDER THE OMC/ACP COMPONENTS - OPTIONAL

The OMC and ACP Applications and PCs are REQUIRED for larger customer installations, customer who want centralized configuration management or for those customers with Information Assurance (IA) needs.

Operation and Management Center (OMC) Server - is a centralized server in the MCD 5000 Deskset System responsible for remote management and configuration of the MCD 5000 Desksets and MCD 5000 RGU's deployed in the system. The OMC server runs on the Red Hat® Linux® operating system. Only ONE OMC Server may be present per MCD 5000 system.

Administrator Control Panel (ACP) Client Personal Computer (PC) – provides the user level interface to the OMC Server. The ACP Client PC allows local or remote administration access for system management activities. The ACP Client PC runs on Microsoft

Below are the ordering instructions:

1. Order the OMC Server Components - Required for MCD 5000 Deskset System with OMC

- Order the OMC Application Software - FVN5850
- Order the OMC Server Hardware - TT3549
- Order a 19" LCD Monitor - DSTG191B

2. Order the ACP Components - Required for MCD 5000 Deskset System with OMC

- Order the ACP Application Software - FVN5853
- Order the ACP Workstation Hardware - TT3492
- Order a 19" LCD Monitor - DSTG191B
- Order a MCD 5000 Windows Supplemental Full Hardening CD - FVN5956
- Order the McAfee Windows Anti-Virus Client - T7885

STEP 7: ORDER SPARES / FIELD REPLACEMENT UNITS (FRUs) - OPTIONAL

- FHN7290AS - FRU: K-Style Handset (includes coiled cable) for the MCD 5000 Deskset
- FHN7394AS - MCD 5000 Deskset Wall Mount Kit
- FKN8696AS - Cable - MCD 5000 Deskset to Logger
- FHN7470AS - MCD 5000 Headset Jackbox & Cable
- FKN8694AS - Cable - MCD 5000 Deskset to Headset Jackbox
- FHN7469AS - MCD 5000 Deskset / RGU Power Supply with USA Power Cord
- FHN7485AS - MCD 5000 Deskset / RGU Power Supply without Power Cord
- FKN8706AS - FRU: Power Cord for USA - MCD 5000 Deskset / RGU Power Supply
- FKN8695AS - Ethernet Cable 10'
- FKN8704AS - Cable - MCD 5000 RGU Ground Cable
- FKN8690AS - Cable - MCD 5000 RGU to ASTRO Console W9 Direct Connect
- FKN8689AS - Cable - MCD 5000 RGU to CDM 1550 Series Direct Connect
- FKN8688A - Cable - MCD 5000 RGU to MCS 2000 III Direct Connect
- FKN8691AS - Cable - MCD 5000 RGU to MC3000 DJB for ASTRO Console W9
- FKN8693AS - Cable - MCD 5000 RGU to MC3000 DJB for CDM 1550 Series
- FKN8692AS - Cable - MCD 5000 RGU to MC3000 DJB for MCS 2000 III
- DSF2B56AA - External DVD Drive for the Z2 Mini Workstation
- DSY7B61AA - Vesa Mounting Sleeve for the Z2 Mini Workstation

Configuration

Models

NOTE: The current model of the RGU- F7979A will be cancelled and replaced by new model F7879B. The new model has refreshed hardware components but it's connectivity and functionality is identical to the current model. Orders for the F7979A will be accepted through July 31, 2018. All orders must have a customer requested ship date prior to 8/31/2018. The new model- F7879B will be available for ordering starting August 1, 2018.

The F7879B was certified starting with release R02.03.00. The customer can integrate this RGU model with an existing MCD 5000 Deskset System that uses RGU model F7979A. However, if the System is not currently using release R02.03.00, they will need to upgrade their system. The Software can be found at the following location: <http://motonline.mot-solutions.com> **At Path = "Resource Center > Software > 2-Way > Dispatch Console > MCD 5000 Deskset System"**.

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET	Provides one MCD 5000 Deskset. An in-line power supply (FHN7469) and an Ethernet cable are NOT included with the MCD 5000 Deskset (F2380) and must be ordered separately.	F2380	202	\$1,800.00
SM, RADIO GATEWAY UNIT (RGU)	Provides one MCD 5000 Radio Gateway Unit (RGU) and one RGU ground cable (FKN8704). Each RGU (F7879B) is capable of supporting up to 4 radios. A power supply (FHN7469), Ethernet cable and cabling for connecting radios to the RGU are NOT included with the RGU (F7879B) and must be ordered separately.	F7879	202	\$1,800.00
Z2 G4 MINI WORKSTATION NON RETURNAB	Provides one HP Z2 Mini computer with Windows 10 IoT Enterprise LTSB 2016 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 Display Port to VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed. NOTE THE Z2 MINI WORKSTATION IS NOT RETURNABLE (REALLY!!)	TT3492	708	\$2,500.00
ML30 GEN 10 SERVER FOR MCD 5000 OMC	Provides one ML30 Server that runs on the Red Hat® Linux® operating system. Also includes 1 keyboard, 1 optical mouse and disk(s) to allow for rebuild / recovery of your PC if ever needed. NOTE THE ML30 SERVER IS NOT RETURNABLE (REALLY!!).	TT3549	708	\$4,500.00
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	19 Inch Non Touch Display for CT/ACP Workstation and/or OMC Server	DSTG191B	708	\$1,422.00

Licensing - OPTIONAL

The MCD 5000 Deskset provides software enforced licensing option for Native Language support feature. The MCD 5000 Deskset ships standard with English on the display. IF a 2nd/Native language (German, French or Japanese) is desired on the MCD 5000 deskset display, THEN follow the 2 Steps below otherwise skip this Licensing section.

1. Order the B1943A MCD 5000 Licensing, main model (Qty 1 per MCD 5000 System)
2. Order the UA00447AA Native Language Support, option to the B1943 model. (Qty = number of desksets needing 2nd/Native Language Support)

Orders for licenses require email address(s) to be provided with the order. Motorola emails the License Confirmation to the email address(s) entered with the order as part of the order fulfillment process.

Description	Full Description	Nomenclature	APC	Price
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MCD 5000 LICENSING	Provides the main model for ordering the various software-enforced licensing options for MCD 5000. Only one (1) B1943 should be ordered per MCD 5000 system.	B1943	202	\$0.00
ADD: NATIVE LANGUAGE SUPPORT	Software license that enables the MCD 5000 Deskset to support a native/2nd language (in addition to the English language shipped standard) for the MCD 5000 deskset display. This is an option to the B1943 model number. Qty for this option should equal the qty of MCD 5000 desksets that need native/2nd language support in the MCD 5000 system.	UA00447AA	202	\$500.00

Accessories

Software Application

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM W/OUT OMC	Provides one CD containing the CT application software that is required for configuring a MCD 5000 Deskset System without OMC.	FVN5847	202	\$250.00
MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM WITH OMC	Provides one CD containing the CT application software that is required for configuring a MCD 5000 Deskset System with an OMC.	FVN5848	202	\$250.00
MCD 5000 DESKSET SYSTEM OMC SERVER APPLICATION SW	Provides one CD containing the OMC Server application software that is required for MCD 5000 Deskset System with an OMC. Requires OMC Server Hardware (TT3190) that must be ordered separately.	FVN5850	202	\$10,000.00
MCD 5000 DESKSET SYSTEM ACP APPLICATION SW	Provides one CD containing the ACP application software that is required for MCD 5000 Deskset System with an OMC. Requires ACP Workstation Hardware (TT3225) that must be ordered separately.	FVN5853	202	\$2,500.00

Direct Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
	Provides one cable for connecting a MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B). Note: This radio type			

CABLE - MCD 5000 RGU TO MCS 2000 III DIRECT CONNECT	will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8688	202	\$100.00
CABLE - MCD 5000 RGU TO CDM 1550 SERIES DIRECT CONNECT	Provides one cable for connecting a CDM 1550 Series radio to a MCD 5000 RGU (F7879B). Note: This radio type will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8689	202	\$100.00
CABLE - MCD 5000 RGU TO ASTRO CONSOLETTTE W9 DIRECT CONNECT	Provides one cable for connecting an ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8690	202	\$100.00
MCD5000 TO MTM5400 TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM5400 Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2003	202	\$100.00
MCD5000 TO MTM800E TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM800E Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2004	202	\$100.00
CABLE RGU TO MOTOTRBO	Provides one cable for connecting a Mototrbo XPR5550e Control Station to a MCD 5000 RGU (F7879B).	FKN0012	202	\$100.00

Parallel with DJB Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
CABLE - MCD 5000 RGU TO MC3000 DJB FOR ASTRO CONSOLETTTE W9	Provides one cable for connecting a MC3000 DJB with ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8691	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR MCS 2000 III	Provides one cable for connecting a MC3000 DJB with MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B).	FKN8692	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR CDM 1550 SERIES	Provides one cable for connecting a MC3000 DJB with CDM 1550 Series radio to a MCD 5000 RGU (F7879B).	FKN8693	202	\$100.00

Ethernet Cable

Description	Full Description	Nomenclature	APC	Price
ETHERNET CABLE 10' WITH RED & BLACK LABELS	Provides one 10 in. ethernet cable to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B). Note: This cable is color coded to match the connector colors of the MCD 5000 Deskset and MCD 5000 RGU.	FKN8695	202	\$47.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7879B.	FHN7469	202	\$100.00
FRU: MCD 5000 DESKSET / RGU POWER SUPPLY W/OUT POWER CORD	Provides one power supply unit to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). This part does NOT contain an AC line power cord. Power cord must be ordered separately.	FHN7485	202	\$85.00
CORD, POWER	EUROPE POWER CORD - Ordered with FHN7485	3004209T01	785	\$7.00
PLUG, BRITISH STANDARD	UK POWER CORD - Ordered with FHN7485	3004209T02	362	\$8.45

Deskset Accessories

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET WALL MOUNT KIT	Provides one wall mount base kit to be used for mounting a MCD 5000 Deskset (F2380) to a wall.	FHN7394	202	\$24.00
	Provides one MCD 5000 Headset Jackbox & cable (FKN8694) that connects to a MCD 5000 Deskset (F2380). The Headset Jackbox provides			

MCD 5000 DESKSET HEADSET JACK BOX & CABLE	a connecton for a single headset. Compatible with both 6-wire and 4-wire headsets. A Headset Base and Headset Top are not included with Headset Jackbox and must be ordered separately.	FHN7470	202	\$150.00
CABLE - MCD 5000 DESKSET TO LOGGER	Provides one logger cable to connect a generic external analog voice logger directly to the MCD 5000 Deskset (F2380).	FKN8696	202	\$40.00
CABLE - MCD 5000 DESKSET TO VIP (R2.0)	-	FKN8697	202	\$40.00
MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	-	FTN7490	202	\$200.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini Workstation - TT3225A.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA compliant mounting sleeve for the HP Z2 Mini Workstation - TT3225A.	DSY7B61AA	708	\$77.00
DESKTOP MIC	Desktop Paddle Microphone	RMN5068A	706	\$120.00
FOOT, SWITCH TRADITIONAL	PTT Footswitch - Max of 1 per Deskset	BLN6732	229	\$135.00
HDST MODULE BASE W/PTT, 15 FT CBL	Headset Base with PTT Switch with 15' cable	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	Headset Base with PTT Switch with 25' cable	RLN6099A	706	\$242.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Monaural Headset Top with Noise-Cancelling Microphone	RMN5150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Binaural Headset Top with Noise-Cancelling Microphone	RMN5151A	706	\$156.00

Information Assurance

Description	Full Description	Nomenclature	APC	Price
MCD 5000 WINDOWS SUPPLEMENTAL	OS Hardening CD (Full Hardening) for MCD 5000 Deskset System to be ordered with TT3225 Workstation	FVN5956	202	\$50.00
	This is a standalone installer for Windows operating			

MCAFFEE WINDOWS AV CLIENT	systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license. NOTE - MGEES DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00
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Field Replacement Units

Description	Full Description	Nomenclature	APC	Price
FRU: K-STYLE HANDET (INCLUDES COLIED CABLE) FOR MCD 5000 DESKSET	Spare handset for the MCD 5000 Deskset (F2380).	FHN7290	202	\$75.00
FRU: CABLE - MCD 5000 DESKSET TO HEADSET JACK BOX	Provides one headset jackbox cable to connect the MCD 5000 Headset Jackbox (FHN7470) to the MCD 5000 Deskset (F2380). Note: The MCD 5000 Headset Jackbox (FHN7470) automatically ships with this cable (FKN8694).	FKN8694	202	\$40.00
FRU: CABLE - MCD 5000 DESKSET RGU GROUND CABLE	Spare MCD 5000 RGU ground cable to be used with the MCD 5000 RGU (F7879B).	FKN8704	202	\$30.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	3004209T01	CORD, POWER	785	5
PARTS	RNS	3004209T01	CORD, POWER	785	20
PARTS	CDP	3004209T02	PLUG, BRITISH STANDARD	362	2
PARTS	RNS	3004209T02	PLUG, BRITISH STANDARD	362	20
SYSPERIPH	SCB	B1943	MCD 5000 LICENSING	202	2

PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32
PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32
PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	TIS	DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	708	80
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
SYSPERIPH	SCB	F2380	MCD 5000 DESKSET	202	17
SYSPERIPH	SCB	F2380	MCD 5000 DESKSET	202	17
FIXEDSTN	SCB	F7879	SM, RADIO GATEWAY UNIT (RGU)	202	10
SYSPERIPH	SCB	FHN7290	FRU: K-STYLE HANDET (INCLUDES COLIED CABLE) FOR MCD 5000 DESKSET	202	3
SYSPERIPH	SCB	FHN7394	MCD 5000 DESKSET WALL MOUNT KIT	202	11
SYSPERIPH	SCB	FHN7469	MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	202	5
SYSPERIPH	SCB	FHN7470	MCD 5000 DESKSET HEADSET JACK BOX & CABLE	202	9
SYSPERIPH	SCB	FHN7485	FRU: MCD 5000 DESKSET / RGU POWER SUPPLY W/OUT POWER CORD	202	5
SYSPERIPH	SCB	FKN0012	CABLE RGU TO MOTOTRBO	202	5
SYSPERIPH	SCB	FKN2003	MCD5000 TO MTM5400 TETRA MOBILE RADIO DIRECT CONNECT	202	15
SYSPERIPH	SCB	FKN2004	MCD5000 TO MTM800E TETRA MOBILE RADIO DIRECT CONNECT	202	15
SYSPERIPH	SCB	FKN8688	CABLE - MCD 5000 RGU TO MCS 2000 III DIRECT CONNECT	202	7
SYSPERIPH	SCB	FKN8689	CABLE - MCD 5000 RGU TO CDM 1550 SERIES DIRECT CONNECT	202	10

SYSPERIPH	SCB	FKN8690	CABLE - MCD 5000 RGU TO ASTRO CONSOLETTTE W9 DIRECT CONNECT	202	5
SYSPERIPH	SCB	FKN8691	CABLE - MCD 5000 RGU TO MC3000 DJB FOR ASTRO CONSOLETTTE W9	202	3
SYSPERIPH	SCB	FKN8692	CABLE - MCD 5000 RGU TO MC3000 DJB FOR MCS 2000 III	202	4
SYSPERIPH	SCB	FKN8693	CABLE - MCD 5000 RGU TO MC3000 DJB FOR CDM 1550 SERIES	202	19
SYSPERIPH	SCB	FKN8694	FRU: CABLE - MCD 5000 DESKSET TO HEADSET JACK BOX	202	2
SYSPERIPH	CDP	FKN8695	ETHERNET CABLE 10' WITH RED & BLACK LABELS	202	6
SYSPERIPH	CDP	FKN8695	ETHERNET CABLE 10' WITH RED & BLACK LABELS	202	6
SYSPERIPH	SCB	FKN8696	CABLE - MCD 5000 DESKSET TO LOGGER	202	11
SYSPERIPH	SCB	FKN8697	CABLE - MCD 5000 DESKSET TO VIP (R2.0)	202	9
SYSPERIPH	SCB	FKN8704	FRU: CABLE - MCD 5000 DESKSET RGU GROUND CABLE	202	9
SYSPERIPH	SCB	FTN7490	MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	202	8
SYSPERIPH	SCB	FVN5847	MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM W/OUT OMC	202	7
SYSPERIPH	SCB	FVN5848	MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM WITH OMC	202	4
SYSPERIPH	SCB	FVN5850	MCD 5000 DESKSET SYSTEM OMC SERVER APPLICATION SW	202	8
SYSPERIPH	SCB	FVN5853	MCD 5000 DESKSET SYSTEM ACP APPLICATION SW	202	8
SYSPERIPH	SCB	FVN5956	MCD 5000 WINDOWS SUPPLEMENTAL	202	6
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10

PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
PARTS	CDP	RMN5068A	DESKTOP MIC	706	5
FIXEDSTN	CDP	RMN5077B	SUPRAPLUS SINGLE MUFF HEADSET	706	5
FIXEDSTN	CDP	RMN5078B	SUPRAPLUS NC SINGLE MUFF HEADSET	706	8
FIXEDSTN	CDP	RMN5079B	SUPRAPLUS DUAL MUFF HEADSET	706	6
FIXEDSTN	CDP	RMN5080B	SUPRAPLUS NC DUAL MUFF HEADSET	706	2
ACCESSORY	CDP	RMN5150A	OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	706	22
ACCESSORY	CDP	RMN5151A	OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	706	6
CNTRLR	SCB	T7885	MCAFFEE WINDOWS AV CLIENT	708	21
QUOTEDS	PCW	TT3190	ML30 SERVER FOR MCD 5000 OMC APPLIC	708	15
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15
QUOTEDS	PCW	TT3492	Z2 G4 MINI WORKSTATION NON RETURNAB	708	15
QUOTEDS	PCW	TT3549	ML30 GEN 10 SERVER FOR MCD 5000 OMC	708	15

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

Model



Motorola / Sony Camera System

Ordering Information

General Information

Infrastructure Camera Systems

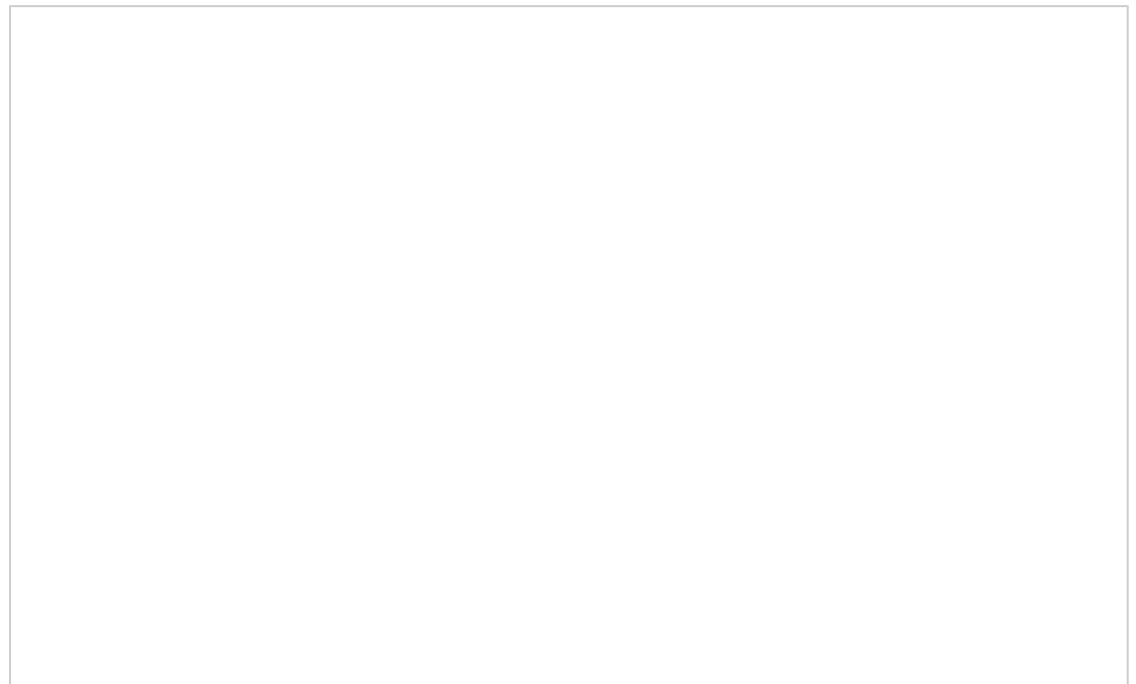
The Motorola Infrastructure Camera System Solution (pictured above) is part of the Motorola Data Solutions Organization Multimedia/Video Solutions portfolio. The Sony SNC-RX550N/W-MT Network Dome Camera (pictured above, available in Black and White housings) combines the latest image processing technologies to provide multiple compression formats (JPEG, MPEG4, H.264) and advanced functionality with a high-speed Pan/Tilt/Zoom (PTZ) capability. Slip rings on the camera allow a full pan of 360 degrees, allowing users to monitor almost anywhere surrounding the camera using this single unit. In addition, equipped with a powerful 26x optical zoom, the camera allows users to zoom in on small or distant objects with exceptional clarity. Designed for 24/7 operation the SNC-RX550N/W-MT incorporates a Day/Night function, providing clear images even in very low lighting conditions. The camera comes standard with Advanced Video Motion Detection (VMD).

The Infrastructure Camera System integrates Motorola's Mesh technology (MEA™) into Sony's IPELA cameras to provide a cost-effective, robust and easy to deploy, wireless video solution for a wide range of fixed and mobile video monitoring applications. By integrating MOTOMESH™ Quattro or MOTOMESH™ Solo Wireless Modem Cards (WMC) directly into the Sony IPELA camera, the cost to deploy these cameras are reduced by up to 50% or

more. The integrated Mesh Camera System solution is also smaller, less visible, and draws less power than deployments that require external modems or access points. These cameras not only wirelessly connect to the network, but the Mesh Camera System video solution can also be deployed in ad-hoc mode to create an incident video network at licensed 4.9GHz or unlicensed 2.4GHz frequencies where the network is not available. Whether integrated into an existing MOTOMESH Quattro or MOTOMESH Solo network, or deployed as a stand alone video solution, Mesh Camera System users can wirelessly access high quality video feeds – even while traveling at highway speeds. Since the WMC drivers come preloaded, Mesh Camera Systems will then automatically join the wireless network and will continually self-optimize routes and links for maximum performance. With every Mesh Camera System acting as a router/repeater, the video network actually becomes more robust when additional cameras are added.

For applications where meshing, high speed connectivity to the video stream, or ad-hoc networking are not required, the Infrastructure Camera is also available in a standards based 802.11b/g 2.4GHz Wi-Fi interface. This camera model comes with a CompactFlash 802.11g card that is inserted directly into the camera to allow the camera to stream video back over the wireless network. This is the best option for a wireless video surveillance solution over the MOTOMESH™ Duo network.

Rapidly Deployable Video PODs



The Motorola Rapidly Deployable Video PODs (Portability On Demand) include the Sony SNC-RZ50N-MT wireless video camera, a vandal resistant dome, rugged tripod, battery, charger, antenna, wheeled Pelican carrying case, and two cards at either 2.4GHz MEA or 4.9GHz MEA. One card is inserted into the camera and the other into a PC, laptop, or PDA with a PCMCIA Type 2 slot. The POD is also available in a standards based 802.11b/g 2.4GHz interface, which comes with a CompactFlash 802.11g card. Mesh Camera POD domes and cameras are powered by an included 12V DC deployable battery designed to function for over eight hours on a single charge. The entire kit is packaged in a rugged carrying case for portability on demand.

The SNC-RZ50N-MT is the latest in a series of Sony network cameras that incorporates advanced image processing technology to provide three compression formats: JPEG,

MPEG-4, and H.264 (H.264 format can currently only be viewed using a browser). Users can choose any of the three compression formats to match the network environment and application requirements. Furthermore, with a newly developed "Dual Encoding Capability," the camera allows for simultaneous streaming in JPEG and MPEG-4, further expanding monitoring applications. In addition to its Pan/Tilt capability, the SNC-RZ50N is equipped with a powerful 26X optical zoom, allowing users to zoom in on small or distant objects with exceptional clarity. And because the camera incorporates a Day/Night function, it provides clear images in low-light environments and even in 0.1x lighting conditions (when visible light is absent to the naked eye).

Combining other convenient features, such as Intelligent Motion Detection, Intelligent Object Detection, Voice Alert, Built-in Compact Flash and PC card slots, and an Image Flip function, the SNC-RZ50N-MT can be used for a wide variety of monitoring applications in locations such as schools, shopping malls, public spaces. The SNC-RZ50N-MT also offers more PTZ-capabilities with a pan range of 340 degrees and a tilt range of 115 degrees, enabling users to monitor a wide area.

Motorola also offers multiple types of video surveillance camera kits that consist of various packaged solutions for wireless data users interested in broadband capabilities. The kits include the basic hardware and software needed for an outdoor video camera deployment (additional details below).

Wired Cameras

In addition to the Infrastructure and POD wireless camera models, Motorola offers several different types of wired camera solutions.

The SNC-CS50N is ideal for mounting in airports, schools, buildings, corners, and places where a PTZ camera is not needed. The SNC-RZ50N is PTZ-capable with a pan range of 340 degrees and a tilt range of 115 degrees, enabling users to monitor a wide area. The SNC-RX530N, RX550N, and RX570N cameras are top of the line PTZ day/night cameras with a full 360 degree endless pan range. The SNC-DF80N model is a vandal-resistant in/outdoor camera with a polycarbonate mini-dome and aluminum die-cast housing that has a heater option for severely cold areas. And the SNC-DF50N model is a vandal-resistant indoor camera with a polycarbonate mini-dome.

Configuration

Wireless Camera Accessories

Description	Full Description	Nomenclature	APC	Price
REAL SHOT MANAGER V4 SUPPORTING 32 CAMERAS	Wired Camera	RLN6191	683	\$5,170.00
ALUMINIUM POLE MOUNT ADAPTER	-	RLN6197	683	\$89.00

SONY 360 PTZ CAMERA-WHITE SNC-RX550N/W-MT	-	RLN6183	683	\$4,046.00
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Deployable POD Accessories

Description	Full Description	Nomenclature	APC	Price
12V CHARGER FOR CAMERA POD BATTERY	Video Management Server	RPN4056	683	\$150.00
SONY 340 PTZ DEPLOYABLE DOME	-	RLN6315	683	\$975.00

Software & Services

Motorola / Sony Camera Solutions

There are five Motorola Infrastructure Camera models (Options 1-4 below) that provide solutions to meet your customers' wireless video surveillance requirements. For detailed information on what is included in each model, see the Ordering Instructions (below). Infrastructure video cameras are defined to be cameras that are mounted on poles, buildings, and permanent structures. The Sony cameras used for infrastructure deployments are the SNC-RX550N-MT models. These include a single outdoor camera for a MOTOMESH Quattro network, a single outdoor camera for a MOTOMESH Solo network, a single outdoor camera for a MOTOMESH Duo or other Wi-Fi network, a surveillance kit for a MOTOMESH Quattro network, and a complete turnkey surveillance kit for a MOTOMESH Solo network.

There are three Rapidly Deployable Video POD Camera models (Options 5-7 below) that are defined to be cameras mounted on tripods, used in the field, and powered by a 12V DC battery. The Sony Cameras used for the rapidly deployable video PODs are SNC-RZ50N-MT. The deployable video cameras include a MOTOMESH Quattro camera POD, a MOTOMESH Solo camera POD, and a 2.4Ghz 802.11g Wi-Fi camera POD.

In addition to the Infrastructure and POD wireless camera models, Motorola offers several wired camera solutions detailed below (Options 8-12 below).

OPTION #1: (HK1257A):

The 4.9 MEA Sony Camera is for deploying a video camera in an existing MOTOMESH Quattro network. This model assumes you have MeshManager. The camera, outdoor dome, remote antenna mount, power supply, and WMC7300 card are part of the model. To view the Sony camera, a version of the RealShot software needs to be ordered or another video management solution.

The 4.9 MEA Sony Camera includes the following:

- 1 Sony Camera - SNC-RX550N/W-MT/W-MT (or SNC-RX550N/W-MT/B-MT)
- 1 WMC7300 Card
- 1 Outdoor dome, mounting brackets and antenna
- 1 Camera power supply

Notes:

(1) RealShot Manager software is not included and must be ordered separately, or another video management solution.

(2) The HK1257A comes standard with a white camera, 11 dBi antenna, and clear outdoor dome. These items can be substituted by ordering a ZA00479AB black camera, ZA00454AA 9 dBi antenna, or a ZA00480AB tinted outdoor dome. Plan to lose about 1.0 to 1.2 F-Stops with the tinted dome.

OPTION #2: (HK1256A):

The 2.4 MEA Sony Camera is for deploying a video camera in an existing MOTOMESH Solo legacy network (**NOTE:** HK1256A will only work with legacy R3.x software). This model assumes you have MeshManager. The camera, outdoor dome, remote antenna mount, power supply, and WMC6300 card are part of the model. To view the Sony camera, a version of the RealShot software needs to be ordered or another video management solution.

The 2.4 MEA Sony Camera includes the following:

- 1 Sony Camera - SNC-RX550N/W-MT (or SNC-RX550N/W-MT/B-MT)
- 1 WMC6300 Card
- 1 Outdoor dome, mounting brackets and Antenna
- 1 Camera power supply
- MEA Admin CD
- Windows 2000 XP

Notes:

(1) RealShot Manager software is not included and must be ordered separately, or another video management solution.

(2) The HK1256A comes standard with a white camera, dynamically provisioned, 8 dBi antenna, and clear outdoor dome. These items can be substituted by ordering a ZA00479AB black camera, ZA00385AA static provisioning, ZA00388AA 4 dBi antenna, or a ZA00480AB tinted outdoor dome. Plan to lose about 1.0 to 1.2 F-Stops with the tinted dome.

OPTION #3: (HK1767A):

The 2.4GHz 802.11b/g Sony Camera is for deploying a video camera in an existing MOTOMESH Duo network or other standards based Wi-Fi network. The camera, outdoor dome, remote antenna mount, power supply, and CF 802.11b/g card are part of the model. To view the Sony camera, a version of the RealShot software needs to be ordered or another video management solution.

The 2.4GHz 802.11b/g Sony Camera includes the following:

- 1 Sony Camera - SNC-RX550N/W

- 1 SNCA-CFW5 802.11g Card
- 1 Outdoor dome, mounting brackets and Antenna
- 1 Camera power supply
- MEA Admin CD
- Windows 2000 XP

Notes:

(1) RealShot Manager software is not included and must be ordered separately, or another video management solution.

(2) The HK1767A comes standard with a white camera and clear outdoor dome. The clear dome can be substituted by ordering a ZA00480AB tinted outdoor dome. Plan to lose about 1.0 to 1.2 F-Stops with the tinted dome.

OPTION #4 (HK1302A):

The 4.9 MEA Sony Surveillance Kit is a video solution package to deploy in a MOTOMESH Quattro network. The MeshManager software is **not** included but can be ordered as a separate model number as part of a MiSC, Mobile MiSC, or as software only. RealShot software is included and used to manage the Sony Cameras.

The 4.9 MEA Sony Surveillance Kit includes the following:

- 1 IAP7300
- 2 Sony Cameras - SNC-RX550N/W-MT (or SNC-RX550N/W-MT or N/B-MT)
- 2 WMC7300 cards for cameras
- 1 WMC6300 card for laptop
- 2 Outdoor domes, mounting brackets and antenna
- 1 RealShot Manager supporting up to 4 Cameras
- 2 Camera power supplies

Note: The HK302A comes standard with white cameras, 8 dBi antennas, and clear outdoor domes. These items can be substituted by ordering ZA00479AC black cameras, ZA00452AA 4 dBi antennas, or a ZA00480AC tinted outdoor domes. Plan to lose about 1.0 to 1.2 F-Stops with the tinted dome.

OPTION #5 (HK1304A):

The 4.9 MEA Deployable Camera POD is a rapidly deployable video surveillance solution with portability on demand. It operates with a MOTOMESH Quattro network on the 4.9GHz public safety band or in ad-hoc mode outside of the network.

The 4.9 MEA Deployable Camera POD includes the following:

- 1 Sony SNC-RZ50N-MT
- 1 WMC7300 Card for camera
- 1 WMC7300 Card with antenna for laptop
- 1 Battery and battery charger
- 1 Sony remote deployable antenna mount
- 1 Outdoor vandal resistant clear dome, tripod, mounting brackets, and antenna
- 1 Wheeled Pelican carrying case

Note: RealShot Manager software is not included and must be ordered separately, or another video management solution.

Option #6 (HK1301A):

The 2.4 MEA Deployable Camera POD is a rapidly deployable video surveillance solution with portability on demand. It operates with a MOTOMESH Solo legacy network on the 2.4GHz band or in ad-hoc mode outside of the network. **NOTE:** HK1256A will only work with legacy R3.x software.

The 2.4 MEA Deployable Camera POD includes the following:

- 1 Sony SNC-RZ50N-MT
- 1 WMC6300 Card for camera
- 1 WMC6300 Card with antenna for laptop
- 1 Battery and battery charger
- 1 Sony remote deployable antenna mount
- 1 Outdoor vandal resistant clear dome, tripod, mounting brackets, and antenna
- 1 Wheeled Pelican carrying case

Notes:

(1) RealShot Manager software is not included in the kit and must be ordered separately, or another video management solution.

(2) The HK1301A must be ordered as either statically provisioned (ZA00385AA) or dynamically provisioned (ZA00386AA).

Option #7 (HK1766AA):

The 2.4GHz 802.11b/g Deployable Camera POD is a rapidly deployable video surveillance solution with portability on demand. It operates in an existing MOTOMESH Duo network or other standards based Wi-Fi network.

The 2.4GHz 802.11b/g Deployable Camera POD includes the following:

- 1 Sony SNC-RZ50N
- 1 SNCA-CFW5 802.11g card for camera
- 1 Battery and battery charger
- 1 Sony remote deployable antenna mount
- 1 Outdoor vandal resistant clear dome, tripod, mounting brackets, and antenna
- 1 Wheeled carrying case

Notes:

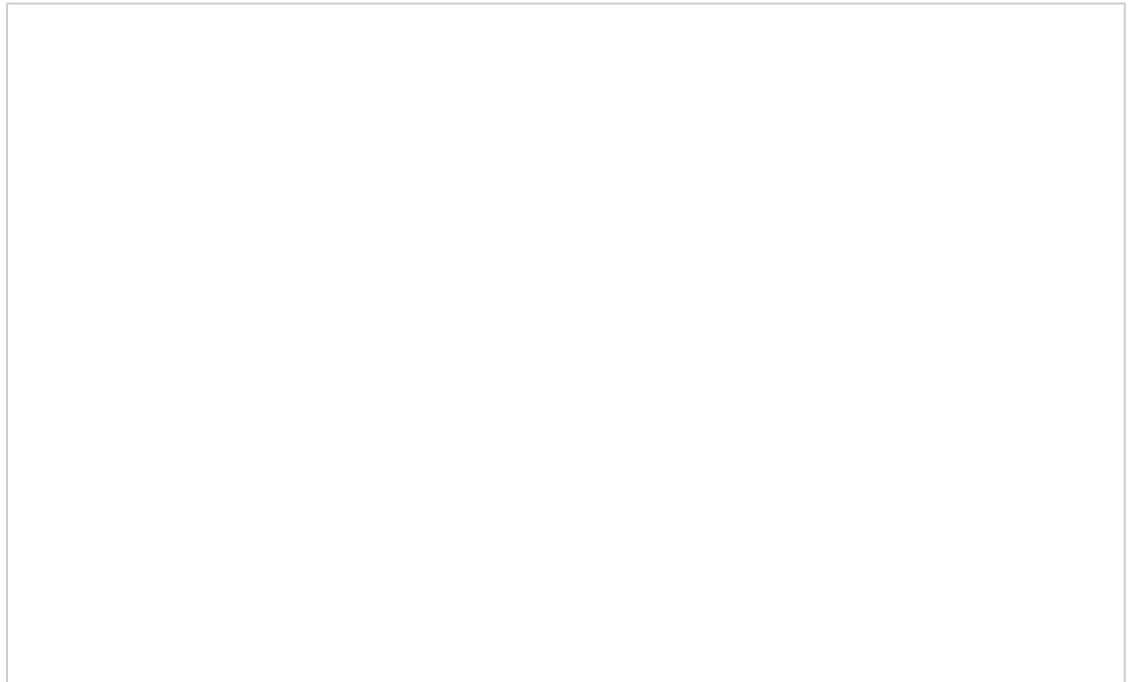
(1) RealShot Manager software is not included in the kit and must be ordered separately, or another video management solution.

Wired Camera Models

Option #8: The SNC-CS50N is ideal for mounting in airports, buildings, corners, and places where a PTZ camera is not needed. This color IP network camera is ideal for applications ranging from surveillance to remote monitoring in areas such as shopping malls, airports, warehouses, and more. It incorporates a highly sensitive 1/3-type CCD with Super Exwave technology for superb picture quality and high sensitivity with a minimum illumination of 0.4 lx at F 0.95, 50 IRE. This camera comes equipped with an auto iris, high-performance vari-focal lens and features a CS mount that offers users the flexibility to replace the existing lens with a different lens to match the application requirements. This camera also offers a variety

of key features for surveillance and remote monitoring, such as a Day/Night function to provide clear monitoring images even in low light conditions, Advanced Video Motion Detection, and Unattended Object Detection. Using advanced image processing technology, the SNC-CS50 provides three compression formats: JPEG, MPEG-4, and H.264, allowing users to choose the appropriate compression format to match the network environment and monitoring applications. A high-frame rate of 30 fps when the image size is VGA (640 x 480) for JPEG and MPEG-4 can be achieved, providing clear and smooth moving images while monitoring. Also, because the SNC-CS50 employs a newly developed "Dual Encoding Capability," JPEG and MPEG-4 images can be streamed simultaneously, further expanding monitoring applications possibilities.

To order an SNC-CS50N infrastructure, non-PTZ camera for video surveillance purposes, to be used with an Ethernet cable, order the following accessory items from the list of accessories below:

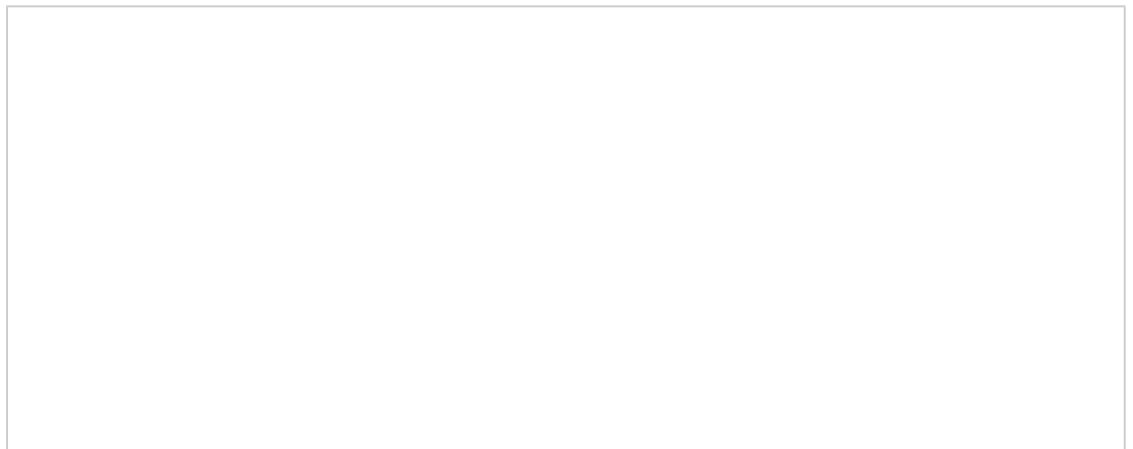



RLN6186A - Sony fixed IP Camera POE

RLN6340A - Indoor Wall Mount / Fixed IP Camera POE

RLN6341A - Outdoor Wall Mount / w/ H&B Fixed IP Camera POE

Option #9 (HK1764A, HK1765A)

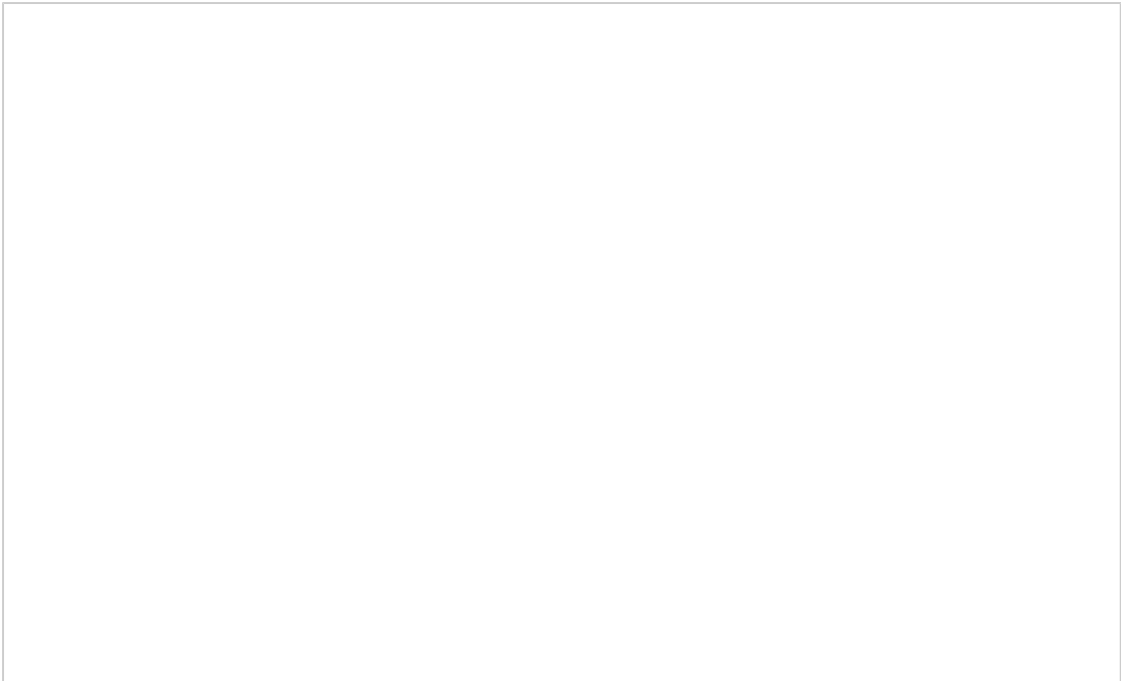




The SNC-RZ50N is PTZ-capable with a pan range of 340 degrees and a tilt range of 115 degrees, enabling users to monitor a wide area. In addition to its Pan/Tilt capability, the SNC-RZ50N is equipped with a powerful 26X optical zoom, allowing users to zoom in on small or distant objects with exceptional clarity. And because the camera incorporates a Day/Night function, it provides clear images in low-light environments and even in 0 lx lighting conditions (when visible light is absent to the naked eye). Similar to the SNC-CS50N, it also provides three compression formats: JPEG, MPEG-4, and H.264, as well as "Dual Encoding Capability". Combining other convenient features, such as Intelligent Motion Detection, Intelligent Object Detection, Voice Alert, Built-in Compact Flash and PC card slots, and an Image Flip function, the SNC-RZ50 can be used for a wide variety of monitoring applications in location such as schools, shopping malls, public spaces, and more. PTZ-capable with a pan range of 340 degrees and a tilt range of 115 degrees, enabling users to monitor a wide area.

To order an SNC-RZ50N camera with gooseneck mount, pole mount adaptor, power supply, and vandal resistant dome, order HK1764A for model with clear dome and HK1765A for model with tinted dome.

Option #10 (RLN6422A, RLN6425A, RLN6426A):



These 3 Sony Day/Night PTZ cameras offer a broad set of high end capabilities and features including 360 degree endless pan, -90 to 0 degree tilt angle, Intelligent Motion Detection, Intelligent Object Detection, 1/4 type Exwave HAD CCD, Exwave DEPA, selectable codec (JPEG/MPEG-4/H.264), and 30 fps JPEG/MPEG-4 (10 fps H.264). The cameras differ primarily on zoom ratio, horizontal resolution, and minimum illumination specs.

A) RLN6426A - Sony SNC-RX530N/W Camera - No MEA

- 18x Optical Zoom, 470 TVL, 0.7 lx (color) / 0.15 lx (B/W)

B) RLN6422A - Sony SNC-RX550N/W Camera - No MEA

- 26x Optical Zoom, 470 TVL, 1.0 lx (color) / 0.15 lx (B/W)

C) RLN6425A - Sony SNC-RX570N/W Camera - No MEA

- 36x Optical Zoom, 530 TVL, 1.4 lx (color) / 0.15 lx (B/W)

Each RX500 series camera can be ordered with the 4 accessories listed below to create a complete wired camera kit.

Accessories:

RLN6235A - Wired Outdoor 7" Dome - Clear

RLN6197A - Aluminum Pole Mount Adapter

RLN6198A - White Aluminum Gooseneck Wall Mount Adapter

RPN4069A - UNIPBU1 Power Block Unit - AC110V In AC24V Out

Option #11 (RLN6401A):

The SNC-DF80N model is a vandal-resistant in/outdoor camera with a polycarbonate mini-dome and aluminum die-cast housing that has a heater option for severely cold areas. The camera also uses Sony's SuperExwave CCD technology to achieve sensitivity of 0.6lx, and has a day/night function to improve sensitivity in low-light conditions. Its IP66 ingress protection with inner cable pipe helps prevent water from reaching the camera, and it has Power over Ethernet capability, as well as a CF card slot, for local pre/post-alarm recording.

To order an SNC-DF80N camera, order RLN6401A. This camera can also be ordered with an optional heater (RLN6404A), in-ceiling bracket (RLN6403A), and wall mount adaptor (RLN6405A).

Option #12 (RLN6402A):

The SNC-DF50N model is a vandal-resistant indoor camera with a polycarbonate mini-dome.

To order an SNC-DF50N camera order RLN6402A. This camera can also be ordered with an in-ceiling bracket (RLN6403A).

Additional Information and Product Specifications:

[Wireless Video Surveillance Micro-site](#)

[Wireless Camera Documentation](#)

Video Management Server

Motorola offers a video management server with the following specifications:

DDN9528A - HP ProLiant DL360 G5 Rackmount/ 2 GB Mem / two 120 GB hard drives

The DL360 G5 Server includes:

Dual Core Intel® Xeon® 5110 (1.60GHz, 1066 FSB) Processor

Windows 2003 Server with the latest service pack available from Microsoft

CD-RW/DVD-ROM 24X Combo Kit

Video Card with dual analog/digital displays

HP L1740 17-inch LCD Flat Panel Monitor Analog/Digital and Multimedia

The OS drive is designated as C: , and the video drive as D: . RAID info: RAID 0 - the two HDDs to present one large logical drive to the OS.

The server can also be ordered with additional storage - up to four 120 GB hard disks, for a total of six.

DDN9529A - Additional 120 GB Hard Disk

Wireless and Wired Camera Models

Order the following Kits based on customer requirements, for additional details of what is included in each kit see section: Motorola / Sony Camera Solutions (above)

Wireless:

Wired: (the tinted dome causes the camera to lose 1.0 to 1.2 F-Stops)

NOTES:

(1) For more information about the various camera housings, see the following camera housing brochure: http://il02cms01.comm.mot.com/cms/File_bin/Camera-Housing%20Brochure_final%20v2.pdf

(2) Tinted Housings: All camera orders come with clear housings unless otherwise specified. To order HK1256 or HK1257 with a tinted housing, order option ZA00480AB. To order HK1302 with tinted housings, order option ZA00480AC.

(3) Camera Color: All camera orders come with white cameras unless otherwise specified. To order HK1256 or HK1257 with a black camera, order option ZA00479AB. To order HK1302 with black cameras, order option ZA00479AC.

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[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



SIERRA WIRELESS IN VEHICLE ROUTER
BASED SOLUTIONS

KEEPING YOU AND YOUR VEHICLE
CONNECTED

WITH REMOTE WORKING A CRITICAL ELEMENT
OF PUBLIC SAFETY, MOBILE CONNECTIVITY IS
VITAL.

IT'S ALL ABOUT INFORMATION FLOW

IMPORTANT NOTE:

- Maximum discount over list price is 15%. Additional discounts will require price exception approvals.
- Prices DO NOT include installation or configuration services. For quoting installation and configuration services please contact your Pre-Sales Quoting team.

Updates

IT'S ALL ABOUT INFORMATION FLOW

Vehicle routers keep people connected in vehicles so they can access real-time intelligence on the road. They provide a bubble of connectivity around the vehicle that allows a variety of equipment from laptops and tablets to in-vehicle and body-worn cameras to access the Internet. We call this bubble a vehicle area network (VAN) and the connectivity between the VAN and the enterprise network is what makes the crucial flow of information between the field and base possible. For public safety, this information flow can be a lifeline. Mobile connectivity over WAN allows frontline teams to transmit and receive data securely in real time – video feeds, maps and criminal record databases, for example – and coordinate their response with other emergency services. Command can monitor the location and status of assets, access telemetry and see fleet information such as data on driver behavior. This two-way flow of information help keep responders safe and effective.

ALL NEW ROUTERS MUST BE REGISTERED
HERE: <https://www.sierrawireless.com/complete/register/>

Sierra Wireless Courses:

[SVC0055 Sierra Wireless: Connected Networking Solution Overview](#)

[SVC0056 Sierra Wireless: Gateway Portfolio Overview](#)

[SVC0061 Sierra Wireless: Basic MG90 for Mobility](#)

[SVC0062 Sierra Wireless: Basic MP70 for Mobility](#)

Please see Selling Sierra Wireless LTE Vehicle Routers Webinar recording here:

Ordering Information

MP90 Dual Carrier Router FirstNet Capable including Wi-fi capabilities with a 6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black and 3 YR Essential Service which includes the AMM on Cloud.

Below is an example of an order placed for a MG90:

LINE ITEM	QTY	MAIN LINE ITEMS:	
DESCRIPTION			
1	10	TT3452A (Sierra Wireless SKU: 1103982)	MG90
Routers (Dual LTE-A Pro)			
1a	10	TT06354AA	3 Y
Essential Service			
1b	1	TT06387AA (Sierra Wireless SKU:9010202)	AMM
Server Software License - Enterprise Lite			
1c	10	TT06424AA (Sierra Wireless SKU:9010204)	AMM
Client License - MG90 (per device)			
1d	1	TT06383AA (Sierra Wireless SKU: 9010206)	ACM
Server Software License (Max 2 instances)			
1e	10	TT06364AA (Sierra Wireless SKU: 9010208)	ACM
Client License (NON-FIPS)			
1f	1	TT06367AA (Sierra Wireless SKU:6001027)	AMM
Appliance Hardware - Enterprise Lite (per appliance)			
1g	10	TT06344AA (Sierra Wireless SKU:9010238)	AM
Server Software License - Enterprise Lite			

LINE ITEM	QTY	OPTIONS:	
DESCRIPTION			
2	10	DDN2777 (Sierra Wireless SKU:6001197)	6in1
SharkFin Antenna			

LINE ITEM	QTY	OPTIONS:	
DESCRIPTION			
3	1	DDN2768 (Sierra Wireless SKU: 6001023)	AC
Adaptor, 12 VDC MG90			

NOTE: "For implementation and on-site training, please quote through I-Procurement:

Description	Sierra SKU	MG90	MP70	RV55	PRICE
AM/AMM Implementation (1 instance, Remote					

Deployment)	9010267	X	X	X	\$4,000.00
AM/AMM Implementation (1 Instance, On-site)	9010244	X	X	X	\$9,000.00
AM/AMM Implementation (up to 3 Instances, On-site)	9010245	X	X	X	\$14,000.00
ACM Implementation (1 Instance, Remote Deployment)	9010273	X	X	X	\$8,000.00
ACM Implementation (2 instances, On-site)	9010246	X	X	X	\$12,000.00
On-Site Training (2-day event)	9010133	X	X	X	\$8,000.00
On-Site Training Daily Rate for Additional Days	9010134	X	X	X	\$2,500.00
Live Web-based Training Hourly Rate	9010135	X	X	X	\$300.00
Quarterly Solution Review	9010218	X	X	X	\$30,000.00
Semi-annual Solution Review	9010219	X	X	X	\$20,000.00
AirLink Device Deployment (Remote Deployment)	9010275	X	X	X	\$3,000.00
AirLink Device Deployment (On-site)	9010272	X	X	X	\$30,000.00

Configuration

MG90 AIRLINK ROUTER

STEP ONE (MUST SELECT ONE)

MG90 ROUTERS

Description	Full Description	Nomenclature	APC	Price
MG90 ROUTERS (SINGLE LTE-A PRO)	Includes: Single LTE-A Pro (Sierra Wireless SKU: 1103981)	TT3451	635	\$1,599.00
MG90 ROUTERS (DUAL LTE-A PRO)	Includes: Dual LTE-A Pro (Sierra Wireless SKU: 1103982)	TT3452	635	\$1,899.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR MG90

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

NOTE: MUST MATCH THE QTY OF ROUTERS

Description	Full Description	Nomenclature	APC	Price
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010352	TT06354AA	923	\$585.00
5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010354	TT06355AA	923	\$975.00
AIRLINK SUPPORT - MG ONLY, 2 YEAR	Sierra SKU: 9010351	TT06388AA	923	\$390.00
AIRLINK SUPPORT - MP/RV 5 YEAR	Sierra SKU: 9010353	TT06389AA	923	\$250.00
AIRLINK SUPPORT - MG ONLY 1 YEAR	Sierra SKU: 9010229	TT06390AA	923	\$105.00

AIRLINK SUPPORT - MG ONLY 2 YEAR	Sierra SKU: 9010355	TT06391AA	923	\$210.00
AIRLINK SUPPORT - MG ONLY 3 YEAR	Sierra SKU: 9010356	TT06392AA	923	\$315.00
AIRLINK SUPPORT - MG ONLY 4 YEAR	Sierra SKU: 9010357	TT06393AA	923	\$420.00
AIRLINK SUPPORT - MG ONLY 5 YEAR	Sierra SKU: 9010358	TT06394AA	923	\$525.00
1 YR ESSENTIAL	Sierra SKU: 9010184	TT06333AA	923	\$195.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MG90

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - MG90 (PER DEVICE)	New AMM On Premise deployment Requires also Server License: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010204) (Sierra Wireless SKU: 9010204)	TT06424AA	635	\$295.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MG90

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ACM FIPS SERVER SOFTWARE LICENSE	QTY:1 order one per deployment. Includes FIPS.	TT06381AA	635	\$7,500.00

(MAX 2 INSTANCES)	(Sierra Wireless SKU: 9010207)			
ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router: requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ACM CLIENT LICENSE (FIPS) - MG90 (PER DEVICE)	Order one per router. Requires TT06381AA. Includes FIPS. (Sierra Wireless SKU: 9010210)	TT06365AA	635	\$300.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MG90

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	"QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)"	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MG90

REQUIRED ONLY FOR FIXED DEPLOYMENTS

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00
	QTY 1: order one per deployment, provides three instances of software.			

AM SERVER SOFTWARE LICENSE - ENTERPRISE	Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00
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STEP SEVEN (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR MG90

Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	3in1 SharkFin WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT	2in1 SharkFin Antenna - 2xLTE, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001120)	DDN2782	635	\$190.00
2IN1 DOME ANTENNA - 2XLTE, BOLT MOU	2in1 Dome Antenna - 2xLTE, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001123)	DDN2783	635	\$190.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	3in1 WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001122)	DDN2784	635	\$180.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	3in1 WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, White (Sierra Wireless SKU: 6001143)	DDN2785	635	\$180.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00

INTERNAL WIFI/BT ANTENNA - 2.4GHZ,	Internal WiFi/BT Antenna - 2.4GHz, Dash Mount, 3m, Black (Sierra Wireless SKU: 6001127)	DDN2794	635	\$28.00
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STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ACCESSORIES FOR MG90

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MOUNTING BRACKET FOR MG90	(Sierra Wireless SKU: 6001024)	DDN2766	635	\$75.00
MG90 I/O CABLE	(Sierra Wireless SKU: 6001095)	DDN2767	635	\$25.00
AC ADAPTOR, 12 VDC MG90	Applies to MG90 only (Sierra Wireless SKU: 6001023)	DDN2768	635	\$75.00
DC POWER CABLE PIGTAIL MG90 10FT	(Sierra Wireless SKU: 6001103)	DDN2798	635	\$25.00
ASSET TAG - WI-FI (T2)	(Sierra Wireless SKU: 6001034)	DDN2801	635	\$120.00
ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	(Sierra Wireless SKU: 6001035)	DDN2802	635	\$130.00
FIELD UPGRADE KITS FOR MG90, EM7511	Upgrade to MG90 to FirstNet (Sierra Wireless SKU: 6001175)	DDN2804	635	\$299.00
UPGRADE FOR MG90 TO FIRSTNET	-	DDN2980	635	\$399.00
MP70 J1939 Y CABLE	-	DDN2984	635	\$275.00
OMG-MG CABLE+ANTENNA ADAPTOR	-	DDN2985	635	\$275.00
MAP TO USB (USB ETHERNET SATELLITE CABLE)	MAP TO USB (USB ETHERNET SATELLITE CABLE)	KT000259A01	681	\$650.00

OPTIONAL-SEPARATE LINE ITEM

RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud			

RENEWAL	Support. Includes 1 year service renewal up to 5 years from device purchase.	DDN2765	923	\$195.00
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ING	DDN2762	GNX5P/GNX6, POWER/DATA CABLE, "Y" C	635	30
QUOTEDS	ING	DDN2763	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2764	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2765	1 YR ESSENTIAL ELITE RENEWAL	923	30
QUOTEDS	ING	DDN2766	MOUNTING BRACKET FOR MG90	635	30
QUOTEDS	ING	DDN2767	MG90 I/O CABLE	635	30
QUOTEDS	ING	DDN2768	AC ADAPTOR, 12 VDC MG90	635	30
QUOTEDS	ING	DDN2770	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2771	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2772	3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2773	MP I/O CABLE	635	30
QUOTEDS	ING	DDN2774	MP70 OBD-II Y CABLE	635	30
QUOTEDS	ING	DDN2775	MP70 J1939 Y CABLE	635	30
QUOTEDS	ING	DDN2776	AC ADAPTOR, 12 VDC MP/RV	635	30
QUOTEDS	ING	DDN2777	6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2779	3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	635	30
QUOTEDS	ING	DDN2780	3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2781	3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2782	2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT	635	30

QUOTEDS	ING	DDN2783	2IN1 DOME ANTENNA - 2XLTE, BOLT MOU	635	30
QUOTEDS	ING	DDN2784	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2785	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2786	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2787	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2788	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2789	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2790	PANEL ANTENNA BRACKET (WALL/POLE/MA	635	30
QUOTEDS	ING	DDN2791	HIGH GAIN DIRECTIONAL ANTENNA - 2XL	635	30
QUOTEDS	ING	DDN2792	PADDLE WIFI ANTENNA - 2.4/5GHZ	635	30
QUOTEDS	ING	DDN2793	PADDLE CELLULAR ANTENNA	635	30
QUOTEDS	ING	DDN2794	INTERNAL WIFI/BT ANTENNA - 2.4GHZ,	635	30
QUOTEDS	ING	DDN2795	SHARKFIN MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2796	DOME MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2797	DIN RAIL MOUNTING BRACKET FOR RV50X	635	30
QUOTEDS	ING	DDN2798	DC POWER CABLE PIGTAIL MG90 10FT	635	30
QUOTEDS	ING	DDN2799	DC POWER CABLE, X PLATFORM CIGAR	635	30
QUOTEDS	ING	DDN2800	DC POWER CABLE MP/RV	635	30
QUOTEDS	ING	DDN2801	ASSET TAG - WI-FI (T2)	635	30
QUOTEDS	ING	DDN2802	ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	635	30
QUOTEDS	ING	DDN2803	OBD II VEHICLE TELEMETRY KIT	635	30
QUOTEDS	ING	DDN2804	FIELD UPGRADE KITS FOR MG90, EM7511	635	30
QUOTEDS	ING	DDN2805	3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	635	30
QUOTEDS	ING	DDN2980	UPGRADE FOR MG90 TO FIRSTNET	635	30
QUOTEDS	ING	DDN2984	MP70 J1939 Y CABLE	635	30

QUOTEDS	ING	DDN2985	OMG-MG CABLE+ANTENNA ADAPTOR	635	30
ACCESSORY	CDP	KT000259A01	MAP TO USB (USB ETHERNET SATELLITE CABLE)	681	6
QUOTEDS	ING	TT3451	MG90 ROUTERS (SINGLE LTE-A PRO)	635	30
QUOTEDS	ING	TT3452	MG90 ROUTERS (DUAL LTE-A PRO)	635	30
QUOTEDS	ING	TT3457	MP70 ROUTERS (DC;WIFI)	635	30
QUOTEDS	ING	TT3458	MP70 ROUTERS (DC)	635	30
QUOTEDS	ING	TT3462	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3463	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3464	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3465	RV55 ROUTER (DC)	635	30
QUOTEDS	ING	TT3466	RV55 ROUTER (DC;WIFI)	635	30

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ING	DDN2762	GNX5P/GNX6, POWER/DATA CABLE, "Y" C	635	30
QUOTEDS	ING	DDN2763	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2764	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2765	1 YR ESSENTIAL ELITE RENEWAL	923	30
QUOTEDS	ING	DDN2766	MOUNTING BRACKET FOR MG90	635	30
QUOTEDS	ING	DDN2767	MG90 I/O CABLE	635	30
QUOTEDS	ING	DDN2768	AC ADAPTOR, 12 VDC MG90	635	30
QUOTEDS	ING	DDN2770	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2771	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2772	3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2773	MP I/O CABLE	635	30

QUOTEDS	ING	DDN2774	MP70 OBD-II Y CABLE	635	30
QUOTEDS	ING	DDN2775	MP70 J1939 Y CABLE	635	30
QUOTEDS	ING	DDN2776	AC ADAPTOR, 12 VDC MP/RV	635	30
QUOTEDS	ING	DDN2777	6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2779	3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	635	30
QUOTEDS	ING	DDN2780	3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2781	3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2782	2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT	635	30
QUOTEDS	ING	DDN2783	2IN1 DOME ANTENNA - 2XLTE, BOLT MOU	635	30
QUOTEDS	ING	DDN2784	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2785	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2786	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2787	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2788	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2789	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2790	PANEL ANTENNA BRACKET (WALL/POLE/MA	635	30
QUOTEDS	ING	DDN2791	HIGH GAIN DIRECTIONAL ANTENNA - 2XL	635	30
QUOTEDS	ING	DDN2792	PADDLE WIFI ANTENNA - 2.4/5GHZ	635	30
QUOTEDS	ING	DDN2793	PADDLE CELLULAR ANTENNA	635	30
QUOTEDS	ING	DDN2794	INTERNAL WIFI/BT ANTENNA - 2.4GHZ,	635	30
QUOTEDS	ING	DDN2795	SHARKFIN MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2796	DOME MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2797	DIN RAIL MOUNTING BRACKET FOR RV50X	635	30
QUOTEDS	ING	DDN2798	DC POWER CABLE PIGTAIL MG90 10FT	635	30
QUOTEDS	ING	DDN2799	DC POWER CABLE, X PLATFORM CIGAR	635	30

QUOTEDS	ING	DDN2800	DC POWER CABLE MP/RV	635	30
QUOTEDS	ING	DDN2801	ASSET TAG - WI-FI (T2)	635	30
QUOTEDS	ING	DDN2802	ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	635	30
QUOTEDS	ING	DDN2803	OBD II VEHICLE TELEMETRY KIT	635	30
QUOTEDS	ING	DDN2804	FIELD UPGRADE KITS FOR MG90, EM7511	635	30
QUOTEDS	ING	DDN2805	3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	635	30
QUOTEDS	ING	DDN2980	UPGRADE FOR MG90 TO FIRSTNET	635	30
QUOTEDS	ING	DDN2984	MP70 J1939 Y CABLE	635	30
QUOTEDS	ING	DDN2985	OMG-MG CABLE+ANTENNA ADAPTOR	635	30
ACCESSORY	CDP	KT000259A01	MAP TO USB (USB ETHERNET SATELLITE CABLE)	681	6
QUOTEDS	ING	TT3451	MG90 ROUTERS (SINGLE LTE-A PRO)	635	30
QUOTEDS	ING	TT3452	MG90 ROUTERS (DUAL LTE-A PRO)	635	30
QUOTEDS	ING	TT3457	MP70 ROUTERS (DC;WIFI)	635	30
QUOTEDS	ING	TT3458	MP70 ROUTERS (DC)	635	30
QUOTEDS	ING	TT3462	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3463	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3464	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3465	RV55 ROUTER (DC)	635	30
QUOTEDS	ING	TT3466	RV55 ROUTER (DC;WIFI)	635	30

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**GENERAL
INFORMATION**

General Information

Microwave Radio Systems

Motorola Provides Optimal Engineering Design Chosen from Multiple Suppliers

Our Suppliers Have Dedicated Microwave Project Management follow projects from presale through implementation.

Motorola has Negotiated Extended Warranty Coverage with these Suppliers

For additional Supplier information, please refer to the [MODES](#) website.

Preferred Suppliers are

- [Aviat Networks](#)
- [Cambium Networks](#)
- [Microwave Networks Inc](#)
- [NEC](#)
- [Nokia](#)

Our Preferred Microwave Suppliers have a long history with Motorola Solutions

Your Customers can choose a system that delivers the best solution for their specific project

Single Integrated Point of Contact for your Turnkey Systems

Supplier Program Management is your One point of Contact for all Project Needs

Ease of Negotiation, Procurement and Billing

No Need for additional Purchase Orders, Credit Issues or Multiple Funding Sources

Tested under Extreme Operational Conditions in Worldwide Deployments

Protection Strategies include Loop Switching, Space Diversity and Hot Standby Radios

Motorola & Suppliers work together to provide a solution

3rd Party Manufacturers adhere to Motorola Quality and Standards (UL and R56)

For additional Information, Contact Tim Shevlin
timothy.shevlin@motorolasolutions.com

Ordering Information

Microwave projects are custom designed. Please contact the suppliers directly in order to initiate work on your design.

Part Numbers are set up as Project Specific

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

Model



Mid Power Amplifier

Ordering Information

General Information

The Mid Power Amplifier is a robust RF power amplifier containing TX and RX filtering & amplification circuitry.

Supporting GSM, CDMA2K, UMTS, and LTE, the Mid Power Amplifier enables active missions to be completed with one

front end device. The Mid Power Amplifier contains a swappable fin and fan module which provides a standalone or cold plate option.

The Mid Power Amplifier also contains automated power controls for maximum flexibility. Weighing nine pounds,

the Mid Power Amplifier will support a number of environments including those missions requiring a man packable solution.

Features

- 40W Peak RF Transmit Power Out
- 5W Average RF Transmit Power Out
- Simultaneous High and Low Band Operation
- Internal TX and RX Duplex Filtering

- Internal RX LNA
- Supports Nine Bands
- Automated Power Controls
- Swappable Fin and Fan module
- Cold Plate Mounting Option

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Model

Description	Nomenclature	Price
Mid Power Amplifier	FDKT00353	\$22,500

The Mid Power Amplifier contains the Power Amplifier, power supply, and cables required for operation.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Mini Mag (TM) Antennas

Ordering Information

Features

Electrical Specifications

Frequency Range	806-860 MHZ., 824-895 MHZ., 890-960 MHZ.
Band Width	60 MHZ.
Gain	3 dB
Power	15 Watts Maximum (Intermittent Duty)
VSWR	<2:1
Impedance	50 Ohms Nominal

Mechanical Specifications

Material	Elastomer
Cable Length	12 Foot RG174/U
Connector	Choice of Mini-UHF, SMA, BNC or TNC
Height	8.3 Inches
Weight	5.5 oz.
Base Diameter	2.3 Inches

General Information

The Mini Mag(TM) antenna comes factory tuned and ready to install. The magnetic mount

not only provides quick installation, but also quick removal when going through car washes or switching vehicles. It's ideal for applications requiring no holes drilled in the vehicle body. The low profile whip and the small strong magnet are excellent choices for low clearance applications. The single piece elastomer housing means there are no moving parts to install or break. It has been environmentally tested for temperature, humidity, and corrosion. Applications include conventional and trunked mobile radios operating in 800 MHz and 900 MHz. The Mini Mag^a antenna is covered by a Two Year Limited Warranty. All Warranty claims and questions should be directed to 1-800-422-4210.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANTENNA 800MHZ MINI MAGNET BLACK	824-895 MHz., Mini-UHF Connector, Black	RAF4036AMM	554	\$47.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	RAF4036AMM	ANTENNA 800MHZ MINI MAGNET BLACK	554	14

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Model



MIP 5000 VoIP Radio Console



Ordering Information

General Information

MIP5000 Release 4.3 Now Shipping

MIP 5000 Release 4.3 Features

- Now certified for use with APX8500 Mid Power Control Station, Remote mount with 05 Control Head
- Now Certified on Microsoft Windows 10 Professional (64-Bit)
- Now Certified on Microsoft Windows 10 Enterprise IoT LTSC 2015/2016 (64-Bit)
- NEW IA OS Hardening CDs for TT3106 PC (Windows 10 Enterprise IoT LTSC 2015/2016 (64-Bit) OS)

MIP 5000 Release 4.2 Features

- Support for XPR 5550 MOTOTRBO Mobile
- 48 Channel Support
- Microsoft Windows 8.1 64-Bit
- Multi-Touch Monitor Support
- Dual Channel IRR Support

The MIP 5000 VoIP Radio Console is designed to provide customers an affordable solution to transmit dispatch quality voice over their existing Multicast enabled Ethernet network. The MIP 5000 radio console connects up to 100 users with flexible licensing that is available with 1, 4, 8, 12, 24, and 48 channel software options. In addition, up to 128 radio resources can be connected to the network and configured in the Console System Database Manager (CSDM). These configuration files can be saved on each operator position to allow the dispatcher to access & control different combinations of radio resources (up to 48 at a time).

MIP 5000 consists of **Gateways** which connect the radios to the **Network** and Operator Position components including: **MIP 5000 application software, Personal Computer (PC), and Audio accessories.**

Gateways

There are 4 types of gateways available in a MIP 5000 system to interface to radios: Local, Tone, Digital, and MOTOTRBO. Gateways have a one to one relationship to radios. One gateway is required for each radio controlled.

Local Gateway L3482 controls radios, typically Mobiles in a Tray, via Microphone and Speaker connection and will support up to 16 frequency select (depending on radio capability).

Radio interface cables:

- Prewired cable for CDM Family DDN6338
- Prewired cable for MCS2000 DDN6699
- Generic radio cable for use with XTL family DDN6340 (Requires field install of XTL accessory connector)
- Map universal cable for use with MOTOTRBO/XPR family including **Connect Plus** PMKN4018 (Requires field install of DB25 for local gateway)

Tone Gateway L3483 controls base stations or repeaters with tone control signaling which will support up to 16 frequency select (depending on radio capability) via 600 Ohm lease lines. In addition, the tone gateway will also support E&M signaling.

DIU With a tone gateway connected to the 4 wire interface on a DIU, the MIP 5000 can talk/listen, change frequency and, select coded/clear. However, MIP 5000 does not support the ACIM link functionality of the DIU.

Digital Gateway L3484 acts as a virtual control head for specific Motorola radios or Consolettes via the SB9600 protocol. MIP 5000 will display the Alias ID if the individual Subscriber is configured to send it. MIP 5000 will provide the dispatcher access to the same number of frequencies the radio is capable of.

Mobiles supported are:

- APX 7500 Mobile in a tray (05 Control Head, Remote Mount)
- MCS2000 Model III
- Spectra/Spectra Plus Consolette W9
- ASTRO XTL5000 Consolette W9
- CDM1550 LS/LS+ - (Requires Remote Kit (RLN4802) and Remote Cable Kit (RKN4077)).

R04.01.00	R09.00.00
R04.01.01	R09.00.00
R04.02.00	R10.00.00
R04.03.00	R17.00.00

MOTOTRBO Gateway L3598 acts as a virtual control head for the MOTOTRBO XPR 4550 and XPR 5550 control station. MIP 5000 will display the Alias ID when in analog or TRBO digital mode. MIP 5000 will provide the dispatcher access to the same number of frequencies the radio is capable of. MOTOTRBO system types supported are:

- Conventional
- IP Site Connect
- Capacity Plus
- Linked Capacity Plus
- Connect Plus - Requires Connect Plus System Release 1.4A
- Capacity Max - Requires XPR5550e Control Station

Note: Below is a compatibility chart between the MIP 5000 and the MOTOTRBO Control station connected to the MOTOTRBO Gateway. These are the tested combinations between the radio and the MIP 5000, any other combinations may cause unexpected functionality.

MIP 5000 Release	XPR 4550 Firmware Version	XPR 5550 Firmware Version
R03.00.00	1.7.x	N/A
R03.00.01	1.7.x	N/A
R04.00.00	1.8.x	N/A
R04.01.00	1.9.x	N/A
R04.01.01	1.11.x	N/A
R04.02.00	1.12.x	R02.03.01

Network

It is highly recommended that customers intending to use MIP 5000 in Public Safety situations use a dedicated network for dispatching. For non public safety situations, a MIP

5000 can be placed on an existing customer network. Network must support multicast addressing and be QoS enabled. For complete network requirements, see Specification Sheet on [Converge](#).

MIP 5000 Application Software

The Channel License configurations available are: 1, 4, 8, 12, 24, or 48. Individual license per operator position is required. Site license is not available.

MIP 5000 license activation is accomplished using a Hardware USB Hasp Key at each position. Each USB Hardware Hasp Key is configured for the number of channels purchased. If the USB is removed after activation, the software will continue to function for 10 days with a visible countdown reminder to allow time for key replacement.

MOTOTRBO AppServer

The MIP 5000 AppServer provides the tools for text messaging and private/group calls on the MOTOTRBO Conversation window. In addition to a texting server, the MOTOTRBO AppServer has a presence server to populate the MOTOTRBO Contacts Window with available MOTOTRBO radio subscribers that report their status. The MOTOTRBO AppServer does not require any additional software to purchase as it comes with every MIP 5000 Software CD. It's recommended to install the MOTOTRBO AppServer on the same PC as the MIP 5000 CSDM/TFTP Server because it needs to have 24/7 availability. Like the TFTP Server, only one AppServer is required per MIP 5000 System.

In addition to installing the AppServer, a MOTOTRBO Gateway must be configured to receive MOTOTRBO data. The quantity of MOTOTRBO Gateways needed will depend on your system type.

- For IP Site Connect Systems, 1 MOTOTRBO Gateway is needed for every repeater and timeslot desired to be simultaneously monitored. For example, a 2 repeater site has 4 timeslots total so 4 MIP 5000 MOTOTRBO Gateways and XPR 4550 Control Stations are needed.

Note: Each control station must be programmed with the same MOTOTRBO ID so data can be properly routed to the AppServer.

- For Capacity Plus Systems with Data Revert, 1 MOTOTRBO Gateway is needed for every voice talk group the dispatcher wants to simultaneously monitor. Also, 1 additional MOTOTRBO Gateway configured for data only is needed for every data repeater in the system. For example, if the dispatcher wants to simultaneously monitor 5 voice talk groups and the system has 3 data revert repeaters, then 8 MIP 5000 MOTOTRBO Gateways and XPR 4550 Control Stations are needed. 5 gateways will be used for voice and 3 gateways (configured for data only) will be used for ARS and Texting.

Note: The additional MIP 5000 gateway set to data only mode will allow the subscribers to report their status without interrupting MIP 5000 dispatcher voice communications. The data only gateway will be a "hiddenEresource" from the dispatcher and will not count towards the total software license limit (1,4,8,12, 24, or 48).

- For Capacity Plus Systems without Data Revert, 1 MOTOTRBO Gateway is needed for every talk group the dispatcher wants to simultaneously monitor. For example, if the dispatcher wants to simultaneously monitor 5 talk groups, then 5 MOTOTRBO Gateways and XPR 4550 Control Stations are needed. All 5 gateways are used for both voice and data.

Note: Unlike Capacity plus systems with data revert, no additional MOTOTRBO Gateways configured for data only are required to support ARS and Texting. Also, each control station must be programmed with a different MOTOTRBO ID so data can be properly routed to the AppServer.

- The MOTOTRBO AppServer is not supported on Connect Plus or Capacity Max Systems, this is a limitation of the Radio.

Personal Computer (PC)

It is highly recommended that customers intending to use MIP 5000 in Public Safety situations purchase the TT3225 (Win 10) Motorola certified HP workstation. If not purchasing a Motorola computer, please see the Specification Sheet on [Converge](#) for Recommended Minimum Computer Specifications. R04.03.00 supports Windows 7 Pro SP1 (32 or 64 Bit), Windows 8.1 Pro (64-Bit) Windows 10 Pro (64-Bit) and Windows 10 Enterprise IoT LTSC 2015/2016 (64-Bit).

Audio Accessories

MIP 5000 Enhanced USB Jackbox provides the MIP 5000 operator position access to Public Safety grade (non USB) audio accessories.

Jackbox Limits

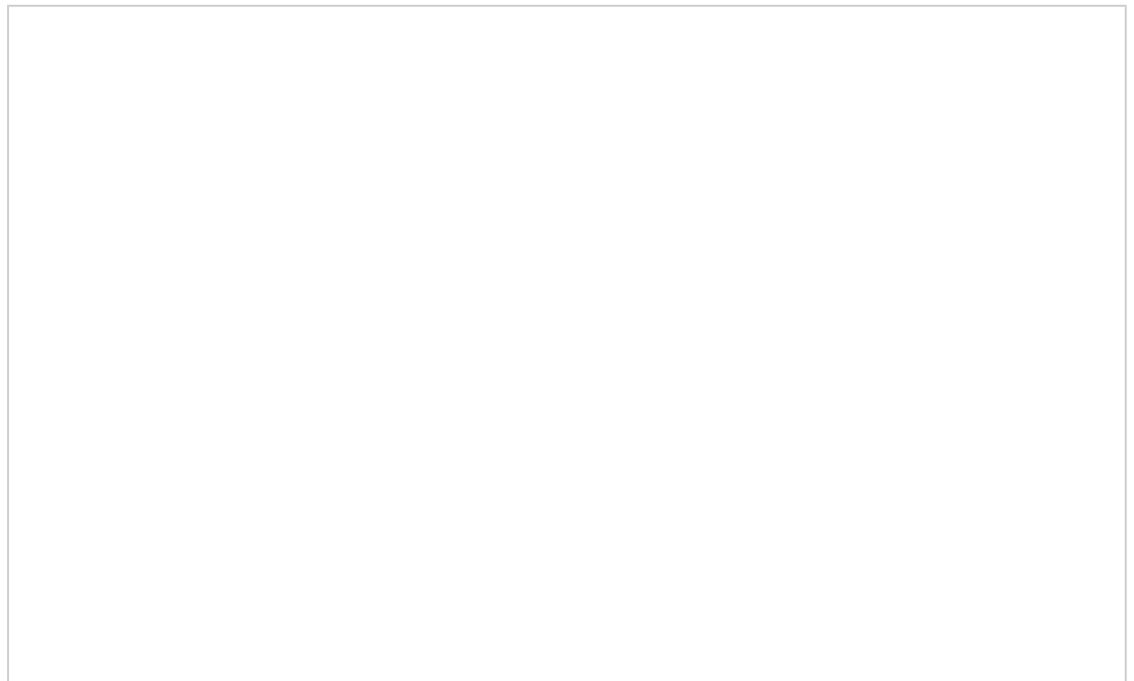
1 headset per Jackbox

1 footswitch per Jackbox

1 microphone per Operator position

2 headsets maximum per Operator position

3 Jackboxes maximum per Operator position (any combination of Basic or Enhanced) **MIP 5000 Basic USB Jackbox is no longer available.**



Basic USB Jackbox DDN9492 * MIP 5000 Basic USB Jackbox is no longer available. *****

One Basic Jackbox includes 10ft USB cable and will provide access for up to three accessories: one Plantronics two prong headset with Quick Disconnect, one B1914 Standard Desktop Gooseneck Microphone, and one BLN6732 Foot-switch. Only one Desktop Gooseneck Microphone (B1914) can be used per MIP 5000 position. Jackboxes are connected using USB. Basic Jackbox does not support telephone Call Director functionality.

Enhanced USB Jackbox TT05522AA (DDN9493)

One Enhanced USB Jackbox includes 10ft USB cable and provides all of the accessory capability of the Basic USB Jackbox plus offers an auxiliary port that supports an array of options:

a) Call Director or b) External Paging Encoder or c) Analog Recorder. d) PTT, e) MDC Emergency Alarm output.

See Jackbox Connector Chart below for PIN limitation guidance. Multiple Jackboxes may be required to support all desired options. Limit of 3 USB Jackboxes per operator position.

MIP 5000 Enhanced USB Headset Jackbox Connector Chart

PIN	Recorder	Call Director	External Pager	PTT	MDC Emergency Alarm Output
1		X	X		
2		X	X		
3		X	X		
4		X			
5	X	X			
6	X	X			
7	X	X		X	X

Example #1:

If Recorder and External Pager are needed at an operator position, one Enhanced Jackbox will support both since they do not share common pins on the auxiliary port.

Example #2:

If Call Director and External Paging are required at the operator position, two Enhanced Jackboxes are required since they use common pins #1 through #3.

Speakers:

Each MIP 5000 Dispatch Console operator position requires at least two desktop speakers; the select and unselect speakers.

Four additional monitor speakers (unselect audio) can be connected to each MIP 5000 Operator Position by a 5.1 or 7.1 soundcard. The 5.1 or 7.1 soundcard supports up to four monitor speakers on the MIP 5000 VoIP Radio Console in addition to a select speaker and unselect speaker.

Call Director:

The Call Director feature on the Enhanced USB Jackbox allows one headset to be used for both telephone and radio. The telephone must be 4 wire, 600 ohm with off-hook sense. (typical phone used with E9-1-1) The Call Director feature is supported for both the operator and supervisor headsets. The primary headset (operator) works in the full-duplex mode and the secondary headset (supervisor), works in half-duplex mode. Call Director also supports patching with a radio channel / conversation.

External Paging Encoder Input:

External Paging Encoder allows access for an External Encoder device.

Analog Recorder Port:

Analog Recorder port provides access for analog logging recording for the operator position.

PTT:

Whenever the Op position does a PTT, a relay closure occurs. For example this relay can be used to activate an ON-THE-AIR light.

MDC Emergency Alarm Output

When an inbound emergency is decoded by a local or tone gateway the MDC Emergency Alarm output relay will close at the operator position. This option can be used to activate a buzzer or light to notify the operator of an emergency condition.

Instant Recall Recorder (IRR)

The Instant Recall Recorder (IRR) software with MIP 5000 allows users to record audio digitally on the MIP 5000 Operator position. Operator TX audio, Select and Unselect RX audio, Telephone Call Director Audio or any combination may be recorded.

If PC is	Order	Includes
...TT2833 MIP 5000 Certified Win 7 PC	DDN2090	IRR Software & License, PCIe Soundcard, and PC Speakers

...TT3106 MIP 5000 Certified Win 10 PC	DDN2250	IRR Software & License, PCIe Soundcard, and PC Speakers
...TT3225 MIP 5000 Certified Win 10 PC	DDN2249 & DSICUSBAUDIO7D & CDN6673	IRR Software & License, USB Soundcard, and PC Speakers
... Customer Win 7 PC w/o Speakers	DDN2090	IRR Software & License, PCIe Soundcard, and PC Speakers
... Customer Win 10 PC w/o Speakers	DDN2250	IRR Software & License, PCIe Soundcard, and PC Speakers
... Customer Win 7 PC with Speakers	DDN2089 & DDN2134	IRR Software & License, PCIe Soundcard
... Customer Win 10 PC with Speakers	DDN2249 & DDN2134	IRR Software & License, PCIe Soundcard

Note: MIP 5000 with IRR on a laptop is not a supported configuration

Analog Logging Recorder

MIP 5000 can be used with legacy Analog Logging recorders to record audio at the radio and/or at the operator position(s).

Analog recording at the radio is accomplished by bridging the connection between the gateway and radio. When installing an analog recording device with a MIP 5000 Local Gateway a Local Junction Box (DDN6337) is recommended. When installing an analog recording device with a MIP 5000 MOTOTRBO Gateway or Digital Gateway connected to an APX mobile, a RJ45 splitter on the Gateway radio port is recommended. With an Analog Logging Recorder, Gateways and radios must be co-located with the recorder.

Analog Recording of select and/or unselect audio at the operator position is accomplished by using the auxiliary port on the Enhanced USB Jackbox (DDN9493).

Ordering Other Elements

1. Jackbox, Headsets, Microphone and Footswitch should be ordered as separate line items. The CDN6673 speakers are commercial off the shelf items and can be substituted if desired.
2. For information on Instant Recall Recorder (IRR), Computer Hardware, or Console Headset Accessories please refer to the following price pages.

[Instant Recall Recorder](#)

[Computer Hardware](#)

[Console Headset Accessories](#)

MIP 5000 and Remote Comparator Display

The MIP 5000 console can now Cohab with CTI's MCN RCD Client Server Software. This software provides real-time monitoring and control for a wide range of devices including

doors, alarms, light switches, and other general purpose Auxiliary I/O applications. In addition, the MCN RCD system supports comparator/voting displays at the MIP 5000 console operator position. The MCN RCD Client Server Software is an IP based solution and can run on the same network as the MIP 5000 consoles. The MCN RCD system consists of two parts: The MCN RCD Server Software with HIB-IP Module and the specific interface module for the application. The interface module(s) can be General Purpose I/Os, Comparator module, or a combination of the two. The paired solution between the MIP 5000 console and the MCN RCD Client Server Software can support up to 192 inputs and 128 outputs.

Features

The MIP 5000 provides a comprehensive feature set as listed below:

SIGNALING: MDC 1200 and Conventional ASTRO are supported with the following capabilities: MDC 1200 (Local and Tone Gateways)

OUTBOUND MESSAGES

- Call Alert
- PTT ID Alias
- Radio Check
- Radio Disable
- Radio Enable
- Remote Monitor
- Manual RAC
- Selective Call
- Voice Alert

INBOUND MESSAGES

- Call Alert*
- PTT ID*
- Emergency Alarm*
- Emergency Call*
- Radio Status*
- Radio Message*

*Appear in Activity Log Window

Conventional ASTRO (Digital Gateways, depending on the supported capability of the radio).

OUTBOUND MESSAGES

- Call Alert
- PTT ID
- Emergency Alarm
- Radio Status Request
- Radio Check

INBOUND MESSAGES

- Call Alert*
- PTT ID*
- Emergency Alarm*
- Emergency Call*
- Radio Status
- Radio Message

*Appear in Activity Log Window

PAGING: Both manual and pre-programmed pages are supported. Pages may be sent individually or via sequential page-list paging. Pre-programmed lists can also be created to provide pre-programmed Group Pages. Up to 128 pre-programmed pages (single or group) can be assigned to a button that can be placed on the GUI. By default, the operator position is configured with a page history window showing recent paging activity. The paging formats listed below are supported:

- 5/6 Tone
- Custom Formats
- Digital Dial 1500 Hz (Rotary Pulse)
- Digital Dial 2805 Hz (Rotary Pulse)

- Quik-Call (Motorola 2+2)
- Quik-Call II Tone and Voice (Motorola 1 + 1)
- Quik-Call II Tone Only (Motorola 1 + 1)
- Single Tone
- Touch Code (DTMF)
- Knox
- GE Type 99
- Reach

PATCHING and MULTISELECT: Each operator position can support up to 11 patches: 10 with memory and 1 without memory and 11 Multiselects: 10 with memory and 1 without memory. Patch and Multiselect can each support up to 16 members. A resource cannot be a member of more than one active patch or Multiselect. An All Points Bulletin (APB) transmit feature is also available for use with the Multiselect groups.

CHANNEL CONFIGURATIONS: MIP 5000 consoles support the following channel configurations for Local and Tone Gateways. All channels support analog operation with MDC 1200 signaling if so configured.

Type	# TX Frequencies	# RX Frequencies	NOTES
R1	0	1	Receive Only
T1R1	1	1	1 Frequency Station
T2R2	2	2	2 Frequency Station
T4R4	4	4	4 Frequency Station
T8R8	8	8	8 Frequency Station
T12R12	12	12	12 Frequency Station
T14R14	14	14	14 Frequency Station
T16R16	16	16	16 Frequency Station

In addition to the above, SB9600 control and MOTOTRBO are supported with the number of modes and features being determined by the mobile.

Manuals

Soft copies of the manuals are found on the documentation CD and available on:

Converge @ <https://converge.motorolasolutions.com/groups/mid-low-tier-voice-radio-dispatch-consoles>

Ordering Requirements

New required options for the MIP 5000 Gateways. You must select either TT05979AA for existing systems at Release 4.0 or earlier or select TT05980AA for new or existing systems at Release 4.1 or later.

The MIP 5000 gateways do not ship with punch blocks or cables for connecting to base stations or radios. These must be ordered separately or provided by the customer. See the Accessories section below for cables that can be used for connecting to various radios.

Headset Jackbox

Every MIP 5000 operator position requires an Enhanced USB Headset Jackbox. The Jackbox is needed to interface to any of Motorola Public Safety grade (non USB) audio accessories. Each position requires a minimum of 1 and can support a maximum of 3 Jackboxes. TT05522AA is the option for the Enhanced USB Headset Jackbox.

A headset(s) may be used with the MIP 5000 Console. Each headset must be connected to a MIP 5000 Enhanced USB Jackbox. A headset consist of two parts, a base and a top. A choice of two bases (RLN6098 and RLN6099) and several tops is provided. The MIP 5000 supports a maximum of two headsets per operator position (requires two Enhanced USB Jackboxes).

Upgrades

Upgrades to R04.03.00 are available at no charge. Labor for upgrade installation is not reimbursable.

To order contact System Support Center at [800-221-7144](tel:800-221-7144), option 4 on the call tree and request that a software case be opened.

Existing System Expansion

All new orders for Software and Gateways will ship with the latest release software R04.03.00

Adding Gateways: If adding gateways onto an existing R04.01.01 system or earlier, gateways will automatically downgrade during the installation process to match the software release running in the system.

Adding Operator Positions: If adding new operator positions to an existing R04.01.01 system or earlier, you will be required to upgrade the entire system (all Operator positions, CSDM and gateways) to R04.03.00. All operator positions and gateways in a MIP 5000 system must run the same version of software.

Instant Recall Recorder (IRR)

The Instant Recall Recorder (IRR) software with MIP 5000 allows users to record audio digitally on the MIP 5000 Operator position. Operator TX audio, Select and Unselect RX audio, Telephone Call Director Audio or any combination may be recorded.

Ordering instructions for APX 8500 Mobile in a tray when used with a Digital Gateway

APX 8500 Remote Mount Mid Power Model with the MIP 5000 Digital Gateway is now a certified solution.

Below is a guide, for the 12 groups of required selections, to order an APX 8500 mobile.

1. Main Model: Select *M37TSS9PW1_N APX 7500 All-Band MP Mobile*

2. Operation Mode: Select either Operation Mode option, *G241 or G806. (Choose ONE)*

3A. System Enhancement Software: Select option to match your system, *G51 or G48. (Choose ONE)*

3B. Optional System Enhancement Software: Select, if needed to match your system, *G173, G361, GA00580, or QA01648*

4. Control Head Hardware: Select *G88 - APX NO 05 CH NEEDED.*

(Note: G442 - APX O5 CONTROL HEAD can be ordered for visual use of the control head but is not required for connecting to a MIP 5000.)

5. Control Head Software: Select *G444 - CONTROL HEAD SOFTWARE*

6. Mounting: Select *G67 - REMOTE MOUNT MID POWER*

(Note: The remote mount mobile is the only configuration for use with the MIP 5000.)

7. RF Antenna: Select appropriate antenna option, *G89 or GA01513 (Choose ONE)*

Note: G89 - NO RF ANTENNA NEEDED should be ordered if G88 selected in Step 4.

8. GPS Wi-Fi Antenna: Select appropriate antenna option: *GA00226, GA00269, or GA00235 (Choose ONE)*

Note: GA00235 - NO GPS/Wi-Fi ANTENNA NEEDED should be ordered for most applications.

9. Microphone: Select appropriate microphone option, *G892, G90, W20, W22, or W382 (Choose ONE)*

Note: G90 - NO MICROPHONE NEEDED should be ordered if G88 selected in Step 4

10. Speakers: Select appropriate speaker option, *B18, G142, G831, G832, or W432 (Choose ONE)*

Note: G142 - NO SPEAKER NEEDED should be ordered if G88 selected in Step 4

11. J600 Adapter: Select *GA01517* - NO J600 Adapter Cable needed

12. Service Option: Select desired Service From Start option, *G78*, *GA00318*, *GA00249*, or *GA00255* (*Choose ONE*)

OTHER Required Items:

A- Order power supply for mobile - *KT000254A01*

Note: The power supply is not included with the mobile, this part must be ordered separately. Legacy power supplies do not supply sufficient current for the APX 8500. The APX 8500 requires the high capacity *KT000254A01* power supply

B- Order RF Adapter Cable - *CB000091A03* (QMA to Mini-UHF, Female)

Note: APX8500 RF Antenna port on the rear panel is QMA.

C- Don't forget the MIP 5000 Digital Gateway - *L3484* and APX Radio Interface Cable - *DDN1463*

Ordering Information for Aux I/Os

- Step 1: Order the MCN RCD Software with HIB-IP, *DDN1388* - this will allow up to 4 MIP 5000 operator positions (clients) to share the I/O module status. If more than 4 operator positions are required, then the MCN SW Lic Opt Client Expansion for 4 Add'l Clients, *DDN1295* is required.
- Step 2: Order 1 power supply *CDN6116* with every HIB-IP Module.
- Step 3: Order the appropriate modules for the application. A maximum of 16 modules can be supported per HIB-IP.
 - For General Purpose Aux I/Os, order *DDN1385* (GPIO). Each *DDN1385* can control 12 inputs and 8 outputs.
 - For interfacing to ASTRO-TAC Comparators, order *CDN6119* (AIB)
 - For Interfacing to SPECTRA-TAC Comparator, order *CDN6121* (CIB)
- Step 4: Order 1 power supply, *CDN6116*, for every 4 modules ordered in Step 3.
 - Example 1: If you order 2 *DDN1385* and 2 *CDN6119*, then order 1 *CDN6116*
 - Example 2: If you order 3 *DDN1385* and 2 *CDN6121*, then order 2 *CDN6116*.
- Step 5: Order the same number of network cables as the Quantity of modules ordered in Step 3. The following Network cable lengths are available:
 - CABLE ASSY NETWORK 9 INCHES, *CDN6123*
 - CABLE ASSY NETWORK 3 FT, *CDN6124*
 - CABLE ASSY NETWORK 10 FT, *CDN6125*
 - CABLE ASSY NETWORK 25 FT, *CDN6126*
 - CABLE ASSY NETWORK 100 FT, *CDN6127*

Note: If rack mounting, the 9 inch cable should be used from module to module. To connect between rack mount shelves, the 3 FT cable should be used.

- Step 6: Order 2 Network Terminators, CDN6115, for every HIB (DDN1388) ordered in Step 1.
- Step 7: Order appropriate cabling for modules:
 - For each GPIO and CIB module ordered in Step 3, order:
 - 1 PUNCH BLOCK DUAL 25 PAIR, CDN6118
 - 1 CABLE ASSY 25 PR M-NONE 25FT, CDN6135
 - And 1 of the cables below:
 - CBL ASSY 25 PR MALE-MALE 10 FT, CDN6129 OR
 - CBL ASSY 25 PR MALE-MALE 25 FT, CDN6130
- For each AIB module ordered in Step 3, order CBL ASSY AIB COMPARATOR 10 FT, CDN6131
- Order 1 CABLE KIT HIB PC AT/XT 6 FT, DDN6132 for every system
- Step 8: It's recommended to order the appropriate manual for modules ordering in Step 1 and Step 3, manuals are not included with Modules.
 - Step 1 Manuals - Both manuals are needed for DDN1388
 - HIB HARDWARE GUIDE, CDN6110
 - MCN SERVER SOFTWARE MANUAL, DDN1402
 - Step 3 Manuals
 - GPIO HARDWARE GUIDE, DDN1386
 - AIB HARDWARE GUIDE, CDN6107
 - CIB HARDWARE GUIDE, CDN6109
- Step 9 (Optional): Order the appropriate quantity of rack mount shelves for modules ordered in Step 1 and Step 3.
 - DDN1387 is available to rack mount the MCN RCD HIB MODULE. Each rack mount will support 1 DDN1388 (step 1) and two additional GPIO, AIB or CIB modules (step 3).
 - Additional rack mount shelves for the GPIO, AIB or CIB modules ordered in Step 3, can be purchased with part number CDN6112. Each CDN6112 can support up to 4 modules.

Configuration

Gateways

Description	Full Description	Nomenclature	APC	Price
MIP5000 VOIP LOCAL GATEWAY	Provides one MIP 5000 Local Gateway. Each gateway is capable of supporting one local control radio. Punch blocks and cabling for connecting to the radio are not included in the L3482AC. An Ethernet cable (not included) is also required for each L3482AC.	L3482AC	740	\$798.00

MIP5000 VOIP TONE GATEWAY	Provides one MIP 5000 Tone Gateway. Each gateway is capable of supporting one tone remote controlled base station. Punch blocks and cabling for connecting to the station are not included in the L3483AC. An Ethernet cable (not included) is also required for each L3483AC.	L3483AC	740	\$798.00
MIP5000 VOIP DIGITAL GATEWAY	Provides one MIP 5000 Digital Gateway. Each gateway is capable of supporting one SB9600-capable radio. Punch blocks and cabling for connecting to the radio are not included in the L3484AC. An Ethernet cable (not included) is also required for each L3484AC.	L3484AC	740	\$798.00
MIP 5000 VOIP MOTOTRBO GATEWAY	Provides one MIP 5000 MOTOTRBO Gateway. Each gateway is capable of supporting one XPR4550 or XPR 5550 radio. Punch blocks and cabling for connecting to the radio are not included in the L3598. You must order the DDN9867 MOTOTRBO Direct Connect Cable to connect to the XPR 4550 or XPR 5550. An Ethernet cable (not included) is also required for each L3598.	L3598AC	740	\$798.00

Options for Gateways - Must select one per gateway

Description	Full Description	Nomenclature	APC	Price
FOR SYSTEMS AT RELEASE 4.0 OR EARLIER	-	TT05979AA	740	\$0.00
FOR SYSTEMS AT RELEASE 4.1 OR NEWER	-	TT05980AA	740	\$0.00

Software

Software ships with USB Hasp Key for license activation. Hasp key is configured to match number of channels ordered. PC, microphone, speakers and headset are not included with software and must be provided separately.

Description	Full Description	Nomenclature	APC	Price
MIP5000 VOIP DISPATCH SW 1 CHANNEL	Provides the software application and license for one MIP 5000 1-channel dispatch console. Allows a dispatcher to access and control one MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateway.	L3485	740	\$1,500.00
MIP5000 VOIP DISPATCH SW 4 CHANNEL	Provides the software application and license for one MIP 5000 4-channel dispatch console. Allows a dispatcher to access and control up to four MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3486	740	\$2,500.00
MIP5000 VOIP DISPATCH SW 8 CHANNEL	Provides the software application and license for one MIP 5000 8-channel dispatch console. Allows a dispatcher to access and control up to eight MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3487	740	\$6,500.00
MIP5000 VOIP DISPATCH SW 12 CHANNEL	Provides the software application and USB Hasp Key for one MIP 5000 12-channel dispatch console. Allows a dispatcher to access and control up to 12 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3499	740	\$10,500.00
MIP5000 VOIP 24 CHANNEL SW WITH LICENSE	Provides the software application and USB Hasp Key for one MIP 5000 24-channel dispatch console. Allows a dispatcher to access and control up to 24 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3567	740	\$15,500.00

MIP5000 VOIP DISPATCH SW 48 CHANNEL	Provides the software application and USB Hasp Key for one MIP 5000 48-channel dispatch console. Allows a dispatcher to access and control up to 48 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3630	740	\$25,000.00
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Option for Software

Description	Full Description	Nomenclature	APC	Price
MIP5000 ENHANCED MODEL USB HEADSET JACKBOX	-	TT05522AA	740	\$575.00

Expansion Entitlement

Description	Full Description	Nomenclature	APC	Price
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2191	740	\$13,000.00
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2192	740	\$8,500.00
MIP5000 SW EXPANSION	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order			

ENTITLEMENT 8 TO 24 CHANNELS	(FO) number and/or the Serial number of the currently installed software to release the hold.	TT2193	740	\$9,500.00
MIP5000 SW EXPANSION ENTITLEMENT 12 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2194	740	\$5,500.00
MIP5000 SW EXPANSION ENTITLEMENT 8 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2225	740	\$4,500.00
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2745	740	\$23,000.00
MIP5000 SW EXPANSION ENTITLEMENT 8 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2746	740	\$19,000.00
MIP5000 SW EXPANSION	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order			

ENTITLEMENT 12 TO 48 CHANNELS	(FO) number and/or the Serial number of the currently installed software to release the hold.	TT2747	740	\$15,000.00
MIP5000 SW EXPANSION ENTITLEMENT 24 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2748	740	\$10,000.00

Demo

Description	Full Description	Nomenclature	APC	Price
MIP5000 4 CHANNEL DEMO SOFTWARE	<p>THE 4 CHANNEL MIP 5000 DEMO SOFTWARE IS NOT FOR RESALE. IT PROVIDES SOFTWARE TO DEALERS AT A SIGNIFICANT DISCOUNT AND IS LIMITED TO 1 PER CHANNEL PARTNER LOCATION. TO COMPLETE THE DEMO SYSTEM, ORDER THE FOLLOWING ADDITIONAL COMPONENTS: 1) UP TO 4 MIP 5000 GATEWAYS (L3482 LOCAL , L3483 TONE, L3484 DIGITAL, L3598 MOTOTRBO) 2) DDN8671 NULL MODEM CABLE FOR PROGRAMMING THE GATEWAY. 3) DDN9492 BASIC USB HEADSET JACKBOX, 4) B1914 DESKTOP GOOSENECK MICROPHONE. 5) MOBILE RADIO WITH RADIO INTERFACE CABLES TO CONNECT THE GATEWAY TO THE RADIO 6) A DESKTOP OR LAPTOP COMPUTER MEETING MIP 5000 SPECIFICATIONS 7) A SET OF PC SPEAKERS 8) SUBSCRIBER TO DEMONSTRATE RX AND TX AUDIO</p>	L3544	740	\$750.00

Workstation

NOTE: The HP Z2 Mini Workstation does not contain a built-in DVD Drive. Make sure to order at least one (1) USB External DVD Drive for each dispatch center for use to install or upgrade MIP 5000 system software.

Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSB 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
STARTECH 7 PORT USB 3.0 HUB	Includes an external power supply. May be used with HP Z2 Mini Workstation. Star Tech Part# ST7300U3M.	DSST7300U3M	708	\$93.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$47.00

Accessories

Audio

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Description	Full Description	Nomenclature	APC	Price
MIP5000 ENHANCED MODEL USB HEADSET JACKBOX	Supports 1 Plantronics two prong headset base and quick disconnect top, 1 footswitch BLN6732 and 1 gooseneck Microphone B1914, also provides port for Call Director, logging Recorder or External Pager port.	DDN9493	740	\$575.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00
FOOT, SWITCH TRADITIONAL	-	BLN6732	229	\$135.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75

MOTOTRBO (L3598) Direct Connect Radio Interface Cable

Description	Full Description	Nomenclature	APC	Price
MOTOTRBO DIRECT CONNECT CABLE	For use with the XPR 4550 or XPR 5550.	DDN9867	740	\$159.00

Digital Gateway (L3484) Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00
MCS2000 III DIRECT CONNECT CABLE	-	DDN8350	322	\$200.00

CONSOLETTA W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00

Local Gateway (L3482) Control Interface Cables

Description	Full Description	Nomenclature	APC	Price
RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	124	\$138.00

FRU Kits

Description	Full Description	Nomenclature	APC	Price
15 FT NULL MODEM CABLE DB9 F/F	One required per MIP 5000 System	DDN8671	740	\$13.00

Rackmount Kit

Description	Full Description	Nomenclature	APC	Price
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MIP5000 RACKMOUNT KIT	Holds 2 gateways	DDN8900	740	\$225.00
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Information Assurance

Description	Full Description	Nomenclature	APC	Price
MIP5000 INFORMATION ASSURANCE TRANSPARENT HARDENING KIT CD	-	TT2134	740	\$50.00
MIP5000 INFORMATION ASSURANCE FULLY HARDENED KIT CD	-	TT2135	740	\$50.00
MIP5000 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3192	740	\$50.00
MIP5000 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3193	740	\$50.00

Aux I/Os

MCN Modules

Description	Full Description	Nomenclature	APC	Price
MCN RCD SERVER SOFTWARE AND HIB-IP MODULE	-	DDN1388	229	\$7,000.00
MCN GPIO-1208C INPUT/OUTPUT MODULE	-	DDN1385	229	\$1,075.00
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00

Software Expansion

	Full			
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Description	Description	Nomenclature	APC	Price
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	-	DDN1295	229	\$2,765.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00

Network Cables and Terminators

Description	Full Description	Nomenclature	APC	Price
CABLE ASSY NETWORK 9 INCHES	-	CDN6123	229	\$21.00
CABLE ASSY NETWORK 3 FT	-	CDN6124	229	\$21.00
CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00

Parallel Input/Output Cables

Description	Full Description	Nomenclature	APC	Price
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00

Serial Cables

Description	Full Description	Nomenclature	APC	Price

CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00
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Manuals

Description	Full Description	Nomenclature	APC	Price
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00
MCN SERVER SOFTWARE MANUAL	-	DDN1402	229	\$25.00
GPIO HARDWARE GUIDE	-	DDN1386	229	\$20.00
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00

Rack Mounting

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT FOR HIB-IP	-	DDN1387	229	\$75.00
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE	443	19
PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32
PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32

PARTS	SSO	BLN6732	FOOT, SWITCH TRADITIONAL	229	32
QUOTEDS	CBT	CDN6107	AIB HARDWARE GUIDE	229	16
QUOTEDS	CBT	CDN6109	CIB HARDWARE GUIDE	229	19
QUOTEDS	CBT	CDN6110	HIB-232 HARDWARE GUIDE	229	20
QUOTEDS	CBT	CDN6112	RACK MOUNT QUAD SIZE A	229	10
QUOTEDS	CBT	CDN6115	NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	229	10
QUOTEDS	CBT	CDN6116	POWER SUPPLY MCN120 VAC	229	19
QUOTEDS	CBT	CDN6119	AIB ASTROTAC INTERFACE MODULE	229	15
QUOTEDS	CBT	CDN6121	CIB COMPARATOR INTFC MODULE	229	15
QUOTEDS	CBT	CDN6123	CABLE ASSY NETWORK 9 INCHES	229	20
QUOTEDS	CBT	CDN6124	CABLE ASSY NETWORK 3 FT	229	19
QUOTEDS	CBT	CDN6125	CABLE ASSY NETWORK 10 FT	229	7
QUOTEDS	CBT	CDN6126	CABLE ASSY NETWORK 25 FT	229	19
QUOTEDS	CBT	CDN6127	CABLE ASSY NETWORK 100 FT	229	20
QUOTEDS	CBT	CDN6129	CBL ASSY 25 PR MALE-MALE 10 FT	229	30
QUOTEDS	CBT	CDN6130	CBL ASSY 25 PR MALE-MALE 25 FT	229	10
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	CBT	DDN1295	MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	229	8

QUOTEDS	CBT	DDN1385	MCN GPIO-1208C INPUT/OUTPUT MODULE	229	13
QUOTEDS	CBT	DDN1386	GPIO HARDWARE GUIDE	229	13
QUOTEDS	CBT	DDN1387	RACK MOUNT FOR HIB-IP	229	13
QUOTEDS	CBT	DDN1388	MCN RCD SERVER SOFTWARE AND HIB-IP MODULE	229	17
QUOTEDS	CBT	DDN1402	MCN SERVER SOFTWARE MANUAL	229	13
QUOTEDS	CIP	DDN1463	APX 7500 MOBILE DIRECT CONNECT CABLE	740	15
QUOTEDS	CSD	DDN6338	RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	124	15
QUOTEDS	CSD	DDN6338	RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	124	15
QUOTEDS	CSD	DDN6340	GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	124	15
QUOTEDS	CSD	DDN6340	GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	124	15
QUOTEDS	CSD	DDN6699	RADIO INTERFACE CABLE FOR THE MCS2000	124	15
QUOTEDS	CTD	DDN8350	MCS2000 III DIRECT CONNECT CABLE	322	15
QUOTEDS	CTD	DDN8351	CONSOLETTTE W9 DIRECT CONNECT CABLE	322	15
QUOTEDS	CTD	DDN8352	CDM1550 SERIES DIRECT CONNECT CABLE	322	15
QUOTEDS	PCA	DDN8671	15 FT NULL MODEM CABLE DB9 F/F	740	5
QUOTEDS	PCA	DDN8671	15 FT NULL MODEM CABLE DB9 F/F	740	5

QUOTEDS	CIP	DDN8900	MIP5000 RACKMOUNT KIT	740	15
QUOTEDS	CIP	DDN9493	MIP5000 ENHANCED MODEL USB HEADSET JACKBOX	740	15
QUOTEDS	CIP	DDN9867	MOTOTRBO DIRECT CONNECT CABLE	740	15
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSICUSBAUDIO7D	STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	708	5
QUOTEDS	PCW	DSST7300U3M	STARTECH 7 PORT USB 3.0 HUB	708	10
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
QUOTEDS	CIP	L3482AC	MIP5000 VOIP LOCAL GATEWAY	740	15
QUOTEDS	CIP	L3483AC	MIP5000 VOIP TONE GATEWAY	740	15
QUOTEDS	CIP	L3484AC	MIP5000 VOIP DIGITAL GATEWAY	740	15
QUOTEDS	CIP	L3485	MIP5000 VOIP DISPATCH SW 1 CHANNEL	740	15
QUOTEDS	CIP	L3486	MIP5000 VOIP DISPATCH SW 4 CHANNEL	740	15
QUOTEDS	CIP	L3487	MIP5000 VOIP DISPATCH SW 8 CHANNEL	740	15
QUOTEDS	CIP	L3499	MIP5000 VOIP DISPATCH SW 12 CHANNEL	740	15
QUOTEDS	CIP	L3544	MIP5000 4 CHANNEL DEMO SOFTWARE	740	15
QUOTEDS	CIP	L3567	MIP5000 VOIP 24 CHANNEL SW WITH LICENSE	740	15
QUOTEDS	CIP	L3598AC	MIP 5000 VOIP MOTOTRBO	740	15

			GATEWAY		
QUOTEDS	CIP	L3630	MIP5000 VOIP DISPATCH SW 48 CHANNEL	740	15
QUOTEDS	CIP	TT2134	MIP5000 INFORMATION ASSURANCE TRANSPARENT HARDENING KIT CD	740	15
QUOTEDS	CIP	TT2135	MIP5000 INFORMATION ASSURANCE FULLY HARDENED KIT CD	740	15
QUOTEDS	CIP	TT2191	MIP5000 SW EXPANSION ENTITLEMENT 4 TO 24 CHANNELS	740	15
QUOTEDS	CIP	TT2192	MIP5000 SW EXPANSION ENTITLEMENT 4 TO 12 CHANNELS	740	15
QUOTEDS	CIP	TT2193	MIP5000 SW EXPANSION ENTITLEMENT 8 TO 24 CHANNELS	740	15
QUOTEDS	CIP	TT2194	MIP5000 SW EXPANSION ENTITLEMENT 12 TO 24 CHANNELS	740	15
QUOTEDS	CIP	TT2225	MIP5000 SW EXPANSION ENTITLEMENT 8 TO 12 CHANNELS	740	15
QUOTEDS	CIP	TT2745	MIP5000 SW EXPANSION ENTITLEMENT 4 TO 48 CHANNELS	740	15
QUOTEDS	CIP	TT2746	MIP5000 SW EXPANSION ENTITLEMENT 8 TO 48 CHANNELS	740	15
QUOTEDS	CIP	TT2747	MIP5000 SW EXPANSION ENTITLEMENT 12 TO 48 CHANNELS	740	15
QUOTEDS	CIP	TT2748	MIP5000 SW EXPANSION ENTITLEMENT 24 TO 48 CHANNELS	740	15
QUOTEDS	CIP	TT3192	MIP5000 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	740	15
			MIP5000 WIN 10 INFORMATION		

QUOTEDS	CIP	TT3193	ASSURANCE FULL HARDENING KIT CD	740	15
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MKM 7000 Console Alias Manager

Ordering Information

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the **Standard Support** period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the **Extended Support** period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the **End of Support** period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

MKM 7000 Console Alias Manager Product Planner and Ordering Guide

The MKM 7000 Console Alias Manager Product Planner and Ordering Guide is available on

the [High Tier Dispatch Console wiki page](#).

Software Development Kit

The MKM 7000 Software Development Kit (SDK) is required when a customer wishes to use the MKM 7000 Console Alias Manager API to allow 3rd party software to communicate with the MKM 7000 Console Alias Manager.

Please see the [High Tier Dispatch Console wiki page](#) for more information about the SDK and SDK technical support.

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.
3. Please note that the latest available release of software and hardware will be provided when ordering through the system. If earlier release versions are required then a case must be opened with the System Support Center (SSC) to obtain the desired version from Upgrade Operations (UO).

Don't Forget These Items

1. PC, Monitor, Speakers, Microphone, and other accessories.

Links to Other Elements of the Console Sub-System

1. [MCC 7500 Dispatch Console Product Catalog](#)
2. [MCC Series PC, Monitor, and accessories](#) (also available in pulldown tab above)
3. [Manuals](#)
4. Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features.
5. Also see the pulldown box at the top of this page for other elements.

Configuration

Step 1: Order MKM 7000 Console Alias Manager SW Application

Software DVD

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Description	Full Description	Nomenclature	APC	Price
MKM 7000 Console Alias Manager Software	Provides one copy of the MKM 7000 Console Alias Manager server software. Each CAM server requires its own copy of the software.	BVN1013	443	\$250.00

Step 2: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired

Please see [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SCB	BVN1013	MKM 7000 Console Alias Manager Software	443	19
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
CNTRLR	SCG	QLN3437	FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	443	20
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15
QUOTEDS	PCW	TT3308	ZBOOK 15 G4 256GB 8GB NON RETURNABL	708	7

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MLC 8000 Comparator

Ordering Information

Features

- **Software defined for base station gateway or analog comparator operation.** Provides maximum design flexibility for voting up to 64 subsites. Reduces service complexity.
- **Protects customer's investment in analog QUANTAR and ASTRO-TAC Receiver.** Provides a Mixed Mode and Digital P25 migration path to ASTRO 25 for analog QUANTAR and ASTRO-TAC Receiver, with support for up to four 'Hybrid' (4-wire V.24) links. (Digital P25 voting is provided by GCM 8000. MLC 8000 performs the analog voting and base station/receiver gateway functionality as a companion device to the GCM 8000).
- **Enables smooth migration to IP transport technology.** Can be co-located at the site with analog QUANTAR and ASTRO-TAC Receiver equipment, or co-located with the comparator at the prime site to support circuit transport links. Converts 4-wire audio to G.711 for optimal audio quality with minimal latency, and full support for MDC1200 signalling.

General Information

MLC 8000 Dimensions:

Length: 9.75" (247.083mm)

Width: 8.6" (218.353mm)

Height: 1.63" (41.2mm)

The MLC 8000 analog comparator:

- Provides a 4-wire TRC connection to an analog console
- Supports non-simulcast voting and simulcast system configurations
- 64 subsite capacity

The MLC 8000 gateway:

- Provides receiver status tone and base station TRC signalling on each of its four analog interfaces (non-simulcast voting configurations)
- Provides one analog simulcast base station interface, one receiver interface when receiver is part of a simulcast coverage solution
- Certified to be fully compatible with GTR 8000 and several other Motorola base station and receiver products, including:
QUANTAR
ASTRO-TAC Receiver

SIMULCAST AND NON-SIMULCAST VOTING CONFIGURATIONS:

ANALOG VOTING: In a voting (non-simulcast) configuration, one MLC 8000 comparator is required for each channel at the prime site, providing a 4-wire connection to a TRC console. Up to four co-located transmitting base stations can connect with a co-located MLC 8000 analog voting gateway for voting or multicast transmit operation. Up to four co-located receivers can connect to a MLC 8000 analog voting gateway.

MIXED MODE VOTING (P25 DIGITAL/ANALOG): In a voting (non-simulcast) configuration, one MLC 8000 comparator and one GCM 8000 comparator are companion devices providing a single mixed mode channel at the prime site. The mixed mode companion comparator provides a 4-wire analog audio connection and an IP digital audio connection to a GGM 8000 ASTRO 25 site gateway. Up to four co-located mixed mode transmitting base stations can connect with a co-located MLC 8000 mixed mode voting gateway for voting or multicast transmit operation. Up to four co-located mixed mode receivers can connect to a MLC 8000 mixed mode voting gateway.

P25 DIGITAL-ONLY VOTING, P25 DIGITAL-ONLY SIMULCAST: In a voting or simulcast configuration with V.24 circuit connectivity to the transmit/receive subsites, one MLC 8000 digital-only V.24 gateway can connect up to four co-located transmitting base stations or receivers to a GCM 8000 comparator.

(PRELIMINARY) NETWORK REQUIREMENTS FOR CUSTOMER NETWORK PERFORMANCE

The **Prime Site** is defined as the location which houses the MLC 8000 comparators. A **Subsite** is defined as any location which houses the MLC 8000 gateways that are connected to the base stations and receivers.

A **talk path** is defined as a single audio stream. For example, the inbound audio stream from a receiver to a comparator comprises one talk path. The outbound audio stream from a comparator to a base station comprises one talk path. A full duplex 'repeater' audio stream

(from receiver to comparator to base station) is two talk paths.

To ensure optimal analog-only and mixed mode audio performance (to approximate, as closely as possible, circuit system performance) the following requirements must be met:

IP network performance requirements for Prime Site to Subsite links:

- 90kbps bandwidth required per talk path
- 30msec or less network throughput delay
- 5msec or less jitter
- %.1 or less packet loss
- 10msec differential delay between any two subsite/primesite links (required for continuous voting, optional for vote-and-hold operation)

Network equipment loading requirements:

The MLC 8000 utilizes G.711 vocoding with 20msec audio samples - each talk path generates 50 packets per second.

- Router equipment at the Prime Site and at each Subsite must provide for the following packet loading capacity: 50 packets per second, multiplied by the number of talk paths (inbound and outbound). *As a general rule, the sum of packet loading at each of the Subsite routers will be approximately equal to the loading requirement on the router at the Prime Site.*
- Switch equipment must provide 100Mbps connectivity on all ports.
- *Remember to budget for additional packet loading capacity due to traffic associated with non-audio operations (file transfer, SNMP, NTP packet activity).*

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
MLC 8000	F2979 includes: - MLC 8000 module - QMA to BNC adapter - for connecting 5MHz/1PPS in analog simulcast configurations - Analog Simulcast adapter cable - Ground cable	F2979	112	\$1,000.00

Options

MLC 8000 Software

Order software according to one of the following conventional voting channel applications:

Analog Simulcast

Description	Full Description	Nomenclature	APC	Price
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<p>ADD: ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY</p>	<p>VA00783AA provides software that can be configured for one of two operational modes (but not both): analog simulcast comparator or base radio gateway. The MLC 8000 analog simulcast comparator provides one TRC 4-wire connection to a circuit analog console, and IP connectivity for up to 64 transmit/receiver resources connected to MLC 8000 gateways. The MLC 8000 base radio gateway will connect to one transmit simulcast base station. Only one simulcast base station can be connected to the MLC 8000.</p>	<p>VA00783AA</p>	<p>112</p>	<p>\$1,000.00</p>
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Analog Voting

Description	Full Description	Nomenclature	APC	Price
<p>ANALOG CONVENTIONAL VOTING COMPARATOR/GATEWAY</p>	<p>For receive-only sites in analog simulcast, the VA00784AA option provides software to operate as a receiver gateway. The MLC 8000 receiver gateway will support up to four analog receivers.</p>	<p>VA00784AA</p>	<p>112</p>	<p>\$500.00</p>

Mixed Mode (digital P25 and analog) Voting

Description	Full Description	Nomenclature	APC	Price
	<p>VA00785AA provides software that can be configured for one of</p>			

<p>ADD: MIXED MODE GCM 8000 COMPANION VOTING COMPARATOR/GATEWAY</p>	<p>two operational modes (but not both): analog companion comparator or mixed mode base radio/receiver gateway. The MLC 8000 analog companion comparator provides one TRC 4-wire connection to a co-located GCM 8000 CCGW, and IP connectivity for up to 64 transmit base radio or receiver resources connected to MLC 8000 gateways. The MLC 8000 comparator shares the MLC 8000 gateway resources with a GCM 8000 digital P25 comparator. One MLC 8000 base radio/receiver gateway provides 4wire/V.24 hybrid connections to four mixed mode transmit base radios or receivers.</p>	<p>VA00785AA</p>	<p>112</p>	<p>\$0.00</p>
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P25 Digital-Only Voting, P25 Digital-Only Simulcast

Description	Full Description	Nomenclature	APC	Price
<p>ADD: GCM 8000 SIMULCAST VOTING V.24 BASE RADIO AND RECEIVER GATEWAY</p>	<p>VA00786AA provides gateway software to translate the IP GCM 8000 traffic to the V.24 circuit protocol for interfacing to V.24 base radios and receivers. Used in conjunction with the GCM 8000 comparator, one MLC 8000 base</p>	<p>VA00786AA</p>	<p>112</p>	<p>\$0.00</p>

	radio/receiver gateway provides V.24 connections to four mixed mode transmit base radios or receivers.			
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External Power Supply (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: 120/240VAC TO +12VDC POWER ADAPTER	Order one power supply per MLC 8000 main model.	VA00012AA	112	\$50.00

Mounting Hardware (Required)

Description	Full Description	Nomenclature	APC	Price
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	Determine the number of co-located MLC 8000 devices and order accordingly. Screws and adapters for switching from rack mount to cabinet mount are included. (Allow for 2 RU of space per rack mount kit. See Product Planning Guide for details)	VA00011AA	112	\$50.00

FRUs

Description	Full Description	Nomenclature	APC	Price
FRU KIT, MLC8000	-	FLN0001	454	\$1,000.00
MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	-	FTN7490	202	\$200.00
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000	FHN7469	202	\$100.00

POWER CORD	RGU (F7979) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7979.			
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDDATA	SCB	F2979	MLC 8000	112	6
SYSPERIPH	SCB	FHN7469	MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	202	5
SYSPERIPH	SCB	FLN0001	FRU KIT, MLC8000	454	12
SYSPERIPH	SCB	FTN7490	MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	202	8

JUMP TO ...

[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



MOBILITY MANAGEMENT ENTITY (MME)

Ordering Information

Features

- Session and Mobility Management of PDN connections.
- Authentication and security procedures, based on encryption and integrity algorithms EEA0, EEEA1/EIA1.
- Automatic Neighbor Relations (ANR) to enable automatic configuration of neighbor relations lists in the eNBs.
- Support of intra-eNB and inter-eNB location change reporting.
- Support of network-initiated dedicated bearer creation.
- PDN and Serving Gateway Selection
- Operation and maintenance support, including configuration management, fault management, performance management, security management, software management, and 3GPP-based UE trace.
- MME pool for LTE access and for network resilience.

General Information

The MME is the key control node for the LTE network. It is responsible for the control plane function for subscribers and session management. The MME also supports security procedures, terminal-to-network session handling, and terminal location management.

Given its high capacity, scalability (100 kSAU to 10 MSAU), small footprint and low power consumption, the MME enables service providers to optimize operations and manage

increasing traffic volume from mobile broadband. As 3GPP standards evolve, the MME, corresponding RAN and core network elements, continue to incorporate new features which help reduce CAPEX and OPEX.

Configuration

New System Order Guidelines

A new MME system can be ordered as a package/bundle of both SW and HW. The MME is licensed based upon the number of Simultaneous Attached Users (SAUs). Please choose from one of the following options when ordering a new MME system:

Description	Full Description	Nomenclature	APC	Price
MME 5K SAU BUNDLE	-	TT2705	053	\$298,400.00
MME 10K SAU BUNDLE	-	TT2706	053	\$390,570.00
MME 25K SAU BUNDLE	-	TT2707	053	\$632,480.00
MME 50K SAU BUNDLE	-	TT2708	053	\$700,390.00
MME 100K SAU BUNDLE	-	TT2709	053	\$823,850.00
MME 250K SAU BUNDLE	-	TT2695	053	\$1,160,060.00
MME 500K SAU BUNDLE	-	TT2696	053	\$1,732,710.00
GSN SUPPORT SYSTEM (GSS)	-	TT2766	053	\$49,500.00

Existing System Capacity Expansion Guidelines

When ordering an MME user license capacity expansion for an existing system, please choose from one of the following options:

Description	Full Description	Nomenclature	APC	Price
MME FROM 5K TO 10K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05866AA	053	\$101,400.00
MME FROM 10K TO 25K IP SAU CAPACITY	-	TT05867AA	053	\$266,100.00

SOFTWARE LICENSE				
MME FROM 25K TO 50K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05868AA	053	\$80,810.00
MME FROM 50K TO 100K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05869AA	053	\$135,810.00
MME FROM 100K TO 150K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05870AA	053	\$135,810.00
MME FROM 150K TO 250K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05871AA	053	\$234,040.00
MME FROM 250K TO 350K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05872AA	053	\$311,520.00
MME FROM 350K TO 500K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05873AA	053	\$313,480.00
MME FROM 500K TO 750K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05874AA	053	\$520,220.00

Spares

The recommended MME spare parts package for an MkVIII system includes one of each of the following:

The recommended MME spare parts package for an MkVI system includes one of each of the following:

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	TT2695	MME 250K SAU BUNDLE	053	60
QUOTEDS	ERS	TT2696	MME 500K SAU BUNDLE	053	60

QUOTEDS	ERS	TT2705	MME 5K SAU BUNDLE	053	60
QUOTEDS	ERS	TT2706	MME 10K SAU BUNDLE	053	60
QUOTEDS	ERS	TT2707	MME 25K SAU BUNDLE	053	60
QUOTEDS	ERS	TT2708	MME 50K SAU BUNDLE	053	60
QUOTEDS	ERS	TT2709	MME 100K SAU BUNDLE	053	60

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JUMP TO ...

[MODEL](#)

[CONFIGURATION](#)

Model



Motorola Solutions Mobile VPN



Configuration

[ORDERING GUIDE LINK](#)

Hardware

Description	Full Description	Nomenclature	APC	Price
NON REDUNDANT MVPN SERVER	-	SQM01SUM0270	212	\$27,000.00
REDUNDANT MVPN SERVER	-	SQM01SUM0272	212	\$54,000.00

Active User Server Capacity

Description	Full Description	Nomenclature	APC	Price

ADD: ACTIVE USER MVPN SERVER CAPACITY	-	CA02573AA	212	\$2,500.00
FIELDDED MVPN USER CAPACITY SW ADD-ON	-	T8084	212	\$2,500.00

Client Licenses

For connecting below clients to MSI MVPN Server:

- MSI MVPN Android client, which is pre-loaded on MSI Android devices.
- MSI MVPN Linux client, which is pre-loaded on MSI Android devices
- Windows client on laptop/MDTs

Description	Full Description	Nomenclature	APC	Price
MVPN CLIENT LICENSE MSI DEVICES & WINDOWS LAPTOP	-	T8079	212	\$0.00

For connecting below clients to MSI MVPN Server:

MSI MVPN Android client on BYOD Android devices.

Description	Full Description	Nomenclature	APC	Price
MVPN CLIENT LICENSE BYOD ANDROID DEVICES	-	T8179	212	\$0.00

VPN USER LICENSE BUNDLE

Description	Full Description	Nomenclature	APC	Price
Add: VPN 1 CLIENT LICENSE	-	UA00129AA	212	\$45.00
Add: VPN CLIENT LICENSE Bundle of 10	-	UA00116AA	212	\$400.00
Add: VPN CLIENT LICENSE Bundle of 100	-	UA00117AA	212	\$3,700.00
Add: VPN CLIENT LICENSE Bundle of 250	-	UA00118AA	212	\$8,500.00

Add: VPN CLIENT LICENSE Bundle of 500	-	UA00119AA	212	\$15,500.00
Add: VPN CLIENT LICENSE Bundle of 1,000	-	UA00120AA	212	\$27,000.00
Add: VPN CLIENT LICENSE Bundle of 2,000	-	UA00121AA	212	\$48,000.00
Add: VPN CLIENT LICENSE Bundle of 5,000	-	UA00122AA	063	\$100,000.00
Add: VPN CLIENT LICENSE Bundle of 7,500	-	UA00123AA	212	\$120,000.00
Add: VPN CLIENT LICENSE Bundle of 10,000	-	UA00124AA	212	\$130,000.00

MOBILITY ADD-ON USER LICENSE BUNDLE

Description	Full Description	Nomenclature	APC	Price
Add: Mobility ADD-ON 1 CLIENT LICENSE	-	UA00174AA	212	\$125.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10	-	UA00175AA	212	\$1,200.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 100	-	UA00176AA	212	\$11,400.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 250	-	UA00177AA	212	\$27,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 500	-	UA00178AA	212	\$51,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 1,000	-	UA00179AA	212	\$96,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 2,000	-	UA00180AA	212	\$180,000.00

Add: Mobility ADD-ON CLIENT LICENSE Bundle of 5,000	-	UA00181AA	063	\$410,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 7,500	-	UA00182AA	212	\$555,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10,000	-	UA00183AA	212	\$660,000.00

Accessories

Description	Full Description	Nomenclature	APC	Price
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	055	\$9,470.00
48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	055	\$11,460.00
48 PORT SWITCH BUNDLE - DC PO	-	TT2847	055	\$9,360.00

FRUs/FREs for Hardware

Description	Full Description	Nomenclature	APC	Price
VPN HARDWARE FRE SERVICE ONLY	-	DLN6943	212	\$17,200.00
1.2 TB HARD DRIVE	-	DLN6942	454	\$1,750.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[SHIP CARD](#)

Model



**MOBILE WORKSTATION 520
PENTIUM III 700MHz.**

Ordering Information

General Information

The Mobile Workstation 520 is a 3-piece rugged mobile computer designed specifically for real-time computer access and messaging in a mobile environment. It features an Intel Pentium III 500MHz. Microprocessor operating on one of several Windows Operating System. It offers a choice of sunlight readable 10.4" touch screen display modules with an optional anti-reflective coating. It can be provided with an illuminated top-lit/backlit keyboard with integrated pointing device. The CPU module includes one each of the following external ports: USB, RS232 (either COM1 or DB9M), parallel (DB25F), VGA output (DB15F), IDB, Video input (coax), Audio in/out (MIC & Speaker), Radio Modem Antenna (mini UHF), GPS antenna and power. It also interfaces to the supplied display module and keyboard. There are two internal serial ports available for internal radio options and/or internal GPS receiver support.

[AirMobile](#) is a software application for customers who need a way to handle regularly occurring file transfers or application updates while preserving the use of their wide-area data channel for mission-critical and real-time applications.

[MW520-700MHz Catalog Sheet](#)

Ordering Requirements

(Please note that this Price Page is structured differently from the previous price

pages for this product.)

1. The hard drive is included in the main model. **NOTE:** As of July 1, 2002, all booked orders for the main model F5205 will contain a 20GB Hard Disk.
2. The memory and the operating system has to be selected with the main model.
3. The radio, display module, GPS receiver, keyboard, or cables can be selected as an option with the main model.
4. One of the following internal radio modems can be selected with the main model:

Private DataTAC™

The factory installed over-the-air protocol for an internal Private DataTAC™ radio is RD-LAP 19.2. Other RF protocols (MDC-4800™, RD-LAP 9.6) needs to be configured in the field. When selecting an internal Private DataTAC™ radio, the factory will assign a unique ID Numbers for new private systems from an existing block of number (LLI & SID).

NOTE: The MW520-VRM 650 package offers a better-performing, high power package than the PA-MW520 combinations. The VRM-MW520 combination provides greater interference protection and is provided with a significant price break. The option includes a 10' DB-9 M-F cable. The VRM comes with RD-LAP 19.2 programming (no need to order Air Protocol option). All components of the option are shipped in the MW520 original packaging. Antenna is not included.

[Vehicular Radio Modem Catalog Sheet](#)

CDPD

The assigned EID (Electronic Identification) number, which is labeled on the back of the CPU box, shall be used to register the unit with the network provider.

IDEN® Packet Data

The assigned IMEI (International Mobile Equipment Identification) number, which is labeled on the back of the CPU box, shall be used to register the unit with the network provider.

5. The warranty on the Mobile Workstation 520 is 1 year parts and 1 year labor.
6. Select a processor, either 500 or 700MHz.
7. The V147 external speaker option is REQUIRED for any text-to-voice software operations.

VIRTUAL RADIO CONTROL HEAD (VRCH) General Information

Virtual Radio Control Head

Virtual Radio Control Head (vRCH) is a Windows-based software application developed specifically for an MW-520. vRCH is a factory loaded application with touch-screen display capability. The vRCH displays an interactive image of a voice radio control head allowing the user to operate most voice radio control head buttons via the MW-520 display. An MW-520 with a USB Port, but needing more serial ports, can support up to four radio connections using the USB to RS-232 Converter accessory (Comm 5 through 8). MW-520's shipped from the factory after October 4, 2001, will include the vRCH.

(vRCH is included on models with serial numbers including or later than: 736SBUXXX;

where B=2001 and U=start of October; any subsequent letters in the "B & U" positions signify a later release.)

Compatible models shipped prior to October 4, 2001, can access a downloadable version of the vRCH software from the [Mobile Workstation 520 Website](#).

The appropriate Cabling Interface Kit must be ordered from Motorola AAD:

MW-520 to Voice Radio Cable Interface Kits

FLN2869 MCS 2000 Mobile Radio Cable Interface Kit

FLN2871 Spectra (Analog or ASTRO Digital) Mobile Radio Cable Interface Kit
(Supports Control Heads Types: Analog Spectra A4, A5, A7, & A9 plus ASTRO Digital Spectra W5 & W7)

MW-520 Serial Port Extension Kit

FLN2955 Converter, USB to 4 RS232 (Converts MW-520 USB Port to 4 RS-232 Ports)

Manuals are available electronically at the [Mobile Workstation 520 Website](#)

vRCH User's Guide

vRCH Administrator's Guide

vRCH Software is intended for touch-screen MW-520s on the following platforms:

F5200C Win98 and WinNT

F5201C Win98 and WinNT

F5203* Win98, WinNT, and Win2000 (Model will need the USB to 4 RS232 Converter Cable)

F5205* Win98 and Win2000 (Model will need the USB to 4 RS232 Converter Cable)

NOTE: User's with MW-520 models above that did not come from the factory with vRCH all ready installed can download the installable version of vRCH Software from the [Mobile Workstation 520 Website](#)

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Monitoring and Control Network
Used for Comparator
Status and Control

Ordering Information

General Information

The Monitoring and Control Network (MCN) links a control center to a comparator. This provides an easy to use interface to view the status of a voting system and allows for control of comparators. The network uses a series of serial, parallel, and network cables to link comparator with display devices.

- The network is modular and can grow as the system grows.
- There are two types of user interfaces available:
 - CRT based - Uses a DOS computer to display the status and control of receivers on a CRT screen
 - Logic based - Connects an ASTRO-TAC Comparator with relay cards in a console electronics bank
- On the CENTRACOM one or more B1426 relay cards are required to interface into the MCN system.
- Each model comes with serial cables, network terminators, modules, and manuals.
- The CRT models include application software and users manual.
- **Note: The computer and monitor must be ordered separately.**

Ordering Requirements

For interfacing with ASTRO-TAC Comparators...

1. Order appropriate model as determined by how many receivers and base stations that are connected to the comparator (8 or 16 Receivers maximum).
2. Order a power supply option: Z491 120VAC for Canada or US, or Z492 230VAC for International.
 - **Note: A power supply option must be ordered for each model number.**
3. Order a mounting option: Z493 Rack Mount or Z494 Wall Mount.
 - **Note: A mounting option must be ordered for each model number and include network cables.**
4. On ASTRO-TAC Systems order the appropriate software option. Z255 for ASTRO VSELP or Z708 for ASTRO CAI (IMBE).
 - **Note: A software option must be ordered for each L1953, L1954 or L1959 model numbers.**

5. Order the appropriate spares or alternate cable lengths.

For interfacing with Spectra-TAC/DIGITAC Comparators...

1. Order appropriate model as determined by how many receivers and base stations that are connected to the comparator (8 or 16 Receivers maximum).
2. Order a power supply option: Z491 120VAC for Canada or US, or Z492 230VAC for International.
 - **Note: A power supply option must be ordered for each model number.**
3. Order a mounting option: Z493 Rack Mount or Z494 Wall Mount or Z496 Wiring Mount (DIGITAC-TAC only). The Z496 can mount the equipment easily on the back of the DIGITAC-TAC comparator.
 - **Note: A mounting option must be ordered for each model number and include network cables.**
4. Order a wiring option: Z550 or Z495. If the Z496 is ordered, don't order a wiring option.
5. Order the appropriate spares or alternate cable lengths.

For interfacing with MLC 8000 and GCM 8000 IP Comparators...

1. Order appropriate DDN model based on how many servers/clients are required

References

CIB Comparator Interface Module Catalog Sheet	R3-13-49
HIB Host Computer Interface Catalog Sheet	R3-13-50
IIB In/Output Interface Module Catalog Sheet	R3-13-51
Monitor & Control Catalog Sheet	R3-13-52
MCN System Planner	R4-13-11

Configuration

Model

ASTRO-TAC/DIGITAC-TAC/Spectra-TAC Comparator Interface

Description	Full Description	Nomenclature	APC	Price

DIGITAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a DigiTAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1955	229	\$3,674.00
ASTRO-TAC AIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect an 8 port ASTRO-TAC to a console using 1 DOS based CRT display.	L1959	229	\$4,394.00
ACIS IIB UP TO 16 RECEIVERS	Order the above to connect a 16 port ASTRO-TAC to a console using contact closures. Four B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1954	229	\$3,236.00
ACIS IIB UP TO 8 RECEIVERS	Order the above to connect an 8 port ASTRO-TAC to a console using contact closures. Two B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1953	229	\$2,404.00
SPECTRA-TAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a Spectra-TAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1957	229	\$3,674.00

MCN Server 8000 & Client Software For MLC 8000 and GCM 8000 IP Comparators
(IP-based solution, certified for use with ASTRO 25 7.x Networks)

Description	Full Description	Nomenclature	APC	Price
MCN SW LIC OPTION MULTI-NI-4. ADDS SUPPORT FOR (4) HIB-IPS	-	DDN1294	229	\$2,100.00
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	-	DDN1295	229	\$2,765.00

MCN SERVER 8000 MANUAL	-	DDN1290	454	\$28.00
HIB-IP 8002 UNIT - NETWORK INTERFACE FOR MCN SERVER	-	DDN2123	229	\$3,066.00
MCN SERVER 8000 & CLIENT SOFTWARE MAJOR LEVEL 1 UPGRADE	-	DDN1292	229	\$3,332.00
MCN SERVER 8000 SW LIC FOR 4 MOTOROLA IP COMPARATORS & 4 CLIENTS	-	DDN1289	229	\$9,556.00
MCN SERVER 8000 SW LIC OPT FOR 1 ADD'L MOTOROLA GCM 8000 OR MLC 8000	-	DDN1287	229	\$910.00
MCN SERVER 8000 SW LIC OPT FOR 4 ADD'L MOTOROLA GCM 8000 OR MLC 8000	-	DDN1288	229	\$2,100.00

[MCN 8000 Ordering Guide](#)

[MCN 8000 Brochure](#)

Options

ASTRO-TAC Comparator

Description	Full Description	Nomenclature	APC	Price
ADD: POWER SPLY 120VAC US/CAN	-	Z491	229	\$69.00
ADD: POWER SUPPLY 230VAC EUROP	-	Z492	229	\$228.00
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00
ADD: ASTRO IMBE LICENSE	This will provide an ASTRO IMBE Software License agreement.	Z708	229	\$400.00
ADD: MOUNT, RACK ACIS IIB 8 RX	Compatible with the L1954 only.	Z493	229	\$245.00
ADD: MOUNT, RACK ACIS IIB 16RX	Compatible with the L1954 only.	Z493	229	\$320.00

DIGITAC/Spectra-TAC Comparator

Description	Full Description	Nomenclature	APC	Price
ADD: POWER SPLY 120VAC US/CAN	-	Z491	229	\$69.00
ADD: POWER SUPPLY 230VAC EUROP	-	Z492	229	\$228.00
ADD: PUNCHBLOCK WIRING 8 RX	-	Z550	229	\$146.00
ADD: WIRING-MOUNTING DIGITAC 8	-	Z496	229	\$239.00
ADD: WIRING BLUNT CABLE 8 RX	-	Z495	229	\$36.00
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00

Accessories

MCN Spare Modules

Description	Full Description	Nomenclature	APC	Price
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00
IIB I/O INTERFACE MODULE	-	CDN6120	229	\$962.00
MCNRCD STD SOFTWARE LICENSE W/HIB-232 MOD	-	CDN6122	229	\$2,792.00

Spare Power Supplies

Description	Full Description	Nomenclature	APC	Price
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POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00
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Spare Mounting Brackets

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00
MNTING BRACKET CIB DIGITAC	-	CDN6114	229	\$224.00

Parallel Input/Output Cables

Description	Full Description	Nomenclature	APC	Price
PUNCH BLOCK DUAL 25 PAIR	-	CDN6118	229	\$125.00
CABLE ASSY 25 PR M-NONE 25FT	-	CDN6135	229	\$81.00
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00

Serial Cables

Description	Full Description	Nomenclature	APC	Price
CBL ASSY AIB COMPARATOR 10 FT	-	CDN6131	229	\$74.00

Network Cables and Terminators

Description	Full Description	Nomenclature	APC	Price
COUPLER NETWORK CABLE FEM/FEM	-	CDN6133	229	\$12.00
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00

CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00
CABLE ASSY NETWORK 9 INCHES	-	CDN6123	229	\$21.00
CABLE ASSY NETWORK 3 FT	-	CDN6124	229	\$21.00

Manuals

Description	Full Description	Nomenclature	APC	Price
MCN SERVER 8000 MANUAL	-	DDN1290	454	\$28.00
IIB HARDWARE GUIDE	-	CDN6108	229	\$20.00
MCN SYSTEM MANUAL	-	CDN6134	229	\$30.00
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00
RCD DOS SOFTWARE GUIDE	-	CDN6111	229	\$28.00


Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	CBT	CDN6107	AIB HARDWARE GUIDE	229	16
QUOTEDS	CBT	CDN6108	IIB HARDWARE GUIDE	229	4
QUOTEDS	CBT	CDN6109	CIB HARDWARE GUIDE	229	19

QUOTEDS	CBT	CDN6110	HIB-232 HARDWARE GUIDE	229	20
QUOTEDS	CBT	CDN6111	RCD DOS SOFTWARE GUIDE	229	5
QUOTEDS	CBT	CDN6112	RACK MOUNT QUAD SIZE A	229	10
QUOTEDS	CBT	CDN6114	MNTING BRACKET CIB DIGITAC	229	20
QUOTEDS	CBT	CDN6115	NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	229	10
QUOTEDS	CBT	CDN6116	POWER SUPPLY MCN120 VAC	229	19
QUOTEDS	CBT	CDN6118	PUNCH BLOCK DUAL 25 PAIR	229	15
QUOTEDS	CBT	CDN6119	AIB ASTROTAC INTERFACE MODULE	229	15
QUOTEDS	CBT	CDN6120	IIB I/O INTERFACE MODULE	229	15
QUOTEDS	CBT	CDN6121	CIB COMPARATOR INTFC MODULE	229	15
QUOTEDS	CBT	CDN6122	MCNRCD STD SOFTWARE LICENSE W/HIB-232 MOD	229	8
QUOTEDS	CBT	CDN6123	CABLE ASSY NETWORK 9 INCHES	229	20
QUOTEDS	CBT	CDN6124	CABLE ASSY NETWORK 3 FT	229	19
QUOTEDS	CBT	CDN6125	CABLE ASSY NETWORK 10 FT	229	7
QUOTEDS	CBT	CDN6126	CABLE ASSY NETWORK 25 FT	229	19
QUOTEDS	CBT	CDN6127	CABLE ASSY NETWORK 100 FT	229	20
QUOTEDS	CBT	CDN6129	CBL ASSY 25 PR MALE-MALE 10 FT	229	30
QUOTEDS	CBT	CDN6130	CBL ASSY 25 PR MALE-MALE 25 FT	229	10
QUOTEDS	CBT	CDN6131	CBL ASSY AIB COMPARATOR 10 FT	229	20
QUOTEDS	CBT	CDN6133	COUPLER NETWORK CABLE FEM/FEM	229	9

QUOTEDS	CBT	CDN6134	MCN SYSTEM MANUAL	229	10
QUOTEDS	CBT	CDN6135	CABLE ASSY 25 PR M-NONE 25FT	229	20
QUOTEDS	CBT	DDN1287	MCN SERVER 8000 SW LIC OPT FOR 1 ADD'L MOTOROLA GCM 8000 OR MLC 8000	229	11
QUOTEDS	CBT	DDN1288	MCN SERVER 8000 SW LIC OPT FOR 4 ADD'L MOTOROLA GCM 8000 OR MLC 8000	229	14
QUOTEDS	CBT	DDN1289	MCN SERVER 8000 SW LIC FOR 4 MOTOROLA IP COMPARATORS & 4 CLIENTS	229	14
QUOTEDS	CBT	DDN1290	MCN SERVER 8000 MANUAL	454	20
QUOTEDS	CBT	DDN1292	MCN SERVER 8000 & CLIENT SOFTWARE MAJOR LEVEL 1 UPGRADE	229	73
QUOTEDS	CBT	DDN1294	MCN SW LIC OPTION MULTI-NI-4. ADDS SUPPORT FOR (4) HIB-IPS	229	25
QUOTEDS	CBT	DDN1295	MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	229	8
QUOTEDS	CBT	DDN2123	HIB-IP 8002 UNIT - NETWORK INTERFACE FOR MCN SERVER	229	30
QUOTEDS	CBT	L1953	ACIS IIB UP TO 8 RECEIVERS	229	14
QUOTEDS	CBT	L1954	ACIS IIB UP TO 16 RECEIVERS	229	6
QUOTEDS	CBT	L1955	DIGITAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	229	60
QUOTEDS	CBT	L1957	SPECTRA-TAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	229	8
QUOTEDS	CBT	L1959	ASTRO-TAC AIB, HIB-232 & MCNRCD FOR PC 8 RX	229	4



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JUMP TO ...

[MODEL](#)

[GENERAL INFORMATION](#)

[FEATURES AND COMPONENTS](#)

[ORDERING REQUIREMENTS](#)

[SERVICE AND TRAINING](#)

[SHIP CARD](#)

Model



MOTOMESH Extension Kit - 2.4/4.9 GHz Broadband Data Solution

General Information

The MOTOMESH Extension Kit is a prepackaged system for municipalities and public safety agencies looking to provide dedicated licensed network connectivity to first responders, license-free mobile broadband to public works employees, and WiFi access to public users - all over a single network. The MOTOMESH Extension kit enables cost-effective scalability and simplified municipal wireless broadband deployments. It is the first and only integrated private and public combined solution available on the market.

The MOTOMESH solution is a dual-band wireless broadband data system that operates at the 2.4 GHz ISM band (unlicensed) and 4.9 GHz (licensed) public safety band using mesh networking technology. This system provides both wide-area broadband data coverage and peer-to-peer ad-hoc networking. This system also provides users with sustained high data rate performance at vehicular speeds and with location capabilities, which are unique attributes that are not found in competing solutions and are considered critical to many public safety applications. The system is designed primarily to satisfy the needs of public safety on the 4.9 GHz band. This system is also designed to simultaneously serve other municipal constituencies, such as public works agencies and general public access, over the unlicensed 2.4 GHz band. The multiple use cases provide a strong value proposition for municipalities by spreading the Total Cost of Ownership (TCO) rationalization over a wider base of users.

In addition to a MOTOMESH equipment package (detailed below) the MOTOMESH Extension kit includes various options: AirMobile™, Wireless Network Extension, and Multi-

Net Mobility™. AirMobile allows you to easily manage large file transfers and software updates. Wireless Network Extension allows you to extend your mobile coverage with access to public networks. Multi-Net Mobility adds security and session persistence while you seamlessly roam across coverage areas and between your private network and the public network.

Features and Components

The complete MOTOMESH Extension Kit offers the optimal combination of features to leverage the integrated technology.

MOTOMESH

- Infrastructure meshing to create a wide-area broadband wireless backhaul
- High data rate mobile communication at vehicular speeds, achieving 6 Mbps burst data rates to a single user
- Support high speed motion and seamless hand-off between infrastructure nodes
- Self-forming and self-healing wide-area wireless mesh routing, providing increased network availability and robustness
- Client meshing allows for ad hoc and unique vehicle extensions
- Geo-location services
- Quality of Service for mission critical communications and differentiated services
- Symmetric data rates to and from users
- Wireless element management system, including configuration managements, statistics reporting, alarms and remote firmware upgrade
- Hardware and User authentication of wireless networking devices
- Differentiated services using IP Quality of Service
- IP networking and transport services with a single mobile internet switching center kit

The MOTOMESH Extension Kit includes the following MOTOMESH Level 2 Starter Kit components:

- 2 Internet Access Points with VLAN (IAP7300-01)
- 4 Mesh Wireless Routers (MWR7300) without Ethernet ports
- 5 Vehicular Mounted Modems (VMM7300)
- 15 Wireless Modem Cards (WMC7300)
- 1 Linux MiSC with 200 Device Licenses

2 Mesh Cameras

For more information, see the [MOTOMESH E-CAT Pages](#) and [Mesh Camera E-CAT Pages](#)

In addition to the standard MOTOMESH equipment described above, the full MOTOMESH Extension Kit solution includes:

AirMobile

- Secure, 256 bit, AES-compliant data encryption with compression
- Centralized, automated, scheduled, prioritized content delivery
- Robust error and session recovery
- Individual and group update capability
- Transfer progress indicators and per-client upload tracking

The AirMobile option includes the following components:

- 1 AirMobile server, server software, and OS
- 20 AirMobile client licenses

For more information, see the [AirMobile Page](#)

Wireless Network Extension

- First and only integrated private and public solution on the market
- Single point of contact for customer's wireless data network design and customer care
- Expanded broadband coverage to wide area
- Application roaming when combined with Multi-Net Mobility

The Wireless Network Extension option includes the following components:

- 5 Wireless PCMCIA data cards with installation software and user guide
 - 2 Year unlimited* data plan for 5 users
- * Subject to restrictions per carrier

Multi-Net Mobility

- End-to-End Security with "always on" AES 256 bit encryption between end device and fixed equipment
- Session Persistence to automatically suspend/reconnect open application sessions across network holes
- Intelligent Routing selects the best available network, blocks applications from unintended networks and prioritizes application traffic

The Multi-Net Mobility option includes the following components:

- 1 HP ProLiant DL360 server, with Linux, keyboard, and mouse
- 1 19 inch monitor
- 1 Multi-Net Mobility server software package
- 20 Multi-Net Mobility client licenses - for 15 WMC cards and 5 VMMs (additional can be ordered as required)

For more information, see the [Multi-Net Mobility Page](#)

Installation and optimization is included as part of the MOTOMESH Extension solution. Reference the Technical Support SOW for more details.

This and other customer communication templates can be found at the [TAG Contracts and Compliance Site](#)

Ordering Requirements

A detailed site survey and system design should be done prior to ordering, to determine the proper network configuration required. This should be done in conjunction with the Broadband Specialist in your region or through your Business Development Manager.

All orders must be entered into the Customer Order Fulfillment (COF) system.

A complete MOTOMESH Extension system configuration consists of the following, but can be ordered a la carte. (Note: the AirMobile pricing below is only available when ordered with the Starter Kit):

1. 1 MOTOMESH Level 2 Starter Kit with design and implementation services -
2. 1 AirMobile Server with 20 client licenses, installed -
3. 5 Wireless Network Extension data cards with 2 year data plans -
4. 1 Multi-Net Mobility server, software, and 20 client licenses, and installation -

Please consult the [MOTOMESH System Home Page](#) to gain access to the System Planner document, system configuration tool(s), FAQ list, and other support documentation that is relevant to the MOTOMESH solution prior to ordering.

The following process outline should be followed when ordering a MOTOMESH Extension Network:

Step 1 - Order a MOTOMESH Starter Kit

Step 2 - To add AirMobile, order:

- 1 SCA4304 AirMobile server software package

- 20 Option SCA4300 AirMobile client licenses
- 1 Option ZA00107AA CD-ROM media
- 1 DSPE860KMMWIN03 Dell PowerEdge 860 Server

Step 3 - To add Wireless Network Extension, order:

- 120 Kit TT1971A
- 5 Option TT05030AA

Step 4 - To add Multi-Net Mobility, order:

- 1 Model T7258A MNM Server Software
- 20 Option ZA00484AA MNM Client Licenses
- 1 DDN9003B Server with O/S
- 1 DS019BLK 19 inch monitor
- 1 Installation required, please contact your Business Development Manager for details.

Step 5 - Service and Technical Support:

Engineering, design, installation, optimization, test, and project management are all included

Step 6 - Training: Professional training classes are offered and conducted by Motorola's Worldwide Learning Services group. Contact Worldwide Learning Services at 847-538-7999 to obtain information about the training session offerings.

Step 7 - Field Upgrades, Spares, and Replacements: Hardware and software field upgrades, spares, and replacements are available as accessories as required.

Our certified and recommended backhaul products supplied by Motorola Canopy are provided and orderable as accessories for this system. These should be ordered based on the outcome of a detailed site survey and system design. Some common Canopy items are listed on these pages. For more complete information regarding Canopy models and options go to <http://il02cms01.comm.mot.com/prodsys/pagelist.asp?catid=183>

Service and Training

Service

1 Year Standard Warranty and Maintenance is included with the product and includes Monday through Friday 9-4 CST technical support, software updates to address defect repair issues, and depot unit repair.

Post warranty services are offered as a bundle and include the following:

- Monday through Friday 9-4 CST technical support (7x24 support option is available)

- Software defects repair
- Depot Unit repair
- 8x5 on-site Dispatch of customer bucket truck to IAP/MWR sites
- 8x5 on-site dispatch of Motorola personnel for the MiSC (7x24 option is available)

Services can be ordered directly through the Customer Support Manager. Contact your regional business service BDM to arrange for a quotation.

Training

Both on-site and off-site training class options will be available. Class size will be limited, and on-site classes are to be held in Schaumburg. The pricing below is on a per student basis and only applies to on-site classes held in Schaumburg. Off-site classes will need to be quoted separately.

Contact Worldwide Learning Services at 847-538-7999 to obtain information about the training session offerings.

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Motorola MCC 7100 Dispatch Console

-- Dispatch Positions, Dispatch API and Product Software --

Ordering Information

General Information

IMPORTANT NOTICE ABOUT MOTOROLA SOLUTIONS SOFTWARE SUPPORT POLICY

In line with the Software Support Policy (SwSP) for ASTRO based system software, orderability rules now include alignment to this Software Support Policy which sets a new framework of three periods of support from Ship Acceptance for that specific release.

The policy provides for a 4-year period of time, referred to as the **Standard Support** period, during which access to qualified software defect repairs and system expansions for that specific release of system software are provided.

Then there is an additional 3 year period of time, referred to as the **Extended Support** period, during this time no software defect repair, no system expansions and no Security Update/Monitoring Services support are available for that specific release of system software.

After the 4 + 3 year support periods have expired, the system release enters the **End of Support** period. At this time, no software defect repair, no system expansions no Security Update/Monitoring Services and no service offerings are available for that specific release of system software.

Customers may choose to upgrade or migrate to a supported release at anytime during their system lifecycle.

Historical milestones, such as the date that a system ships, reaches beneficial use, or achieves final acceptance have no impact on the system software dates of support.

Reminder: Under the new SwSP, system expansions are only allowed in the standard support window for a system release. If your customer desires an expansion that would occur toward the end of the standard support period, it is highly recommended that you have them upgrade/migrate first and then expand their system to ensure the customer receives the full warranty time period.

Additional information can be found here: [Software Support Policy Site](#)

MCC 7100 Product Planner and Ordering Guide

The MCC 7100 Product Planner and Ordering Guide is available on the [High Tier Dispatch Console wiki page](#).

Dispatch API Software Development Kit

The Software Development Kit (SDK) is required when a customer wishes to use the MCC 7500E/7500 Dispatch API to allow 3rd party software to communicate with the MCC 7500E dispatch console or if they wish to use a custom graphical user interface (GUI) on the dispatch console.

The MCC 7500E utilizes the same SDK as the MCC 7500 and MCC 7100 consoles. Please see the [High Tier Dispatch Console wiki page](#) for more information about the SDK and SDK technical support.

Ordering Requirements

Supported Ordering Systems

1. This equipment is ordered directly in COF or OMAR. Note that no checking of the design itself is done in COF or OMAR.
2. Motorola On-Line may not be used to order complete console systems.
3. Please note that the latest available release of software and hardware will be provided when ordering through the system. If earlier release versions are required then a case must be opened with the System Support Center (SSC) to obtain the desired version from Upgrade Operations (UO).

Don't Forget These Items for Each Dispatch Console

1. PC, Monitor, Speakers, Microphone, and other accessories.
2. Software Entitlement Licenses

Links to Other Elements of the Console Sub-System

1. [MCC 7500 Dispatch Console Product Catalog](#)
2. [MCC Series PC, Monitor, and accessories](#) (also available in pulldown tab above)
3. [Manuals](#)
4. Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features.
5. Also see the pulldown box at the top of this page for other elements.

Configuration

Ordering Instructions

Step 1: Order the MCC 7100 IP Console SW Application

Software Items

Description	Full Description	Nomenclature	APC	Price
MCC 7100 IP Dispatch Position Main Model	Provides the main model for ordering the various options available to the MCC 7100 Dispatch Position. Order one (1) B1939 for each MCC 7100 Dispatch Position. Each B1939 requires at least the CA01642AB software license option.	B1939	443	\$0.00
MCC 7100 DVD	Provides the DVD containing the latest shipping version of the application software for the MCC 7100 dispatch console. Need at least one per system. Does NOT include the licenses required to use the software. The required licenses are purchased with the B1939.	B1940	443	\$250.00

Upgrade Software License

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7100 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1940.	CA02090AA	443	\$2,500.00

MCC 7100 & PRX 7000 Feature/Capacity License Model (A7.16 & A7.17 application software only)

All installations of MCC 7100 and PRX 7000 software must order the corresponding feature (e.g., IRR) and/or capacity licenses for their given software release otherwise the products will not operate. Prior to A7.16 software these licenses are in the "HKVNxxxxx" format and are

ordered directly. Beginning with A7.16 software these licenses are in the "UAxxxxxxx" format and are ordered as a sub-item to B1942. Please note that the licenses follow the SOFTWARE version of the MCC 7100 or PRX 7000 and NOT the system release in which they may be installed.

Description	Full Description	Nomenclature	APC	Price
MCC7100 SOFTWARE LICENSING	-	B1942	443	\$0.00

Step 2: Order Basic Console Operator License

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7100 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/o's, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1939.	CA01642AB	443	\$4,800.00

Step 3: Order Licensed Features for the Console

Orders for licenses require email address(s) to be provided with the order. Motorola emails the License Entitlement ID to the email address(s) entered with the order as part of the order fulfillment process.

Notice: Effective January 1, 2019, Motorola Solutions announces the cancellation of the MCC 7100 Dispatch Consoles radio resource capacity tiered license options of 45 and 60. Option numbers UA00251AA (was HKVN4158A) and UA00252AA (was HKVN4157A).

This cancellation does not affect the cumulative nature of the any of the capacity licenses, cancelled or otherwise, e.g., two new 30 capacity licenses will provide 60 radio resource capacity, adding a 15 capacity license to an existing 30 capacity license will provide 45 radio resource capacity, etc. Please see the ITC Notification for more information. The notice is available on our wiki page at <https://sites.google.com/motorolasolutions.com/high-tier-voice-radio-dispatch>.

Pre-A7.16 MCC 7100 Software Radio Resource Capacity Licenses

Order one software capacity license per operator position depending on capacity needs.

Description	Full Description	Nomenclature	APC	Price
5 CHANNEL SW LICENSE	Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources.	HKVN4160A	443	\$3,500.00
10 CHANNEL SW LICENSE	Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources.	HKVN4159A	443	\$6,250.00

Pre-A7.16 MCC 7100 Software Integrated Recall Recorder (IRR) License

Order one optional Integrated Recall Recorder (IRR) license per operator position.

Description	Full Description	Nomenclature	APC	Price
MCC 7100 INSTANT RECALL RECORDER LICENSE	Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position.	HKVN4225A	443	\$1,200.00

A7.16 & A7.17 MCC 7100 Software Radio Resource Capacity Licenses

Notice: Effective January 1, 2019, Motorola Solutions announces the cancellation of the MCC 7100 Dispatch Consoles radio resource capacity tiered license options of 45 and 60. Option numbers UA00251AA (was HKVN4158A) and UA00252AA (was HKVN4157A).

This cancellation does not affect the cumulative nature of the any of the capacity licenses, cancelled or otherwise, e.g., two new 30 capacity licenses will provide 60 radio resource capacity, adding a 15 capacity license to an existing 30 capacity license will provide 45 radio resource capacity, etc. Please see the ITC Notification for more information. The notice is available on our wiki page at <https://sites.google.com/motorolasolutions.com/high-tier-voice-radio-dispatch>.

Order one software capacity license per operator position depending on capacity needs. Order as a sub-item to B1942.

Description	Full Description	Nomenclature	APC	Price

ADD: 15 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources. Order as a sub-item to B1942.	UA00249AA	244	\$3,500.00
ADD: 30 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources. Order as a sub-item to B1942.	UA00250AA	244	\$6,250.00

A7.16 & A7.17 MCC 7100 Software Integrated Recall Recorder (IRR) License

Order one optional Integrated Recall Recorder (IRR) license per operator position. Order as a sub-item to B1942.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 INSTANT RECALL RECORDER LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position. Order as a sub-item to B1942.	UA00253AA	443	\$1,200.00

Step 4: Order Proxy and Firewall (Only required if Installing MCC 7100 Console Outside ASTRO Network)

Each PRX 7000 Entitlement License supports 1 to 10 connections from the Customer network into the ASTRO Network.

Up to 5 PRX 7000 installations are supported per site. Proxy SW DVD not included, item #BVN6079 must be purchased separately.

Software Items

Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses	BVN6079	443	\$250.00

	are purchased as HKVN4225A for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.			
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Pre-A7.16 PRX 7000 Software License

Order one per PRX 7000 installation.

Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy SW License (1-10 CONNECTIONS)	Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately.	HKVN4161A	443	\$2,500.00

A7.16 & A7.17 PRX 7000 Software License

Order one per PRX 7000 installation. Order as a sub-item to B1942.

Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW LICENSE (1-10 CONNECTIONS)	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately. Order as a sub-item to B1942.	UA00254AA	443	\$2,500.00

A7.15, A7.16, and A7.17 system release Control Room Firewall

When ordering in OMAR, the firewall must be ordered as a standalone item.

Please see [Information Assurance \(IA\) PCAT page](#) for Control Room Firewall media, Element Hardening, and other IA features. Below item is listed for convenience only and may be out of date. It is not managed by the console group.

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

A7.11, A7.13, and A7.14 Control Room Firewall

The SSG 140 is no longer available for existing systems expansions on A7.11, A7.13, and A7.14. Please see the SSG 140 cancellation notice for more information.

Step 5: Order Operational Licenses for Trunking and/or Conventional Operation

Operational Licenses

Depending on the features desired on the MCC 7100 IP Console, one or more of the following operational license options may also have to be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,000.00
ADD: MCC 7500 /MCC 7100 ADV CONVL OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,600.00
	Required when the MCC			

ADD: MCC 7500/MCC 7100 IED OPERATION	7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100	CA01645AA	443	\$6,300.00
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Step 6: Order Secure Options if desired

Secure Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 SECURE OPERATION	Order when secure capabilities are required in an MCC 7100 dispatch console. Requires CA02092AA and is ordered as a sub-item to the B1939.	CA02180AA	443	\$3,900.00

The MCC 7100 Dispatch Console will support OTEK beginning with the A7.17.1 MCC 7100 software version.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00

Secure Algorithms

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Required for secure operation. Provides licensing for the AES, DES-OFB, and ADP encryption algorithms. Requires CA02180AA and is ordered as a sub-	CA02092AA	443	\$2,160.00

	item to the B1939.			
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Step 7: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired

Please see [MCC Series PC, Monitor, and accessories](#) pulldown menu.

Step 8: Order Audio Interface Module (AIM) if desired

Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environments.	B1941	443	\$1,900.00

Step 9: Adding Operational Licenses to Fielded Dispatch Consoles, a.k.a., Field-Adds

The following licenses are for use with fielded MCC 7100 dispatch consoles. These licenses are used when adding the indicated functionality to a fielded dispatch console

Basic Operational Licenses

Description	Full Description	Nomenclature	APC	Price
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,600.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,300.00

Encryption Licenses

Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00

SECURE OPERATION FIELD- ADD LICENSE	-	BLN1304	443	\$3,900.00
SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Existing dispatch consoles may add the licensing for the AES, DES-OFB, and ADP encryption algorithms by ordering the Software AES, DES-OFB, ADP Encryption Key File Management Field-Add License for each dispatch console that needs the feature. Note that this license does not provide the required Secure Operation license (BLN1304 or CA02180AA). The Secure Operation license must be ordered separately.	BLN7224	443	\$2,160.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTRLR	SSO	B1913	MCC SERIES HEADSET JACK	443	20
CNTRLR	SSO	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE	443	19
CNTRLR	SSO	B1939	MCC 7100 IP Dispatch Position Main Model	443	27
CNTRLR	SSO	B1940	MCC 7100 DVD	443	27

CNTRLR	SCB	B1941	USB AUDIO INTERFACE MODULE	443	22
CNTRLR	SCB	B1942	MCC7100 SOFTWARE LICENSING	443	11
CNTRLR	SSO	BLN1302	OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	443	15
CNTRLR	SSO	BLN1304	SECURE OPERATION FIELD-ADD LICENSE	443	31
CNTRLR	SSO	BLN1311	MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	443	26
CNTRLR	SSO	BLN1312	MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD- ADD LICENSE	443	4
CNTRLR	SSO	BLN1313	MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	443	40
CNTRLR	SCB	BLN7224	SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	443	6
FIXEDSTN	SSO	BVN6079	PRX 7000 Proxy Application SW DVD	443	10
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	PCW	CDN6673	PC DESKTOP SPEAKERS	708	18
QUOTEDS	SHK	DDN1396	USB DUAL ACTION FOOTSWITCH W/INPUT JACK KINESIS	229	30
QUOTEDS	GRA	DDN1400	SHURE DESKTOP GOOSENECK MICROPHONE 12" NECK	229	30
QUOTEDS	GRA	DDN1428	XLR TO USB ADAPTER SHURE	229	45
QUOTEDS	GRA	DDN1429	ANGLED DESKTOP GOOSENECK BASE SHURE	229	30
QUOTEDS	SHK	DDN1574	USB HUB 7 PORT	229	30
QUOTEDS	GRA	DDN2825	USB HEADSET BASE WITH PTT	708	30

QUOTEDS	MXM	DSCDN6171B	TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	708	14
QUOTEDS	PCW	DSF2B56AA	USB EXTERNAL DVD DRIVE	708	10
QUOTEDS	PCW	DSST7300U3M	STARTECH 7 PORT USB 3.0 HUB	708	10
QUOTEDS	LMS	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	708	84
QUOTEDS	PCW	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	708	10
CNTRLR	CDP	HKVN4159A	10 CHANNEL SW LICENSE	443	10
CNTRLR	CDP	HKVN4160A	5 CHANNEL SW LICENSE	443	1
CNTRLR	CDP	HKVN4161A	PRX 7000 Proxy SW License (1-10 CONNECTIONS)	443	7
CNTRLR	CDP	HKVN4225A	MCC 7100 INSTANT RECALL RECORDER LICENSE	443	5
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL	706	10
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
PARTS	CDP	RLN6099A	HDST MODULE BASE W/PTT, 25 FT CBL	706	6
FIXEDSTN	CDP	RMN5077B	SUPRAPLUS SINGLE MUFF HEADSET	706	5
FIXEDSTN	CDP	RMN5078B	SUPRAPLUS NC SINGLE MUFF HEADSET	706	8
FIXEDSTN	CDP	RMN5079B	SUPRAPLUS DUAL MUFF HEADSET	706	6

FIXEDSTN	CDP	RMN5080B	SUPRAPLUS NC DUAL MUFF HEADSET	706	2
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
QUOTEDS	PCW	TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	708	15
QUOTEDS	PCW	TT3308	ZBOOK 15 G4 256GB 8GB NON RETURNABL	708	7
QUOTEDS	PCW	TT3493	ZBOOK 15 G5 NON RETURNABLE	708	7

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Model



**SIERRA WIRELESS IN VEHICLE ROUTER
BASED SOLUTIONS**

**KEEPING YOU AND YOUR VEHICLE
CONNECTED**

**WITH REMOTE WORKING A CRITICAL ELEMENT
OF PUBLIC SAFETY, MOBILE CONNECTIVITY IS
VITAL.**

IT'S ALL ABOUT INFORMATION FLOW

IMPORTANT NOTE:

- *Maximum discount over list price is 15%. Additional discounts will require price exception approvals.*
- *Prices DO NOT include installation or configuration services. For quoting installation and configuration services please contact your Pre-Sales Quoting team.*

Updates

NEW JULY 2019!

TO REGISTER FOR AIRLINK COMPLETE SEE BELOW:

Go to this website: <https://www.sierrawireless.com/complete/register/>

New Customer will need to log in and create a log in account.

This process costs nothing – it is a free service that is included in the first year of the MP70 and RV55 that you are receiving.

It will register the devices for you to be eligible to call in for phone support and the use of ALMS (our online management software).

IT'S ALL ABOUT INFORMATION FLOW

Vehicle routers keep people connected in vehicles so they can access real-time intelligence on the road. They provide a bubble of connectivity around the vehicle that allows a variety of equipment from laptops and tablets to in-vehicle and body-worn cameras to access the Internet. We call this bubble a vehicle area network (VAN) and the connectivity between the VAN and the enterprise network is what makes the crucial flow of information between the field and base possible. For public safety, this information flow can be a lifeline. Mobile connectivity over WAN allows frontline teams to transmit and receive data securely in real time – video feeds, maps and criminal record databases, for example – and coordinate their response with other emergency services. Command can monitor the location and status of assets, access telemetry and see fleet information such as data on driver behavior. This two-way flow of information help keep responders safe and effective.

ALL NEW ROUTERS MUST BE REGISTERED
HERE: <https://www.sierrawireless.com/complete/register/>

Sierra Wireless Courses:

SVC0055 Sierra Wireless: Connected Networking Solution Overview

SVC0056 Sierra Wireless: Gateway Portfolio Overview

SVC0061 Sierra Wireless: Basic MG90 for Mobility

SVC0062 Sierra Wireless: Basic MP70 for Mobility

Please see Selling Sierra Wireless LTE Vehicle Routers Webinar recording here:
<https://register.gotowebinar.com/register/6668141495234541825>

NOTE: "For implementation and on-site training, please quote through I-Procurement:

Description	Sierra SKU	MG90	MP70	RV55	PRICE
AM/AMM Implementation (1 instance, Remote Deployment)	9010267	X	X	X	\$4,000.00
AM/AMM Implementation (1 Instance, On-site)	9010244	X	X	X	\$9,000.00
AM/AMM Implementation (up to 3 Instances, On-site)	9010245	X	X	X	\$14,000.00
ACM Implementation (1 Instance, Remote Deployment)	9010273	X	X	X	\$8,000.00
ACM Implementation (2 instances, On-site)	9010246	X	X	X	\$12,000.00
On-Site Training (2-day event)	9010133	X	X	X	\$8,000.00
On-Site Training Daily Rate for Additional Days	9010134	X	X	X	\$2,500.00
Live Web-based Training Hourly Rate	9010135	X	X	X	\$300.00
Quarterly Solution Review	9010218	X	X	X	\$30,000.00
Semi-annual Solution Review	9010219	X	X	X	\$20,000.00
AirLink Device Deployment (Remote Deployment)	9010275	X	X	X	\$3,000.00
AirLink Device Deployment (On-site)	9010272	X	X	X	\$30,000.00

Ordering Information

MP70 Single Carrier Router FirstNet Capable including Wi-fi capabilities with a 6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black and 3 YR Essential Service which includes the ALMS.

Below is an example of an order placed for a MP70:

LINE ITEM	QTY	DESCRIPTION	MAIN LINE ITEMS:
1	1	MP70 Routers (DC;WiFi)	TT3457A (Sierra Wireless SKU: 1104073)
1a	1	3 Y Essential Service	TT06348AA
LINE ITEM	QTY	DESCRIPTION	OPTIONS:
2	1	6in1 SharkFin Antenna	DDN2777 (Sierra Wireless SKU:6001197)

Configuration

MP70 AIRLINK ROUTER

STEP ONE (MUST SELECT ONE)

MP70 ROUTERS SELECT ONE:

Description	Full Description	Nomenclature	APC	Price
MP70 ROUTERS (DC)	Does not include WiFi (Sierra Wireless SKU: 1104071)	TT3458	635	\$799.00
MP70 ROUTERS (DC;WIFI)	Includes WiFi (Sierra Wireless SKU: 1104073)	TT3457	635	\$899.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR MP70

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

NOTE: MUST MATCH THE QTY OF ROUTERS

Description	Full Description	Nomenclature	APC	Price
3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$80.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00
5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010282	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/RV AMM ON				

PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/RV	Sierra SKU: 9010177	TT06403AA	923	\$20.00
HOSTED AMM ACCESS - MP/RV	Sierra SKU: 9010283	TT06404AA	923	\$90.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support If customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL, customer can renew ALMS annually for up to 5 years from device purchase. These packages only apply if they bought the renewal. Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MP70

Description	Full Description	Nomenclature	APC	Price

AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires TT06387AA or TT06386AA. (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MP70

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. Requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MP70

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires	TT06368AA	635	\$7,495.00

	TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)			
ACM APPLIANCE HARDWARE (PER APPLIANCE)	"QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)"	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)

AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR MP70

Description	Full Description	Nomenclature	APC	Price
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT06338AA	635	\$50.00
ALMS VPN SETUP - ONE TIME CHARGE VPN TO ALMS SETUP	Order one per deployment (Sierra Wireless SKU: 9010123)	TT06341AA	635	\$2,500.00
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00

STEP SEVEN (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MP70

REQUIRED ONLY FOR FIXED DEPLOYMENTS

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00
AM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA. (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$50.00
AM ENTERPRISE LICENSE : UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR MP70

Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	3in1 SharkFin WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00
PANEL ANTENNA BRACKET (WALL/POLE/MA	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2788 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00

HIGH GAIN DIRECTIONAL ANTENNA - 2XL	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet, (Sierra performs work).	DDN2981	635	\$299.00

STEP NINE (OPTIONAL-SEPARATE LINE ITEM)

ACCESSORIES FOR MP70

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MP I/O CABLE	(Sierra Wireless SKU: 6001004)	DDN2773	635	\$25.00
MP70 OBD-II Y CABLE	(Sierra Wireless SKU: 6001204)	DDN2774	635	\$45.00
MP70 J1939 Y CABLE	(Sierra Wireless SKU: 6001192)	DDN2775	635	\$45.00
AC ADAPTOR, 12 VDC MP/RV	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$20.00
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00
DC POWER CABLE MP/RV	(Sierra Wireless SKU: 2000522)	DDN2800	635	\$15.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet, (Sierra performs work).	DDN2981	635	\$299.00

OPTIONAL-SEPARATE LINE ITEM

RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ING	DDN2762	GNX5P/GNX6, POWER/DATA CABLE, "Y" C	635	30
QUOTEDS	ING	DDN2763	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2764	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2766	MOUNTING BRACKET FOR MG90	635	30
QUOTEDS	ING	DDN2767	MG90 I/O CABLE	635	30
QUOTEDS	ING	DDN2768	AC ADAPTOR, 12 VDC MG90	635	30
QUOTEDS	ING	DDN2769	1 YR ESSENTIAL RENEWAL	923	30
QUOTEDS	ING	DDN2770	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2771	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2772	3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2773	MP I/O CABLE	635	30
QUOTEDS	ING	DDN2774	MP70 OBD-II Y CABLE	635	30
QUOTEDS	ING	DDN2775	MP70 J1939 Y CABLE	635	30
QUOTEDS	ING	DDN2776	AC ADAPTOR, 12 VDC MP/RV	635	30
QUOTEDS	ING	DDN2777	6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2778	1 YR ESSENTIAL PLUS RENEWAL	923	30
QUOTEDS	ING	DDN2779	3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	635	30
QUOTEDS	ING	DDN2780	3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2781	3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2782	2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT	635	30
QUOTEDS	ING	DDN2783	2IN1 DOME ANTENNA - 2XLTE, BOLT MOU	635	30

QUOTEDS	ING	DDN2784	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2785	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2786	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2787	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2788	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2789	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2790	PANEL ANTENNA BRACKET (WALL/POLE/MA	635	30
QUOTEDS	ING	DDN2791	HIGH GAIN DIRECTIONAL ANTENNA - 2XL	635	30
QUOTEDS	ING	DDN2792	PADDLE WIFI ANTENNA - 2.4/5GHZ	635	30
QUOTEDS	ING	DDN2793	PADDLE CELLULAR ANTENNA	635	30
QUOTEDS	ING	DDN2794	INTERNAL WIFI/BT ANTENNA - 2.4GHZ,	635	30
QUOTEDS	ING	DDN2795	SHARKFIN MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2796	DOME MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2797	DIN RAIL MOUNTING BRACKET FOR RV50X	635	30
QUOTEDS	ING	DDN2798	DC POWER CABLE PIGTAIL MG90 10FT	635	30
QUOTEDS	ING	DDN2799	DC POWER CABLE, X PLATFORM CIGAR	635	30
QUOTEDS	ING	DDN2800	DC POWER CABLE MP/RV	635	30
QUOTEDS	ING	DDN2801	ASSET TAG - WI-FI (T2)	635	30
QUOTEDS	ING	DDN2802	ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	635	30
QUOTEDS	ING	DDN2803	OBD II VEHICLE TELEMETRY KIT	635	30
QUOTEDS	ING	DDN2804	FIELD UPGRADE KITS FOR MG90, EM7511	635	30
QUOTEDS	ING	DDN2805	3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	635	30
QUOTEDS	ING	DDN2867	1 YR ESSENTIAL ELITE RENEWAL	923	30
QUOTEDS	ING	DDN2981	UPGRADE FOR MP70 TO FIRSTNET	635	30
QUOTEDS	ING	TT3451	MG90 ROUTERS (SINGLE LTE-A PRO)	635	30

QUOTEDS	ING	TT3452	MG90 ROUTERS (DUAL LTE-A PRO)	635	30
QUOTEDS	ING	TT3457	MP70 ROUTERS (DC;WIFI)	635	30
QUOTEDS	ING	TT3458	MP70 ROUTERS (DC)	635	30
QUOTEDS	ING	TT3462	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3463	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3464	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3465	RV55 ROUTER (DC)	635	30
QUOTEDS	ING	TT3466	RV55 ROUTER (DC;WIFI)	635	30

JUMP TO ...
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[UPDATE HISTORY](#)
[SHIP CARD](#)

Model

**MT 1500 Portable Series 800 MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

Ordering Information

Features

All MT 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- Audio Gain Control
- 1 Year Warranty

General Information

The MT 1500 Portable is offered in model I only:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
MT 1500 Model I	48	None	None	No

Operating Modes

MT 1500 Radio Model is capable of operation in two different voice communication modes:

- 3600 Analog Trunking
- MDC 1200 Analog Conventional

The MT 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

There are no maximum frequency separation conditions that must be adhered to on the MT 1500

Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. Mutual Aid channels 821-824 will be supported. If an incorrect antenna is used, degraded performance may be experienced.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870Mhz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

Order the MT 1500 Portable Series as the main line item (H67UCC9PW5 N).

RADIO WIDE FEATURES	
<i>Maximum Modes</i>	
MT 1500 Model 1	48
Analog Operation	Yes
12.5/20/25 KHz Programmable Channels	Yes
Secure Capable	No
One Touch Operation	No
Real Time Clock	No
Surveillance Mode	No
Keypad Lock	No
Radio Lock	Yes
Smart Battery (NiCAD Only)	Future
Radio Wide Transmit Inhibit	No
Time Out Timer	Yes
FLASHport®	No
ANALOG CONVENTIONAL FEATURES	

Conventional Features are additional radio wide features beyond those specified above.	
CSQ/PL/DPL	Yes
Dual Priority Channel Scan	No
Adaptive Power Control	Yes
Repeater/Talkaround Operation	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes
Smart PTT	Yes
Monitor	Yes
DTMF Tone Generation	N/A
MDC-1200 Emergency Call	Yes
MDC-1200 Silent Emergency Alarm	Yes
MDC-1200 PTT-ID Encode	Yes
MDC Repeater Access	Yes
MDC Request to Talk (RTT)	Yes
MDC Status, Status Request. Message	Yes
3600 Trunking Features	
Maximum Number of Trunked Systems - 48	Yes
Talkgroup Calls	Yes
PTT ID (Digital Only)	Model I - Encode Only Model 1.5 - Encode and Decode
Call Alert Decode Only	Yes
Dual Mode Scan	Yes
Failsoft by Talkgroup	Yes
Telephone Interconnect Encode/Decode	No
System Wide Call (Receive Only)	Yes
Selective Radio Inhibit	Yes
Priority Scan	Yes
Dynamic Regrouping	Yes
Status/Message	No

Private/Enhanced Conversation (Decode only)	Yes
Radio Check	Future
Remote Monitor/Radio Trace	No
Reprogram Request	No
Trunking Features	
Voice on Control	Future
SmartZone® Automatic Site Registration	Yes
SmartZone® RSSI Operation	Yes
SmartZone® Preferred Site	Yes
SmartZone® Forced Site Search	Yes
SmartZone® Site Lock/Unlock	Yes
SmartZone® Adjacent Control Channel OSW	Yes
Emergency Alarm Call Receive Indication	Yes

FCC Information

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
800 MHz (806-870)	1 to 3 Watts	AZ489FT5816	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90

SUB-BAND PERFORMANCE

800 MHz 806-870 MHz in all models

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:

Rx/Tx: 764.006250 to 775.993750

Tx Only: 794.006250 to 805.993750

800 MHz

Tx Only: 806.000000 to 824.993750

Rx/Tx: 851.000000 to 869.993750

[MT 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED

Configuration

Accessories

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger

Description	Full Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Update History

MT 1500 Last Order Entry Date : October 31, 2014

MT 1500 Last Scheduled Ship Date: November 30, 2014

[MT 1500 Notification of Intent to Cancel Memo](#)

** Alternative product includes the APX Series ** - [APX1000 \(Available - August 2014\)](#)

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY- INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY- INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5

PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[SHIP CARD](#)

Model

MT 1500
FLASHport® Aftermarket Upgrades
800MHz, VHF, UHF Bands
Trunked Radio Systems

Ordering Information

General Information

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package or to upgrade to a different System Enhancement Software Package for existing MT 1500 radios in the field. FLASHport Upgrade Kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

1. Specify the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7020, T7334, T7019 or T7324) and order quantity 1 at \$0 (No Charge).
2. Select the *desired* System Enhancement Software Package and enter as sub-items.
3. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
4. Each sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and FLASHcode.

NOTE: The FLASHcode can be read by using the SRIB and RSS.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7020 (MI)	T7334 (M1.5)	T7019 (MI)	T7324 (M1.5)
	<i>Analog Conventional MDC-1200</i>	<i>Analog Conventional MDC-1200</i>	<i>Analog 3600 Baud Trunking Package</i>	<i>Analog 3600 Baud Trunking Package</i>

SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
Q811AR ENH: P25 Digital Conventional	X	X	-	-
Q574AX ENH: 9600 Digital Trunking	X	X	-	-
Q574AY ENH: 9600 Digital Trunking	-	-	X	X

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

Ship Card

Data Not Available

JUMP TO ...
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[UPDATE HISTORY](#)
[SHIP CARD](#)

Model

**MT 1500 Portable Series VHF Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

Ordering Information

Features

All MT 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- Audio Gain Control
- 1 Year Warranty

General Information

The MT 1500 Portable is offered in model I only:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
MT 1500 Model I	48	None	None	No

Operating Modes

MT 1500 Radio Model is capable of operation in two different voice communication modes:

- 3600 Analog Trunking
- MDC 1200 Analog Conventional

The MT 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at the discrete

frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 147.4450, 147.4475, 147.4500, 151.1975, 151.2000, 153.6000, 161.9975, 162.000, 162.0025, 165.8975, 165.9000, 165.9025, 167.9975, 168.000, 168.0025, 172.0200, 172.0225.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1 H67KDC9PW5 N MT 1500 Portable

1A Qxxx System Software

1B etc

1. Order the MT 1500 Portable Series as the main line item (H67KDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 3600 Trunking or MDC 1200 Analog Conventional.

RADIO WIDE FEATURES	
<i>Maximum Modes</i>	
MT 1500 Model 1	48
Analog Operation	Yes
12.5/20/25 KHz Programmable Channels	Yes
Secure Capable	No
One Touch Operation	No
Real Time Clock	No
Surveillance Mode	No
Keypad Lock	No
Radio Lock	Yes
Smart Battery (NiCAD Only)	Future
Radio Wide Transmit Inhibit	No
Time Out Timer	Yes
FLASHport®	No
ANALOG CONVENTIONAL FEATURES	

Conventional Features are additional radio wide features beyond those specified above.	
CSQ/PL/DPL	Yes
Dual Priority Channel Scan	No
Adaptive Power Control	Yes
Repeater/Talkaround Operation	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes
Smart PTT	Yes
Monitor	Yes
DTMF Tone Generation	N/A
MDC-1200 Emergency Call	Yes
MDC-1200 Silent Emergency Alarm	Yes
MDC-1200 PTT-ID Encode	Yes
MDC Repeater Access	Yes
MDC Request to Talk	Yes
MDC Status, Status Request, Message	Yes
3600 TRUNKING FEATURES	
Maximum Number of Trunked Systems - 48	Yes
Talkgroup Calls	Yes
PTT ID (Digital Only)	Model I - Encode Only Model 1.5 - Encode and Decode
Call Alert™ Decode Only	Yes
Dual Mode Scan	Yes
Failsoft by Talkgroup	Yes
Telephone Interconnect Encode/Decode	No
System Wide Call (Receive Only)	Yes
Selective Radio Inhibit	Yes
Priority Scan	Yes
Dynamic Regrouping	Yes
Status/Message	No

Private/Enhanced Conversation (Decode only)	Yes
Radio Check	Future
Remote Monitor/Radio Trace	No
Reprogram Request	No
TRUNKING FEATURES	
Voice on Control	Future
SmartZone Automatic Site Registration	Yes
SmartZone RSSI Operation	Yes
SmartZone Preferred Site	Yes
SmartZone Forced Site Search	Yes
SmartZone Site Lock/Unlock	Yes
SmartZone Adjacent Control Channel OSW	Yes
Emergency Alarm Call Receive Indication	Yes

FCC Information

Band/Model	Power Output	Transmitter Type Acceptance	Emissions	Applicable Rules
VHF (138-174 MHz)	1 to 5 Watts	AZ489FT3807	11K0F3E, 11K0F2D, 11K0F1D, 15K0F1D, 15K0F2D, 16K0F3E, 20K0F1E, 20K0F1D, 8K10F1E, 8K10F1D	22, 74, 90

SUB-BAND PERFORMANCE

VHF 138-174 MHz in all models

[MT 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Configuration

Accessories

Antenna

Description	Full Description	Nomenclature	APC	Price

ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$243.00
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
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Charger

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00

Headsets

Description	Full Description	Nomenclature	APC	Price
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom	RMN4049	742	\$225.00

	microphone and in-line PTT.			
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Manual(s)

Description	Full Description	Nomenclature	APC	Price
XTS/MT1.5K,XTS2.5KM1,1.5,2,3CD UG B	-	PMLN4940B	362	\$21.00

Microphones

Description	Full Description	Nomenclature	APC	Price
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25

Multi Unit Chargers

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Service

Description	Full Description	Nomenclature	APC	Price
BATTERY ELIMINATOR CABLE	-	AA0180305G54	261	\$137.00
HOUSING ELIMINATOR, XTS 2500, XTS 1500	-	8180384M37	261	\$538.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM	BDN6668	742	\$135.00

	<p>Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.</p> <p>*PR1500 requires BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter.</p> <p>FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6670	742	\$150.00
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.</p> <p>FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved.</p> <p>*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	BDN6726	742	\$41.25
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter.</p> <p>FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with</p>	BDN6669	742	\$118.00

	Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ABC LABEL REPLACEMENT KIT - GREEN	-	PMLN5159A	140	\$20.00
ABC LABEL REPLACEMENT KIT - YELLOW	-	PMLN5161A	140	\$20.00
ABC LABEL REPLACEMENT KIT -COOLGRAY	-	PMLN5162A	362	\$20.00
ABC LABEL REPLACEMENT KIT - RED	-	PMLN5163A	140	\$20.00
ABC LABEL REPLACEMENT KIT - BLUE	-	PMLN5160A	140	\$20.00

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the MT 1500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

MT 1500 Last Order Entry Date : October 31, 2014

MT 1500 Last Scheduled Ship Date: November 30, 2014

MT 1500 Notification of Intent to Cancel Memo

** Alternative product includes the APX Series ** - APX1000 (Available - December 2014)

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PGF	8180384M37	HOUSING ELIMINATOR, XTS 2500, XTS 1500	261	63
PARTS	CDP	AA0180305G54	BATTERY ELIMINATOR CABLE	261	9
PARTS	CDP	AA0180305G54	BATTERY ELIMINATOR CABLE	261	9
PARTS	CDP	AA0180305G54	BATTERY ELIMINATOR CABLE	261	9
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5

PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	PDC	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	8
PARTS	RNS	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	5
PARTS	PGF	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	56
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1

QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3

PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IIN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IIN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IIN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IIN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IIN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5

FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	PGF	PMLN4940B	XTS/MT1.5K,XTS2.5KM1,1.5,2,3CD UG B	362	56
PARTS	PGF	PMLN5159A	ABC LABEL REPLACEMENT KIT - GREEN	140	21
PARTS	PGF	PMLN5160A	ABC LABEL REPLACEMENT KIT - BLUE	140	21
PARTS	PGF	PMLN5161A	ABC LABEL REPLACEMENT KIT - YELLOW	140	21
PARTS	PGF	PMLN5162A	ABC LABEL REPLACEMENT KIT -COOLGRAY	362	21
PARTS	PGF	PMLN5163A	ABC LABEL REPLACEMENT KIT - RED	140	22
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	RNS	RKN4105	CABLE- PROGRAMMING USB	261	0
PARTS	PGF	RKN4105	CABLE- PROGRAMMING USB	261	10
PARTS	CDP	RKN4105	CABLE- PROGRAMMING USB	261	5
PARTS	PGF	RKN4106	CABLE- PROGRAMMING, RS232	261	63
PARTS	CDP	RKN4106	CABLE- PROGRAMMING, RS232	261	2
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17

PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5073B	PSM STRAIGHT CABLE 24IN	372	98
PARTS	CDP	RMN5073B	PSM STRAIGHT CABLE 24IN	372	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9

PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MTC 3600 SMARTNET Simulcast Remote Controller

Ordering Information

General Information

ORIGINAL MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

Configuration

Data Not Available

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

MTC 3600 SMARTNET Simulcast Prime Controller

Ordering Information

General Information

PREVIOUS MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Intent to Cancel Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

Configuration

Data Not Available

Ship Card

Data Not Available

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MTC 3600 SMARTNET Single Site Controller

Ordering Information

General Information

ORIGINAL MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

Configuration

Data Not Available

Ship Card

Data Not Available

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MTC 3600 SmartZone Site Controller (Non-Simulcast)

Ordering Information

General Information

ORIGINAL MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

'All orders for SmartZone MTC 3600's must be accompanied by a matching order for SmartX. Any orders for SmartZone MTC 3600's, accompanying SmartX orders, must be for a single unit replacement of a non-SmartX compatible 6809 controller. No orders for additional SmartZone MTC 3600's for site expansion, or any other purpose, will be honored. All site expansions associated with SmartX must be accomplished with 9600 based sites'

Trunked System Site Controller

MTC 3600 Controllers are the site call processing units for operation in an analog or ASTRO/Mixed Mode SmartZone and/or SmartZone/OmniLink Trunking radio system. MTC 3600 is the evolution of the 6809-based central controller.

MTC 3600 Controllers are the central call processing equipment that use advanced PowerPC processing with Compact PCI technology to provide trunked operation in SmartZone and SmartZone/OmniLink Trunked Radio Systems. When combined with other equipment, the MTC 3600 Controllers yield leading edge trunked radio operation, system management, and control. In addition to supporting features like Selective Call, Group Call and Push to Talk ID Display, key features and benefits yielded by the controller are listed below.

Additional Information

Please click on the links below for more information:

- [Catalog Sheet - R3-13-2000A](#)
- [Cornet Switch Ordering Guide](#)

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MTC 3600 SmartZone Simulcast Remote Controller

Ordering Information

General Information

PREVIOUS MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

'All orders for SmartZone MTC 3600's must be accompanied by a matching order for SmartX. Any orders for SmartZone MTC 3600's, accompanying SmartX orders, must be for a single unit replacement of a non-SmartX compatible 6809 controller. No orders for additional SmartZone MTC 3600's for site expansion, or any other purpose, will be honored. All site expansions associated with SmartX must be accomplished with 9600 based sites'

Trunked System Site Controller

MTC 3600 Controllers are the site call processing units for operation in an analog or ASTRO/Mixed Mode SmartZone and/or SmartZone/OmniLink Trunking radio system. MTC 3600 is the evolution of the 6809-based central controller.

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Additional Information

Please click on the links below for more information:

- [Catalog Sheet - R3-13-2000A](#)
- [Cornet Switch Ordering Guide](#)

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MTC 3600 SmartZone Simulcast Prime Controller

Ordering Information

General Information

PREVIOUS MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

'All orders for SmartZone MTC 3600's must be accompanied by a matching order for SmartX. Any orders for SmartZone MTC 3600's, accompanying SmartX orders, must be for a single unit replacement of a non-SmartX compatible 6809 controller. No orders for additional SmartZone MTC 3600's for site expansion, or any other purpose, will be honored. All site expansions associated with SmartX must be accomplished with 9600 based sites'

Trunked System Site Controller

MTC 3600 Controllers are the site call processing units for operation in an analog or ASTRO/Mixed Mode SmartZone and/or SmartZone/OmniLink Trunking radio system. MTC 3600 is the evolution of the 6809-based central controller.

MTC 3600 Controllers are the central call processing equipment that use advanced PowerPC processing with Compact PCI technology to provide trunked operation in SmartZone and SmartZone/OmniLink Trunked Radio Systems. When combined with other equipment, the MTC 3600 Controllers yield leading edge trunked radio operation, system management, and control. In addition to supporting features like Selective Call, Group Call and Push to Talk ID Display, key features and benefits yielded by the controller are listed below.

Additional Information

Please click on the links below for more information:

- [Catalog Sheet - R3-13-2000A](#)
- [Cornet Switch Ordering Guide](#)

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

MTC 3600 Controller Upgrades

Ordering Information

General Information

PREVIOUS MTC3600 INTENT TO CANCEL NOTICE: [MTC3600 Cancellation Memo](#)

MTC3600 FOR SMARTX INTENT TO CANCEL NOTICE: [MTC3600 Controller Cancellation Memo](#)

Trunked System Site Controller

MTC 3600 Controllers are the site call processing units required for operation in trunking radio systems. MTC 3600 is the evolution of the 6809-based central controller.

The following ordering information provides model numbers to order software refresh upgrades for fielded MTC 3600 controllers. To upgrade an existing, fielded MTC 3600 controller to a different system configuration or modulation type and to upgrade a customer's system from a 6809-based SMARTNET controller to an MTC 3600 controller, please contact [Upgrade Operations](#) or by calling 1-800-221-7144.

Software Refresh Ordering Requirements

MTC 3600 Controllers can be upgraded to the latest shipping software by ordering only one (1) of the proper T model based on the fielded system type. No code plug is necessary when refreshing the MTC 3600 with the latest shipping software.

1. **T6358** SMARTNET Single Site (Analog) Software Refresh
2. **T6881** SMARTNET Single Site (ASTRO) Software Refresh
3. **T6973** SMARTNET Simulcast Prime Software Refresh
4. **T6360** Simulcast Remote Site (ReSC) Software Refresh (SMARTNET and SmartZone)
5. **T6356** SmartZone Non-simulcast Software Refresh
6. **T6651** SmartZone Simulcast Prime Software Refresh

System Migration Ordering Requirements

System Migration allows for a fielded MTC 3600 system to change to a new system type or configuration. Examples of system migration include migration from SMARTNET Single Site to SMARTNET Simulcast, migration from analog operation to ASTRO or Mixed Mode, and migrating a system from seven channels to 14. All MTC 3600 system migration orders should be placed with the SQM01SUM0146 as the main line item. See additional ordering requirements below.

1. All system and/or MTC 3600 upgrades or migrations should be done through the Upgrade Operations group. Please contact [Upgrade Operations](#) for a quote to upgrade or migrate a fielded system.
2. MTC 3600 upgrades or migrations should be ordered by using SQM01SUM0146 as the main line item. Please contact Upgrade Operations for order and pricing details.
3. The MTC 3600 Upgrade model - SQM01SUM0146 - will automatically be placed on D4 hold in order to ensure Upgrade Operations involvement in the MTC 3600 controller upgrade/migration. This is to ensure that the upgrade process is followed correctly, including correct options are ordered, the TDR is updated, and a new code plug is programmed.
4. If a migration from the 6809-based SMARTNET controller to the MTC 3600 controllers is desired, new base station cables will be required. A list of cables and a cable matrix is available and viewable from this website. Please see the appendices of the Installation and Configuration manuals under [MTC 3600 Documentation](#) All cables can be purchased from the Accessories and Aftermarket Division at 1-800-422-4210.
5. There are three variations of channel capacity options available, depending on the type of controller fielded.
 - MTC 3600 Stand Alone or Simulcast Prime Controllers (SMARTNET and SmartZone): D391AP - 7 Channels, D392AQ - 14 Channels, and D611AK - 21 Channels.
 - MTC 3600 Remote Simulcast Controllers (SMARTNET and SmartZone): D391AO - 7 Channels, D392AN - 14 Channels, and D611AJ - 21 Channels.
 - MTC 3600 Remote Simulcast Controllers with Receive-only sites (SMARTNET and SmartZone): D391AR - 7 Channels, D392AR - 14 Channels, and D611AM - 21 Channels.

Link Status Board Upgrade Ordering Requirements

Link Status Board upgrades are now achieved by ordering a T6813. This includes the link status board and the necessary cable. However it does NOT include the software. In order for the link status board to work properly, be sure your MTC 3600 has one of the following software versions or better.

- SMARTNET 3.1 - R20.03.23
- SMARTNET 3.2 - R30.01.07
- 4.1 SmartZone/SmartZone OmniLink, 3.0 SmartZone, 3.5 - R35.02.10

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

MODEL

CONFIGURATION

Model

MONTHLY PATCHING SECURITY UPDATE SERVICE (SUS)

The Defense Information Systems Agency (DISA) now requires DHS/DoD Agencies to update their systems w/ current security patches on a monthly cadence.

Once tested, Motorola will post the updates to a secured extranet website and send an email notification to the customer. If there are any recommended configuration changes, warnings, or workarounds, Motorola will provide detailed documentation along with the updates on the website. Customer will be responsible for the download and deployment of these updates to their ASTRO System.

Monthly Patching SUS includes: Windows, Adobe, Open JDK, Oracle Java, IDS Signature Updates, Dot Hill, HP Service Pack for ProLiant, McAfee, PostgreSQL, ESXi, RHEL, SQL Server, DAS, and QNAP Firmware.

For more information, contact your Motorola representative

Ordering Requirements

Applicable to an ASTRO 7.17.2 system release. Complete the Quote Tool for all applicable pricing.

Benefits

- Maintain Compliance
- Protect Continuity of System Operations
- Minimize Risk and Cost
- Increased network availability
- Reduce the vulnerabilities addressed by security patches and increase the safeguards of confidentiality, integrity, and availability of mission-critical systems.
- Reduced maintenance costs
- Dramatically reduce potential for system downtime; resulting in fewer maintenance costs to restore the system back to proper operational state.
- Assurance
- Motorola assumes responsibility to verify security updates without unnecessary burden to

your staff.

- Better use of technical resources
- Keep staff focused on core responsibilities relying on Motorola to deliver the expertise and support for a proper cybersecurity regimen.

Statement of Work

Configuration

SELF-INSTALLED MONTHLY PATCHING WITH SECURITY UPDATE SERVICE		
Service Model	Description	
LSV01S01675A	SELF-INSTALLED MONTHLY PATCHING WITH SUS	\$300,000 USD per year
Requires		
SVC04SVC0016C	SECURITY UPDATE SERVICE	Use Quote Tool for associated pricing
Optional		
LSV01S00712A	REBOOT SUPPORT	Use Quote Tool for associated pricing
SELF-INSTALLED MONTHLY PATCHING WITH REMOTE SECURITY UPDATE SERVICE		
Service Model	Description	
LSV01S01676A	SELF-INSTALLED MONTHLY PATCHING WITH RSUS	\$300,000 USD per year
Requires		
SVC04SVC0016C	SECURITY UPDATE SERVICE	Use Quote Tool for associated pricing
SVC01SVC0140A	REMOTE SUS	Use Quote Tool for associated pricing
Optional		
LSV01S00712A	REBOOT SUPPORT	Use Quote Tool for associated pricing

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MTR3000
Satellite Receiver
UHF (403-524)
800MHz (806-870)
900MHz(896-940)
VHF(136-174)

Ordering Information

General Information

- **MTR3000 Satellite Receiver operates in Analog Conventional operation only**
- **MTR3000 Satellite Receiver can also be used as Digital Voting Satellite Receiver**
- RoHS (Restriction of Hazardous Substances) Compliant
- Come standard with a basic install/ service and user manual
- Come standard with a wireline board
- Switching power supply functions for over a wide range of voltages and frequencies
- **NEW IMPROVED WARRANTY - TWO Year Motorola Standard Warranty**

Ordering Requirements

- Order a quantity of one T7713A per line item.
- You must enter the exact customer frequencies at the time order is placed.
- Customer Programming Software (CPS) is required to program.

- Preselector is optional for the MTR3000 Satellite Receiver - Refer to the Product Planner/Sales Ordering Guide for Further rules.
- AC cable comes standard. The DC cable is optional.

**Please refer to Motorola Online Resource Center for further product level information and technical configuration/Ordering requirements

MTR3000 Base Station/Repeater/ Satellite Receiver Product Planner & Sales Ordering Guide

Additional Resources

The following resource are available through Motorola Online

- **Product Planner**
- **Sales Ordering Guide**
- **Manuals**

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
MTR3000 RECEIVER	-	T7713	512	\$1,400.00

Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: UHF R2	-	XA00046AA	512	\$3,400.00
ADD: 800MHZ	-	XA00048AA	512	\$3,600.00
ADD: 900MHZ	-	XA00049AA	512	\$3,600.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price

ADD: AUXILIARY SYSTEM CABLE	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00
ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00

Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00

Power Cable

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00
ADD: POWER CABLE BRAZIL	Station ships w/US domestic power cable unless ordering this option.	XA00040AA	512	\$0.00
ADD: POWER CABLE, AUSTRALIA	Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00
ADD: POWER CABLE, EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00
ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00

Preselectors

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Description	Full Description	Nomenclature	APC	Price
ADD: PRESELECTOR, UHF (470-524 MHZ)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00

Analog Voting

Description	Full Description	Nomenclature	APC	Price
ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00

Test Results

Description	Full Description	Nomenclature	APC	Price
ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00

Accessories

Field Replacement Unit

Description	Full Description	Nomenclature	APC	Price
MTR 3000 RECEIVER EXCITER FRU	-	DLN6776	512	\$100.00
MTR 3000 RECEIVER PA FRU	-	DLN6777	512	\$100.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN6776	MTR 3000 RECEIVER EXCITER FRU	512	9
FIXEDSTN	SCB	DLN6777	MTR 3000 RECEIVER PA FRU	512	9
FIXEDSTN	SCB	T7713	MTR3000 RECEIVER	512	34

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MTR2000 MOTOTRBO UPGRADE
UHF (403-524)
800MHz (806-870)
900MHz(896-940)
VHF(136-174)

Ordering Information

Features

MTR2000 MOTOTRBO Digital Upgrade Kit allows you to migrate your existing MTR2000 to MOTOTRBO digital.

- 16 Channel Operation (Remote Control Access limited to 15 Channels)
- RoHS (Restriction of Hazardous Substances) Compliant
- 6.25e, 12.5 or 25 kHz programmable channel spacing
- 1.5 PPM Frequency Stability

Please refer to the MTR 3000 Specifications sheet for detailed specs.

Ordering Requirements

The MTR2000 MOTOTRBO Digital Upgrade Kit comes standard with the following:

- Exciter
- Receiver
- Station Control Module
- Front Bezel
- TORX Screws

- MTR3000 FCC upgrade label

MTR2000 Digital Upgrade Kit Quick Reference Guide

MTR3000 Basic Service/Install Manual

Standard Two Year warranty On the MTR 3000 Exciter, Receiver, Control Board

FCC Information

See product catalog sheets for FCC information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
MTR2000 MOTOTRBO UPGRADE	-	T2003	512	\$500.00

Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD : UHF 100W POWER (470-524)	-	X540MT	512	\$3,910.00
ADD: 800 MHZ 100W POWER (806-870)	-	X450MT	512	\$4,140.00
ADD: 900 MHZ 100W POWER (896-941)	-	X460MT	512	\$4,140.00

Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
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REPL BY: DSUSBFAB6 (HI-SPEED USB CABLE 6FT TYPE A -B)	This USB cable is used to program the MTR3000. It is a Type A to Type B USB which connects the base station/repeater to a PC. CPS Programming software is RVN5115.	DDN9957	454	\$20.00
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Field Replaceable Units (FRU's) 800 MHz

Description	Full Description	Nomenclature	APC	Price
FRU 800/900 MHZ EXCITER	DLN6715 Exciter can be used for both 800 and 900 MHz stations.	DLN6715	454	\$1,500.00
FRU 800/900 MHZ RECEIVER	DLN6716 Receiver can be used for both 800 and 900 MHz stations.	DLN6716	454	\$1,500.00

Field Replaceable Units (FRU's) Control/Wireline

Description	Full Description	Nomenclature	APC	Price
FRU STATION CONTROL TCXO	For VHF and UHF only. Region specific for North America.	DLN6719	454	\$1,300.00
FRU 4 WIRE WIRELINE	-	DLN6720	454	\$450.00
FRU STATION CONTROL OCXO	Replaces station control module with high stability. For 800/900 Mhz only. Region specific for North America.	DLN6718	454	\$1,600.00
FRU BACKPLANE	-	DLN6721	454	\$1,600.00

Field Replaceable Units (FRU's) Power Supply

Description	Full Description	Nomenclature	APC	Price
FRU MTR3000 AC/DC POWER SUPPLY	-	DLN6707	454	\$1,000.00

Field Replaceable Units (FRU's) UHF

Description	Full Description	Nomenclature	APC	Price
FRU UHF 403-470 RECEIVER	-	DLN6705	454	\$1,500.00
FRU UHF 450-524 RECEIVER	-	DLN6706	512	\$1,500.00
FRU UHF 403-470 EXCITER	-	DLN6703	454	\$1,500.00
FRU UHF 450-524 EXCITER	-	DLN6704	512	\$1,500.00

Field Replaceable Units (FRU's) VHF

Description	Full Description	Nomenclature	APC	Price
FRU MTR3000 VHF 136-174 EXCITER	-	DLN6712	454	\$1,500.00
FRU VHF 136-174 RECEIVER	-	DLN6713	454	\$1,500.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	CDP	DDN9957	REPL BY: DSUSBFAB6 (HI-SPEED USB CABLE 6FT TYPE A -B)	454	2
FIXEDSTN	CDP	DLN6703	FRU UHF 403-470 EXCITER	454	5
FIXEDSTN	SCB	DLN6703	FRU UHF 403-470 EXCITER	454	1
FIXEDSTN	SCB	DLN6704	FRU UHF 450-524 EXCITER	512	102
FIXEDSTN	SCB	DLN6705	FRU UHF 403-470 RECEIVER	454	20

FIXEDSTN	SCB	DLN6706	FRU UHF 450-524 RECEIVER	512	102
FIXEDSTN	SCB	DLN6707	FRU MTR3000 AC/DC POWER SUPPLY	454	4
FIXEDSTN	SCB	DLN6707	FRU MTR3000 AC/DC POWER SUPPLY	454	4
FIXEDSTN	SCB	DLN6712	FRU MTR3000 VHF 136-174 EXCITER	454	20
FIXEDSTN	SCB	DLN6713	FRU VHF 136-174 RECEIVER	454	20
FIXEDSTN	SCB	DLN6715	FRU 800/900 MHZ EXCITER	454	20
FIXEDSTN	SCB	DLN6716	FRU 800/900 MHZ RECEIVER	454	20
FIXEDSTN	SCB	DLN6718	FRU STATION CONTROL OCXO	454	20
FIXEDSTN	CDP	DLN6719	FRU STATION CONTROL TCXO	454	5
FIXEDSTN	SCB	DLN6719	FRU STATION CONTROL TCXO	454	11
FIXEDSTN	SCB	DLN6720	FRU 4 WIRE WIRELINE	454	12
FIXEDSTN	SCB	DLN6720	FRU 4 WIRE WIRELINE	454	12
ACCESSORY	SCB	DLN6721	FRU BACKPLANE	454	15
ACCESSORY	CDP	DLN6721	FRU BACKPLANE	454	5
FIXEDSTN	SCB	T2003	MTR2000 MOTOTRBO UPGRADE	512	44

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



MTR3000
Base Station/Repeater
UHF (403-524)
800MHz (806-870)
900MHz(896-940)
VHF(136-174)

Ordering Information

Features

- MTR3000 Base Radio operates in analog mode for conventional , LTR[®]/ PassPort[®] Trunking or in digital mode : MOTOTRBO Conventional, IP Site Connect, Capacity Plus, Connect Plus
- Continuous Duty - 100 Watt High Power
- Migration path from analog to digital mode
- 16 Channel Operation (Remote Control Access limited to 15 Channels)
- RoHS (Restriction of Hazardous Substances) Compliant
- 6.25e, 12.5 or 25 kHz programmable channel spacing
- 1.5 PPM Frequency Stability

Please refer to the [MTR 3000 Specifications sheet](#) for detailed specs.

Ordering Requirements

The MTR3000 comes standard with :

- Integrated 8-100W Power Amplifier (Continuous Duty Cycle Operation)
- Basic Install and Service Manual
- Standard Two Year Warranty

Please refer to the [Sales & Ordering Guide](#) to refer to important rules regarding ordering the MTR3000

FCC Information

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
MTR3000 CAPACITY PLUS SW UPGRADE	Capacity Plus software enables single site trunking without a hardware controller. One HKLN4439 is required per base station to enable Capacity Plus single site trunking feature.	HKLN4439	422	\$1,917.00
MTR 3000 BASE RADIO	-	T3000	512	\$4,255.00

Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 800 MHZ 100W POWER (806-870)	-	X450MT	512	\$4,140.00
ADD: 900 MHZ 100W POWER (896-941)	-	X460MT	512	\$4,140.00
ADD : UHF 100W POWER (470-524)	-	X540MT	512	\$3,910.00

Cable(s)

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL PHONE PATCH CABLE	-	X244AK	512	\$50.00
	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This			

ADD: AUXILIARY SYSTEM CABLE	cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00
ADD: PHONE PATCH CABLE	-	X244AH	512	\$50.00
ADD: COMMUNITY REPEATER PANEL CABLE	-	X244AG	512	\$50.00
ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00

Conventional Station Operation

Description	Full Description	Nomenclature	APC	Price
ADD: BASE STATION OPERATION	Select 1 Station Operation. DOES NOT include Antenna Relay, if relay is required order X371. **Station Operation is required when operating in analog simplex mode Tx=Rx. MTR3000 does not support simplex in 800MHz and 900MHz bands.	X622	512	\$0.00

Duplexers

Description	Full Description	Nomenclature	APC	Price
ADD: DUPLEXER, UHF 494-512 MHZ	Freq separation rules 3MHz min/18MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UH	512	\$1,380.00
ADD: DUPLEXER, UHF 470-494 MHZ	Freq separation rules 3MHz min/24MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UN	512	\$1,380.00

ADD: DUPLEXER, 800 MHZ	-	X182EB	512	\$1,380.00
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Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00

Mounting

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153BA	512	\$75.00
ADD: CABINET MOUNT HARDWARE	The U178AB cabinet mount hardware option provides L-brackets which support the weight of the base radio prior to the insertion of the front mounting screws.	U178AB	512	\$100.00

Peripheral

Description	Full Description	Nomenclature	APC	Price
ADD: CIRCULATOR, UHF (470-524 MHZ)	-	X676UH	512	\$1,500.00
ADD: CIRCULATOR, 800 MHZ	-	X676EB	512	\$1,000.00
ADD: ANTENNA RELAY	-	X371BA	512	\$250.00

Power Cable

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00
	Station ships w/US domestic			

ADD: POWER CABLE BRAZIL	power cable unless ordering this option.	XA00040AA	512	\$0.00
ADD: POWER CABLE, EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00
ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00
ADD: POWER CABLE, AUSTRALIA	Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00

Preselectors

Description	Full Description	Nomenclature	APC	Price
ADD: PRESELECTOR, UHF (470-524 MHZ)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00

Wireline Options

Description	Full Description	Nomenclature	APC	Price
ADD: 4 WIRE WIRELINE	Supports 2 wire and 4 wire Analog. Needed for tone remote, DC remote, and voting.	X216AR	512	\$400.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00

Test Result (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
REPL BY: DSUSBFAB6 (HI-SPEED USB CABLE 6FT TYPE A -B)	This USB cable is used to program the MTR3000. It is a Type A to Type B USB which connects the base station/repeater to a PC. CPS Programming software is RVN5115.	DDN9957	454	\$20.00

Field Replaceable Units (FRU's) 800 MHz

Description	Full Description	Nomenclature	APC	Price
FRU 800/900 MHZ RECEIVER	DLN6716 Receiver can be used for both 800 and 900 MHz stations.	DLN6716	454	\$1,500.00
FRU 800/900MHZ 100W PA	DLN6714 Power Amp can be used for both 800 and 900 MHz stations.	DLN6714	454	\$3,450.00
FRU 800/900 MHZ EXCITER	DLN6715 Exciter can be used for both 800 and 900 MHz stations.	DLN6715	454	\$1,500.00

Field Replaceable Units (FRU's) Control/Wireline

Description	Full Description	Nomenclature	APC	Price
FRU STATION CONTROL OCXO	Replaces station control module with high stability. For 800/900 Mhz only. Region specific for North America.	DLN6718	454	\$1,600.00

FRU STATION CONTROL TCXO	For VHF and UHF only. Region specific for North America.	DLN6719	454	\$1,300.00
FRU 4 WIRE WIRELINE	-	DLN6720	454	\$450.00

Field Replaceable Units (FRU's) Power Supply

Description	Full Description	Nomenclature	APC	Price
FRU MTR3000 AC/DC POWER SUPPLY	-	DLN6707	454	\$1,000.00

Field Replaceable Units (FRU's) UHF

Description	Full Description	Nomenclature	APC	Price
FRU UHF 450-524 EXCITER	-	DLN6704	512	\$1,500.00
FRU UHF 403-470 EXCITER	-	DLN6703	454	\$1,500.00
FRU UHF 100W PA 403-470	-	DLN6701	454	\$3,500.00
FRU UHF 100W PA 470-524	-	DLN6702	454	\$3,450.00
FRU UHF 403-470 RECEIVER	-	DLN6705	454	\$1,500.00
FRU UHF 450-524 RECEIVER	-	DLN6706	512	\$1,500.00

Field Replaceable Units (FRU's) VHF

Description	Full Description	Nomenclature	APC	Price
FRU VHF100W PA 136-174 MHZ	-	DLN6710	454	\$3,450.00
FRU VHF 136-174 RECEIVER	-	DLN6713	454	\$1,500.00
FRU MTR3000 VHF 136-174 EXCITER	-	DLN6712	454	\$1,500.00

Field Replacement Units

Description	Full Description	Nomenclature	APC	Price
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MTR3000 EMEA OCXO FRU	Region specific for EMEA. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6760	454	\$1,600.00
MTR3000 APAC TCXO FRU	Region specific for APAC. For VHF and UHF only.	DLN6759	454	\$1,300.00
MTR3000 APAC OCXO FRU	Region specific for APAC. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6758	454	\$1,600.00
MTR3000 LACR TCXO FRU	Region specific for LACR. For VHF and UHF only.	DLN6756	454	\$950.00
MTR3000 LACR OCXO FRU	Region specific for LACR. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6757	454	\$940.00
MTR3000 EMEA TCXO FRU	Region specific for EMEA. For VHF and UHF only.	DLN6761	454	\$1,300.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	CDP	DDN9957	REPL BY: DSUSBFAB6 (HI-SPEED USB CABLE 6FT TYPE A -B)	454	2
FIXEDSTN	CDP	DLN6701	FRU UHF 100W PA 403-470	454	5
FIXEDSTN	SCB	DLN6701	FRU UHF 100W PA 403-470	454	2
FIXEDSTN	SCB	DLN6702	FRU UHF 100W PA 470-524	454	102
FIXEDSTN	CDP	DLN6703	FRU UHF 403-470 EXCITER	454	5

FIXEDSTN	SCB	DLN6703	FRU UHF 403-470 EXCITER	454	1
FIXEDSTN	SCB	DLN6704	FRU UHF 450-524 EXCITER	512	102
FIXEDSTN	SCB	DLN6705	FRU UHF 403-470 RECEIVER	454	20
FIXEDSTN	SCB	DLN6706	FRU UHF 450-524 RECEIVER	512	102
FIXEDSTN	SCB	DLN6707	FRU MTR3000 AC/DC POWER SUPPLY	454	4
FIXEDSTN	SCB	DLN6707	FRU MTR3000 AC/DC POWER SUPPLY	454	4
FIXEDSTN	SCB	DLN6710	FRU VHF100W PA 136-174 MHZ	454	15
FIXEDSTN	SCB	DLN6712	FRU MTR3000 VHF 136-174 EXCITER	454	20
FIXEDSTN	SCB	DLN6713	FRU VHF 136-174 RECEIVER	454	20
FIXEDSTN	SCB	DLN6714	FRU 800/900MHZ 100W PA	454	36
FIXEDSTN	SCB	DLN6715	FRU 800/900 MHZ EXCITER	454	20
FIXEDSTN	SCB	DLN6716	FRU 800/900 MHZ RECEIVER	454	20
FIXEDSTN	SCB	DLN6718	FRU STATION CONTROL OCXO	454	20
FIXEDSTN	CDP	DLN6719	FRU STATION CONTROL TCXO	454	5
FIXEDSTN	SCB	DLN6719	FRU STATION CONTROL TCXO	454	11
FIXEDSTN	SCB	DLN6720	FRU 4 WIRE WIRELINE	454	12
FIXEDSTN	SCB	DLN6720	FRU 4 WIRE WIRELINE	454	12
FIXEDSTN	SCB	DLN6756	MTR3000 LACR TCXO FRU	454	5
FIXEDSTN	SCB	DLN6757	MTR3000 LACR OCXO FRU	454	5
FIXEDSTN	SCB	DLN6758	MTR3000 APAC OCXO FRU	454	5
FIXEDSTN	SCB	DLN6759	MTR3000 APAC TCXO FRU	454	5

FIXEDSTN	SCB	DLN6760	MTR3000 EMEA OCXO FRU	454	5
FIXEDSTN	SCB	DLN6761	MTR3000 EMEA TCXO FRU	454	5
FIXEDSTN	CDP	HKLN4439	MTR3000 CAPACITY PLUS SW UPGRADE	422	1
FIXEDSTN	SCB	T3000	MTR 3000 BASE RADIO	512	25

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

MOSCAD NFM - Network Fault Management

Ordering Information

General Information

MOSCAD NFM (Network Fault Management) is an ASTRO sub-system consisting of SDM3000 hardware, Client Server Hardware & Software, Operator GUI Software and System Configuration Software. The MOSCAD NFM application provides customers with the capability to remotely monitor the status of infrastructure communications equipment located at RF sites distributed throughout an ASTRO system. Faults, failures, status, and metering information are automatically detected and sent to the MOSCAD GMC/GWS Server/Client system and the ASTRO UEM. The MOSCAD GMC/GWS also supports configuration and control capability of site equipment according to the capabilities of that equipment.

The SDM3000 Unit is designed for the A7.x ASTRO platform and ships with ASTRO A7.x systems. The NFM XC Unit is designed for the A4.1 and SmartNet platforms. The NFM XC Unit can be "dragged" forward up until an ASTRO A7.13 system however the NFM XC does not support IA (Information Assurance) requirements and does not support the G-Series site equipment. Guidance from ASTRO business planning is to replace the NFM XC with the SDM3000 when the Quantar Stations are replaced with the GTR Stations. SDM3000 Units and NFM XC Units can exist in the same ASTRO A7.x system and zone for existing systems, however, the NFM XC is no longer available starting in 2013. Therefore, the IP Gateway is also no longer available and has been replaced by the SNT.

Note: Starting A7.14, the NFM XC is not supported and only the SDM3000 will be supported.

MCC7500 AUX I-O utilizes the SDM3000 Basic unit with appropriate system release firmware option. More information can be found under the MCC7500 link.

For equipment list questions, please contact your system planner.

Ordering Requirements

Note: ALL NEW MOSCAD NFM systems must ship through CCSI

The MOSCAD NFM system consists of the following orderable elements:

1 - SDM3000 RTU (Site Manager Advanced), ASTRO firmware based on release, power option, punch block option.

NOTE: Licenses are ordered for each SDM3000 RTU.

2 - Licenses:

The SDM3000 interfaces to a wide variety of devices at each site.

2a - The RTU license option is ALWAYS required. Order Qty. 1 F2463

RTU_PER_DEVICE_SW_LICENSES per SDM3000 RTU.

Select device license options with quantities matching the quantity of each device the SDM3000 interfaces to at that site. This allows an ST to view alarms from all selected devices. If alarms will only be sent to the UEM, only the RTU License option is required.

2b - The GMC License option is ONLY required when the alarms must be sent to the GMC Manager. Order Qty. 1 F4528 GMC_PER_DEVICE_SW_LICENSES per SDM3000 RTU.

The GMC device license options and quantities should match the RTU license options and quantities. Order total number of options for devices interfacing to the SDM3000 which will be supported by the GMC.

3 - SDM3000 Expansion unit, power option, punch block option

4 - SNT SDM Network Translator (Site Manager Advanced), SNT firmware based on release, power option

The SNT replaces the IP Gateway starting with the ASTRO A7.5 release. When upgrading to ASTRO A7.5 and above follow these guidelines:

- If the system consists of SDM3000 units only, replace the IP Gateway with the SNT (SDM Network Translator).
- If the system consists of XC units only, do NOT replace the IP Gateway with the SNT (SDM Network Translator).
- If the system consists of both XC units and SDM units, the existing IP Gateway will be used with the XC units and a new SNT (SDM Network Translator) will be required for the SDM units.

5 - GMC Manager and Software

5a - Release - A7.8 and earlier

- ML110G-Series Win2003 HP Server
- MOSCAD NFM Application S/W. Version based on ASTRO release
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release
- Microsoft SQL2005 S/W
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required

5b - Release - A7.9/11

The GMC Manager is virtualized on the Common Platform Hardware for the ASTRO A7.9 release.

This means that all required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance item number.

This also means that in the M-Core and L-Core systems the GMC application and all software will be installed on the Common Platform Hardware.

In K-Core there is no Common Platform Hardware so the option to order the rack server hardware must be selected.

- M1/M2/M3 Core - GMC Virtual Appliance software
- L Core - GMC Virtual Appliance software

- K Core and IP non-ASTRO - GMC Virtual Appliance software and DL360 hardware option

5d - Release - A7.12

The GMC Manager is only released for K-Core, IP non-ASTRO, and A3.1.

(For reference, ASTRO 3.1 refers to non-core non-IP systems infrastructure, which can be conventional digital, conventional analog or conventional mixed mode. This is the conventional architecture that shipped prior to ASTRO 25 7.X. See additional details in the A7.12 GMC Manager system planner.)

All required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance item number.

In K-Core there is no Common Platform Hardware so the option to order the rack server hardware must be selected.

- K Core and IP non-ASTRO - GMC Virtual Appliance item and DL360 server option (selected from MOSCAD NFM Price Page)
- A3.1 - GMC Virtual Appliance item and DL360 server option and Terminal Server (selected from MOSCAD NFM Price Page)

5e - Release - A7.13

The GMC Manager is released for M/L/K-Core, IP non-ASTRO, and A3.1.

(For reference, ASTRO 3.1 refers to non-core non-IP systems infrastructure, which can be conventional digital, conventional analog or conventional mixed mode. This is the conventional architecture that shipped prior to ASTRO 25 7.X. See additional details in the A7.13 GMC Manager system planner.)

All required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance software number.

M1/M2/M3 Cores

- Order as an option to the NEW M1/M2/M3 Master Site Core Part Number (SQM01SUM0226A), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the DSR M-3 Master Site Core Part Number (SQM01SUM0231A), CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the ADD-ON M1/M2/M3 Master Site Core Part Number (SQM01SUM0239A) CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the UPGRADE M1/M2/M3 Master Site (SQM01SUM0239A) CA02155AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$12,800)

L1/L2 Cores

- Order as an option to the NEW L1 Master Site Core Part Number (SQM01SUM0235), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the NEW L2 Master Site Core Part Number (SQM01SUM0234), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the UPGRADE L1/2 Master Site Core Part Number (SQM01SUM0240), add option CA02155AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$12,800)
- Order as an option to the ADD-ON L1/2 Master Site Core Part Number (SQM01SUM0240), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

K1/K2 Cores

- Order as an option to the K1 Master Site Core Part Number (SQM01SUM0237A), add

- option CA01992AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)
- Order as an option to the K2 Master Site Core Part Number (SQM01SUM0236A), add option CA01992AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

Non ASTRO Cores

- IP non-ASTRO - Select GMC Virtual Appliance item and DL360 server option (selected from MOSCAD NFM Price Page)
- A3.1 - Select GMC Virtual Appliance item and DL360 server option and Terminal Server (selected from MOSCAD NFM Price Page)

5f - Release - A7.14 and beyond

Please refer to the 7.14 Ordering Guide: <http://compass.mot-solutions.com/go/463146013>

Please refer to the 7.15 Ordering Guide: <http://compass.mot-solutions.com/go/488328676>

Please refer to the 7.16 Fault Management Ordering Guide: <https://converge.motorolasolutions.com/groups/astro25-network-managemen/overview>

Please refer to the 7.17 Fault Management Ordering Guide: <https://converge.motorolasolutions.com/groups/astro25-network-managemen/overview>

6 - GWS Client and Software

6a - Release - A7.8 and earlier

- Z400 Series Vista HP Client
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release

6b - Release - A7.9/11/12

- Z400 Series Vista HP Client (A7.9)
- Z400 Series Win7 HP Client (A7.11)
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required
- SCADALARM Paging S/W with Modem

6c - Release - A7.13/14/15/16

- Z420 Series Win7 HP Client (A7.11)
- InTouch S/W. Version supported on ASTRO release
- McAfee Anti Virus S/W supported on ASTRO release
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required
- SCADALARM Paging S/W with Modem

The [Network Management Wiki Site](#) always has the most up to date MOSCAD NFM

ordering guides.

Key items to ensure the correct software is received for a new release

- Refresh quotes older than 90 days to ensure model numbers are current!
- Select "Ship Partial" when ordering to allow hardware to ship before software.
- Always check the [SIO Wiki Site](#) for the most up to date MOSCAD NFM ordering guides.

Configuration

NFM Models for SDM3000

SDM3000 Models and Firmware for NFM

(Software DVD contains all previous releases)

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00
SM IO EXPANSION BASIC	-	F4547	469	\$900.00
SM IO EXPANSION ADVANCED	-	F4548	469	\$1,200.00
ADD: SDM ASTRO RTU FW CURR ASTRO REL	-	VA00872	469	\$1,850.00

SNT (SDM Network Translator)

(Loaded at Factory and Software DVD contains all previous releases)

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00
ADD: SDM SNT FW CURR ASTRO REL	-	VA00873	469	\$3,850.00

R-MUX Models

Description	Full Description	Nomenclature	APC	Price
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R-MUX 1001	The R-MUX Port Expander, which can be connected to both the MultiPort and the 48DI, provides port expansion by multiplexing up to 16 additional RS232 serial ports. The R-MUX 1001 multiplexes all external RS232 ports onto a single NFM XC port. The unit comes with 8 serial ports and can be increased in groups of four to 16 by using the appropriate option. An optional Ethernet/IP port with serial port can be added.	F4558	469	\$1,200.00
R-MUX 1004	The R-MUX Port Expander, which can be connected to both the MultiPort and the 48DI, provides port expansion by multiplexing up to 16 additional RS232 serial ports. The R-MUX 1004 multiplexes ports in groups of four onto each NFM XC port. The unit comes with 8 serial ports and can be increased in groups of four to 16 by using the appropriate option. An optional Ethernet/IP port with serial port can be added to both models.	F4568	469	\$900.00

Software Upgrade/Downgrade

Description	Full Description	Nomenclature	APC	Price
SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	-	T7955	382	\$0.00
ADD: SDM3000_ASTRO_RTU FIRMWARE UPGRADE	-	CA02401AA	382	\$925.00
ADD: SDM3000_SNT FIRMWARE UPGRADE	-	CA02402AA	382	\$1,925.00
ADD: SDM3000_ASTRO_RTU AND SDM3000_SNT FIRMWARE DOWNGRADE	-	CA02403AA	382	\$50.00
ADD: SDM3000 CONFIGURATION SOFTWARE AND FIRMWARE RECOVERY DVD	-	CA02404AA	382	\$25.00

Standalone Fault Manager

A7.16 UEM Lite for Standalone 7.x Conventional Systems

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Description	Full Description	Nomenclature	APC	Price
ASTRO STANDALONE FAULT MANAGEMENT	-	SQM01SUM0286	382	\$0.00
ADD: NEW 7.16 STANDALONE FAULT MANAGEMENT	-	CA02891AA	382	\$0.00
ADD: EXPAND 7.16 STANDALONE FAULT MANAGEMENT	-	CA02892AA	382	\$0.00
ADD: APPLICATION SERVER	-	CA02258AB	425	\$20,000.00
VMWARE LICENSE	-	T8208	405	\$0.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

UEM Lite Client

Description	Full Description	Nomenclature	APC	Price
ASTRO LITE CLIENT APPL SW 7.16	-	T8340	405	\$700.00
HYPERACCESS VERSION 9.0	-	TT2296	708	\$408.00
SERIAL/ IP 1 PORT SEAT LICENSE	THIS SOFTWARE IS DELIVERED ELECTRONICALLY VIA EMAIL ONLY. PLEASE CONTACT MIKE NOWAKOWSKI AT MNOWA01@MOTOROLA.COM FOR DELIVERY.	DDN9048	708	\$176.00

GMC Manager Virtual Appliance

A7.13 Release for IP non-ASTRO and A3.1

Required DL360 Server for IP non-ASTRO and A3.1

Description	Full Description	Nomenclature	APC	Price
MOSCAD NFM VIRTUAL APP A7.13 & A3.1	-	SQM01SUM0232	382	\$0.00
MOSCAD NFM VIRT APP A7.13 A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability.	CA02102AA	382	\$28,453.00
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00

A7.14 Release for IP non-ASTRO and A3.1

Required DL360 Server for IP non-ASTRO and A3.1

Description	Full Description	Nomenclature	APC	Price
MOSCAD NFM VIRTUAL APP A7.14_A3.1	-	SQM01SUM0259	382	\$0.00
ADD: MOSCAD NFM VIRTUAL APP A7.14_A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability. Please see	CA02399AA	382	\$28,453.00

	the MOSCAD NFM ordering guide for required client hardware & software and for the SDM3000 RTU and licenses. For M1 Cores, you can order a maximum quantity of two (2).			
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00

A7.15 Release for IP non-ASTRO and A3.1

Required DL360 Server for IP non-ASTRO and A3.1

Description	Full Description	Nomenclature	APC	Price
MOSCAD NFM VIRTUAL APP A7.14_A3.1	-	SQM01SUM0259	382	\$0.00
ADD: MOSCAD NFM VIRTUAL APP A7.15_A3.1	-	CA02634AA	382	\$28,453.00
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00

A7.16 Release for IP non-ASTRO

Description	Full Description	Nomenclature	APC	Price
ASTRO STANDALONE FAULT MANAGEMENT UPGRADE	-	SQM01SUM0291	382	\$0.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14_15 TO 7.16_UEM LITE	-	CA02909AA	382	\$12,800.00

GMC and RTU Licenses

Device Interface Licenses Authorizing Customer Use of SDMBUILDER S/W with the Device

Description	Full Description	Nomenclature	APC	Price

RTU_SW_LIC_PER_NFM-RTU_I-O	Device Display License for Site Builder & SDM Builder	V839	382	\$110.00
GMC_SW_LIC_PER_TRAK_GPS	Device Display License for GMC/GWS S/W	V838	382	\$240.00
RTU_SW_LIC_PER_GCM8000_COMP	Device Display License for Site Builder & SDM Builder	V835	382	\$110.00
RTU_SW_LIC_PER_TENSR-IMACS_CONFIG	Device Display License for Site Builder & SDM Builder	V834	382	\$110.00
RTU_SW_LIC_PER_TENSR/IMACS	Device Display License for Site Builder & SDM Builder	V833	382	\$110.00
RTU_SW_LIC_PER_MUT_AID_QUANTAR	Device Display License for Site Builder & SDM Builder	V832	382	\$110.00
RTU_SW_LIC_PER_QUANTAR_CONFIG	Device Display License for Site Builder & SDM Builder	V831	382	\$110.00

RTU_SW_LIC_PER_STR3000_MS_BR	Device Display License for Site Builder & SDM Builder	V844	382	\$110.00
GMC_SW_LIC_PER_A-TAC_9600_COMP	Device Display License for GMC/GWS S/W	V846	382	\$240.00
RTU_SW_LIC_PER_QUANTAR_RS_BR	Device Display License for Site Builder & SDM Builder	V845	382	\$110.00
RTU_SW_LIC_PER_MNI_M-W_RADIO	Device Display License for Site Builder & SDM Builder	V840	382	\$325.00
GMC_SW_LIC_PER_ALCATEL_M-W_RAD	Device Display License for GMC/GWS S/W	V812	382	\$360.00
GMC_SW_LIC_PER_HARRIS_M-W_RADIO	Device Display License for GMC/GWS S/W	V811	382	\$360.00
GMC_SW_LIC_PER_MTC9600_MS_CONTR	Device Display License for GMC/GWS S/W and for Site Builder & SDM Builder	V520	382	\$240.00
	For G-			

GMC_SW_LIC_PER_RFDS.	Series RF sites only. RF Distribution System can be monitored by the SDM3000 and forwarded to the Site Controller for disposition. RFDS is configured and monitored on the web-based interface included with the SDM3000	VA00300	382	\$240.00
GMC_SW_LIC_PER_EFRATOM_GPS	-	VA00306	382	\$240.00
GMC_SW_LIC_PER_CEB	-	VA00304	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_RCVR	-	VA00309	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_MUX	-	VA00307	382	\$360.00
GMC_SW_LIC_PER_A-TAC_RCVR	-	VA00308	382	\$240.00
GMC_SW_LIC_PER_GCP8000_HPD_S_CONTR	-	VA00319	382	\$240.00
GMC_SW_LIC_PER_GCP8000_S_CONTR	-	VA00318	382	\$240.00
GMC_SW_LIC_PER_GTR8000_RS_BR	-	VA00315	382	\$240.00
GMC_SW_LIC_PER_STR3000_RS_BR	-	VA00314	382	\$240.00
GMC_SW_LIC_PER_GTR8000_HPD_BR	-	VA00316	382	\$240.00

GMC_SW_LIC_PER_QUANTAR_MS_BR	-	VA00312	382	\$240.00
RTU_SW_LIC_PER_ALCATEL_POLL_ENG	-	VA00320	382	\$600.00
RTU_SW_LIC_PER_RTU_IN_DSR_ZONE	-	VA00362	382	\$250.00
RTU_SW_LIC_PER_GCP8000_MS_CONTR	-	VA00325	382	\$240.00
GMC_SW_LIC_PER_STR3000_MS_BR	Device Display License for GMC/GWS S/W	V804	382	\$240.00
GMC_SW_LIC_PER_GTR8000_CONV_BR	-	VA00321	382	\$240.00
RTU SW LIC PER PPP SNMP LINK	-	VA00372	382	\$250.00
GMC_SW_LIC_PER_GCP8000_MS_CONTR	Device Display License for GMC/GWS S/W	V206	382	\$240.00
RTU_PER_DEVICE_SW_LICENSES	Device Interface Licenses Authorizing Customer Use of the Site Builder S/W or SDM Builder S/W with the Device	F2463	382	\$75.00

Device Interface Licenses Authorizing Customer Use of the GMC/GWS S/W to Display the Device

Description	Full Description	Nomenclature	APC	Price
GMC_SW_LIC_PER_TRAK_GPS	Device Display License for GMC/GWS	V838	382	\$240.00

	S/W			
GMC_SW_LIC_PER_ALCATEL_POLL_ENG	Device Display License for GMC/GWS S/W	V377	382	\$600.00
GMC_SW_LIC_PER_GTR8000_MS_BR	Device Display License for GMC/GWS S/W	V843	382	\$240.00
GMC_SW_LIC_PER_A-TAC_9600_COMP	Device Display License for GMC/GWS S/W	V846	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_M-W_RAD	Device Display License for GMC/GWS S/W	V812	382	\$360.00
GMC_PER_DEVICE_SW_LICENSES	-	F4528	382	\$75.00
GMC_SW_LIC_PER_HARRIS_M-W_RADIO	Device Display License for GMC/GWS S/W	V811	382	\$360.00
GMC_SW_LIC_PER_NFM-RTU_I-O	Device Display License for GMC/GWS S/W	V809	382	\$240.00
GMC_SW_LIC_PER_MTC9600_MS_CONTR	Device Display License for GMC/GWS S/W and for Site Builder & SDM Builder	V520	382	\$240.00

GMC_SW_LIC_PER_RFDS.	For G-Series RF sites only. RF Distribution System can be monitored by the SDM3000 and forwarded to the Site Controller for disposition. RFDS is configured and monitored on the web-based interface included with the SDM3000	VA00300	382	\$240.00
GMC_SW_LIC_PER_TENSR-IMACS_CONFIG	-	VA00305	382	\$240.00
GMC_SW_LIC_PER_EFRATOM_GPS	-	VA00306	382	\$240.00
GMC_SW_LIC_PER_CEB	-	VA00304	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_RCVR	-	VA00309	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_MUX	-	VA00307	382	\$360.00
GMC_SW_LIC_PER_A-TAC_RCVR	-	VA00308	382	\$240.00
GMC_SW_LIC_PER_GCP8000_HPD_S_CONTR	-	VA00319	382	\$240.00
GMC_SW_LIC_PER_GCP8000_S_CONTR	-	VA00318	382	\$240.00
GMC_SW_LIC_PER_GTR8000_RS_BR	-	VA00315	382	\$240.00
GMC_SW_LIC_PER_STR3000_RS_BR	-	VA00314	382	\$240.00

GMC_SW_LIC_PER_PSC9600_RS_CONTR	-	VA00317	382	\$240.00
GMC_SW_LIC_PER_GTR8000_HPD_BR	-	VA00316	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_CONFIG	-	VA00311	382	\$240.00
GMC_SW_LIC_PER_GCM8000_COMP	-	VA00310	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_RS_BR	-	VA00313	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_MS_BR	-	VA00312	382	\$240.00
GMC_SW_LIC_PER_GMC_IN_DSR_ZONE	-	VA00363	382	\$2,500.00
GMC_SW_LIC_PER_GWS_IN_DSR_ZONE	-	VA00364	382	\$500.00
GMC_SW_LIC_PER_TENSR/IMACS	Device Display License for GMC/GWS S/W	V803	382	\$240.00
GMC_SW_LIC_PER_STR3000_MS_BR	Device Display License for GMC/GWS S/W	V804	382	\$240.00
GMC_SW_LIC_PER_MUT_AID_QUANTAR	Device Display License for GMC/GWS S/W	V801	382	\$240.00
GMC_SW_LIC_PER_GTR8000_CONV_BR	-	VA00321	382	\$240.00
GMC_SW_LIC_PER_GCP8000_MS_CONTR	Device Display License for GMC/GWS S/W	V206	382	\$240.00
	Device Display			

GMC_SW_LIC_PER_MNI_M-W_RADIO	License for GMC/GWS S/W	V283	382	\$360.00
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OPTIONS for SDM3000 and R-MUX

Add options as defined in the Ordering Guides located at [SIO Wiki Site](#) to assist in choosing valid options.

SDM3000 Power Supply Options for RTU, AUX I-O & SNT

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

SDM3000 Punch Block Termination for RTU and AUX I-O

Description	Full Description	Nomenclature	APC	Price
AAD TERM BLCK & CONN WI	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00

Terminal Server required A3.1 non-IP non-ASTRO solutions

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00

R-MUX Options

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Description	Full Description	Nomenclature	APC	Price
ADD : 4OUT TO R-MUX	This option adds 4 additional serial RS-232 ports to the R-MUX 1001 or 4 additional serial RS-232 with a multiplex port for the R-MUX 1004. A quantity of 2 of this option (max per model qty of 1) provides 8 additional serial ports for the R-MUX 1001 and 2 sets of 4 serial ports, each set with a multiplex port.	V582	469	\$300.00
ADD : IP INTERFACE TO R-MUX	This option adds a stand alone IP interface with an RS-232 serial port to the R-MUX models. Max of one per R-MUX unit.	V527	469	\$440.00

Additional InTouch Software, Computer, and Antivirus

InTouch10.0 (A7.5/A7.6/A7.7)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME WITH I/O V10.0 SW	-	TT2032	708	\$10,900.00
INTOUCH RUNTIME W/O I/O V10.0 SW	-	TT2033	708	\$8,700.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	-	TT2034	708	\$18,700.00
INTOUCH RUNTIME WITH I/O UPGRADE TO V10.0	-	TT2035	708	\$5,500.00
INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	-	TT2036	708	\$4,400.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED UPGRADE TO V10.0 SW	-	TT2037	708	\$11,300.00
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00
INTOUCH V10.0 FOR A7.6/7/8 MEDIA CD	-	TT2287	708	\$31.00

InTouch10.1 (A7.8/A7.9/A7.11/A7.12/A7.13/A7.14/A7.15/A7.16)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME 60K TAG W-I/O, V10.1, LIC ONLY	-	TT2176	708	\$10,900.00
INTOUCH RUNTIME 60K TAG W/O-I/O, V10.1, LIC ONLY	-	TT2177	708	\$8,700.00
INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	-	TT2180	708	\$18,700.00
UPGRADE, INTOUCH DEV 60K TAG PRE-V10.0 TO V10.1, LIC ONLY	-	TT2182	708	\$11,300.00
UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	-	TT2183	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2184	708	\$5,500.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	-	TT2185	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2186	708	\$4,400.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	-	TT2187	708	\$0.00

Other S/W:

Description	Full Description	Nomenclature	APC	Price
HYPERACCESS VERSION 9.0	-	TT2296	708	\$408.00
SERIAL/ IP 1 PORT SEAT LICENSE	THIS SOFTWARE IS DELIVERED ELECTRONICALLY VIA EMAIL ONLY. PLEASE CONTACT MIKE NOWAKOWSKI AT MNOWA01@MOTOROLA.COM FOR DELIVERY.	DDN9048	708	\$176.00

Anti Virus S/W:

Refer to the **INFORMATION ASSURANCE ECAT Price Page** for the current Antivirus for your System:

(Path: Network Security --> [Network Security ASTRO 7x SYSTEMS](#))

Power Supplies

Description	Full Description	Nomenclature	APC	Price
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Computers for GMC Client**Alcatel Microwave Radio Polling Engine****ACCESSORIES for NFM Systems****Cables**

Description	Full Description	Nomenclature	APC	Price
NFM-XC TO R-MUX DC POWER CABLE.	-	FKN8080	455	\$5.00
MDLC GATEWAY POWER CABLE	-	FKN4411	455	\$12.00
FLAT OVAL 2.5M	-	FKN4400	455	\$17.00
RS-232 SDM3000 COMMM. TEST CABLE	-	FKN8360	454	\$6.50

Modules

Description	Full Description	Nomenclature	APC	Price
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Field Add-on Units

Description	Full Description	Nomenclature	APC	Price
ADD:4 OUTPUTS TO R-MUX 1004	-	FLN3059	469	\$350.00
	This is the punch block termination for use with the			

TERM BLOCK & CONN WIRED M25T68	SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	FHN1668	454	\$90.00
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Manuals

Note: Starting with A7.11 all manuals are included with the applicable SW and are not ordered separately.

Description	Full Description	Nomenclature	APC	Price
NFM R-MUX 1001&1004 OWNER'S MANUAL	-	6802965C60	455	\$12.00
SDM3000 USER AND SERVICE MANUAL FOR A6.10/7.4	-	9808901C87	469	\$20.00
SDM3000 OWNERS MANUAL FOR A6.10/7.4	-	9808901C88	469	\$20.00
GMC/GWS MANUAL FOR A7.5	-	6871769Y02	469	\$20.00
SDM3000 USER AND SERVICE MANUAL FOR A7.5	-	6871769Y03	469	\$20.00
SDM3000 OWNER MANUAL FOR A7.5	-	6871769Y04	469	\$20.00
GMC/GWS OPERATOR MANUAL FOR MOSCAD NFM A7.6	-	6871769Y07	469	\$20.00
SDM3000 OWNERS MANUAL AND SERVICE MANUAL FOR A7.6	-	6871769Y08	469	\$20.00
SDM3000 OWNERS MANUAL FOR A7.6	-	6871769Y09	469	\$20.00
NFM FOR A7.7 DOCUMENTATION	-	6871769Y16	469	\$20.00
NFM DOCUMENTATION CD FOR A7.8	-	6871769Y24	469	\$20.00
NFM FOR A7.9 DOCUMENTATION	-	6871769Y27	469	\$20.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ALARMCONT	ISR	6802965C60	NFM R-MUX 1001&1004 OWNER'S MANUAL	455	20
FIXEDDATA	ISR	6871769Y02	GMC/GWS MANUAL FOR A7.5	469	20
FIXEDDATA	ISR	6871769Y03	SDM3000 USER AND SERVICE MANUAL FOR A7.5	469	20
FIXEDDATA	ISR	6871769Y04	SDM3000 OWNER MANUAL FOR A7.5	469	20
FIXEDDATA	ISR	6871769Y07	GMC/GWS OPERATOR MANUAL FOR MOSCAD NFM A7.6	469	10
FIXEDDATA	ISR	6871769Y08	SDM3000 OWNERS MANUAL AND SERVICE MANUAL FOR A7.6	469	10
FIXEDDATA	ISR	6871769Y09	SDM3000 OWNERS MANUAL FOR A7.6	469	10
FIXEDDATA	ISR	6871769Y16	NFM FOR A7.7 DOCUMENTATION	469	20
FIXEDDATA	ISR	6871769Y24	NFM DOCUMENTATION CD FOR A7.8	469	20
FIXEDDATA	ISR	6871769Y27	NFM FOR A7.9 DOCUMENTATION	469	20
FIXEDDATA	ISR	9808901C87	SDM3000 USER AND SERVICE MANUAL FOR A6.10/7.4	469	20
			SDM3000 OWNERS MANUAL FOR		

FIXEDDATA	ISR	9808901C88	A6.10/7.4	469	20
QUOTEDS	SHK	DDN9048	SERIAL/ IP 1 PORT SEAT LICENSE	708	2
ALARMCONT	ISR	F2463	RTU_PER_DEVICE_SW_LICENSES	382	11
ALARMCONT	ISR	F2463	RTU_PER_DEVICE_SW_LICENSES	382	11
FIXEDDATA	ISR	F4528	GMC_PER_DEVICE_SW_LICENSES	382	10
FIXEDDATA	ISR	F4528	GMC_PER_DEVICE_SW_LICENSES	382	10
FIXEDDATA	ISR	F4544	SITE MANAGER ADVANCED	469	13
FIXEDDATA	ISR	F4544	SITE MANAGER ADVANCED	469	13
FIXEDDATA	ISR	F4547	SM IO EXPANSION BASIC	469	20
FIXEDDATA	ISR	F4548	SM IO EXPANSION ADVANCED	469	8
ALARMCONT	ISR	F4558	R-MUX 1001	469	21
ALARMCONT	ISR	F4568	R-MUX 1004	469	28
FIXEDDATA	ISR	FHN1668	TERM BLOCK & CONN WIRED M25T68	454	10
SYSPERIPH	RNS	FKN4400	FLAT OVAL 2.5M	455	11
SYSPERIPH	ISR	FKN4400	FLAT OVAL 2.5M	455	28
ALARMCONT	ISR	FKN4411	MDLC GATEWAY POWER CABLE	455	23
ALARMCONT	ISR	FKN8080	NFM-XC TO R-MUX DC POWER CABLE.	455	11
FIXEDDATA	ISR	FKN8360	RS-232 SDM3000 COMMM. TEST CABLE	454	11
ALARMCONT	ISR	FLN3059	ADD:4 OUTPUTS TO R-MUX 1004	469	30
FIXEDDATA	ISR	FPN1638	90 VAC TO 260VAC PS TO SM KIT	454	9

ALARMCONT	SCB	SQM01SUM0232	MOSCAD NFM VIRTUAL APP A7.13 & A3.1	382	40
ALARMCONT	SCB	SQM01SUM0259	MOSCAD NFM VIRTUAL APP A7.14_A3.1	382	40
CNTLPATH	SCB	SQM01SUM0286	ASTRO STANDALONE FAULT MANAGEMENT	382	30
CNTLPATH	SCB	SQM01SUM0291	ASTRO STANDALONE FAULT MANAGEMENT UPGRADE	382	10
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
ALARMCONT	SCB	T7955	SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	382	3
FIXEDSTN	SCB	T8208	VMWARE LICENSE	405	25
CNTLPATH	SCB	T8340	ASTRO LITE CLIENT APPL SW 7.16	405	30
QUOTEDS	AID	TT1964	SCADALARM PAGING WITH MODEM V6.0	708	2
QUOTEDS	AID	TT2032	INTOUCH RUNTIME WITH I/O V10.0 SW	708	1
QUOTEDS	AID	TT2033	INTOUCH RUNTIME W/O I/O V10.0 SW	708	1
QUOTEDS	AID	TT2034	INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	708	4
QUOTEDS	AID	TT2035	INTOUCH RUNTIME WITH I/O UPGRADE TO V10.0	708	23
QUOTEDS	AID	TT2036	INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	708	11
QUOTEDS	AID	TT2037	INTOUCH DEVELOPMENT STUDIO UNLIMITED UPGRADE TO V10.0 SW	708	30

QUOTEDS	AID	TT2176	INTOUCH RUNTIME 60K TAG W-I/O, V10.1, LIC ONLY	708	7
QUOTEDS	AID	TT2177	INTOUCH RUNTIME 60K TAG W/O- I/O, V10.1, LIC ONLY	708	1
QUOTEDS	AID	TT2180	INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	708	5
QUOTEDS	AID	TT2182	UPGRADE, INTOUCH DEV 60K TAG PRE-V10.0 TO V10.1, LIC ONLY	708	35
QUOTEDS	AID	TT2183	UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	708	11
QUOTEDS	AID	TT2184	UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1,LIC ONLY	708	2
QUOTEDS	AID	TT2185	UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	708	11
QUOTEDS	AID	TT2186	UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	708	35
QUOTEDS	AID	TT2187	UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	708	6
QUOTEDS	AID	TT2287	INTOUCH V10.0 FOR A7.6/7/8 MEDIA CD	708	11
QUOTEDS	SHK	TT2296	HYPERACCESS VERSION 9.0	708	4

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model

MOSCAD NFM - Network Fault Management

Ordering Information

General Information

MOSCAD NFM (Network Fault Management) is an ASTRO sub-system consisting of SDM3000 hardware, Client Server Hardware & Software, Operator GUI Software and System Configuration Software. The MOSCAD NFM application provides customers with the capability to remotely monitor the status of infrastructure communications equipment located at RF sites distributed throughout an ASTRO system. Faults, failures, status, and metering information are automatically detected and sent to the MOSCAD GMC/GWS Server/Client system and the ASTRO UEM. The MOSCAD GMC/GWS also supports configuration and control capability of site equipment according to the capabilities of that equipment.

The SDM3000 Unit is designed for the A7.x ASTRO platform and ships with ASTRO A7.x systems. The NFM XC Unit is designed for the A4.1 and SmartNet platforms. The NFM XC Unit can be "dragged" forward up until an ASTRO A7.13 system however the NFM XC does not support IA (Information Assurance) requirements and does not support the G-Series site equipment. Guidance from ASTRO business planning is to replace the NFM XC with the SDM3000 when the Quantar Stations are replaced with the GTR Stations. SDM3000 Units and NFM XC Units can exist in the same ASTRO A7.x system and zone for existing systems, however, the NFM XC is no longer available starting in 2013. Therefore, the IP Gateway is also no longer available and has been replaced by the SNT.

Note: Starting A7.14, the NFM XC is not supported and only the SDM3000 will be supported.

MCC7500 AUX I-O utilizes the SDM3000 Basic unit with appropriate system release firmware option. More information can be found under the MCC7500 link.

For equipment list questions, please contact your system planner.

Ordering Requirements

Note: ALL NEW MOSCAD NFM systems must ship through CCSI

The MOSCAD NFM system consists of the following orderable elements:

1 - SDM3000 RTU (Site Manager Advanced), ASTRO firmware based on release, power option, punch block option.

NOTE: Licenses are ordered for each SDM3000 RTU.

2 - Licenses:

The SDM3000 interfaces to a wide variety of devices at each site.

2a - The RTU license option is ALWAYS required. Order Qty. 1 F2463 RTU_PER_DEVICE_SW_LICENSES per SDM3000 RTU.

Select device license options with quantities matching the quantity of each device the SDM3000 interfaces to at that site. This allows an ST to view alarms from all selected devices. If alarms will only be sent to the UEM, only the RTU License option is required.

2b - The GMC License option is ONLY required when the alarms must be sent to the GMC Manager. Order Qty. 1 F4528 GMC_PER_DEVICE_SW_LICENSES per SDM3000 RTU. The GMC device license options and quantities should match the RTU license options and quantities. Order total number of options for devices interfacing to the SDM3000 which will

be supported by the GMC.

3 - SDM3000 Expansion unit, power option, punch block option

4 - SNT SDM Network Translator (Site Manager Advanced), SNT firmware based on release, power option

The SNT replaces the IP Gateway starting with the ASTRO A7.5 release. When upgrading to ASTRO A7.5 and above follow these guidelines:

- If the system consists of SDM3000 units only, replace the IP Gateway with the SNT (SDM Network Translator).
- If the system consists of XC units only, do NOT replace the IP Gateway with the SNT (SDM Network Translator).
- If the system consists of both XC units and SDM units, the existing IP Gateway will be used with the XC units and a new SNT (SDM Network Translator) will be required for the SDM units.

5 - GMC Manager and Software

5a - Release - A7.8 and earlier

- ML110G-Series Win2003 HP Server
- MOSCAD NFM Application S/W. Version based on ASTRO release
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release
- Microsoft SQL2005 S/W
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required

5b - Release - A7.9/11

The GMC Manager is virtualized on the Common Platform Hardware for the ASTRO A7.9 release.

This means that all required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance item number.

This also means that in the M-Core and L-Core systems the GMC application and all software will be installed on the Common Platform Hardware.

In K-Core there is no Common Platform Hardware so the option to order the rack server hardware must be selected.

- M1/M2/M3 Core - GMC Virtual Appliance software
- L Core - GMC Virtual Appliance software
- K Core and IP non-ASTRO - GMC Virtual Appliance software and DL360 hardware option

5d - Release - A7.12

The GMC Manager is only released for K-Core, IP non-ASTRO, and A3.1.

(For reference, ASTRO 3.1 refers to non-core non-IP systems infrastructure, which can be conventional digital, conventional analog or conventional mixed mode. This is the conventional architecture that shipped prior to ASTRO 25 7.X. See additional details in the A7.12 GMC Manager system planner.)

All required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance item number.

In K-Core there is no Common Platform Hardware so the option to order the rack server hardware must be selected.

- K Core and IP non-ASTRO - GMC Virtual Appliance item and DL360 server option (selected from MOSCAD NFM Price Page)

- A3.1 - GMC Virtual Appliance item and DL360 server option and Terminal Server (selected from MOSCAD NFM Price Page)

5e - Release - A7.13

The GMC Manager is released for M/L/K-Core, IP non-ASTRO, and A3.1.

(For reference, ASTRO 3.1 refers to non-core non-IP systems infrastructure, which can be conventional digital, conventional analog or conventional mixed mode. This is the conventional architecture that shipped prior to ASTRO 25 7.X. See additional details in the A7.13 GMC Manager system planner.)

All required software which was included in pre-A7.9 releases (except SCADAAlarm) is bundled in one Virtual Appliance software number.

M1/M2/M3 Cores

- Order as an option to the NEW M1/M2/M3 Master Site Core Part Number (SQM01SUM0226A), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the DSR M-3 Master Site Core Part Number (SQM01SUM0231A), CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the ADD-ON M1/M2/M3 Master Site Core Part Number (SQM01SUM0239A) CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the UPGRADE M1/M2/M3 Master Site (SQM01SUM0239A) CA02155AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$12,800)

L1/L2 Cores

- Order as an option to the NEW L1 Master Site Core Part Number (SQM01SUM0235), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the NEW L2 Master Site Core Part Number (SQM01SUM0234), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the UPGRADE L1/2 Master Site Core Part Number (SQM01SUM0240), add option CA02155AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$12,800)

- Order as an option to the ADD-ON L1/2 Master Site Core Part Number (SQM01SUM0240), add option CA02102AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

K1/K2 Cores

- Order as an option to the K1 Master Site Core Part Number (SQM01SUM0237A), add option CA01992AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

- Order as an option to the K2 Master Site Core Part Number (SQM01SUM0236A), add option CA01992AA - ADD: MOSCAD NFM VIRT APPL A7.13 (\$28,453)

Non ASTRO Cores

- IP non-ASTRO - Select GMC Virtual Appliance item and DL360 server option (selected from MOSCAD NFM Price Page)

- A3.1 - Select GMC Virtual Appliance item and DL360 server option and Terminal Server (selected from MOSCAD NFM Price Page)

5f - Release - A7.14 and beyond

Please refer to the 7.14 Ordering Guide: <http://compass.mot-solutions.com/go/463146013>

Please refer to the 7.15 Ordering Guide: <http://compass.mot-solutions.com/go/488328676>

Please refer to the 7.16 Fault Management Ordering Guide: <https://converge.motorolasolutions.com/groups/astro25-network-managemen/overview>

Please refer to the 7.17 Fault Management Ordering

Guide: <https://converge.motorolasolutions.com/groups/astro25-network-managemen/overview>

6 - GWS Client and Software

6a - Release - A7.8 and earlier

- Z400 Series Vista HP Client
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release

6b - Release - A7.9/11/12

- Z400 Series Vista HP Client (A7.9)
- Z400 Series Win7 HP Client (A7.11)
- InTouch S/W. Version supported on ASTRO release
- Symantec Anti Virus S/W supported on ASTRO release
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required
- SCADALARM Paging S/W with Modem

6c - Release - A7.13/14/15/16

- Z420 Series Win7 HP Client (A7.11)
- InTouch S/W. Version supported on ASTRO release
- McAfee Anti Virus S/W supported on ASTRO release
- HyperACCESS S/W. Needed when remote configuration of TeNSr Channel Banks is required
- Serial / IP S/W. Needed when remote configuration of analog Quantar Stations is required
- SCADALARM Paging S/W with Modem

The [Network Management Wiki Site](#) always has the most up to date MOSCAD NFM ordering guides.

Key items to ensure the correct software is received for a new release

- Refresh quotes older than 90 days to ensure model numbers are current!
- Select "Ship Partial" when ordering to allow hardware to ship before software.
- Always check the [SIO Wiki Site](#) for the most up to date MOSCAD NFM ordering guides.

Configuration

NFM Models for SDM3000

SDM3000 Models and Firmware for NFM
(Software DVD contains all previous releases)

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00

SM IO EXPANSION BASIC	-	F4547	469	\$900.00
SM IO EXPANSION ADVANCED	-	F4548	469	\$1,200.00
ADD: SDM ASTRO RTU FW CURR ASTRO REL	-	VA00872	469	\$1,850.00

SNT (SDM Network Translator)

(Loaded at Factory and Software DVD contains all previous releases)

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00
ADD: SDM SNT FW CURR ASTRO REL	-	VA00873	469	\$3,850.00

R-MUX Models

Description	Full Description	Nomenclature	APC	Price
R-MUX 1001	The R-MUX Port Expander, which can be connected to both the MultiPort and the 48DI, provides port expansion by multiplexing up to 16 additional RS232 serial ports. The R-MUX 1001 multiplexes all external RS232 ports onto a single NFM XC port. The unit comes with 8 serial ports and can be increased in groups of four to 16 by using the appropriate option. An optional Ethernet/IP port with serial port can be added.	F4558	469	\$1,200.00
R-MUX 1004	The R-MUX Port Expander, which can be connected to both the MultiPort and the 48DI, provides port expansion by multiplexing up to 16 additional RS232 serial ports. The R-MUX 1004 multiplexes ports in groups of four onto each NFM XC port. The unit comes with 8 serial ports and can be increased in groups of four to 16 by using the appropriate option. An optional Ethernet/IP port with serial port can be added to both models.	F4568	469	\$900.00

Software Upgrade/Downgrade

	Full			
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Description	Description	Nomenclature	APC	Price
SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	-	T7955	382	\$0.00
ADD: SDM3000_ASTRO_RTU FIRMWARE UPGRADE	-	CA02401AA	382	\$925.00
ADD: SDM3000_SNT FIRMWARE UPGRADE	-	CA02402AA	382	\$1,925.00
ADD: SDM3000_ASTRO_RTU AND SDM3000_SNT FIRMWARE DOWNGRADE	-	CA02403AA	382	\$50.00
ADD: SDM3000 CONFIGURATION SOFTWARE AND FIRMWARE RECOVERY DVD	-	CA02404AA	382	\$25.00

Standalone Fault Manager

A7.16 UEM Lite for Standalone 7.x Conventional Systems

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: NEW 7.16 STANDALONE FAULT MANAGEMENT	-	CA02891AA	382	\$0.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: EXPAND 7.16 STANDALONE FAULT MANAGEMENT	-	CA02892AA	382	\$0.00
ADD: APPLICATION SERVER	-	CA02258AB	425	\$20,000.00
ASTRO STANDALONE FAULT MANAGEMENT	-	SQM01SUM0286	382	\$0.00

VMWARE LICENSE	-	T8208	405	\$0.00
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UEM Lite Client

Description	Full Description	Nomenclature	APC	Price
ASTRO LITE CLIENT APPL SW 7.16	-	T8340	405	\$700.00
HYPERACCESS VERSION 9.0	-	TT2296	708	\$408.00
SERIAL/ IP 1 PORT SEAT LICENSE	THIS SOFTWARE IS DELIVERED ELECTRONICALLY VIA EMAIL ONLY. PLEASE CONTACT MIKE NOWAKOWSKI AT MNOWA01@MOTOROLA.COM FOR DELIVERY.	DDN9048	708	\$176.00

GMC Manager Virtual Appliance

**A7.13 Release for IP non-ASTRO and A3.1
Required DL360 Server for IP non-ASTRO and A3.1**

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00
MOSCAD NFM VIRT APP A7.13 A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability.	CA02102AA	382	\$28,453.00
MOSCAD NFM VIRTUAL APP A7.13 & A3.1	-	SQM01SUM0232	382	\$0.00

A7.14 Release for IP non-ASTRO and A3.1
Required DL360 Server for IP non-ASTRO and A3.1

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00
ADD: MOSCAD NFM VIRTUAL APP A7.14_A3.1	The MOSCAD NFM GMC Device Manager compliments the UEM by adding additional levels of device management. The GMC provides chassis view graphics of the equipment at the site, user defined historical alarm reports, equipment metering information, graphic display of analog data and remote control capability. Please see the MOSCAD NFM ordering guide for required client hardware & software and for the SDM3000 RTU and licenses. For M1 Cores, you can order a maximum quantity of two (2).	CA02399AA	382	\$28,453.00
MOSCAD NFM VIRTUAL APP A7.14_A3.1	-	SQM01SUM0259	382	\$0.00

A7.15 Release for IP non-ASTRO and A3.1
Required DL360 Server for IP non-ASTRO and A3.1

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD NFM Virtual Server HW G8??	-	CA02100AA	382	\$19,250.00
ADD: MOSCAD NFM VIRTUAL APP A7.15_A3.1	-	CA02634AA	382	\$28,453.00
MOSCAD NFM VIRTUAL APP A7.14_A3.1	-	SQM01SUM0259	382	\$0.00

A7.16 Release for IP non-ASTRO

Description	Full Description	Nomenclature	APC	Price
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14_15 TO 7.16_UEM LITE	-	CA02909AA	382	\$12,800.00
ASTRO STANDALONE FAULT MANAGEMENT UPGRADE	-	SQM01SUM0291	382	\$0.00

GMC and RTU Licenses

Device Interface Licenses Authorizing Customer Use of SDMBuilder S/W with the Device

Description	Full Description	Nomenclature	APC	Price
RTU_SW_LIC_PER_NFM-RTU_I-O	Device Display License for Site Builder & SDM Builder	V839	382	\$110.00
GMC_SW_LIC_PER_TRAK_GPS	Device Display License for GMC/GWS S/W	V838	382	\$240.00
RTU_SW_LIC_PER_GCM8000_COMP	Device Display License for Site Builder & SDM Builder	V835	382	\$110.00
RTU_SW_LIC_PER_TENSR-IMACS_CONFIG	Device Display License for Site Builder & SDM Builder	V834	382	\$110.00
	Device Display			

RTU_SW_LIC_PER_TENSR/IMACS	License for Site Builder & SDM Builder	V833	382	\$110.00
RTU_SW_LIC_PER_MUT_AID_QUANTAR	Device Display License for Site Builder & SDM Builder	V832	382	\$110.00
RTU_SW_LIC_PER_QUANTAR_CONFIG	Device Display License for Site Builder & SDM Builder	V831	382	\$110.00
RTU_SW_LIC_PER_STR3000_MS_BR	Device Display License for Site Builder & SDM Builder	V844	382	\$110.00
GMC_SW_LIC_PER_A-TAC_9600_COMP	Device Display License for GMC/GWS S/W	V846	382	\$240.00
RTU_SW_LIC_PER_QUANTAR_RS_BR	Device Display License for Site Builder & SDM Builder	V845	382	\$110.00
RTU_SW_LIC_PER_MNI_M-W_RADIO	Device Display License for Site Builder & SDM Builder	V840	382	\$325.00
GMC_SW_LIC_PER_ALCATEL_M-W_RAD	Device Display License for	V812	382	\$360.00

	GMC/GWS S/W			
GMC_SW_LIC_PER_HARRIS_M-W_RADIO	Device Display License for GMC/GWS S/W	V811	382	\$360.00
GMC_SW_LIC_PER_MTC9600_MS_CONTR	Device Display License for GMC/GWS S/W and for Site Builder & SDM Builder	V520	382	\$240.00
GMC_SW_LIC_PER_RFDS.	For G- Series RF sites only. RF Distribution System can be monitored by the SDM3000 and forwarded to the Site Controller for disposition. RFDS is configured and monitored on the web- based interface included with the SDM3000	VA00300	382	\$240.00
GMC_SW_LIC_PER_EFRATOM_GPS	-	VA00306	382	\$240.00
GMC_SW_LIC_PER_CEB	-	VA00304	382	\$240.00

GMC_SW_LIC_PER_QUANTAR_RCVR	-	VA00309	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_MUX	-	VA00307	382	\$360.00
GMC_SW_LIC_PER_A-TAC_RCVR	-	VA00308	382	\$240.00
GMC_SW_LIC_PER_GCP8000_HPD_S_CONTR	-	VA00319	382	\$240.00
GMC_SW_LIC_PER_GCP8000_S_CONTR	-	VA00318	382	\$240.00
GMC_SW_LIC_PER_GTR8000_RS_BR	-	VA00315	382	\$240.00
GMC_SW_LIC_PER_STR3000_RS_BR	-	VA00314	382	\$240.00
GMC_SW_LIC_PER_GTR8000_HPD_BR	-	VA00316	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_MS_BR	-	VA00312	382	\$240.00
RTU_SW_LIC_PER_ALCATEL_POLL_ENG	-	VA00320	382	\$600.00
RTU_SW_LIC_PER_RTU_IN_DSR_ZONE	-	VA00362	382	\$250.00
RTU_SW_LIC_PER_GCP8000_MS_CONTR	-	VA00325	382	\$240.00
GMC_SW_LIC_PER_STR3000_MS_BR	Device Display License for GMC/GWS S/W	V804	382	\$240.00
GMC_SW_LIC_PER_GTR8000_CONV_BR	-	VA00321	382	\$240.00
RTU SW LIC PER PPP SNMP LINK	-	VA00372	382	\$250.00
GMC_SW_LIC_PER_GCP8000_MS_CONTR	Device Display License for GMC/GWS S/W	V206	382	\$240.00
	Device Interface Licenses Authorizing			

RTU_PER_DEVICE_SW_LICENSES	Customer Use of the Site Builder S/W or SDM Builder S/W with the Device	F2463	382	\$75.00
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Device Interface Licenses Authorizing Customer Use of the GMC/GWS S/W to Display the Device

Description	Full Description	Nomenclature	APC	Price
GMC_SW_LIC_PER_TRAK_GPS	Device Display License for GMC/GWS S/W	V838	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_POLL_ENG	Device Display License for GMC/GWS S/W	V377	382	\$600.00
GMC_SW_LIC_PER_GTR8000_MS_BR	Device Display License for GMC/GWS S/W	V843	382	\$240.00
GMC_SW_LIC_PER_A-TAC_9600_COMP	Device Display License for GMC/GWS S/W	V846	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_M-W_RAD	Device Display License for GMC/GWS S/W	V812	382	\$360.00
GMC_PER_DEVICE_SW_LICENSES	-	F4528	382	\$75.00
	Device Display			

GMC_SW_LIC_PER_HARRIS_M-W_RADIO	License for GMC/GWS S/W	V811	382	\$360.00
GMC_SW_LIC_PER_NFM-RTU_I-O	Device Display License for GMC/GWS S/W	V809	382	\$240.00
GMC_SW_LIC_PER_MTC9600_MS_CONTR	Device Display License for GMC/GWS S/W and for Site Builder & SDM Builder	V520	382	\$240.00
GMC_SW_LIC_PER_RFDS.	For G-Series RF sites only. RF Distribution System can be monitored by the SDM3000 and forwarded to the Site Controller for disposition. RFDS is configured and monitored on the web-based interface included with the SDM3000	VA00300	382	\$240.00
GMC_SW_LIC_PER_TENSR-IMACS_CONFIG	-	VA00305	382	\$240.00
GMC_SW_LIC_PER_EFRATOM_GPS	-	VA00306	382	\$240.00

GMC_SW_LIC_PER_CEB	-	VA00304	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_RCVR	-	VA00309	382	\$240.00
GMC_SW_LIC_PER_ALCATEL_MUX	-	VA00307	382	\$360.00
GMC_SW_LIC_PER_A-TAC_RCVR	-	VA00308	382	\$240.00
GMC_SW_LIC_PER_GCP8000_HPD_S_CONTR	-	VA00319	382	\$240.00
GMC_SW_LIC_PER_GCP8000_S_CONTR	-	VA00318	382	\$240.00
GMC_SW_LIC_PER_GTR8000_RS_BR	-	VA00315	382	\$240.00
GMC_SW_LIC_PER_STR3000_RS_BR	-	VA00314	382	\$240.00
GMC_SW_LIC_PER_PSC9600_RS_CONTR	-	VA00317	382	\$240.00
GMC_SW_LIC_PER_GTR8000_HPD_BR	-	VA00316	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_CONFIG	-	VA00311	382	\$240.00
GMC_SW_LIC_PER_GCM8000_COMP	-	VA00310	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_RS_BR	-	VA00313	382	\$240.00
GMC_SW_LIC_PER_QUANTAR_MS_BR	-	VA00312	382	\$240.00
GMC_SW_LIC_PER_GMC_IN_DSR_ZONE	-	VA00363	382	\$2,500.00
GMC_SW_LIC_PER_GWS_IN_DSR_ZONE	-	VA00364	382	\$500.00
GMC_SW_LIC_PER_TENSR/IMACS	Device Display License for GMC/GWS S/W	V803	382	\$240.00
GMC_SW_LIC_PER_STR3000_MS_BR	Device Display License for GMC/GWS	V804	382	\$240.00

	S/W			
GMC_SW_LIC_PER_MUT_AID_QUANTAR	Device Display License for GMC/GWS S/W	V801	382	\$240.00
GMC_SW_LIC_PER_GTR8000_CONV_BR	-	VA00321	382	\$240.00
GMC_SW_LIC_PER_GCP8000_MS_CONTR	Device Display License for GMC/GWS S/W	V206	382	\$240.00
GMC_SW_LIC_PER_MNI_M-W_RADIO	Device Display License for GMC/GWS S/W	V283	382	\$360.00

OPTIONS for SDM3000 and R-MUX

Add options as defined in the Ordering Guides located at [SIO Wiki Site](#) to assist in choosing valid options.

SDM3000 Power Supply Options for RTU, AUX I-O & SNT

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

SDM3000 Punch Block Termination for RTU and AUX I-O

Description	Full Description	Nomenclature	APC	Price
	This is the punch block termination for use with the SDM3000 F4543 &			

AAD TERM BLCK & CONN WI	F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00
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Terminal Server required A3.1 non-IP non-ASTRO solutions

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00

R-MUX Options

Description	Full Description	Nomenclature	APC	Price
ADD : 4OUT TO R-MUX	This option adds 4 additional serial RS-232 ports to the R-MUX 1001 or 4 additional serial RS-232 with a multiplex port for the R-MUX 1004. A quantity of 2 of this option (max per model qty of 1) provides 8 additional serial ports for the R-MUX 1001 and 2 sets of 4 serial ports, each set with a multiplex port.	V582	469	\$300.00
ADD : IP INTERFACE TO R-MUX	This option adds a stand alone IP interface with an RS-232 serial port to the R-MUX models. Max of one per R-MUX unit.	V527	469	\$440.00

Additional InTouch Software, Computer, and Antivirus

InTouch10.0 (A7.5/A7.6/A7.7)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME W/O I/O V10.0 SW	-	TT2033	708	\$8,700.00
INTOUCH RUNTIME WITH I/O V10.0 SW	-	TT2032	708	\$10,900.00
INTOUCH RUNTIME WITH I/O UPGRADE TO				

V10.0	-	TT2035	708	\$5,500.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	-	TT2034	708	\$18,700.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED UPGRADE TO V10.0 SW	-	TT2037	708	\$11,300.00
INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	-	TT2036	708	\$4,400.00
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00
INTOUCH V10.0 FOR A7.6/7/8 MEDIA CD	-	TT2287	708	\$31.00

InTouch10.1 (A7.8/A7.9/A7.11/A7.12/A7.13/A7.14/A7.15/A7.16)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME 60K TAG W-I/O, V10.1, LIC ONLY	-	TT2176	708	\$10,900.00
INTOUCH RUNTIME 60K TAG W/O-I/O, V10.1, LIC ONLY	-	TT2177	708	\$8,700.00
INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	-	TT2180	708	\$18,700.00
UPGRADE, INTOUCH DEV 60K TAG PRE- V10.0 TO V10.1, LIC ONLY	-	TT2182	708	\$11,300.00
UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	-	TT2183	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1,LIC ONLY	-	TT2184	708	\$5,500.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	-	TT2185	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2186	708	\$4,400.00

UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	-	TT2187	708	\$0.00
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Other S/W:

Description	Full Description	Nomenclature	APC	Price
HYPERACCESS VERSION 9.0	-	TT2296	708	\$408.00

Anti Virus S/W:

Refer to the INFORMATION ASSURANCE ECAT Price Page for the current Antivirus for your System:

(ECAT path: Network Security --> [Network Security ASTRO 7x SYSTEMS](#))

Power Supplies

Description	Full Description	Nomenclature	APC	Price
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Computers for GMC Client

Alcatel Microwave Radio Polling Engine

ACCESSORIES for NFM Systems

Cables

Description	Full Description	Nomenclature	APC	Price
NFM-XC TO R-MUX DC POWER CABLE.	-	FKN8080	455	\$5.00
FLAT OVAL 2.5M	-	FKN4400	455	\$17.00
MDLC GATEWAY POWER CABLE	-	FKN4411	455	\$12.00
RS-232 SDM3000 COMMM. TEST CABLE	-	FKN8360	454	\$6.50

Modules

Description	Full Description	Nomenclature	APC	Price
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Field Add-on Units

Description	Full Description	Nomenclature	APC	Price
ADD:4 OUTPUTS TO R-MUX 1004	-	FLN3059	469	\$350.00
TERM BLOCK & CONN WIRED M25T68	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	FHN1668	454	\$90.00

Manuals

Note: Starting with A7.11 all manuals are included with the applicable SW and are not ordered separately.

Description	Full Description	Nomenclature	APC	Price
SDM3000 USER AND SERVICE MANUAL FOR A7.5	-	6871769Y03	469	\$20.00
SDM3000 OWNER MANUAL FOR A7.5	-	6871769Y04	469	\$20.00
NFM R-MUX 1001&1004 OWNER'S MANUAL	-	6802965C60	455	\$12.00
NFM DOCUMENTATION CD FOR A7.8	-	6871769Y24	469	\$20.00
SDM3000 OWNERS MANUAL AND SERVICE MANUAL FOR A7.6	-	6871769Y08	469	\$20.00
NFM FOR A7.7 DOCUMENTATION	-	6871769Y16	469	\$20.00
GMC/GWS OPERATOR MANUAL FOR MOSCAD NFM A7.6	-	6871769Y07	469	\$20.00

SDM3000 USER AND SERVICE MANUAL FOR A6.10/7.4	-	9808901C87	469	\$20.00
SDM3000 OWNERS MANUAL FOR A6.10/7.4	-	9808901C88	469	\$20.00
SDM3000 OWNERS MANUAL FOR A7.6	-	6871769Y09	469	\$20.00
GMC/GWS MANUAL FOR A7.5	-	6871769Y02	469	\$20.00
NFM FOR A7.9 DOCUMENTATION	-	6871769Y27	469	\$20.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Network Monitoring Service

Ordering Information

General Information

Network Monitoring Operations (NMO) provides real-time fault monitoring and diagnostics capabilities for a customer's network on a consistent, continuous basis. NMO utilizes multiple hardware and software tools for remote monitoring, event characterization, and restoration of their communications networks. When an event is detected, NMO technologists acknowledge and assess the situation, conduct remote diagnostic routines, and initiate an effective response. Such responses could include, but are not limited to, continuing to monitor the event for further developments; attempting remote restoration; or transferring the event information via a case report to Technical Support to better define the event or dispatch a local service technician. The service technician will respond to the customer site based on pre-determined severity levels and response times and NMO maintains contact with the on-site service technician until the system is restored and the case is closed.

Features

- Customer Support Management
- Remote Diagnostic & Monitoring
- 24 Hour Monitoring of System
- Escalation Management
- Report Metrics
- 24 Hour/365 Day Service Availability

Statement of Work

The customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Resources

[Lifecycle Support Services Wiki](#) - Contains up to date documentation

Statement of Work

Network Monitoring, OnSite Infrastructure Response and Dispatch Service

-

Network Monitoring and Customer Technician Dispatch Service

Ordering Requirements

1. This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Technology must be correct in Install Base in order to price.
4. Enter the main line item as quantity one.
5. Options are required as sub-items, with the quantity equal to the option description.
6. All dollar amounts reflect an annual one year pricing.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
Network Monitoring Service	SVC01SVC1103C	0561	
Network Monitoring-CTD (COAM)	SVC01SVC0032C	0561	
ASTRO25 L-Core	L1 Master Site		\$4,855.40
	L2 Master Site		\$4,855.40
	Prime Site		\$2,427.70

	Remote Site		\$1,262.80
	Dispatch Site		\$1,262.80
	MOSCAD RTU		\$633.60
	SMARTX Site Converter		\$3,811.50
	ISSI Network Gateway		\$4,790.50
ASTRO25 M-Core	M1 Master Site		\$7,283.10
	M2 Master Site		\$7,283.10
	M3 Master Site		\$7,283.10
	DSR Site		\$2,379.30
	Prime Site		\$4,398.90
	Remote Site		\$1,262.80
	Dispatch Site		\$1,262.80
	MOSCAD RTU		\$633.60
	SMARTX Site Converter		\$3,811.50
	ISSI Network Gateway		\$4,790.50



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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Network Preventive Maintenance Service

Ordering Information

Executive Summary

Network Preventive Maintenance is a service that will provide an operational test and alignment, as applicable, on the customer's equipment (infrastructure or fixed network equipment only) to ensure the equipment meets original manufacturer's specifications.

Motorola's large network of service helps the customer plan and schedule the annually preventative maintenance of their network to meet their operational timelines.

Network Preventive Maintenance assures that the customer's network is up and running in top condition. This service proactively detects those potential issues that may result if the equipment is not meeting original manufacturer's specifications. Customers can help prevent a system malfunction and minimize their costly repairs, thus managing their maintenance budget.

Motorola's technicians have immediate access to engineering design teams and multiple technology experts. The technicians are equipped with detailed checklists describing what and how the pieces of equipment need servicing. The customer can take advantage of the Network Preventative Maintenance service to maximize their network uptime.

Over 600 customers have entrusted their network support to Motorola with the Network Preventive Maintenance service. Many of these customers (Federal, State & Local Government, Police & Fire entities, etc) rely on this service to keep their systems performing consistently. Enhance the value of Motorola's service offerings by offering the customer such complementary services as Technical Support, OnSite Infrastructure Response, Infrastructure Repair, Network Monitoring, or many others.

Features

- Trained Technical Expertise on-site
- Provides interface to Motorola
- Access to local Motorola servicer
- Preventative Maintenance Check

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service

products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of [Work 1](#)

Statement of [Work 2](#)

Please refer to

Ordering and Contractual Documents

Initial Purchase of Service - SVC03SVC0111D Network Preventative Maintenance

This product cannot be ordered directly through COF at this time. This product must be ordered using an internal Installation Agreement (IA).

Ongoing Maintenance Orders use models:

SVC01SVC0335A NETWORK PREVENTIVE MAINT-LEVEL 1

SVC01SVC0336A NETWORK PREVENTIVE MAINT-LEVEL 2

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#)

1. All dollar amounts reflect an annual one year pricing.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites, type of equipment and the hours this service will be performed. To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.
3. Enter the main line item as quantity one.
4. Select the Service Level, 1 or 2 that corresponds to the chart below. Please note level 3 can only be purchased with a Premier Plus Package. There is no point service available.
- 5.

SERVICES	LEVEL ONE	LEVEL TWO	LEVEL THREE
	ESSENTIAL PLUS & ADVANCED PACKAGES	PREMIER PACKAGE	PREMIER PLUS PACKAGE
Antenna Line Sweeps			X
IP Network Analysis			X
Field Replacement Unit Testing			X
Alarm Verification			X
Computer Hardware Optimization With Back-up		X	X
Advanced Inspections &			

Testing - Transport, Master, Prime, Dispatch		X	X
Facilities Internal/External Visual Inspections Tower, Antenna, Transmission Lines, Shelter, HVAC, UPS, Generator	X	X	X
Software Media Verification, Dispatch Hard Drive Backup	X	X	X
RF Station/Microwave - Global Trade Repository Verification to FCC Specs, Regulatory Compliance	X	X	X
Basic Visual Inspections, Operational/Functional Tests, Cleaning - Master, Prime, Dispatch & RF Site	X	X	X
Additional Options Available For All Levels		Battery Replacement, Enhanced Site Security, Generator and UPS Servicing, Landscaping, Microwave & RF Site Optimization, Pest Control & Tower Maintenance	

6. Options are required as sub-items, with the quantity equal to the option description.
7. A Customer Support Plan (CSP) must be created to provide detailed information to the customer regarding delivery of this service.

Note: Network Preventative Maintenance-Legacy can be continued to be used for any legacy technologies for existing customer contracts. All new contracts and renewals using Astro25 7.9 K, L & M or newer releases should be upgrading to the new models.

Configuration

Description	Nomenclature	APC	Price
Network Preventive Maintenance - Level 1	SVC01SVC0335A	0769	
ASTRO25 K-Core	K1 Master Site		\$908.60
	K2 Master Site		\$908.60
	Prime Site		\$1,298.00

	Remote Site		\$432.30
	Dispatch Site		\$432.30
	Console Ops		\$269.50
	Archiving Interface Server		\$269.50
	RF Stations		\$227.70
ASTRO25 L-Core	L1 Master Site		\$1,513.60
	L2 Master Site		\$1,513.60
	Prime Site		\$1,298.00
	Remote Site		\$432.30
	Dispatch Site		\$432.30
	Console Ops		\$269.50
	Archiving Interface Server		\$269.50
	RF Stations		\$227.70
ASTRO25 M-Core	M1 Master Site		\$2,162.60
	M2 Master Site		\$2,162.60
	M3 Master Site (First Zone)		\$2,162.60
	M3 Master Site (Add'l Zone)		\$2,162.60
	DSR Site		\$2,162.60

	Prime Site		\$1,298.00
	Remote Site		\$432.30
	Dispatch Site		\$432.30
	Console Ops		\$269.50
	Archiving Interface Server		\$269.50
	RF Stations		\$227.70
Network Preventive Maintenance - Level 2	SVC01SVC0336A	0769	
ASTRO25 K-Core	K1 Master Site		\$1,298.00
	K2 Master Site		\$1,298.00
	Prime Site		\$1,298.00
	Remote Site		\$649.00
	Dispatch Site		\$649.00
	Console Ops		\$553.30
	Archiving Interface Server		\$553.30
	RF Stations		\$393.80
ASTRO25 L-Core	L1 Master Site		\$1,947.00
	L2 Master Site		\$1,947.00
	Prime Site		\$1,298.00

	Remote Site		\$649.00
	Dispatch Site		\$649.00
	Console Ops		\$553.30
	Archiving Interface Server		\$553.30
	RF Stations		\$393.80
ASTRO25 M-Core	M1 Master Site		\$2,596.00
	M2 Master Site		\$2,596.00
	M3 Master Site (First Zone)		\$2,596.00
	M3 Master Site (Add'l Zone)		\$2,596.00
	DSR Site		\$2,596.00
	Prime Site		\$1,298.00
	Remote Site		\$649.00
	Dispatch Site		\$649.00
	Console Ops		\$553.30
	Archiving Interface Server		\$553.30
	RF Stations		\$393.80

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SOFTWARE & SERVICES](#)

[SHIP CARD](#)

Model

Network Products Routers

Important notice:

The below Juniper router models for sites, T8547A, T8492A, T8493A and associated options are only certified with A7.18 expansions and new A2019.X and as such **MUST** connect up to a Juniper product in the core.

All new A7.18 will ship with GGM 8000 through 09/30/2019 (Q3 2019) as the site and core router. Any expansions to A7.18 systems are certified only with Junipers.

From A7.18 and later releases, all the new Hub sites (CSUB/TSUB, Prime Sites, K core etc) will ship with SRX1500 instead of SRX345 until further notice, please check back with this ordering guide regularly

Ordering Information

Please refer to the Ordering Guide for Juniper products, DCG 9000 Dynamic Conventional Gateway and GGM 8000: [Ordering Guide](#)

Configuration

SITE ROUTER AND FIREWALL (AC AND DC VERSIONS), EDGE & HUB ROUTER & FIREWALL (AC AND DC VERSIONS)

NOTE: As mentioned above, please order SRX1500 for all the new Hub sites (CSUB/TSUB, Prime Sites, K core etc) instead of SRX345 until further notice.

Description	Full Description	Nomenclature	APC	Price
SITE AND HUB ROUTER AND FIREWALL - DC	This provides a site router and firewall (SRX345) including generic operating system as well as an internal -48 Volt DC power supply.	T8547	147	\$1,100.00
	This provides a site router and			

SITE AND HUB ROUTER AND FIREWALL- AC	firewall (SRX345) including generic operating system as well as an internal 100-240 VAC power supply.	T8492	147	\$875.00
EDGE ROUTER & FIREWALL AC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a redundant internal 100-240 VAC power supply	T8493	147	\$10,900.00
EDGE ROUTER & FIREWALL DC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a single internal -48 Volt DC power supply.	T8555	147	\$10,900.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL HARDENING	-	CA03445AA	147	\$3,300.00
ADD: ENCRYPTION	-	CA03446AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX345	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03451AA	147	\$500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX1500	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03452AA	147	\$500.00
ADD: STATEFUL FIREWALL	-	CA03448AA	147	\$1,000.00

FRUs

Description	Full Description	Nomenclature	APC	Price
ASTRO CERTIFIED OS FOR SRX/345/1500	-	T8501	147	\$50.00
SFP MODULE	SFP Module for SRX345	DLN7025	147	\$246.00
FRU: SRX 1500 AC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - AC	DLN8022	877	\$415.00
FRU: SRX1500 DC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - DC	DLN8021	877	\$1,108.00

DCG 9000 Model

Description	Full Description	Nomenclature	APC	Price
DYNAMIC CONVENTIONAL GATEWAY 9000	-	SQM01SUM0317	147	\$4,200.00

DCG 9000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL GATEWAY SERVER LICENSE	-	UA00667AA	147	\$0.00
ADD: DFSI CONVENTIONAL CHANNELS	-	CA03366AA	147	\$0.00
ADD: DC-DC POWER SUPPLY & CABLES	-	CA03464AA	147	\$225.00

ESU - DCG 9000 Deployment Solution

Description	Full Description	Nomenclature	APC	Price
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ESU LAUNCHPAD SW KIT	-	T8510	147	\$1,000.00
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DCG 9000 FRUs

Description	Full Description	Nomenclature	APC	Price
DCG DC POWER KIT	-	DLN1443	147	\$225.00
GGM 8000 DC POWER CABLE W/NON-TERMINATED ENDS	-	DKN6145	454	\$55.25

GGM 8000 Motorola Network Gateway

GGM 8000 Model

Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00

GGM 8000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIRECT SHIP (NO STAGING)	-	CA02108AA	147	\$0.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ADD: DC POWER	-	CA01619AA	147	\$0.00
ADD: ENCRYPTION (7.9 OR 7.11)	Order one per each GGM 8000 gateway.	CA01617AA	147	\$1,500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: LOW DENSITY ENH	4 port CCGW for Astro			

CONV GATEWAY	releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

GGM 8000 FRU Kits

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00
FRU: GGM 8000 BASE MODULE	Base router w/o USB port. EOS compatible with A7.14 and later. For A7.9-A7.13 must order updated EOS.	TYN4001	147	\$5,250.00
FRU: GGM 8000 BASE MODULE-ENCRYPTION ENABLED	Encrypted base router w/onboard encryption of the processor. EOS compatible with A7.12 and later releases.	TYN4010	147	\$6,750.00
FRU: GGM 8000 E&M DSP MODULE	-	TYN4003	147	\$1,200.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GGM 8000 LD ENH CONV GATEWAY MODULE	4 port CCGW for Astro releases 7.12 and later	TYN4012B	454	\$3,000.00
FRU: GGM 8000 HD ENH CONV GATEWAY MODULE	8 port CCGW for Astro releases 7.12 and later	TYN4011B	454	\$6,000.00
FRU: GGM 8000 EXPANDER MODULE	-	TYN4005	454	\$1,200.00
FRU: GGM 8000 ROUTER MODULE	Base router with the USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4001.	TYN4006	454	\$4,050.00

FRU: GGM 8000 ROUTER MOD-ENCRYPTION ENABLED	Encrypted base router with USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4010.	TYN4009	454	\$5,550.00
FRU: GGM 8000 FLEXWAN MODULE	-	TYN4007	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	454	\$500.00
FRU: GGM 8000 AC MODULE	-	TPN6210	454	\$750.00
FRU: GGM 8000 DC MODULE	-	TPN6211	454	\$750.00

S6000 MNR Multi-Protocol Router

Intent to Cancel

The S6000 Motorola Network Gateway model, options, and FRU kits are scheduled for cancellation. The last date to place an order for new systems is September 29, 2017, orders must ship by December 29, 2017. FRUs available for system expansions through 12/31/2019. Please refer to the published cancellation notice for additional details:

[S6000 Motorola Multiprotocol WAN Router Cancellation Notice](#)

S6000 Model

Description	Full Description	Nomenclature	APC	Price
S6000 MNR MULTI-PROTOCOL ROUTER	S6000 Modules	ST6000	147	\$15,995.00

S6000 Modules

Description	Full Description	Nomenclature	APC	Price
SRC 24 PORT T1/E1EXP II	-	ST6202	147	\$75,000.00
S6000 4 PORT ULTRAWAN II MODULE	-	ST6017B	454	\$3,000.00
S6000 12 PORT T1/E1 II MODULE	-	ST6018	454	\$9,000.00

S6000 4-PORT FLEXWAN MODULE	Cables	ST6011	454	\$3,000.00
S6000 ENCRYPTION MODULE	-	ST6016	454	\$1,000.00

Cables

Description	Full Description	Nomenclature	APC	Price
CABLE,V.35,FLEXWAN,DTE 10FT	Replaces the NP3C89005	DKN6119	147	\$599.00
CABLE,V.35 FLEXWAN,DCE 10FT	-	DKN6120	147	\$498.00
CABLE,X.21FLEXWAN,DCE 10FT	REPLACES NP3C89011	DKN6122	147	\$125.00

Software & Services

Software

Please refer to the current SRC 7500 Upgrades Ordering Guide to upgrade Core and Site routers for systems A7.14 - A7.16-[SRC 7500 7.16 Upgrades Ordering Guide](#)

Refer to K-Core & L-Core price pages to upgrade Networking Transport equipment.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DKN6119	CABLE,V.35,FLEXWAN,DTE 10FT	147	4
FIXEDSTN	SCB	DKN6120	CABLE,V.35 FLEXWAN,DCE 10FT	147	4
FIXEDSTN	SCB	DKN6122	CABLE,X.21FLEXWAN,DCE 10FT	147	15

FIXEDSTN	CDP	DKN6145	GGM 8000 DC POWER CABLE W/NON-TERMINATED ENDS	454	5
FIXEDSTN	CDP	DKN6145	GGM 8000 DC POWER CABLE W/NON-TERMINATED ENDS	454	5
FIXEDSTN	SCB	DLN1443	DCG DC POWER KIT	147	45
ACCESSORY	SCB	DLN7025	SFP MODULE	147	30
ACCESSORY	SCB	DLN8021	FRU: SRX1500 DC SWAPPABLE POWER SUPPLY	877	30
ACCESSORY	SCB	DLN8022	FRU: SRX 1500 AC SWAPPABLE POWER SUPPLY	877	30
FIXEDSTN	SCB	SQM01SUM0205	GGM 8000 GATEWAY	147	20
FIXEDSTN	SCB	SQM01SUM0317	DYNAMIC CONVENTIONAL GATEWAY 9000	147	7
FIXEDSTN	SCB	ST6000	S6000 MNR MULTI-PROTOCOL ROUTER	147	55
FIXEDSTN	SCG	ST6011	S6000 4-PORT FLEXWAN MODULE	454	9
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6017B	S6000 4 PORT ULTRAWAN II MODULE	454	9
FIXEDSTN	SCB	ST6018	S6000 12 PORT T1/E1 II MODULE	454	9
FIXEDSTN	SCB	ST6202	SRC 24 PORT T1/E1EXP II	147	27
FIXEDSTN	SCB	T8492	SITE AND HUB ROUTER AND FIREWALL- AC	147	8
FIXEDSTN	SCB	T8493	EDGE ROUTER & FIREWALL AC	147	23

FIXEDSTN	SCB	T8501	ASTRO CERTIFIED OS FOR SRX/345/1500	147	73
FIXEDSTN	SCB	T8510	ESU LAUNCHPAD SW KIT	147	25
FIXEDSTN	SCB	T8547	SITE AND HUB ROUTER AND FIREWALL - DC	147	14
FIXEDSTN	SCB	T8555	EDGE ROUTER & FIREWALL DC	147	4
FIXEDSTN	SCB	TPN6210	FRU: GGM 8000 AC MODULE	454	27
FIXEDSTN	SCB	TPN6210	FRU: GGM 8000 AC MODULE	454	27
FIXEDSTN	SCG	TPN6211	FRU: GGM 8000 DC MODULE	454	44
FIXEDSTN	SCG	TPN6211	FRU: GGM 8000 DC MODULE	454	44
FIXEDSTN	SCB	TYN4000	FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	147	8
FIXEDSTN	SCB	TYN4001	FRU: GGM 8000 BASE MODULE	147	14
FIXEDSTN	SCB	TYN4002	ANALOG/V.24 INTERFACE KIT	147	4
FIXEDSTN	SCB	TYN4003	FRU: GGM 8000 E&M DSP MODULE	147	31
FIXEDSTN	SCB	TYN4003	FRU: GGM 8000 E&M DSP MODULE	147	31
FIXEDSTN	SCB	TYN4004	FRU: GGM 8000 V.24 MODULE	147	6
FIXEDSTN	SCB	TYN4005	FRU: GGM 8000 EXPANDER MODULE	454	7
FIXEDSTN	SCB	TYN4006	FRU: GGM 8000 ROUTER MODULE	454	5
SYSPERIPH	SCB	TYN4007	FRU: GGM 8000 FLEXWAN MODULE	454	10
FIXEDSTN	SCB	TYN4008	FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	454	5
			FRU: GGM 8000 ROUTER MOD-		

CNTLPATH	SCB	TYN4009	ENCRYPTION ENABLED	454	5
CNTLPATH	SCB	TYN4010	FRU: GGM 8000 BASE MODULE- ENCRYPTION ENABLED	147	17
CNTLPATH	SCB	TYN4011B	FRU: GGM 8000 HD ENH CONV GATEWAY MODULE	454	16
CNTLPATH	SCB	TYN4012B	FRU: GGM 8000 LD ENH CONV GATEWAY MODULE	454	42

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Network Time and Frequency

Ordering Information

General Information

Please refer to the [3rd Party Drop Ship Wiki](#) for vendor information and more specific product detail.

TRAK 9100 Product

DSTRAK91008E Redundant Modular Frequency/Time System

The following components are included in the Model 9100-8. Module model numbers are listed for reference. Band-pass antenna, 100 ft LMR-400 coaxial cable, ground kit, and lightning arrestor are included with each 9101 GPS Reference module.

Configured for AC Power input. Add DSTRAK91008EDC to switch unit to 48Vdc (no change in price).

TRAK Model Number

Description

9100 MF	Main Frame, 3U chassis
9101-15	GPS Reference, with rubidium oscillator
9101-16	GPS Reference, with double oven xtal oscillator
9120-2 (2 each) or 9121 (2 each)	AC input power supplies (85-260Vac), 9100-8 DC input power supplies (48 Vdc nominal)
9106-1 (4 each)	DDM, 1 PPS, 5 MPPS, or Composite dist., 4 outputs of one signal type, each module
9107-1	FDM, IRIG-B time code dist., 4 outputs
9111-1	Telecom, T1, 4 outputs framed and clock

DSTRAK91009E Redundant Modular Frequency/Time System **must add Distribution modules when ordering, see below

The following components are included in the Model 9100-9. Module model numbers are listed for reference. Band-pass antenna, 100 ft LMR-400 coaxial cable, ground kit, and lightning arrestor are included with each 9101 GPS Reference module. The Model 9100-9 contains no distribution modules. Quantity and type must be specified.

Configured for AC power input. Add DSTRAK91009EDC to switch

unit to 48Vdc (no change in price).

TRAK Model Number	Description
9100 MF	Main Frame, 3U chassis
9101-15	GPS Reference, with rubidium oscillator
9101-16	GPS Reference, with double oven xtal oscillator
9120-2 (2 each) or 9121 (2 each)	AC input power supplies (85-260Vac) DC input power supplies (48 Vdc nominal)

The Model 9100-9 accepts a total of six each of the following modules. Any type module may be used in any of the six distribution positions. Select from the following module list:

DSTRAK91061	DDM, 1 PPS, 5 MPPS, or Composite dist., 4 outputs of one signal type, each module
DSTRAK91071	FDM, IRIG_B time code dist., 4 outputs
DSTRAK91111	Telecom, T1, 4 outputs framed and clock

DSTRAK92003 Digital Distribution Unit **must add distribution modules, see below.

The Model 9200-3 is used for expanding digital distribution of the Model 9100 series. The following components are included in the Model 9200-3. Module model numbers are listed for reference. Interconnecting signal cable is supplied. The Model 9200-3 contains no distribution modules. Quantity and type must be specified.

Configured for AC power input. Add DSTRAK92003DC to switch unit to 48Vdc (no change in price).

TRAK Model Number	Description
9200 MF	Main Frame, 3U chassis
9150-1	Terminator and Fault Logic
9120-3 (2 each) or 9121-4 (2 each)	AC input power supplies (85-260Vac) DC input power supplies (48 Vdc nominal)

The Model 9200-3 accepts a total of fourteen each of the following modules. Any type module may be used in any of the fourteen distribution positions. Select from the following module list:

DSTRAK91061	DDM, 1 PPS, 5 MPPS, or Composite dist., 4 outputs of one signal type, each module
DSTRAK91111	Telecom, T1, 4 outputs framed and clock

For more information on TRAK products, please see the [TRAK website](#).

Configuration

TRAK 9100 Models

91009 and 91008

Description	Full Description	Nomenclature	APC	Price
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91009EDC	906	\$33,298.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91008EDC	906	\$38,123.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91008E	906	\$38,123.00
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91009E	906	\$33,298.00

Expansion Chassis

Description	Full Description	Nomenclature	APC	Price
DISTRIBUTION SHELF FOR 9100 DC	-	DSTRAK93007DC	454	\$14,060.00
DISTRIBUTION SHELF FOR 9100 AC	-	DSTRAK93007	454	\$14,060.00

Modules

Description	Full Description	Nomenclature	APC	Price
GPS REFERENCE MODULE W/RB OSCILLATOR	-	DSTRAK910115	906	\$12,595.00
FAULT SENSE UNIT WITH NTS/NTP AND SNMP NETWORK MANAGEMENT	-	DSTRAK910414	906	\$3,158.00

CAPABILITY				
GPS REFERENCE MODULE W/DOXCO	-	DSTRAK910116	454	\$5,858.00

Field Replaceable Units

Description	Full Description	Nomenclature	APC	Price
LIGHTENING/SURGE SUPPRESSOR (N-N) FOR TRAK GPS	-	DSTRAK4702354	906	\$630.00
ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAKP002111	906	\$1,830.00
ANTENNA KIT FOR 9100 - 1 ANT, 100 FT OF CABLE/ WITH LIGHTNING PROT.	-	DSTRAKL70N	906	\$2,110.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAKP002111KIT	906	\$2,768.00

TRAK 8835 Models

8835

Description	Full Description	Nomenclature	APC	Price
GPS CLOCK, 10MHZ, DOXCO, 48VDC INCL ANT, 100' COAX W/DONGLE SNMPV3	-	DSTRAK88358M	906	\$9,153.00
GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	-	DSTRAK88353M	906	\$14,425.00

Accessories

Description	Full Description	Nomenclature	APC	Price
AC POWER SUPPLY FOR 8835 GPS CLOCK	-	DSTRAKP001134	906	\$235.00
ENHANCED FILTER ANTENNA (N				

CONN) FOR TRAK 9100 AND 8835	-	DSTRAKP002111	906	\$1,830.00
MOUNTING SHELF FOR 8835 GPS CLOCK	-	DSTRAK4008245101	906	\$380.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAKP002111KIT	906	\$2,768.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXX	DSTRAK4008245101	MOUNTING SHELF FOR 8835 GPS CLOCK	906	45
QUOTEDS	TXX	DSTRAK4702354	LIGHTENING/SURGE SUPPRESSOR (N-N) FOR TRAK GPS	906	7
QUOTEDS	TXX	DSTRAK88353M	GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	906	60
QUOTEDS	TXX	DSTRAK88358M	GPS CLOCK, 10MHZ, DOCXO, 48VDC INCL ANT, 100' COAX W/DONGLE SNMPV3	906	60
QUOTEDS	TXX	DSTRAK91008E	PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	906	25
QUOTEDS	TXX	DSTRAK91008EDC	PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	906	25
QUOTEDS	TXX	DSTRAK91009E	REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING	906	40

			SYSTEM AC		
QUOTEDS	TXX	DSTRAK91009EDC	REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	906	40
QUOTEDS	TXX	DSTRAK910115	GPS REFERENCE MODULE W/RB OSCILLATOR	906	40
QUOTEDS	TXX	DSTRAK910116	GPS REFERENCE MODULE W/DOXCO	454	40
QUOTEDS	TXX	DSTRAK910414	FAULT SENSE UNIT WITH NTS/NTP AND SNMP NETWORK MANAGEMENT CAPABILITY	906	25
QUOTEDS	TXX	DSTRAK93007	DISTRIBUTION SHELF FOR 9100 AC	454	8
QUOTEDS	TXX	DSTRAK93007DC	DISTRIBUTION SHELF FOR 9100 DC	454	8
QUOTEDS	TXX	DSTRAK9300MF	MODULAR DISTRIBUTION UNIT FOR TRAK 9100, MAIN FRAME, 3U CHASSIS	906	25
QUOTEDS	TXX	DSTRAKL70N	ANTENNA KIT FOR 9100 - 1 ANT, 100 FT OF CABLE/ WITH LIGHTNING PROT.	906	10
QUOTEDS	TXX	DSTRAKP001134	AC POWER SUPPLY FOR 8835 GPS CLOCK	906	45
QUOTEDS	TXX	DSTRAKP002111	ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	906	80
QUOTEDS	TXX	DSTRAKP002111	ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	906	80
QUOTEDS	TXX	DSTRAKP002111KIT	ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	906	60

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

**INFORMATION ASSURANCE (IA)
ASTRO 25® SYSTEMS
A7.15 - A2019.1**

Ordering Information

General Information

Radio communication systems have evolved from simple analog systems that handled voice transmissions to interconnected networks that utilize computer-based digital IP technology to process both voice and data communications. These advancements have resulted in new security concerns that are more commonly associated with Information Systems. The interactions across networked systems can dramatically magnify the damages resulting from even simple security violations. Organizations need assurance that their communication systems can be relied upon and trusted, even in the most demanding situations.

Automated attack tools and malicious agents that can inflict serious damage to a radio communication network are rapidly growing in levels of sophistication. Security vulnerabilities can be exploited, resulting in enough damage to the valuable system information and communication assets to degrade or disable system operations and place field personnel at risk.

Information Assurance involves maintaining information privacy, protecting information soundness, and ensuring that information is accessed only by those who are authorized in a manner consistent with policy. Organizations need to expect attacks and design their system with detection and prevention tools and procedures that will allow them to react and recover. An Information Assurance strategy is critical for safeguarding a system investment.

The Information Assurance functionality offered with ASTRO 25 systems can be enhanced with best practice service offerings. Please refer to the Security Services section of the price book for more information.

All ASTRO 25 Systems include the following standard Information Assurance functionality. These features require configuration that is based on a customer's preferences, which should be discussed with the customer prior to staging.

Securing Protocols with Secure Shell (SSH) - The ASTRO 25 system consists of many components that communicate with each other using a variety of standard protocols. In some cases, these protocols are not secure, which can result in various levels of risk to the network. The highest amount of risk is associated with protocols that pass authentication parameters (i.e., passwords) in the clear. Capturing this information by sniffing the network can lead to unauthorized access to a device, which could severely compromise data and network security. Secure Shell (SSH) addresses this threat by providing a secure point-to-point connection between two different machines, where the connection is encrypted and

both ends have been authenticated. The reduction of clear protocol usage is necessary to sustain Authority to Operate (ATO) certification for U.S. Federal systems and is increasingly identified as a mandatory system requirement for non-federal systems.

Router Access Control Lists (ACLs) - System routers inspect network traffic and control which packets will be forwarded or blocked at the router interface, based on the customers specified configuration criteria. Unauthorized traffic is prevented from crossing network boundaries, which ensures that only permitted traffic can transverse the network. Filtering is employed at core, exit, gateway, and site routers to enhance the security of the network. Please note that Router ACLs will prohibit certain functionality at remote (non-Core) network management clients. This should be discussed with the customer prior to staging.

Ethernet Switch Port Security - Provides a layer of security at the physical location of the equipment by preventing unauthorized access to the system through the ports on a network switch. Two methods of Ethernet Switch Port Security are available:

- **MAC Port Lockdown:** Locks the port on a network switch to one or more MAC addresses, ensuring that traffic intended for a specific device can only go through the one port which is supposed to be connected to that device.
- **802.1x capability for Service Ports:** Based on the IEEE 802.1X standard, devices that connect through a switch port must be authenticated before access to the network is allowed.

Central Authentication - The centralized Authentication, Authorization, and Accounting (AAA) feature starts with Active Directory (AD) for all Windows servers and workstations and Remote Authentication Dial-In User Service (RADIUS) services already in the radio network for infrastructure devices. The feature extends the ASTRO 25 architecture for Active Directory (AD) to Solaris and Linux platforms.

A single user account can be used to access all devices in the system, as opposed to creating and managing accounts for a user across multiple devices. The users authorization level can be centrally defined and managed, and allows confirmation of the identity of users and controlled access to the objects on the network and the operations they may perform. Records of logins are stored and managed for auditing purposes. Centrally managing this information provides a more efficient way to oversee the network. Network administrators can more effectively enforce security policies and can also remotely administer the network.

In addition, Federated Identification has been implemented between the customers Radio Network Infrastructure (RNI) and the System Support Center (SSC). This allows SSC users to access devices in customers systems using their own user accounts defined in the SSC domain based on Federated ID management, in order to more effectively service systems.

Simple Network Management Protocol version 3 (SNMPv3) - Utilizes the inherent authentication and encryption capabilities of SNMPv3 to secure the network management traffic between the network managers and the network elements.

Secure Software Download (SWDL) - The Software Download application allows users to transfer only, install only, or transfer and install new software in an ASTRO 25 Repeater subsystem, a High Performance Data (HPD) subsystem, an IP Simulcast subsystem, or a Simulcast subsystem.

The transfer only operation transfers (but does not install) new versions of software. Transfer only operations can occur at any time because the call processing is not interrupted, and users can later install the new software at a planned time.

Secure SWDL ensures that transfer operations are authenticated and encrypted, based on the Secure File-Transfer Protocol (SFTP), making it difficult for transmission to be intercepted through unauthorized access. Secure SWDL allows customer to comply with the updated Defense Information Systems Agency (DISA) Security Technical Implementation Guide (STIG) versions.

Configuration

INFORMATION ASSURANCE FEATURES

1. Element Hardening - Removes nonessential tools and utilities from the Windows Operating System, which could be used to help an attacker gain unauthorized access to system settings or data. Two types of Windows hardening are offered:

- **Transparent Hardening** - Provides best practice security for Windows to minimize security threats.
- **Full Hardening** - Provides the appropriate level of hardening for systems that require compliance with federal security standards (FISMA certification).

Platforms that utilize Solaris and Linux Operating Systems also require hardening. This does not require an orderable model; these platforms will automatically be configured with full hardening prior to shipment.

Element Hardening for Windows must be ordered and applied to every Windows device in the system. Please note that Element Hardening will enable a password-protected screen saver on all Windows devices. This should be discussed with the customer prior to staging.

Select either the Transparent Hardening or Full Hardening model; an ASTRO 25 system can be configured with only one type of hardening. Order a quantity of ONE for EVERY device (except the Common Platform Hardware at the Core, or a standalone Domain Controller see Note below) within the system that uses the Windows Operating System.

Please refer to the [ASTRO 25 Master Site](#) price pages for more details.

2. Anti-Malware - Detects and blocks malicious software including viruses, worms, Trojan horses, spyware, adware and rootkits from infiltrating the system. Anti-malware functionality is standard on all Windows and Linux devices on all L and M ASTRO platforms using McAfee and is provided with the CSMS Virtual Container.

3. Two Factor Authentication - Compliments the standard Central Authentication functionality in ASTRO 25 systems to authenticate the identity of a person or other entity attempting to access the system remotely via a VPN connection (from CEN, Internet or through DMZ terminal server). Two Factor authentication requires the user to possess a token in addition to their Active Directory credentials. For more details, please refer to [ASTRO 25 Network Product Firewalls Ordering Guide](#).

4. Firewalls - Firewalls ensure that only legitimate traffic from external networks can access the radio system. They protect the system from unauthorized connections, restrict access to known applications and protocols, and ensure that network resources cannot be accessed from external systems unless authorized. For more details, please refer to [ASTRO 25 Network Product Firewalls Ordering Guide](#).

5. Central Event Logging - The system logs security events of interest as reported by client devices such as log-in failures, changes made to the hardware and software, and failures in security elements. Information about these events is recorded on a central server so it can be retrieved and analyzed, helping a network technician detect, diagnose, and respond to possible security breaches. Central event logging also enables archiving of audit information as a requirement of many IA programs. Examples of some of the information that may be stored include login successes and failures, elevation of privileges, configuration changes, and hardware failures.

The Event Logging software is installed on a virtual container on the Common Platform Hardware at the core.

Event Logging is ordered as an option when ordering the Core. A quantity of ONE license should be ordered at every zone for customers that require this functionality.

Please refer to the [ASTRO 25 Master Site](#) price pages for more details.

6. Zone Core Protection (ZCP) Detects and blocks unauthorized packets attempting to enter the zone core which originate from remote sites or the communication links that remote sites utilize. ZCP also provides traffic filtering between zones in multi-zone system configurations. ZCP can be ordered as a system level option for M3 systems, if you have multiple zones, you need to order a set of equipment for each zone.

If ZCP is needed, you must order the following:

- a. ZCP requires TWO firewalls per zone.
- b. ZCP requires the Firewall Management Service (FortiManager).
- c. ZCP requires TWO mediation switches per zone.

Please refer to [ASTRO 25 Network Product Firewalls Ordering Guide](#) for more details.

7. Zone Core Protection (ZCP) Logging - Provides a logging server that will be used to receive and forward logs from remote site devices to the primary event logging server within the radio network infrastructure (RNI). Logs the failed attempts to access the zone core that are blocked by the Zone Core Protection feature.

The ZCP Logging software is installed on a virtual container on the Common Platform DC - SYSLOG hardware.

ZCP Logging is ordered as an option when ordering the Core. A quantity of ONE license should be ordered along with Common Platform DC.

Please refer to the [ASTRO 25 Master Site](#) price pages for more details.

8. Install, Backup & Recovery - Eliminates the need to perform local backups on individual system devices, by providing a centralized location for the management of data backup and restore operations. The data can be used to quickly return the system to a functional state following any event which causes a failure or interruption of normal service. Customers can choose between two different backup options:

- **Baseline Backup and Recovery (Baseline BAR)** - Backs up only the following BAR clients, if present in the system configuration: Network Management servers, Zone Controllers, Domain Controllers, Authentication Center servers, and the Linux-based BAR client for backing up the Baseline BAR server itself.
- **Backup and Recovery (BAR)** - Backs up additional BAR clients at the core, in addition to those included with the Baseline BAR option.

NAS: The NAS device is **always required** when either Baseline BAR or BAR is ordered to back up the ASTRO 25 system. The Backup and Restore server also allows for the creation of media that can be stored off site, which is a common requirement in standard IT disaster recovery plans.

- One NAS device is connected to only one BAR server (order at least one NAS per zone or two if DSR)
- Additional NAS devices may be order if rotation is needed. It is highly recommended to do a weekly rotation between three NAS devices

Please refer to the [ASTRO 25 Master Site](#) price pages for more details.

9. Service Access Architecture - Provides secured communications access between the Radio Network Infrastructure (RNI) and service users. Service users can perform functions such as remote control of devices, diagnostics, file transfers, security monitoring, and fault management. Secure remote access to these services allows a reduction in the cost for maintenance of the radio network and reduced response time for issue resolution.

The following primary access scenarios are supported:

- Access to the RNI through a VPN connection originating from the Internet or from the CEN. Requires VPN Client license, RNI-DMZ Firewall, and optional multi-factor tokens.

- Access to the RNI from the Motorola System Support Center (SSC) via a dedicated WAN connection. Requires RNI-DMZ Firewall.

- Access to the RNI via terminal server:

a) Out of Band Management (OOBM) Terminal Server is connected to the DMZ switch to provide access to RNI via a dial-up connection. Requires VPN Client license, RNI-DMZ Firewall, modem, and terminal server. Multi-factor tokens for the firewall VPN are optional

b) Simulcast Prime Site Terminal Server provides access to the Simulcast Prime Site devices

and the RNI via a dial-up connection. Requires modem and terminal server.

Description	Full Description	Nomenclature	APC	Price
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00
NCP SECURE ENTRY CLIENT/VPN FOR WINDOWS (WIN32-64)	(For A7.15 and beyond. Juniper is not supported)	DSNEYW1	708	\$200.00

If the zone has an existing RNI-DMZ firewall this capability is configured on the existing RNI-DMZ firewall. If a firewall needs to be order for SAA, please refer to [ASTRO 25 Network Product Firewalls Ordering Guide](#).

10. Router Encryption - Safeguards all voice and data packets against unauthorized interception as they move between the core and remote sites within a zone, or across multiple zones. The packets that travel through the WAN links provided by a public network circuit provider will be encrypted, adding an extra layer of security. The transport devices at each end of a link authenticate each other. This feature complies with FIPS 140-2. NIAP certification to Common Criteria EAL 4 is in progress.

The Router Encryption feature must be configured across the entire system. This feature is required when Zone Core Protection is also ordered. Event Logging is also recommended, as this feature is useful to aid with troubleshooting Router Encryption, since any configuration changes in the router are recorded using this feature.

Encryption is ordered along with the Routers and may be ordered for Site Gateways. Router encryption may be ordered for individual gateways or integrated as part of a system under an SQM model:

- Please refer to the ASTRO 25 Network Routers Price Pages to choose an individual router with encryption: [ASTRO 25 Network Routers](#)
- For SRC (M1, M2 and M3 Cores) only please refer to: SRC 7500 Switching and Routing Center price pages
- Visit individual price pages for K, L or other products for encryption ordering instructions.

11. Radio Authentication - Prevents illegitimate radios from gaining access to the radio network. It enhances security by authenticating radios before allowing registration to the system. This feature uses the P25 link layer authentication standard (TIA 102.AACE). The Radio Authentication implementation allows the gradual activation across the subscriber base until all subscribers are provisioned for authentication.

Systems without the optional Radio Authentication feature are susceptible to cloned and otherwise unwanted radios on the system. Radio Authentication prevents these unwanted P25 radios from successfully unit registering, thus preventing them from using the services of the

system. Unregistered radios cannot listen to calls, place calls or otherwise disrupt customer operations.

When Radio Authentication is ordered, an Authentication Server (AuC) will be installed as a virtual container on the Common Platform Hardware at the core.

An option for Radio Authentication must be ordered for each subscriber that will be provisioned for authentication. In addition, Radio Authentication requires the purchase of a system level option to enable the functionality (CA02472) along with radio user licenses (JA00165AA) for the number of Radio Authentication radios in the system. These two options are ordered under the supermodel for the Core. Finally, the Radio Authentication Client Software application must also be ordered. This software can reside on a separate client terminal or it can also be installed on a network management client terminal.

Please refer to the [ASTRO 25 Master Site](#) price pages for more details.

12. Fiber Modules - Fiber Modules are available as a compensative security control. Fiber optic links prevent an unauthorized user from using a basic Ethernet analyzer with RJ45 interfaces (very common and available on laptops) to plug in and learn about MAC addresses of the devices. If fiber modules are installed its more costly and difficult for someone to jack into a port and learn information about a device.

For a remote site with dual Ethernet switches, order the following per switch: CLN8490 (quantity 2) and CKN6906 (quantity 1).

Description	Full Description	Nomenclature	APC	Price
FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00

13. On Premises Security Ops Center (OPSOC) - Installed inside your network, Motorola's On-Premise Security Operations Center allows you to effectively monitor unusual security activities. Minimal in comparison to the investment, time, technology and resources required to establish and maintain an internally owned and operated SOC, the unsurpassed monitoring technology in Motorola's On-Premise Security Operations Center covers; Firewalls, intrusion detection sensors, authentication and logging servers, Worm, virus and other malicious activity, Network vulnerabilities, Abnormal network activity, Compromised host command and control communication, and Advanced behavioral analytics. The OPSOC features Holistic event traffic insights, Continuous monitoring, Powerful correlation performance, End-to-End intelligent alerting, Customized mission critical provisions, Automated alerting, Auto generated reports, Real-time visualization portal, and IP-autonomous monitoring.

Please refer to the [ASTRO 25 On Premises Security Ops Center](#) price page.

14. ASTRO 25 Security Monitoring Service - This Service supports the current shipping Release and three previous System Releases. Security Monitoring Service is an integration of the existing Network Monitoring service with Security Monitoring that includes the monitoring of radio system infrastructure as well as monitoring and managing the Motorola security equipment present on the Customers System.

Motorola Solutions ASTRO 25 Security Monitoring is a complete solution that provides peace of mind and reduces the risk that your network availability will be impacted by a security threat. The solution includes uninterrupted monitoring of the radio network security elements by experienced, specialized security technologists with years of experience working with communications networks like yours. Motorola security technologists keep continuous eyes on your network to detect, analyze, and respond remotely or on-site to security events. This level of service will ensure that the operational impact that any security event may cause to your network is kept to a minimum, and in many instances, eliminated. For highly complex or unusual security events, our technologists have direct and immediate access to Motorola engineers for rapid resolution.

Please refer to the [ASTRO 25 Security Monitoring Service](#) price page.

15. ASTRO 25 Cybersecurity Professional Services - Motorola Solutions Cyber Security Professional Services provide a comprehensive and systematic process for identifying, assessing and managing cyber security risk throughout enterprise systems. With Cyber Security Professional Services, you will be able to fully understand your cyber security risk posture related to your organization's operational environment. Motorola Solutions provides a comprehensive assessment of your attack surface profile; a cost/benefit evaluation and detailed remediation recommendations. With ever-changing technologies and business processes, security threats are always changing and your organization's security posture is never static. Periodic security posture assessments help to maintain a current record of vulnerabilities and help to prioritize remediation activities necessary based on overall risk to your operations. Professional Services feature cover only applicable controls spanning Technical, Management and Operational categories are selected to conduct a tailored risk analysis. Mitigation steps such as security architecture changes, integration of specific products or implementation of procedural control are recommended and discussed with the stakeholders only after the environment is methodically evaluated, risks are identified, analyzed, clearly understood and risk prioritized.

Using physical observation, in-person interviews, manual, computerized, commercially available and custom tools, Motorola Solutions will evaluate potential threat scenarios and assess potential risk implications to confidentiality, integrity and availability of the organization's mission.

All applicable risk factors are considered and taken into account prior and during the assessment. After capturing all necessary data pertaining to the scope of the assessment, a threat profile is developed and prepared as a Risk Scorecard report indicating low, moderate, high and critical values for each finding/issue identified. A remediation or risk acceptance recommendation will follow each finding/issue. Using physical observation, in-person interviews, manual, computerized, commercially available and custom tools, Motorola will evaluate potential threat scenarios and assess potential risk implications to confidentiality, integrity and availability of the organization's mission. Only applicable controls spanning Technical, Managed and Operational categories are selected to conduct a tailored risk analysis. Mitigation steps such as security architecture changes, integration of specific products or implementation of

procedural control are recommended and discussed with the stakeholders only after the environment is methodically evaluated, risks are identified, analyzed, clearly understood and risk prioritized.

Please refer to the [Cybersecurity Professional Services](#) price page.

16. Security Update Service (SUS) & Security Update Remote Delivery Service - Security Update Service (SUS) provides the customer with peace of mind that the 3rd party SW security patches ASTRO uses are vetted for issues before they are applied to their live ASTRO system. These 3rd party patches include weekly anti-malware definition updates, monthly "Patch Tuesday" Microsoft Windows updates, and other operating system patches as they are released.

This service is only available for select ASTRO25 System Releases. Is it critical that this be considered in planning for the duration of a contract and that upgrades be planned for continued support.

Please refer to the [Security Update Services](#) price page.

17. Security Configuration Updates - Security Configuration Updates was formerly known as STIG Updates. The Defense Information Systems Agency (DISA) creates Information Assurance configuration standards for DOD IT systems and devices. These standards are known as Security Technical Implementation Guides (STIGs) and there are numerous STIGS. Currently we are providing STIG updates only for Windows but in the future other operating systems like Linux may be offered.

In every ASTRO release, Windows security configurations are assessed against the STIGs and modified accordingly. The purpose of Security Configuration Updates is to apply those newer updates in older releases to the extent possible.

This service is only available for select ASTRO 25 System Releases. It is critical that this be considered in planning for longer-term contracts so that upgrades are included for continued support.

Please refer to the [Security Configuration Updates](#) price page.

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JUMP TO ...

[GENERAL INFORMATION](#)

[CONTRACTUAL DOCUMENTS](#)

[ORDERING REQUIREMENTS](#)

General Information

Nice Logging Recorder Service Offerings

Warranty uplift and post warranty services provide a level of support for optimal system performance for Motorola certified NICE logging recorders

Motorola standard warranty is equivalent to NICE Silver level of support. When added coverage is required during warranty, uplift to Gold-Lite, Gold and Platinum maintenance services.

Post-warranty Silver, Gold-Lite, Gold and Platinum maintenance services.

Warranty up-lift and post-warranty services are offered under a Motorola Service Agreement.

Contractual Documents

The documents below will outline both the Implementation process and the Ongoing Maintenance process which begins in year two.

STATEMENT OF WORK for:

- [NICE Silver Maintenance](#)
- [NICE Gold-Lite Maintenance](#)
- [NICE Gold Maintenance](#)
- [NICE Platinum Maintenance](#)

TERRITORY MAP

- locations of NICE responders

HOW TO GUIDE

- [Request for Quotation and Contract Process Guideline](#)

All warranty uplift, post warranty and contract renewal opportunities must be quoted by NICE prior to creating a Motorola service agreement.

QUOTE FORM

CUSTOMER SUPPORT PLANS (CSP) for:

- [NICE Silver Maintenance](#)
- [NICE Gold-Lite Maintenance](#)
- [NICE Gold Maintenance](#)
- NICE Platinum (contract your local Customer Support Manager)

Ordering Requirements

1. **These services cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering these services.

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

NICE Inform Recording (NIR) Logging Recorder

Ordering Information

General Information

NIR is a full-featured, compact recording solution designed to meet the needs of first responders, Integrated Command and Control Centers, law-enforcement agencies, and small contact centers. With its state-of-the-art architecture, NIR provides an affordable, easy-to-use and easily maintained solution. It comes with a wide range of features and benefits, and is designed to meet the needs of organizations seeking a powerful and cost-effective recording system.

NIR bundles utilize standard HP Server hardware with options available for server upgrades.

The standard server included in the NIR bundles has the following features:

- Windows 2016 (or 2012) 64 bit OS
- SQL 2016 CAL licenses
- 48,000 hours of on-line storage
- RAID 1 for the hard drives (disk mirroring)
- Dual / redundant power supplies
- HP Rail kit for 4-post cabinet

NIR can record a variety of audio inputs. These include analog inputs (phone and radio), traditional digital telephones (TDM), and VoIP telephones - all within a single recording chassis. NIR also supports CTI integrations for digital and VoIP systems to capture more call data with each recording.

The NIR bundles come in two configurations for a single or parallel system. Each bundle comes with either a single or dual HP ML350 servers. **It is highly recommend that missions critical audio be ordered as parallel systems.**

Either NIR bundle will require Inform Channel licenses (Professional or Elite). Aside from recording licenses, analog and digital (TDM) recording requires audio input boards for the server. VoIP recording does not require audio input boards. Each audio input board provides 24 ports for 2-wire audio feeds.

Some additional features of the solution include:

- G.729A compression (8Kb/s)
- Support for archiving audio to an RDX drive or external USB drive
- Support for archiving audio to a network storage device (i.e. external archiving is native to the product and does not require a separate Storage Center application)
- Archiving to multiple locations for geographic redundancy

Please note that the NIR does not come with a removable archive media such as DVD or DAT.

NIR can be part of an integrated solution with a Motorola MCC 7500 IP Logging Recorder. NIR can be integrated into any Inform Lite or full Inform system. The network storage capability that is native to NIR can also be incorporated into any Storage Center archiving strategy that is set up for the MCC 7500 IP logging recorder.

Please note that the NIR bundle does not include a user software package. NIR can use the Inform package sold with the MCC 7500 IP logging recorder with the appropriate amount of channels ordered. Also note that in small user systems, Inform can be loaded on the NIR server. This can eliminate the need for a separate hardware for the Inform user applications. Please consult with NICE Systems on the limitations of deploying Inform on the NIR recorder.

Parallel Loggers: A parallel recording option is available as an NIR bundle. The parallel bundles have special discounts to encourage the purchase of these options. **Any customer that considers recording to be "Mission Critical" should be quoted parallel recorders.**

Contact Closure Boards (Squelch): Used when recording the analog audio feeds from a 911 telephone system (even VoIP based 911 systems offer analog feeds for each telephone to be recorded). This kit interfaces with the 911 system to use contact closure as the start / stop trigger for recording (replaces the VOX trigger). This provides efficiencies when trying to reconstruct a 911 event. The basic kit provides capacity for up to 96 channels but only includes Activity Detection for up to 24 audio positions. Additional 24-channel cables can be ordered. When used, the NIR logger will have a maximum capacity of 144 channels due to internal card slot usage.

Additional 24 Ports of Activity Detection: Adds additional interface capacity to the basic kit described above.

Server Hardware Upgrade (Additional Storage): There are 1 TB and 6 TB HDD options to increase the internal storage in the NIR recorder. Because the servers are configured with RAID 1, each additional drive should be ordered in pairs to accommodate drives for disk mirroring. The option is limited to a quantity of one to ensure that the order does not exceed the number of drive slots available in the server(s). No more than one set of drives can be added as this will max out the available HD slots.

Ordering Requirements

Ordering Instructions:

1. Each NIR recorder bundle includes the following items:
 - HP ML350 server hardware
 - 48,000 hours of on-line storage
 - RAID 1 (mirrored drives)
 - Hot swappable redundant power supplies 1+1
 - Support for archiving to external USB drives
 - Support for archiving to network storage server
 - Windows 2016 or 2012 64 Bit OS
 - Slide rails for 4-post cabinet / rack
2. Please note that the NIR bundle do not include Inform user software. This must be ordered as a separate line item as either Inform Professional or

- Inform Elite channel licenses.
3. Pricing includes first year warranty maintenance (Monday-Friday, 8 x 5 - excludes international). This warranty includes software patches and fixes, but does not incorporate a SMA/SUA package.
 4. Warranty upgrades to 24 x 7 support are available and can be obtained through your CSM. **This is highly recommended for all Missions Critical logging recorders.**
 5. Pricing does not include any services. Services are ordered separately through the iProcurement system.
 6. For equipment being placed in a 19" two post rack, part number DDN9748A can be ordered. This is a two post rack mount shelf.
 7. The NIR logging recorder can be hardened. However, the NIR is not supported UEM through ASTRO 7.18.
 8. The customer must purchase and install antivirus software on all devices that reside on the customer network. The customer is responsible for keeping the antivirus software and Microsoft patches current. A listing of approved patches and anti-virus software is available at the NICE www.Extranice.com website for telephony equipment residing on the customer enterprise network (CEN). Motorola has approved antivirus for logging equipment residing on the radio network infrastructure (RNI).
 9. When used on ASTRO 7.17 release, you must order replay client TT3106A.
 10. When placing an order for NICE equipment it is important that all product is placed on the same FO/order and not broken out into separate orders. Please contact David Gutteridge at NICE if there is an exceptional circumstance that requires equipment to be broken out into separate FO's.

Pricing Exception Process:

For opportunities above \$500K, a P&L is required. Please contact Pricing and Profitability. For opportunities \$500K or less, a regional approval is required for **all** pricing exceptions. In its simplest form, this would typically be a call or an email from the requestor that provides background information, bid strategy, equipment list (including part number and DNUP/list price), and the target pricing required. PE requests typically state "we need to meet a maximum price of \$X" or "we need an additional 10% off the current price to be competitive", etc... The regional contact, Rich Nita, will then work with NAG Finance on a financial analysis and respond to the requestor with an approval / denial, or a suggested alternative discount. The requestor then provides Rich's email approval authorizing the discount to the person / team doing the order entry.

Additional Information on NICE products is available from NICE directly at their **ExtraNICE business partner portal**. This site provides Motorolans with access to materials published by NICE on their applications, tools, and solutions. The materials include marketing collateral, manuals (user, installation, hardware, etc.), technical notes, FAQ's, and much more. Register at www.extranice.com .

To contact your local NICE sales representative. You can also contact David Gutteridge if you need a local NICE sales rep or have additional questions.

David Gutteridge, Business Development Manager, NICE Systems globally
- David.Gutteridge@NICE.com or 416-729-2626.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
PARALLEL TELEPHONY RECORDERS BASE BUNDLE	-	TT3289	229	\$22,000.00
SINGLE TELEPHONY RECORDER BASE BUNDLE	-	TT3290	229	\$13,000.00

Options

Inform Channels

Description	Full Description	Nomenclature	APC	Price
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00

Recording Interface Boards

Description	Full Description	Nomenclature	APC	Price
ANALOG DIGITAL TRUNK SHORT LENGTH PCI E INTERFACE BOARD NO CABLE	-	DDN2486	229	\$1,375.00
ANALOG DIGITAL TRUNK FULL LENGTH PCI E INTERFACE BOARD WITH NO CABLE	-	DDN2487	229	\$2,200.00

Contact Closure Boards

Description	Full Description	Nomenclature	APC	Price
ACTIVITY DETECTION BY EXTERNAL				

TRIGGER (SQUELCH) (24 INPUTS) (MAX 1)	-	DDN1691	229	\$2,150.00
ADDITIONAL 24 PORTS OF ACTIVITY DETECTION BY EXTERNAL TRIGGER	-	DDN1692	229	\$960.00

HP Servers and Chassis Options

Description	Full Description	Nomenclature	APC	Price
NICE APPLICATIONS SERVER	-	TT2694	229	\$13,936.00
1TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2109	229	\$627.00
6TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2110	229	\$2,800.00
QUAD PORT ETHERNET GIGABIT (NICE PA	-	DDN2161	229	\$1,440.00

Cables and Patch Panels

Description	Full Description	Nomenclature	APC	Price
CONNECTION CABLE 6M FOR ANALOG DIGITAL CARDS	-	DDN2501	229	\$120.00
CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS	-	DDN2502	229	\$178.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90M	-	DDN2503	229	\$240.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90F	-	DDN2504	229	\$240.00
CONNECTION CABLE 15M FOR ANALOG DIGITAL CARDS	-	DDN2505	229	\$356.00
CONNECTION CABLE 20M FOR ANALOG DIGITAL CARDS	-	DDN2506	229	\$466.00

EXTERNAL 600 OHM TERMINATION KIT OF UP TO 10 PAIRS FOR RADIO	-	DDN2507	229	\$580.00
SPLIT SERIAL CABLE RS232 10 METER USED FOR CDR	-	DDN2508	229	\$356.00
MOXA NPORT 1 PORT DEVICE SVR 1 DB9M RS232 PORT 1 10 100 NETWORK PORT	-	DDN2509	229	\$620.00

Trunk Patch Panels & Cables

Description	Full Description	Nomenclature	APC	Price
1U PATCH PANEL 8 E1(S) INPUT OUTPUT LOOPBACK	-	DDN2112	229	\$480.00
1U PATCH PANEL 8 PCM32 S INPUT OUTPUT OUTPUT FOR BT	-	DDN2510	229	\$876.00
1U PP 24A P TWO WIRE INPUT PLUS 10M CABLE TO TELCO CONN	-	DDN2511	229	\$548.00
PRI CABLE 3 X RJ45 TO TELCO 2.5M	-	DDN2220	229	\$274.00
PRI CABLE 3 X RJ45 TO TELCO 4.6M	-	DDN2219	229	\$328.00
RJ45 E1 LOOP BACK ADAPTER USED FOR EADS	-	DDN2512	229	\$138.00
1U PATCH PANEL 8 E1 S INPUT OUTPUT OUTPUT LOOPBACK	-	DDN2513	229	\$876.00

Media Pack Physical Delivery

Description	Full Description	Nomenclature	APC	Price
MEDIA PACK PHYSICAL SOFTWARE DELIVERY PER INSTALLED SITE	-	DDN2517	229	\$330.00

Accessories

Alarm Options, SQL/MySQL Server/Operating Systems, Miscellaneous Items

Description	Full Description	Nomenclature	APC	Price
SNMP MANAGEMENT APPLICATION	-	DDN7532	229	\$2,400.00
RELAY BOARD FOR EXTERNAL ALARMING 12V	-	DDN2518	229	\$3,000.00
RELAY BOARD FOR EXTERNAL ALARMING 24V	-	DDN2519	229	\$3,000.00
MYSQL SERVER LICENSE STANDARD EDITION	-	DDN2523	229	\$440.00
MYSQL SERVER LICENSE ENTERPRISE EDITION	-	DDN2524	229	\$10,800.00
ELTIMA SERIAL SPLITTER SOFTWARE	-	DDN2527	229	\$200.00
MICROSOFT WINDOWS 2016	-	DDN2525	229	\$980.00
MICROSOFT WINDOWS 2008	-	DDN2526	229	\$800.00
WINDOWS SERVER 2012 STD OS	-	DDN2262	229	\$1,000.00
SPARES TO SUPPORT DL 380 G9	-	DDN2107	229	\$4,706.00
SPARES TO SUPPORT ML350 G9	-	DDN2116	229	\$3,392.00
NRX UPGRADE EXPANSION KIT FOR ML350	-	DDN2162	229	\$2,024.00
17 IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 16 PORTS, CABLES	-	DDN2092	229	\$7,924.00
17IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 8 PORTS, CABLES	-	DDN2093	229	\$6,358.00

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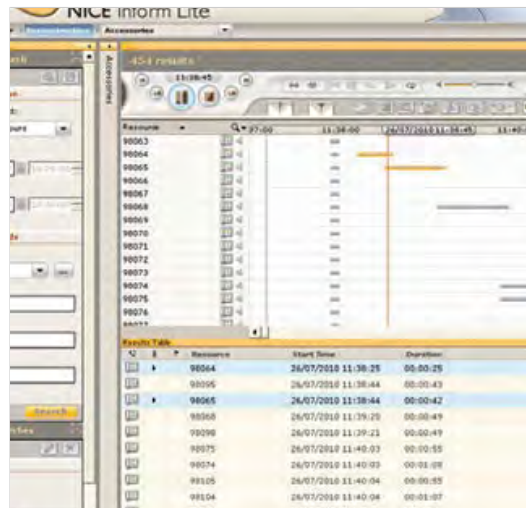
[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

[CONFIGURATION](#)

Model



NICE Inform Release R9.0

Updates

PLEASE NOTE: The Standard Support Period for the 7.11 Release ends on June 30, 2017. Any software and hardware expansions on this release will no longer be supported after this date. Click [here](#) for additional information.

ASTRO Release 7.13 to 7.16 releases require Inform R5.1 or later versions.

ASTRO Release 7.17 or later requires Full Inform 7.2 or later versions.

NICE Inform is a full-spectrum incident information management solution that captures, consolidates, manages, and analyzes incident information from multimedia sources for faster incident reconstruction, greater insight and improved response. NICE Inform is a browser-based application suite for organizations (Public Safety, Transportation, Utilities, etc.) that pieces together incidents in a highly visual and intuitive way; all laid out in a time sequence on a graphical display. It is a modular suite of applications comprised of:

Reconstruction module - Search / Playback / Save functionality for quick multimedia and multi-source search and incident recreation for investigation purposes.

Organizer module - Organize and manage audio files as well as other media files (such as photos, video, etc.) in a secure folder. **Inform Media Player** - Send files via e-mail in a secure manner. Audio files can be shared electronically while still encoded. Senders can add on Inform Media Player that recipients access with a password. The Player opens to provide recipients with a fully functional Inform GUI that allows them to review the recordings just as if they were connected to the Inform system.

Monitor module - for Supervisor visibility to real-time communications in the call center.

Administrator applications - includes system administrator, user administration, and audit applications.

Inform Matrix - Create a connected web of Inform systems across multiple sites to provide efficiencies in network traffic and performance. Also allows for a blending of centralized and local administrative controls of the system.

Quality Monitoring - Evaluating - A requirement in many Public Safety organizations. Provides customizable on-line forms to evaluation and review agent performance and provide instruction/feedback.

Report - Provides statistics and graphs on the results of the Quality Monitoring effort. Also provides usage statistics, showing customers call volumes by channel, time, etc.

Analytics - Search on spoken keywords and phrases across all calls to quickly find additional calls related to incidents and uncover evidence to expedite investigations. Also enhances customer's Quality Monitoring efforts.

Screen Reporting - Record screen activity on a PC (such as the CAD screen) to add to incident review and evaluation procedures.

Text 911 Recording - Record all interactions with the PSAP that occurred via Text to 911.

UNS Interface for Geospatial Data - Provides the Latitude and Longitude data with each PTT. Plotted on a map to give customers a visual representation of recorded events.

Resiliency - A second iteration of Inform and its applications. It will take over in the event of a failure in the primary Inform system. It can provide load-sharing functionality.

NICE Inform provides for:

- Streamlining of investigations

- Improving interoperability within and between agencies by facilitating secure on-line information sharing
- Automation and simplicity of incident management process
- Secure and tamper-proof infrastructure for sensitive evidence
- Improved services to the public

The basic Inform package comes with the following applications / features:

- Reconstruction
- System Administration
- Audit

The additional modules/features are optional and can be added to the system at any time.

Reconstruction Application

NICE Inform Reconstruction application is the main search and playback tool in NICE Inform. The Reconstruction application enables searches for recordings stored on various NICE logging recorders, then plays them back as a complete scenario or as a single recording channel. When a search is completed, the results are presented in both a table format and a graphical timeline format. NICE Inform is 'layered on top' of the NICE recording capture devices and views them as one logical system. The application is similar to the Scenario Replay application that shipped with the NiceLog, NiceCall Focus III, and MCC 7500 IP logging recorders in the past.

System Administration

The Inform system administration application enables administrators to install and set up the physical NICE Inform servers and to add labels to the various system entities. The principal activities involved with system administration include:

Privileges:

- Creation, editing, and deletion of recording systems
- Importing and exporting resources from or to a file
- Importing and exporting resources from or to a system

User Administration

- Set up system-wide and user-by-user security for Inform
- Creation, editing, and deletion of user and group accounts

Audit Application

Enables the user to view and manage the Audit events raised within the Inform system. These are events related to any kind of user interaction with the system including login/logout, tasks, etc.

Client Applications

The client application runs on a PC and provides the interface to the user. The applications communicate with the Inform server, providing a single communication link between the user application and the system.

NICE Inform Server

As a .NET application, Inform delivers applications to users via a server. Users log into a server via Internet Explorer at the desktop. The Inform server requires appropriate MS SQL licensing.

Organizer Application

Organizer is an incident management application that provides the ability to manage incident information. It works independently from the recording platform, providing the ability to collect and organize materials related to an incident. All material can be 'Authenticated' to verify that copies of the recording and digital material are true, unaltered copies of the original.

Distribution can be done in a variety of ways, such as by saving the calls into one or more ".wav" files, to an audio cassette recorder, DVD, email, etc. as well as by sharing specific incident folder on-line with users that have access to the NICE Inform server. All actions in the incident preparation, modification, or distribution are tagged with unique file numbers, incident numbers, and other reference information for historical tracking and quick lookup.

An optional item within Organizer is the **Inform Media Player**. It allows Users to attach the Inform Reconstruction Player and CODEC with a copied audio file. This allows Users to present audio to recipients that are not connected to the recording solution in a compressed and encoded (secure) format. The recorded copy will also retain other features of Inform such as the time/date stamp and the spoken date and time. Recipients will also be able to view the audio files in the graphic time-line format in Inform Reconstruction.

Monitor Application

A multi-channel audio live monitor application used by Supervisors allowing visibility in real-time of the communications

managed by the call takers, dispatchers, or both. The Monitor application also allows for recent call replay so supervisors can verify the details of specific interaction.

Inform Matrix Server

Provides an optional server matrix that sets up Inform servers as "hubs" and "pointers". The "pointer" servers can access and leverage the database and licensing of a "hub" server. In a multi-site, multi-org solution, this provides a couple of important advantages over Inform R3. It reduces channel license costs because the pointer server can use the channel licensing in the hub server. For example, if a hub server is licensed for 2 IP Radio Loggers, the pointer server does not require those licenses.

It also makes Inform more efficient on the network. Pointer servers can manage the search/playback process for local loggers and the hub servers it is connect to. This puts an end to audio playback from a local logger having to go all the way to the primary Inform server and then back again to the local user. Using the Inform R4 server matrix accessing the local loggers remains local and does not require use of the WAN. In addition, local users have more admin and access control over the local loggers they own.

UNS Integration - A NICE Location Server can collect device location information from a Motorola UNS server and create a corresponding record containing the Latitude / Longitude data for a call. NICE Inform Reconstruction can then match the location information with the corresponding call metadata and present a combined record to the user. This metadata can then be searched and presented visually using ESRI Maps or as a data field in a call record.

Evaluator - Quality Assurance

Reviewing incidents to provide training and ensuring compliance with regulations and procedures is a large part of the supervisor everyday job. Evaluator provides tools and features that make the job much easier - and make the supervisor more efficient and effective.

Evaluator is an application within the Inform GUI. This allows Supervisors to find and review recordings (ex: audio, Text-911, screens, etc.) as well as score/evaluate them from a single GUI interface. No need to jump from one application to the other. Evaluator meets both APCO/NENA and CALEA QA standards.

Supervisors can construct evaluation forms on-line using a wide variety of scoring/evaluating criteria. They can link each evaluation to the recordings, for easy review later. Evaluator also provides a Scheduler that allows supervisors to automate the call selection process (improving impartiality and efficiency).

Evaluator also offers integration into AQUA (Priority Dispatch) and APCO 9-1-1 Advisor (Smart Horizons).

Reporter

There are two types of reports. First, Reporter can show a variety results and trends for the Quality Assurance results in Evaluator. The second type of report is a usage report. Reporter can show data such as which channels or Talk Groups are busiest, what time of day has the most traffic, etc. Reporter also allows Supervisor to set up a customized dashboard to monitor the data that is most interesting to them.

Analytics

Searching audio and text recordings for spoken/typed words and phrases is an extremely powerful tool for both reconstructing an event as well as for Quality Assurance.

Customers can use analytics to find recordings that would otherwise be very difficult to find. The result being that users can find more information, better information, faster. For example, if a user needs to find all 911 calls that reference a "œred truck", the user can use analytics to find any call where the phrase "œred truck"™ is spoken.

This is equally powerful for Quality Monitoring, and checking on compliance and procedures. For Example, a 911 caller should never hear the words "œon-hold". A Supervisor could review all calls in the past month where the phrase "œon-hold" is spoken. This gives them immediate access to calls where a breach in protocol may have occurred.

The NICE Systems analytics package is one of the most, if not most, advanced and powerful in the industry. Users can have access to these powerful tools, and wait times for search results is measured in a few seconds.

Screen Recording

This feature is growing in popularity. Along with recording the audio and text of 911 events, many customers want to record the screens of the call takers and dispatchers (its like watching a video of their screen activity during the call). This helps/enhances their Quality Assurance efforts by being able to watch how quickly data is entered and screens are navigated. They can also review the accuracy of the data entered.

Inform lets supervisors easily sync media recordings for playback simultaneously. Screen recording playback and audio playback can be synchronized on the same timeline. The Inform GUI provides users with a graphic timeline display showing the start time and end time if each media recording.

Text - 911 Recording

NICE Systems provides text recording for a variety of vendors and standards. Also, NICE captures the SMS data feed rather than just capturing a screen-shot of the text. This means customers can use the standard Inform search tools (as well as analytics tools) to find relevant Text-911 recordings. Like other media capture, the Text-911 recordings appear in the Inform GUI on the graphic timeline. This provides ease of access and a clear understanding of a sequence of events.

UNS Interface

NICE offers an interface to the Motorola Solutions' UNS server to deliver the longitude and latitude of each PTT transmission. This data become part of the call record. It is searchable criteria and is displayed in the search results. More importantly, the Long. and Lat. data can be displayed graphically on a map. Users would be able to view the sequence and location of each PTT on the map - aiding overall understanding of the sequence of events.

Resiliency

Providing redundancy is key to ensuring happy customers. Inform offers a resiliency package - which is a redundant Inform server with an Inform licensing profile that is identical to the Primary server. The Primary and Secondary servers are in constant communication. When communication to the Primary server is lost, the Secondary server automatically takes over and all user requests are routed to the Secondary server.

Ordering Information

Ordering Requirements

SERVICES ARE NOT INCLUDED IN ECAT MODELS - THESE ARE QUOTED AND ORDERED SEPARATELY.

The Inform software bundle includes everything required to deliver an Inform solution (with the exception of Training). This includes everything included with the tier of channels ordered (Inform Professional or Inform Elite)

Inform DOES NOT include User Training. NICE or a participating dealer installation technician will provide a short demonstration of the basic functions of the search and replay application. The demonstration is not intended to provide a thorough understanding of the operation of the system. Training for new customers will be quoted as part of the services proposal from NICE Systems. Training provides a full day of in-depth instructor led product training and Q&A for up to six customer personnel.

Inform can installed on the MCC 7500 IP Logging Recorder backup server starting in 7.17. It can also run on an NIR telephone recorder or a stand-alone server. Please consult with NICE Systems as to the best configuration for your customer.

Ordering Instructions for Inform Application:

1. Pricing includes first year **SILVER** warranty maintenance (Monday - Friday, 8 -5) (Except International) - **if 24x7 SUPPORT is required, please contact the Motorola field CSM for a quotation.**
2. Anti-Virus should be ordered separately. The customer is responsible for keeping the antivirus software and Microsoft patches current. A list of approved patches and antivirus software are available at the NICE www.Extranice.com website for telephony equipment residing on the customer enterprise network (CEN).
3. An Uninterruptible Power Supply (UPS) is strongly recommended for use in any logging recorder/Inform installation. These are not supplied as part of the logging solution and are expected to be supplied by the customer.
4. When placing an order for NICE equipment it is important that all product is placed on the same FO/order and not broken out into separate orders. Please contact David Gutteridge at NICE if there is an exceptional circumstance that requires equipment to be broken out into separate FO's.

SERVICES ARE REQUIRED, BUT NOT INCLUDED IN PCAT MODELS ON THIS PAGE.

1. Pricing does NOT include a Remote Project Manager. Call NICE Systems for a services quote. If you do not know your NICE Systems sales rep, please contact David.Gutteridge, NICE Systems, [416-729-2626](tel:416-729-2626) or David.Gutteridge@NICE.com.
2. Pricing does not includes installation. This must be quoted separately by NICE and ordered by the field team. When ordered, a factory-trained and certified professional service representative will perform the implementation. Pricing includes Installation in Domestic United States and most Canadian Cities (Alaska, Hawaii, remote regions of Canada and International require additional service quotation from NICE, please contact David Gutteridge @ NICE Systems, [416-729-2626](tel:416-729-2626) or David.Gutteridge@NICE.com .
3. Pricing does not include on-site training. Training is highly recommended to ensure customer satisfaction with using the product. NICE will quote training and the pricing will include all travel expenses within the continental United States and most cities in Canada. Included with Inform is only a basic tutorial of the Inform Lite application by the

installation technician.

4. **IMPORTANT: The Motorola field PM needs to contact NICE to schedule installation.**

5. For recording solutions that include an MCC7500 IP Logging Recorder, if the customer desires search/playback capabilities on the Customer Enterprise Network (CEN), there must be a Motorola Firewall between the RNI and the CEN. Motorola must configure the Motorola Firewall to allow the Inform server to communicate with the MCC7500 IP Logging Recorder. The Motorola field engineering team is responsible for the design of this integrated solution - including support from ST's or engineers.

6. Selling NICE Inform is a process in selling Value-Adds. It is highly recommended that a NICE Sales Representative be consulted during the selling process. Utilizing a NICE Representative will result in the following benefits:

- A higher success rate for sales
- Reduced chance of configuration error
- Improved chances for up-sell opportunities
- To contact your local NICE Sales Rep, please contact

David Gutteridge, Business Development Manager, NICE Systems, [416-729-2626](tel:416-729-2626) or David.Gutteridge@nice.com

Ordering Instructions For Inform Tiers:

Ordering Inform channels (Professional or Elite) for the logging solution will include everything required to deliver a basic turnkey Inform solution. Please note that services (installation, PM, and training) as well as uplift maintenance to 24x7 are ordered separately and are not included in the PCAT bundle prices below.

Options:

Professional Channel Licenses: When choosing this tier, it is required to have one for each primary recording channel in the system (parallel channels are optional sold separately). For example, if the order included a single 25 simultaneous call MCC 7500 IP Logging Recorder and a single 64 channel NIR, this would require 89 Professional channel licenses. The applications defined above will be included as a part of this channel tier. The exception to this is the ASTRO 120-channel Professional bundles (single or parallel) where the 120-channels are already included.

Elite Channel Licenses: When choosing this tier, it is required to have one for each **primary** recording channel in the system (parallel channel licenses are included). For example, if the order included parallel 60 simultaneous call MCC 7500 IP Logging Recorders and parallel 48 channel NIRs, this would require 108 Elite channel licenses. The applications defined above will be included as a part of this channel tier. The exception to this is the ASTRO 120-channel Elite bundle where the Elite channel licenses are already included.

Resilient (Parallel) Recording channel License: Resilient/parallel channel license that is **required** for all primary MCC 7500 IP Logging Recorder channels where a parallel bundle is ordered. It must be in the same quantity as the primary channels. The exception to this rule is that the ASTRO 120-channel parallel bundles (Professional or Elite) that already have the parallel licensing included.

P25 Channel License: A P25 channel license is **required** for all primary MCC 7500 IP Logging Recorder channels. The exception to this rule is that all ASTRO 120-channel bundles already have the P25 licensing included.

Inform Module Resiliency Option: This is used to create / implement a hot-standby (or secondary) Inform server with appropriate licensing. The secondary server receives Inform database back-ups from the primary server on a regular basis. In the event that the primary Inform server goes down, the Inform back-up server can be brought on-line quickly and access to the applications restored. This licensing is included with the Inform Elite tier.

Add-on/Matrix/Professional Channel License: Professional tier channel license that is required to connect Inform to an existing logging system that is not a part of a new order. This could be the logger channels at a hub location in a Matrix environment or connecting to a legacy logger, etc.

Add-on/Matrix/Professional Resilient Channel License: Channel license for a parallel Add-on/Matrix channel.

Add-on/Matrix/Elite Channel License: Elite tier channel license that is required to connect Inform to an existing logging system that is not a part of a new order. This could be the logger channels at a hub location in a Matrix environment or connecting to a legacy logger, etc.

Screen Recording Channel License: A screen recording channel license for each PC that is required to have its screen recorded to an NIR Logger.

Text-to-911 Recording License: A license for each Call Taker position that is capable of receiving incoming SMS/Text messages from 911.

Evidence Pack: Includes the applications listed above. One license to be ordered per primary logging channel in the solution.

QA Pack: Includes the applications listed above. One license to be ordered per primary logging channels in the

solution.

Business Intelligence Dashboards (Elite option only): One license to be ordered per primary logging channels in the solution.

General Ordering Instructions for the Inform Application outside of an upgrade to A7.17 release

1. Select the appropriate logger bundle.
2. Select the NICE Inform tier and order the corresponding amount of logger channels
3. Select the system release flag.
4. Optional: Select Additional items that are not included with the Inform tier selected.
5. Services (PM, Installation, and Training) are ordered separately. Call NICE Systems for a quote. If you don't know your NICE sales rep, please contact David Gutteridge at [416-729-2626](tel:416-729-2626) or David.Gutteridge@NICE.com.

Selling NICE Inform is a process in selling Value-Adds. It is highly recommended that a NICE Sales Representative be consulted during the selling process. Utilizing a NICE Representative will result in the following benefits:

- A higher success rate for sales
- Reduced chance of configuration error
- Improved chances for up-sell opportunities
- To contact your local NICE Sales Rep, please contact

David Gutteridge, Business Development Manager, NICE Systems, [416-729-2626](tel:416-729-2626) or David.Gutteridge@nice.com

Additional Information on NICE products is available from NICE directly at their **ExtraNICE business partner portal**. This site provides Motorolans with access to materials published by NICE on their applications, tools, and solutions. The materials include marketing collateral, manuals (user, installation, hardware, etc.), technical notes, FAQ's, and much more. Register at www.extranice.com. Please contact Greg Vasilopoulos in product marketing with additional questions.

Additional information is available on the Motorola Solutions Logging Wiki:

<http://compass.mot-solutions.com/cgi/web/loggingsolutions>

ORDERING UPGRADES

***** Ordering Instructions for NICE Inform for customers upgrading to ASTRO 7.17+ release: *****

Customer migrating the MCC 7500 IP Logging Recorder(s) to A7.17 (or later releases) who are currently using Inform Lite on the RNI must upgrade to Full Inform. For these customers, NICE is providing the Full Inform (certified version on the RNI) software free of charge. Please note that unlike Inform Lite, Full Inform will require a server. The server can be the MCC 7500 IP Radio Logger backup server, an NRX server, or a dedicated server. Please consult with NICE for the best / optimal configuration for your customer. For customers installing Inform a previously existing MCC 7500 backup server, DDN2269A must be ordered. This upgrades the HD, RAM, SQL elements of the existing server to allow it to support Full Inform.

Full Inform will provide customers with improved functionality over Inform Lite and a better road map to many NG 911 features such as Text-911 recording, CAD integrations, Screen Capture, and more. It represents significant value for our customers.

Inform upgrades independent of ASTRO system release

Starting with Inform 8, Inform upgrades will now also include an upgrade to the telephony logger (NIR) at the same time. The Inform version and NIR version, when used together in the same solution, must be at the same version.

Please contact NICE sales for a quote on an Inform upgrade or expansion.

Pricing for these upgrades will be based on a **percentage off of list price** depending on the how many versions and which tier the upgrade is from. The pricing matrix is below where **N is the current version of Inform**.

	Legacy (older than 3 versions)	N-3 Lite	N-3 Pro	N-2 Lite	N-2 Pro	N-1 Lite	N-1 Pro	N Pro
Current Version								

Target Version:	NICE Professional	List	10%	40%	30%	60%	60%	80%	-
	NICE Elite	List	List	List	10%	30%	15%	50%	60%

Telephony upgrade to new R8 Platforms

Radio logger only upgrades are a separate item on the Radio Logger Price Page

All Percentages are Discount (reduction to list)

Configuration

General Information

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$52,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00
ADD: INFORM PRO RESILIENT CHANNEL PER CHANNEL	-	TT06308AA	229	\$220.00
ADD: INFORM PRO MODULE RESILIENCE PER CHANNEL	-	TT06309AA	229	\$55.00
ADD: INFORM PRO PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06310AA	229	\$220.00
ADD: INFORM PRO RESILIENT PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06311AA	229	\$110.00
ADD: INFORM ELITE PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06316AA	229	\$550.00
ADD: ASTRO RECORDING CHANNEL	-	TT06305AA	229	\$220.00
ADD: SCREEN RECORDING CHANNEL	-	TT06306AA	229	\$550.00

ADD: INFORM PRO TEXT RECORDING CHANNEL LICENSE	-	TT06312AA	229	\$220.00
ADD: INFORM PRO EVIDENCE COMPLIANCE PACK ORGANIZER AND MEDIA PLAYER	-	TT06313AA	229	\$220.00
ADD: INFORM PRO QA PACK EVALUATOR AND REPORTER	-	TT06314AA	229	\$220.00
ADD: INFORM ELITE INCIDENT INTELLIGENCE DASHBOARDS	-	TT06318AA	229	\$330.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TCS	TT3284	PARALLEL ASTRO RECORDERS BASE BUNDLE	229	40
QUOTEDS	TCS	TT3285	SINGLE ASTRO RECORDER BASE BUNDLE	229	40
QUOTEDS	TCS	TT3286	PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	229	40
QUOTEDS	TCS	TT3287	SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	229	40
QUOTEDS	TCS	TT3288	PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	229	40

Configuration

JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

OnSite Infrastructure Response Service with Local Dispatch

Ordering Information

General Information

With OnSite Infrastructure Response with Local Dispatch, technicians are dispatched from the MSS/FSO location directly to the customer site to perform diagnostics, remove failed components, and reinstall new or reconditioned components to restore the system.

Features

- Motorola Technical Expertise
- On-site Motorola Authorized Servicer
- Response is 24 x 7x 365 for Severity 1

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

OnSite Infrastructure Response and Dispatch Service

1.0 Description of Service

OnSite Infrastructure Response provides for on-site technician Response by a Servicer. A Servicer will respond to the Customer location based on pre-defined Severity Levels set forth in the Severity Definitions Table and Response times set forth in the Response Time Table in order to Restore the System.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable Agreement to which it is attached and made a part thereof by this reference.

2.0 Motorola Servicer has the following responsibilities:

- 2.1 Continuously receive service requests.
- 2.2 Assign and dispatch technical resources and provide estimated time of arrival (ETA) to Customer.
- 2.3 Servicer will perform the following on-site:
 - 2.3.1. Run diagnostics on the Infrastructure or FRU
 - 2.3.2. Replace defective Infrastructure or FRU, as applicable. Customer, Servicer or Motorola may provide Infrastructure or FRU.
 - 2.3.3. Provide materials, tools, documentation, physical planning manuals, diagnostic/test equipment and any other requirements necessary to perform the Maintenance service.
 - 2.3.4. If a third party Vendor is needed to Restore the System, the Servicer may accompany that Vendor onto the Customer's premises.
- 2.4 Verify with Customer that Restoration is complete or System is functional. If Customer cannot be contacted within twenty (20) minutes of Restoration, the Servicer will leave the Customer site.
- 2.5 Provide the service ticket document to Customer, when requested. Service ticket document should include the following:
 - 2.5.1 Resolution action.
 - 2.5.2 Provide defective FRU or part number (model #) used.

3.0 Customer has the following responsibilities:

- 3.1 Contact Servicer, as necessary, to request service Continuously.
- 3.2 Allow Servicers access to Equipment.
- 3.3 Supply Infrastructure or FRU as needed in order for Motorola to Restore the System as set forth in paragraph 2.3.2.
- 3.4 Maintain and store in an easily accessible location any and all Software needed to Restore the System.
- 3.5 Maintain and store in an easily accessible location proper System backups.
- 3.6 For E911 systems, test the secondary/backup PSAP connection to be prepared in the event of a catastrophic failure of a system. Train appropriate personnel on the procedures to perform the function of switching to the backup PSAP.
- 3.7 Contact the Servicer upon expiration of Response time goal.
- 3.8 Upon being contacted by the Servicer requesting Verification of a Restoration as described above in Section 2.4, respond to that request within twenty (20) minutes.
- 3.9 Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide this service.

Severity Definitions Table

Severity Level	Problem Types
Severity 1	<ul style="list-style-type: none">• Response is provided Continuously• Major system failure• 33% of System Down• 33% of Site channels down• Site Environment Alarms (smoke, access, temp, A/C Power)• This level is meant to represent a major issue that results in an unusable system, sub-system, Product, or critical features from the Customer's

perspective. No Work-around or immediate solution is available.

- Severity 2
- Response during Standard Business Day
 - Significant System Impairment not to exceed 33% of system down
 - System problems presently being monitored
 - This level is meant to represent a moderate issue that limits a Customer's normal use of the system, sub-system, product, or major non-critical features from a Customer's perspective

- Severity 3
- Response is provided Standard Business Day
 - Intermittent problems
 - Informational questions
 - Upgrades/preventative maintenance
 - This level is meant to represent a minor issue that does not preclude use of the system, sub-system, product, or critical features from a Customer's perspective. It may also represent a cosmetic issue, including documentation errors, general usage questions, recommendations for product enhancements or modifications, and scheduled events such as preventative maintenance or product/system upgrades

Response Times Table (Customer's Response Time Classification is designated in the Service Agreement).

Severity Level	Regular Response Time	Premier Response Time	Limited Response Time
Severity 1	Within 4 hours from receipt of Notification Continuously	Within 2 hours from receipt of Notification Continuously	Within 4 hours from receipt of Notification Standard Business Day
Severity 2	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day
Severity 3	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day

Approved by Motorola Contracts & Compliance 12/19/03

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option

description.

5. All dollar amounts reflect an annual one year pricing.
6. Do not order OnSite Infrastructure Response or Dispatch Service. OnSite Infrastructure Response with Local Dispatch replaces these two services.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SMSS	SVC01SVC1424	ONSITE INFRASTRUCTURE RESPONSE WITH LOCAL DISPATCH	769	15

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

OnSite Infrastructure Response Service (Limited) with Local Dispatch

Ordering Information

General Information

With OnSite Infrastructure Response with Local Dispatch, Limited Option, technicians are dispatched from the MSS/FSO location directly to the customer site to perform diagnostics, remove failed components, and reinstall new or reconditioned components to restore the system.

Features

- Motorola Technical Expertise
- Resonse within next business day
- On-site Motorola Authorized Servicer

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

OnSite Infrastructure Response and Dispatch Service

1.0 Description of Service

OnSite Infrastructure Response provides for on-site technician Response by a Servicer. A Servicer will respond to the Customer location based on pre-defined Severity Levels set forth in the Severity Definitions Table and Response times set forth in the Response Time Table in order to Restore the System.

The terms and conditions of this Statement of Work (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable Agreement to which it is attached and made a part thereof by this reference.

2.0 Motorola Servicer has the following responsibilities:

- 2.1 Continuously receive service requests.
- 2.2 Assign and dispatch technical resources and provide estimated time of arrival (ETA) to Customer.
- 2.3 Servicer will perform the following on-site:
 - 2.3.1. Run diagnostics on the Infrastructure or FRU
 - 2.3.2. Replace defective Infrastructure or FRU, as applicable. Customer, Servicer or Motorola may provide Infrastructure or FRU.
 - 2.3.3. Provide materials, tools, documentation, physical planning manuals, diagnostic/test equipment and any other requirements necessary to perform the Maintenance service.
 - 2.3.4. If a third party Vendor is needed to Restore the System, the Servicer may accompany that Vendor onto the Customer's premises.
- 2.4 Verify with Customer that Restoration is complete or System is functional. If Customer cannot be contacted within twenty (20) minutes of Restoration, the Servicer will leave the Customer site.
- 2.5 Provide the service ticket document to Customer, when requested. Service ticket document should include the following:
 - 2.5.1 Resolution action.
 - 2.5.2 Provide defective FRU or part number (model #) used.

3.0 Customer has the following responsibilities:

- 3.1 Contact Servicer, as necessary, to request service Continuously.
- 3.2 Allow Servicers access to Equipment.
- 3.3 Supply Infrastructure or FRU as needed in order for Motorola to Restore the System as set forth in paragraph 2.3.2.
- 3.4 Maintain and store in an easily accessible location any and all Software needed to Restore the System.
- 3.5 Maintain and store in an easily accessible location proper System backups.
- 3.6 For E911 systems, test the secondary/backup PSAP connection to be prepared in the event of a catastrophic failure of a system. Train appropriate personnel on the procedures to perform the function of switching to the backup PSAP.
- 3.7 Contact the Servicer upon expiration of Response time goal.
- 3.8 Upon being contacted by the Servicer requesting Verification of a Restoration as described above in Section 2.4, respond to that request within twenty (20) minutes.
- 3.9 Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide this service.

Severity Definitions Table

Severity Level	Problem Types
Severity 1	<ul style="list-style-type: none">• Response is provided Continuously• Major system failure• 33% of System Down• 33% of Site channels down• Site Environment Alarms (smoke, access, temp, A/C Power)• This level is meant to represent a major issue that results in an unusable system, sub-system, Product, or critical features from the Customer's

perspective. No Work-around or immediate solution is available.

- Severity 2
- Response during Standard Business Day
 - Significant System Impairment not to exceed 33% of system down
 - System problems presently being monitored
 - This level is meant to represent a moderate issue that limits a Customer's normal use of the system, sub-system, product, or major non-critical features from a Customer's perspective

- Severity 3
- Response is provided Standard Business Day
 - Intermittent problems
 - Informational questions
 - Upgrades/preventative maintenance
 - This level is meant to represent a minor issue that does not preclude use of the system, sub-system, product, or critical features from a Customer's perspective. It may also represent a cosmetic issue, including documentation errors, general usage questions, recommendations for product enhancements or modifications, and scheduled events such as preventative maintenance or product/system upgrades

Response Times Table (Customer's Response Time Classification is designated in the Service Agreement).

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Severity 2	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day
Severity 3	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.

5. All dollar amounts reflect an annual one year pricing.
6. Do not order OnSite Infrastructure Response or Dispatch Service. OnSite Infrastructure Response with Local Dispatch replaces these two services.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SMSS	SVC01SVC1425	OIR WITH LOCAL DISPATCH, LIMITED	984	40

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**OnSite Infrastructure Response Service
(Premier) with Local Dispatch**

Ordering Information

General Information

With OnSite Infrastructure Response with Local Dispatch, Premier Option, technicians are dispatched from the MSS/FSO location directly to the customer site to perform diagnostics, remove failed components, and reinstall new or reconditioned components to restore the system.

Features

- Motorola Technical Expertise
- Resonse is 24 x 7x 365 for Severity 1
- On-site Motorola Authorized Servicer

Statement of Work

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Definitions

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Statement of Work

OnSite Infrastructure Response and Dispatch Service

1.0 Description of Service

OnSite Infrastructure Response provides for on-site technician Response by a Servicer. A Servicer will respond to the Customer location based on pre-defined Severity Levels set forth in the Severity Definitions Table and Response times set forth in the Response Time Table in order to Restore the System.

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 - 2.5.1 Resolution action.
 - 2.5.2 Provide defective FRU or part number (model #) used.

3.0 Customer has the following responsibilities:

- 3.1 Contact Servicer, as necessary, to request service Continuously.
- 3.2 Allow Servicers access to Equipment.
- 3.3 Supply Infrastructure or FRU as needed in order for Motorola to Restore the System as set forth in paragraph 2.3.2.
- 3.4 Maintain and store in an easily accessible location any and all Software needed to Restore the System.
- 3.5 Maintain and store in an easily accessible location proper System backups.
- 3.6 For E911 systems, test the secondary/backup PSAP connection to be prepared in the event of a catastrophic failure of a system. Train appropriate personnel on the procedures to perform the function of switching to the backup PSAP.
- 3.7 Contact the Servicer upon expiration of Response time goal.
- 3.8 Upon being contacted by the Servicer requesting Verification of a Restoration as described above in Section 2.4, respond to that request within twenty (20) minutes.
- 3.9 Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide this service.

Severity Definitions Table

Severity Level	Problem Types
Severity 1	<ul style="list-style-type: none">• Response is provided Continuously• Major system failure• 33% of System Down• 33% of Site channels down• Site Environment Alarms (smoke, access, temp, A/C Power)• This level is meant to represent a major issue that results in an unusable system, sub-system, Product, or critical features from the Customer's

perspective. No Work-around or immediate solution is available.

- Severity 2
- Response during Standard Business Day
 - Significant System Impairment not to exceed 33% of system down
 - System problems presently being monitored
 - This level is meant to represent a moderate issue that limits a Customer's normal use of the system, sub-system, product, or major non-critical features from a Customer's perspective

- Severity 3
- Response is provided Standard Business Day
 - Intermittent problems
 - Informational questions
 - Upgrades/preventative maintenance
 - This level is meant to represent a minor issue that does not preclude use of the system, sub-system, product, or critical features from a Customer's perspective. It may also represent a cosmetic issue, including documentation errors, general usage questions, recommendations for product enhancements or modifications, and scheduled events such as preventative maintenance or product/system upgrades

Response Times Table (Customer's Response Time Classification is designated in the Service Agreement).

Severity Level	Regular Response Time	Premier Response Time	Limited Response Time
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Severity 2	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day	Within 4 hours from receipt of Notification Standard Business Day
Severity 3	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day	Within 24 hours from receipt of Notification Standard Business Day

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.

5. All dollar amounts reflect an annual one year pricing.
6. Do not order OnSite Infrastructure Response or Dispatch Service. OnSite Infrastructure Response with Local Dispatch replaces these two services.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC1426C	ONSITE RESPONSE-LOCAL DISPATCH-PREMIER	0882	

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

On Premises Security Ops Center

Ordering Information

General Information

Installed inside your network, Motorola's On-Premise Security Operations Center allows you to effectively monitor unusual security activities. Minimal in comparison to the investment, time, technology and resources required to establish and maintain an internally owned and operated SOC, the unsurpassed monitoring technology in Motorola's On-Premise Security Operations Center covers:

- Firewalls, intrusion detection sensors, authentication and logging servers
- Worm, virus and other malicious activity
- Network vulnerabilities
- Abnormal network activity
- Compromised host command and control communication
- Advanced behavioral analytics

Features

Holistic event traffic insights. Capture and examination of system logs throughout your network infrastructure, devices, operating systems, software and applications.

Continuous monitoring. With the capability to function in attended and unattended modes, your system can be monitored round-the-clock without the presence of a physical resource 24x7.

Powerful correlation performance. Use of state-of-the-art "semantic correlation" technique to process more than 2,500 messages per second and handle traffic burst of more than 10,000 messages in one second to pin-point substantiated threats - alleviating false positives and omissions from a manual approach.

End-to-End intelligent alerting. Programmed with auto learning algorithms that become more informed over time from your system log data, alerts are generated based on learned system behaviors. From this, actionable tickets that can be assigned, investigated and resolved are created.

Customized mission-critical provisions. Tailored tool set to address the unique security monitoring needs of mission-critical environment using the knowledge accrued from

Motorola's decades of experience and lessons learned from securing critical systems.

Automated alerting. Instant notification of significant threats to your network the instance they occur for organizations with an email or paging server tied to their systems.

Auto generated reports. Easy to understand customized reports to keep you informed of your system's overall security events and risk posture.

Real-time visualization portal. Regularly updated dashboards reflecting vital information required by your team to identify security events of interest and respond accordingly. This includes an overview of the system status from the homepage.

IP-autonomous monitoring. Continuous monitoring of your system is situated within your isolated network environment alleviating the need for an external connection which further protects your monitoring tool from cyber intrusions.

Ordering Requirements

1. Current system releases supported are Astro25 7.13 and beyond.
2. M and L cores are supported.
3. The system must have the Event Logging Option (Formerly called Centralized Event Logging or Syslog)
 - M Core - 7.13 and newer, the option is CA01725XX
 - L core - IA/security package is required to get Event logging- CA01741XX
4. Service **MUST** be ordered in SLC only using service model down below and selecting appropriate license in pricing attributes
 - Dollar amount reflects annual pricing for new and renewal orders
 - Once the contract is built and active, the appropriate hardware and software will be ordered and shipped by our On-boarding team
 - Same options are used for both new and renewal licenses

NOTE: Contact CSM or submit request for order with NSS [here](#) (Please right click and open in new tab or window)

1. Initial installation requires a server and the SW.
 - Only 1 server and SW instance is required per system in a non-DSR system. DSR systems require a server and SW instance for the primary system and the backup system.
 - There is a 2 GB, 5GB and 10GB daily logging version of the SW. The 2 GB version will work for any L, M1, M2 cores and most single zone M3 cores. Multiple zone (2 Zone and 3 Zone) M3 cores should use the 5 GB version. Multiple zone (4 Zone, 5 Zone, 6 Zone and 7 Zone) M3 cores should use the 10 GB version.
2. Annual licensing is required after the first year. This entitles the customer to all updates/patches in future OPSOC releases.
 - 2 GB, 5 GB, or 10 GB Annual license on primary system
 - DSR licenses for back-up system also come in 2GB, 5 GB, or 10 GB versions. Should reflect the primary license.
3. Installation of this service on an existing system in the field will require 2 - 5 days system integration by a Field Service Tech

NOTE: This service offering must be ordered in SLC, **NOT** COF. An on-boarding team will order, configure & ship the needed hardware & software

Statement of Work

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Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work: [OPSOC SOW](#) (Open in a new window or tab to view)

Configuration

On Premises Security Ops Center (OPSOC)

Description	Nomenclature	APC	Price
OPSOC PRIMARY LICENSE 2GB	SVC04SVC0620A	0519	\$28,325.00
OPSOC PRIMARY LICENSE 5GB	SVC04SVC0716A	0519	\$33,990.00
OPSOC PRIMARY LICENSE 10GB	SVC04SVC0717A	0519	\$42,487.00

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

OnSite Infrastructure Response-Standard

Ordering Information

General Information

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Features

- Motorola Technical Expertise
- 24 Hour/365 day service availability
- On-site Motorola Authorized Servicer
- Preventative maintenance check

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

[Statement of Work](#)

OnSite Infrastructure Response and Dispatch Service

[Astro Services Wiki](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. You may purchase Network Monitoring Service along with OnSite Infrastructure Response. however, you **MUST** purchase Dispatch Service when you purchase OnSite Infrastructure Response.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.
8. Pricing is for ASTRO25 System Releases inStandard Support. See [MSI Software Support Policy](#)

Configuration

Description	Nomenclature	APC	Price
OnSite Infrastructure Response-Standard	SVC01SVC1410C	0882	
ASTRO25 K-Core	K1 Master Site		\$14,275.80
	K2 Master Site		\$14,275.80
	Prime Site		\$7,137.90
	Remote Site		\$3,807.10
	Dispatch Site		\$5,757.40
	Console Ops		\$47.30

	Archiving Interface Server		\$47.30
	RF Stations		\$26.40
ASTRO25 L-Core	L1 Master Site		\$18,558.10
	L2 Master Site		\$18,558.10
	Prime Site		\$9,279.60
	Remote Site		\$4,948.90
	Dispatch Site		\$5,757.40
	Console Ops		\$47.30
	Archiving Interface Server		\$47.30
	RF Stations		\$26.40
	ISSI Network Gateway		\$20,454.50
	SmartX Site Converter		\$971.30
ASTRO25 M-Core	M1 Master Site		\$24,126.30
	M2 Master Site		\$24,126.30
	M3 Master Site (First Zone)		\$24,126.30
	M3 Master Site (Add'l Zones)		\$24,126.30
	DSR Site		\$7,283.10
	Prime Site		\$12,062.60
	Remote Site		\$6,433.90

	Dispatch Site		\$5,757.40
	Console Ops		\$47.30
	Archiving Interface Server		\$47.30
	RF Stations		\$26.40
	ISSI Network Gateway		\$20,454.50
	SmartX Site Converter		\$971.30

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

OnSite Infrastructure Response-Limited

Ordering Information

General Information

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Features

- Motorola Technical Expertise
- Regular business hours service availability
- On-site Motorola Authorized Servicer
- Preventative maintenance check

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

OnSite Infrastructure Response and Dispatch Service

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. You may purchase Network Monitoring Service along with OnSite Infrastructure Response. however, you **MUST** purchase Dispatch Service when you purchase OnSite Infrastructure Response.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
OnSite Infrastructure Response-Limited	SVC01SVC1411C	0882	
ASTRO25 K-Core	K1 Master Site		\$10,382.00
	K2 Master Site		\$10,382.00
	Prime Site		\$5,191.00
	Remote Site		\$3,115.00
	Dispatch Site		\$4,153.00
	Console Ops		\$33.00
	Archiving Interface Server		\$33.00

	RF Stations		\$24.00
ASTRO25 L-Core	L1 Master Site		\$13,497.00
	L2 Master Site		\$13,497.00
	Prime Site		\$6,749.00
	Remote Site		\$4,049.00
	Dispatch Site		\$4,153.00
	Console Ops		\$33.00
	Archiving Interface Server		\$33.00
	RF Stations		\$24.00
	ISSI Network Gateway		\$17,667.00
	SmartX Site Converter		\$837.00
ASTRO25 M-Core	M1 Master Site		\$17,546.00
	M2 Master Site		\$17,546.00
	M3 Master Site (First Zone)		\$17,546.00
	M3 Master Site (Add'l Zone)		\$17,546.00
	DSR Site		\$6,621.00
	Prime Site		\$8,773.00
	Remote Site		\$5,623.00
	Dispatch Site		\$4,153.00

	Console Ops		\$33.00
	Archiving Interface Server		\$33.00
	RF Stations		\$24.00
	ISSI Network Gateway		\$17,667.00
	SmartX Site Converter		\$837.00

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[MODEL](#)

[ORDERING
INFORMATION](#)

Model

OnSite Infrastructure Response-Premier

Ordering Information

General Information

Motorola OnSite Infrastructure Response provides local, trained and qualified technicians who arrive at your location to diagnose and restore a customer's communications network. All they have to do is make one phone call and their system response and restoration process begins immediately. Following proven response and restore processes, Motorola Dispatch (requires Dispatch Service) contacts the local authorized service center in their area and dispatches a qualified technician to their site. An automated escalation process ensures that technician site arrival and system restoration comply with contracted response times. The field technician will restore the system by performing first level trouble-shooting on-site. If the local technician is unable to resolve the problem, the escalation process includes intervention by Motorola System Support Center technologists or product engineering teams as needed (requires Technical Support service).

Features

- Motorola Technical Expertise
- 24 Hour/365 day service availability
- On-site Motorola Authorized Servicer
- Preventative maintenance check

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

Statement of Work

OnSite Infrastructure Response and Dispatch Service

[Astro Services Wiki](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this**

- time.** Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
 3. Enter the main line item as quantity one.
 4. Options are required as sub-items, with the quantity equal to the option description.
 5. All dollar amounts reflect an annual one year pricing.
 6. You may purchase Network Monitoring Service along with OnSite Infrastructure Response. however, you **MUST** purchase Dispatch Service when you purchase OnSite Infrastructure Response.
 7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
OnSite Infrastructure Response-Premier	SVC01SVC1413C	0882	
ASTRO25 K-Core	K1 Master Site		\$21,413.70
	K2 Master Site		\$21,413.70
	Prime Site		\$10,707.40
	Remote Site		\$5,710.10
	Dispatch Site		\$6,947.60
	Console Ops		\$83.60
	Archiving Interface Server		\$83.60
	RF Stations		\$26.40
ASTRO25 L-Core	L1 Master Site		\$27,837.70

	L2 Master Site		\$27,837.70
	Prime Site		\$13,919.40
	Remote Site		\$7,423.90
	Dispatch Site		\$6,947.60
	Console Ops		\$83.60
	Archiving Interface Server		\$83.60
	RF Stations		\$26.40
	ISSI Network Gateway		\$22,500.50
	SmartX Site Converter		\$1,023.00
ASTRO25 M-Core	M1 Master Site		\$36,188.90
	M2 Master Site		\$36,188.90
	M3 Master Site (First Zone)		\$36,188.90
	M3 Master Site (Add'l Zone)		\$36,188.90
	DSR Site		\$7,283.10
	Prime Site		\$18,095.00
	Remote Site		\$9,650.30
	Dispatch Site		\$6,947.60
	Console Ops		\$83.60
	Archiving Interface Server		\$83.60

	RF Stations		\$26.40
	ISSI Network Gateway		\$22,500.50
	SmartX Site Converter		\$1,023.00

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

PUBLIC SAFETY LTE OPERATIONS SUPPORT PLATFORM 'OSP'

Ordering Information

FEATURES

The deployment of Public Safety LTE brings significant opportunities to the customer agencies but it also presents operations & management challenges to the network operator. The technology complexity of LTE, and the security requirements demand large effort and knowhow to ensure maximum utilization and availability of the deployed CapEx while lowering the OpEx. Ensuring service availability while maintaining lower OpEX requires web-enabled, automated monitoring capabilities that provide clear notification and contextual help.

Motorola's Operations Support Platform (OSP) is a pre-integrated and comprehensive solution that provides a single point of operational capability for the end-to-end solution, including LTE infrastructure, backhaul, transport, and application servers. It is a low-footprint and low cost network management solution that reduces data center requirements and administration costs. Apart from pre-integrated FM and Syslog monitoring for MSI provided LTE and application servers, OSP also provides an ability to field-configure a network element MIB (SNMP, MIB-II) and its syslog interface to enable event monitoring of the network element.

The following functions are provided in OSP:

Content Management System (CMS): OSP utilizes web technologies to facilitate a configurable User Interface (UI). It provides a configurable web portal that enables the users to access the network status dashboard and various network management applications from anywhere on the web in a secure manner and tuned to the users preferences. An industry leading content management system allows the admin staff to add portlets for collaboration, communication as well as content creation that makes information exchange amongst network operator staff efficient and easy.

Dashboard and Monitoring Views: To ease the comprehension of the multitude of information generated in an LTE network, canned dashboards/portlets are provided that summarize the fault and service quality of the network. Monitoring and automated alarming of service level deviation is implemented that reduces the operator's work-load.

The 'Network Monitor' depicts the RAN elements on a topographical map with their real-time state information. This form of network state visualization enables the OSP operators to realistically and quickly comprehend the impact of service failures.

Fault Management: OSP provides a real time alarm/fault monitoring and notification application called Unified Event Manager (UEM). All network elements, backhaul, application servers and site/environmental alarms included as part of the Motorola Solutions global broadband product portfolio are consolidated into this integrated alarm/event stream using CORBA and SNMP interfaces. Alarms and faults are time stamped, localized to root-cause component, isolated to root cause failure, and correlated when possible. New correlation rules can be programmed as a service.

Salient features of fault manager are:

- Alarm History, Alarm Filtering, Alarm Details, Alarm Correlation
- Active Alarm View, Summary View, Network Explorer Tree View
- External Notifications, North Bound Interface
- Automated Discovery, Device Inventory

Note that correlation and the fault management toolkit are always optional. All other fault management features are standard when UEM/fault management is ordered, including the North Bound Interface.

Log Management: Provides centralized event log management and real-time monitoring of security events generated by the eNB, EPC Firewalls, DNS server, NTP server, EPC routers/switches, MME, EPG, HSS, PCRF, IMS sub-system, and any element that supports syslog. Log management also supports log correlation. Log correlation is essential when performing threat analysis, forensics, and overall system monitoring. Standard dashboards are included with the base product, as well as the capability to create custom dashboards. As with the other OSP functions, the log management UI (User Interface) is accessed via a web browser.

Unified Provisioning Manager (UPM): Provides a comprehensive subscriber provisioning solution for Motorola Public Safety and Private LTE systems. The Unified Provisioning Manager (UPM) provides a centralized location for network operators to provision devices with LTE, IMS, Priority Manager, VoIP, and WAVE PTT services. The UPM also creates a linkage between the UICC, various subscription identities and the subscriber. The UPM application is accessed via a web browser, and uses a Graphical User Interface (GUI) to add, delete, and modify users, as well as perform bulk "add" provisioning. This method of provisioning is far more efficient, user-friendly, and less error prone than the industry-standard Command Line Interface (CLI), resulting in lower total cost of operation for the network operator. The UPM can also be accessed via an optional Application Program Interface.

Backup And Restore (BAR): Provides a unified, consistent PS LTE network-wide backup solution that includes Motorola Solutions elements, Ericsson elements and selected third party elements. Restoring network elements to their end state becomes a simpler task in case of a disaster or a fault. Backup and Restore is a function that protects the customer's configuration data, provisioned data and files from loss in the event of a disaster or malfunction with network appliances and applications operating on the LTE network. The backup function provides a routine method to update and maintain data on such appliances and applications. Should a problem arise, the restore function can repopulate the network device application servers with the key data so that there is minimal or no disruption to the customer operations.

OSP GENERAL INFORMATION

The Operations Support Platform (OSP) is a mandatory subsystem of Motorola's Public Safety LTE (PS LTE) LXN 7000 solution. The OSP is a centralized platform for network management activities. It is available in a non-redundant or a redundant/geo-redundant configuration. There is also a migration option to move from non-redundant configuration to a redundant configuration.

The OSP is scaled for end-to-end management of a LXN 8100 system (core, RAN, and applications) with up to a maximum of 300K provisioned objects (UUICs, subscribers and devices) and 500 eNBs.

The Motorola Solutions LTE OSP uses industry-standard IT server and storage solutions. The non-redundant OSP deployment will require one HP server and one Seagate storage array configured as a RAID50 array. For BAR, the OSP uses a QNAP NAS.

All applications on the Motorola Solutions OSP server utilize virtualization to leverage the multi-core compute power on the servers.

The redundant configuration can be deployed in same geo-location, or in a geo-redundant mode (at geographically apart sites). The redundant configuration replicates the primary node. For example, the redundant configuration adds one more HP server and one more Seagate storage array.

GENERAL GUIDANCE ON POWER SUPPLIES

For all supermodels, the provided power supply for the HP server, Seagate storage array, and QNAP NAS is AC. If DC power supplies are preferred, please contact product management.

OSP ORDERING REQUIREMENTS

FOR A NEW (GREENFIELD) OSP, ORDER THE SUPERMODEL SQM01SUM0264D (BSR 4.X) AND SELECT CA03313AB (this includes):

- (Qty 1) OSP Server Hardware Kit
- (Qty 1) OSP 24TB DAS Hardware Kit
- (Qty 1) OSP Software Kit

And select following mandatory items:

Fault Management Options

'N' quantity of CA02603AA ('OSP eNB Licenses') equal to the number of eNBs in your network

FM bundle:

CA02590AA: FM (mediation 500 eNB, 100K users) Use this option if no GUI is required and the OSP needs to support a higher level Manager of Managers.

OR

CA02624AA: FM (UX 500 eNB, 100K users) Use this option if OSP provides GUI and there is no Manager of Managers (i.e. OSP is the highest level of management in the system). This option includes mediation capability.

Log Management Options

CA02704A LOG MGMT BUNDLE, 5GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 5 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs.

OR

CA02705AA LOG MGMT BUNDLE, 10GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 10 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03393AA LOG MGMT BUNDLE, 20 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 20 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03394AA LOG MGMT BUNDLE, 50 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 50 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03399AA LOG MGMT BUNDLE, 100 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 100 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

AND OPTIONALLY ANY QUANTITY OF THE FOLLOWING

CA02706AA LOG MGMT WINDOWS AGENT - If additional Windows agents are required, select 'x' quantity of CA02706AA.

CA03442AA LOG MGMT LINUX AGENT - If Linux agents are required, select 'x' quantity of CA03442AA.

Unified Provisioning Manager (UPM) Options

Order UA00189AA: Unified Provisioning Manager, LTE System - Base software license for the Unified Provisioning Manager. This option must be ordered for initial or first time purchases of the Unified Provisioning Manager when LTE/IMS provisioning is needed. The base software license also includes the provisioning capability for Priority Manager, WAVE 7000, Secure VoIP, and IMW services when those products' respective licenses are purchased. See product catalog pages for those products for ordering details.

Select one of the following license options for LTE subscriber provisioning. For example, if 60,000 licenses are needed, for best pricing order 60,000 of

UA00191AA.

UA00190AA: Provisioning of LTE service 1,000 - 49,999

Select number of LTE subscriber provisioning licenses. Minimum quantity is 1,000 licenses. Maximum quantity is 49,999 licenses.

OR

UA00191AA: Provisioning of LTE service 50,000 - 99,999

Select number of LTE subscriber provisioning licenses. Minimum quantity is 50,000 licenses. Maximum quantity is 99,999 licenses.

Select one of the following license options for IMS subscriber provisioning.

UA00195AA: Provisioning of IMS service 1,000 - 49,999

Select number of IMS subscriber provisioning licenses. Minimum quantity is 1,000 licenses. Maximum quantity is 49,999 licenses.

OR

UA00196AA: Provisioning of IMS service 50,000 - 99,999

Select number of IMS subscriber provisioning licenses. Minimum quantity is 50,000 licenses. Maximum quantity is 99,999 licenses.

NOTE: The licenses above for LTE & IMS are for UPM provisioning use. Ericsson HSS has its own capacity licenses in progressive capacity bundles.

One for HSS HW/SW and another for IMS module.

FOR ADDING A REDUNDANT OSP NODE (EITHER AS A GREENFIELD OR ADDITION TO EXISTING NON-REDUNDANT NODE) ORDER THE SUPER MODEL SQM01SUM0293D (BSR 4.X) AND SELECT CA03313AB OSP (this includes):

- (Qty 1) OSP Server Hardware Kit
- (Qty 1) OSP 24TB DAS Hardware Kit
- (Qty 1) OSP Software Kit

And select following mandatory items:

Fault Management Options

'N' quantity of CA02949AA ('Redundant OSP eNB Licenses') equal to the number of eNBs in your network.

Redundant FM Bundle:

CA02947AA: Redundant FM (mediation 500 eNB, 100K users). Use this option if no GUI is required and the OSP needs support a higher level Manager of Managers.

OR

CA02948AA: Redundant FM (UX 500 eNB, 100K users) Use this option if OSP provides the GUI and there is no Manager of Managers (i.e. OSP is the highest level of management in the system). This option includes mediation capability.

Log Management Options (select second copy for redundant server):

CA02704A LOG MGMT BUNDLE, 5GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 5 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs.

OR

CA02705AA LOG MGMT BUNDLE, 10GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 10 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03393AA LOG MGMT BUNDLE, 20 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 20 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03394AA LOG MGMT BUNDLE, 50 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 50 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

CA03399AA LOG MGMT BUNDLE, 100 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 100 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

AND OPTIONALLY ANY QUANTITY OF THE FOLLOWING

CA02706AA LOG MGMT WINDOWS AGENT - If additional Windows agents are required, select 'x' quantity of CA02706AA.

CA03442AA LOG MGMT LINUX AGENT - If Linux agents are required, select 'x' quantity of CA03442AA.

Unified Provisioning Manager Options

Order UA00265AA: Unified Provisioning Manager Redundant LTE System License - Base software license for the Unified Provisioning Manager. This option must be ordered for initial or first time purchases of the Unified Provisioning Manager when LTE/IMS provisioning is needed. The base software license also includes the provisioning capability for Priority Manager, WAVE 7000, Secure VoIP, and IMW services when those products' respective licenses are purchased. See eCAT pages for those products on ordering details.

Select one of the following license options for LTE subscriber provisioning. For

example, if 60,000 licenses are needed, for best pricing order 60,000 of UA00267AA.

UA00266AA: Redundant: Provisioning of LTE service 1,000 - 49,999

Select number of LTE subscriber provisioning licenses. Minimum quantity is 1,000 licenses. Maximum quantity is 49,999 licenses.

OR

UA00267AA: Redundant: Provisioning of LTE service 50,000 - 99,999

Select number of LTE subscriber provisioning licenses. Minimum quantity is 50,000 licenses. Maximum quantity is 99,999 licenses.

Select one or more of the following license options for IMS subscriber provisioning.

UA00271AA: Redundant: Provisioning of IMS service 1,000 - 49,999

Select number of IMS subscriber provisioning licenses. Minimum quantity is 1,000 licenses. Maximum quantity is 49,999 licenses.

OR

UA00272AA: Redundant: Provisioning of IMS service 50,000 - 99,999

Select number of IMS subscriber provisioning licenses. Minimum quantity is 50,000 licenses. Maximum quantity is 99,999 licenses.

NOTE: The licenses above for LTE & IMS are for UPM provisioning use. Ericsson HSS has its own capacity licenses in progressive capacity bundles.

BACKUP AND RESTORE (BAR) ORDERING REQUIREMENTS

For adding BAR to a new, or an existing OSP, order the following items:

- TT3548A QNAP 2U 8-Bay NAS, Ryzen 5 2600 6-core NAS followed by qty 8 DDN2830A WD RED PRO 4TB SATA. 3.5inch, 256MB and DDN2831A QNAP RAIL KIT FOR 2U RACKMOUNT MODE
- For non-redundancy/primary node, order T8400A followed by:
 - UA00491AA (Feature License non-redundant)
 - This is the feature license for allowing usage of the centralized Backup & Restore application and allows for 1000 GB of disk storage.
 - UA00493AA UA00494AA Tier 1, 2 (Incremental License, non redundant)
 - This is incremental capacity license for LTE BAR. Each unit of this license will allow for 250 GB of additional disk storage.
- If customers choose option UA00493AA, they would be required to purchase a minimum of 1 license and could purchase up to a maximum of 10 licenses. If customers choose option UA00494AA, they would be required to purchase a minimum of 11 and could purchase up to a maximum of 45 licenses.
- For redundant node, order T8400A followed by:
 - UA00492AA (Feature License redundant)

This is the feature license for allowing usage of the centralized Backup & Restore application and allows for 1000 GB of disk storage.

- UA00495AA UA00496AA Tier 1, 2 (Incremental License, redundant)
 - This is incremental capacity license for LTE BAR. Each unit of this license will allow for 250 GB of additional disk storage.
 - If customers choose option UA00495AA, they would be required to purchase a minimum of 1 license and could purchase up to a maximum of 10 licenses. If customers choose option UA00496AA, they would be required to purchase a minimum of 11 and could purchase up to a maximum of 45 licenses.

NOTE:

The NAS is configured in RAID6 configuration.

A minimum of 4 HDDs are needed and they provide available capacity of 8 TB.

Any additional HDD will provide an additional capacity of 4 TB. So, 5 HDDs will give $8 + 4 = 12$ TB, 6 HDDs will give $8 + (4 \times 2) = 16$ TB.

Max 8 HDDs can be configured.

NAS = Network attached storage unit. It is connected to network via Ethernet. The models above do not contain any specific data cabling or transport.

OSP & UPM CAPACITY EXPANSION ORDERING REQUIREMENTS

1. For adding capacity and Agents to Log Management:

For each OSP node, order T8030A OSP SOFTWARE LICENSE KIT and choose quantity of 1 of one of the following options:

- CA02707AA: Log Management Upgrade, 5 GB to 10 GB
- CA03400AA: Log Management Upgrade, 5 GB to 20 GB
- CA03401AA: Log Management Upgrade, 5 GB to 50 GB
- CA03402AA: Log Management Upgrade, 5 GB to 100 GB

AND OPTIONALLY ANY QUANTITY OF THE FOLLOWING

- CA02706AA LOG MGMT WINDOWS AGENT - If Windows agents are required, select 'x' quantity of CA02706AA.
- CA03442AA LOG MGMT LINUX AGENT - If Linux agents are required, select 'x' quantity of CA03442AA.

NOTE: Windows and Linux Agents must be ordered with at least one of the following: CA02704AA, CA02705AA, CA02707AA, CA03393AA, CA03394AA, CA03399AA, CA03400AA, CA03401AA, CA03402AA.

2. For adding Log Management after initial OSP order:

For each OSP node, order T8030A OSP SOFTWARE LICENSE KIT, followed by:

- CA02704AA LOG MGT BUNDLE, 5 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 5GB Log Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs.

OR

- CA02705AA LOG MGMT BUNDLE, 10 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 10GB Log Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs.

OR

- CA03393AA LOG MGMT BUNDLE, 20 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 20 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

- CA03394AA LOG MGMT BUNDLE, 50 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 50 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

OR

- CA03399AA LOG MGMT BUNDLE, 100 GB SRVR, SYSDEF, WIN AGENTS, 500 ENB - contains 100 GB Log (Daily Throughput) Management Server, Syslog Defender, four Windows agents, support for up to 500 eNBs

AND OPTIONALLY ANY QUANTITY OF THE FOLLOWING

- CA02706AA LOG MGMT WINDOWS AGENT - If additional Windows agents are required, select 'x' quantity of CA02706AA.
- CA03442AA LOG MGMT LINUX AGENT - If Linux agents are required, select 'x' quantity of CA03442AA.

NOTE: Windows and Linux Agents must be ordered with at least one of the following: CA02704AA, CA02705AA, CA02707AA, CA03393AA, CA03394AA, CA03399AA, CA03400AA, CA03401AA, CA03402AA.

3. For adding LTE or IMS capacity to a UPM:

For non-redundant/primary node, order T8163A, and order N qty for:

UA00190AA: 1000 - 49999 (LTE service)

UA00191AA: 50000 - 99999 (LTE service)

UA00195AA: 1000 - 49999 (IMS service)

UA00196AA: 50000 - 99999 (IMS service)

For redundant node, order T8163A, and order N qty for:

UA00266AA: Redundant 1000 - 49999 (LTE service)

UA00267AA: Redundant 50000 - 99999 (LTE service)

UA00271AA: Redundant 1000 - 49999 (IMS service)

UA00272AA: Redundant 50000 - 99999 (IMS service)

For additional licenses for Priority Manager, WAVE 7000, Secure VoIP, and IMW services, please see eCAT pages for those products on expansion ordering details.

For Subscriber Provisioning License orders of 100K or more, please contact [OSP Product Management](#).

OSP OPTIONAL FEATURES ORDERING REQUIREMENTS

1. For adding the Fault Management Toolkit licenses to a new or existing BSR 2.0 or higher OSP:

Each license purchased allows fault management of one node instance. Minimum order quantity for licenses is 100. Licenses must be ordered in bundles of 100. Total Fault Management Toolkit licenses supported per OSP node (either non-redundant/primary node or redundant node) is 2,000. If any of the following network elements are to be fault managed by OSP, then the option must be ordered: AXS6240 Sensor, Brocade 7800 Extension Switch, HP 3PAR Network Attached Storage (NAS for Voicemail), Metaswitch Voicemail, QNAP TVS-871 NAS, Site Boss 550, SS8 AIS Mediation Server, SS8 PTT Normalization Server, SS8 Xcipio Mediation Server, Microsemi NTP SyncServer S650, Wave 7000 Server, Mavenir (Xura) Message Controller (SMS server in the IMS).

- For non-redundant/primary node, order T8406A and T8294A, and order 'N' quantity in multiples of 100 for:
 - UA00260AA: Fault Management Toolkit License
- For redundant node, order T8406A and T8294A, and order 'N' quantity in multiples of 100 for:
 - UA00504AA: Redundant Fault Management Toolkit License

T8294A cannot be ordered in any other quantity of 1. Each instance of T8294A must be ordered on its own line item in quantity of 1.

2. For adding the Alarm Correlation Engine license to a new or existing R11.X or higher OSP:

The Alarm Correlation Engine supports a maximum of 100 correlation rules. Configuration of these rules is not provided with the Alarm Correlation Engine, but is offered as a service option.

- For non-redundant/primary node, order T8395A, followed by:
 - UA00490AA LTE Correlation Engine License
- For redundant node, order T8395A, followed by:

- UA00505AA Redundant LTE Correlation Engine License

T8395A cannot be ordered in any other quantity of 1. Each instance of T8395A must be ordered on its own line item in quantity of 1.

OSP SOFTWARE RELEASE KITS ORDERING REQUIREMENTS

- **For ordering the R9 UEM patch kit:**

For each OSP node (primary or redundant), order quantity 1 of:

CVN7215A UEM-R9.0 SUPPLEMENTAL

- **For ordering the R11.2 UEM patch kit:**

For each OSP node (primary or redundant), order quantity 1 of:

CVN7216A UEM-R11.2 SUPPLEMENTAL

- **For ordering the R11.3 (BSR2.0) UEM patch kit:**

For each OSP node (primary or redundant), order quantity 1 of:

CVN7217A UEM-R11.3 SUPPLEMENTAL

- **For ordering the R9 to BSR1.0/1.0+ software upgrade kit:**

For each OSP node (primary or redundant), order quantity 1 of:

T8393B OSP R9 TO R11 SOFTWARE UPGRADE KIT.

Also see T8607B below, which is needed for the BSR 2.0 upgrade if the original ESXi/iLO/BIOS installation media is not available.

- **For ordering the R11.2 to R11.3 (BSR2.0) software upgrade kit:**

For each OSP node (primary or redundant), order quantity 1 of:

CVN7126D OSP Application Software R11.3

- **For ordering the R11.3 (BSR2.0) OSP replacement software kit:**

For each OSP node (primary or redundant), order quantity 1 of:

T8607B OSP R11.3 REPLACEMENT SW MEDIA KIT.

This kit contains the R11.3 (BSR 2.0) OSP software media required for R11.3 (BSR2.0) OSP installation in the event that the original media is not available. It does not contain any licenses or royalties.

- **If upgrading from BSR 1.0 / BSR 2.0 to any BSR 4.X release (including BSR 4.3), the BSR4.0 OSP software kit must be ordered:**

For each OSP node (primary or redundant), order quantity 1 of:

T8393C OSP BSR4.0 SOFTWARE UPGRADE KIT

Each kit contains:

OSP Application BSR4.0 Software

Patches

BSR 4.0 Common Platform Software

5 Windows 2016 license kits, each of which contains 3 COAs (Certificate of Authenticity). So each T8393C contains 15 COAs.

1 Microsoft SQL Server 2016 Certificate of Authenticity

NOTE: Windows 2016 licenses must be applied without 180 days of BSR 4.0 or BSR 4.X LR2 upgrade.

NOTE: BSR 4.X LR2 OSP application software is not shippable by the factory. Please contact field engineering or project manager to obtain this software.

- **If upgrading from any release to BSR 4.3, the BSR4.3 OSP AND SNARE AGENT UPGRADE KIT must be ordered also. The BSR 4.3 OSP MEMORY UPGRADE KIT may also be required for your deployment -- PLEASE CHECK WITH PRODUCT MANAGEMENT IF YOU ARE UNSURE.**

For each OSP node (primary or redundant), order quantity 1 of:

T8393D BSR 4.3 OSP AND SNARE AGENT UPGRADE KIT

This kit contains the OSP software media required for BSR 4.3 OSP (and BSR 4.3 OSP SER3Q) installation and BSR 4.3 Snare royalties (for secure syslog) for all BSR products.

For ordering the BSR 4.3 OSP MEMORY UPGRADE KIT, please order:

TT3561A OSP MEMORY UPGRADE KIT

This kit contains the OSP memory upgrade. One kit is used to upgrade a complete set of geo-redundant OSPs (order one kit for every two OSPs deployed).

- **For ordering the BSR 4.0 OSP replacement software kit and/or the latest patch that addresses Quality Alert 4400:**

Please order:

T8607D OSP BSR 4.0 REPLACEMENT SW MEDIA KIT.

This kit contains the OSP software media required for BSR 4.X OSP installation in the event that the original media is not available. It does not contain any licenses or royalties. It also contains the patch that addresses Quality Alert 4400.

UPM OPTIONAL FEATURES ORDERING REQUIREMENTS

For ordering the UPM API (UPMI) license:

- For each UPM node (primary or redundant), order quantity 1 of T8296A, followed by

quantity 1 of:

- **UA00263AA** ADD: UPMI LICENSE

If Quantity 2 is desired for geo-redundant UPM, order two line items of Quantity 1 of T8296A.

NOTE: UPMI enables access to UPM via REST based API.

PLEASE READ: GENERAL NOTES AND NOTES ON CONFIGURATION SECTION

1. T8393C is not shown. Issue is under investigation by Product Catalog team. List price for T8393C is \$0. T8393C is confirmed as correctly set-up in COF as of Feb-21 2018 and is fully orderable.
2. Trial licenses are not available for OSP.
3. There are no HP HBA FRUs available for this product. It is not recommended for the field to stock or replace on their own HBAs. If a HBA needs to be replaced, then HP should be contacted for warranty or post-warranty support.
4. A Manager of Managers (MoM) is not available as part of the Global Broadband Product Portfolio. If a deployment requires a MoM, the region should supply.
5. OSP must be hosted on equipment provided. Hosting support on other MSI servers or data center servers is not supported at this time.
6. OSP models on this page cannot be used to manage LXN 6000, LXN 7100, or LXN 505 core and associated RAN equipment.
7. The region supplies its own preferred performance management solution for KPI collection and reporting of the LXN 8100 core and RAN; access to the regional solution can be configured via the OSP dashboard.

Configuration

Models

(Common Models only shown once)

OSP:

Description	Full Description	Nomenclature	APC	Price
SUPERMODEL FOR OSP BSR 4.0	-	SQM01SUM0264D	056	\$0.00
STANDARD OSP FOR BSR4.0	-	CA03313AB	056	\$116,100.00
FM/PM (MEDIATION - 500ENB, 100K	-	CA02590AA	056	\$227,500.00

users)				
ADD: FM/ PM (UX - 500 ENB, 100K USERS)	-	CA02624AA	056	\$325,000.00
LICENSE BUNDLE 1 ENB	-	CA02603AA	056	\$950.00
ADD: LTE PERF MGMT TOOLKIT LICENSE	-	CA03403AA	056	\$150.00
ADD: LOG MGMT BUNDLE, 5GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA02704AA	056	\$75,000.00
ADD: LOG MGMT BUNDLE, 10GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA02705AA	056	\$100,000.00
ADD: LOG MGMT BUNDLE, 20GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03393AA	056	\$150,000.00
ADD: LOG MGMT BUNDLE, 50GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03394AA	056	\$300,000.00
ADD: LOG MGMT BUNDLE, 100GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03399AA	056	\$525,000.00
ADD: LOG MGMT WINDOWS AGENT	-	CA02706AA	056	\$410.00
ADD: LOG MGMT LINUX AGENT	-	CA03442AA	056	\$410.00
ADD: UPM, LTE SYSTEM LICENSE	-	UA00189AA	056	\$50,000.00
ADD: 1000-49999 LTE SUB LICENSE	-	UA00190AA	056	\$4.00
ADD: 50000-99999 LTE SUB LICENSE	-	UA00191AA	056	\$3.00
ADD: 1000-49999 IMS SUB LICENSE	-	UA00195AA	056	\$2.00
ADD: 50000-99999 IMS SUB LICENSE	-	UA00196AA	056	\$1.50

Supermodel for Redundant OSP:

Description	Full Description	Nomenclature	APC	Price
SUPERMODEL FOR REDUNDANT OSP BSR 4.0	-	SQM01SUM0293D	056	\$0.00
ADD: REDUNDANT FM/PM (MEDIATION - 500ENB, 100K USERS)	-	CA02947AA	056	\$113,750.00
ADD: REDUNDANT FM/PM (UX - 500ENB, 100K USERS)	-	CA02948AA	056	\$162,500.00
ADD: REDUNDANT LIC BNDL 1 ENB	-	CA02949AA	056	\$0.00
ADD: LTE PERF MGMT TOOLKIT LICENSE REDUNDANT	-	CA03404AA	056	\$75.00
ADD: UPM, REDUNDANT LTE SYSTEM LICENSE	-	UA00265AA	056	\$50,000.00
ADD: 1000-49999 LTE SUB LICENSE REDUND	-	UA00266AA	056	\$0.00
ADD: 50000-99999 LTE SUB LICENSE REDUND	-	UA00267AA	056	\$0.00
ADD: 1000-49999 IMS SUB LICENSE REDUND	-	UA00271AA	056	\$0.00
ADD: 50000-99999 IMS SUB LICENSE REDUND	-	UA00272AA	056	\$0.00

Backup and Restore (BAR):

Description	Full Description	Nomenclature	APC	Price
ADD: LTE BAR FEATURE LICENSE FOR PRIMARY NODE	-	UA00491AA	056	\$75,000.00
ADD: LTE BAR FEATURE LICENSE FOR REDUNDANT NODE	-	UA00492AA	056	\$0.00

ADD: INCREMENTAL TIER 1 LICENSE FOR THE PRIMARY NODE MIN 1 MAX 10	-	UA00493AA	056	\$2,000.00
ADD: INCREMENTAL TIER 2 LICENSE PRIMARY NODE MIN 11 MAX 45	-	UA00494AA	056	\$1,600.00
ADD: INCREMENTAL TIER 1 LICENSE SECONDARY NODE MIN 1 MAX 10	-	UA00495AA	056	\$1,000.00
ADD: TIER 6	-	UA00496AA	056	\$800.00
QNAP 2U 8-BAY NAS, RYZEN 5 2600 6-CORE	-	TT3548	056	\$5,519.00
WD RED PRO 4TB SATA. 3.5INCH, 256MB	-	DDN2830	056	\$510.00
QNAP RAIL KIT FOR 2U RACKMOUNT MODE	-	DDN2831	056	\$176.00

OSP & UPM Capacity Expansion:

Description	Full Description	Nomenclature	APC	Price
SUB PROV MGR	-	T8163	056	\$0.00
OSP SOFTWARE LICENSE KIT	-	T8030	056	\$0.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 10GB	-	CA02707AA	056	\$25,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 20GB	-	CA03400AA	056	\$75,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 50GB	-	CA03401AA	056	\$225,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 100GB	-	CA03402AA	056	\$450,000.00

OSP Optional Features:

Description	Full	Nomenclature	APC	Price
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	Description			
LTE R11 FAULT MGT TOOLKIT	-	T8406	056	\$0.00
LTE ELEMENT MGMT TOOLKIT	-	T8294	056	\$0.00
ADD:LTE_ELEMENT_MGMT_TOOLKIT_AP_LI	-	UA00260AA	056	\$100.00
ADD: LTE FAULT MGT TOOLKIT LICENSE REDUNDANT	-	UA00504AA	056	\$50.00
LTE CORRELATION ENGINE	-	T8395	056	\$0.00
ADD:LTE CORRELATION ENGINE LICENSE	-	UA00490AA	056	\$5,000.00
ADD: LTE CORRELATION ENGINE LICENSE REDUNDANT	-	UA00505AA	056	\$2,500.00

OSP Software Release Kits:

Description	Full Description	Nomenclature	APC	Price
OSP R9 TO R11 SOFTWARE UPGRADE KIT	-	T8393B	056	\$0.00
OSP APPLICATION SOFTWARE R11.3	-	CVN7126	056	\$0.00
OSP R11.3 REPLACEMENT SW MEDIA KIT	-	T8607B	056	\$100.00
OSP BSR4.0 REPLACEMENT SW MEDIA KIT	-	T8607D	056	\$100.00
UEM-R9.0 SUPPLEMENTAL	-	CVN7215	056	\$0.00
UEM-R11.2 SUPPLEMENTAL	-	CVN7216	056	\$0.00
UEM-R11.3 SUPPLEMENTAL	-	CVN7217	056	\$0.00
OSP MEMORY UPGRADE KIT	-	TT3561	056	\$34,622.00
BSR 4.3 OSP AND SNARE AGENT				

UPGRADE KIT	-	T8393D	056	\$27,500.00
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UPM Optional Features:

Description	Full Description	Nomenclature	APC	Price
UPM INTERFACE	-	T8296	056	\$0.00
ADD: UPMI LICENSE	-	UA00263AA	056	\$25,000.00

Spares

OSP Server FRU:

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	AC Power Supply	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
DL380 G9 POWER SUPPLY DC	DC Power Supply	DLN7023	056	\$698.00

OSP Aux Server FRU (for pre-BSR 2.0 OSP):

Description	Full Description	Nomenclature	APC	Price
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00

DotHill 4524 FRU:

Description	Full Description	Nomenclature	APC	Price
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
DAS POWER SUPPLY DC	DC Power Supply	DLN7024	056	\$765.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00

FRU: DH SHARED STORAGE SFF DISK - 1.2TB	-	DLN6984	056	\$1,690.00
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BAR:

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Product Type	FC	Nomenclature	Description	APC	Lead Time
DRPSHP	SCB	CVN7126	OSP APPLICATON SOFTWARE R11.3	056	40
ACCESSORY	SCB	CVN7215	UEM-R9.0 SUPPLEMENTAL	056	45
ACCESSORY	SCB	CVN7216	UEM-R11.2 SUPPLEMENTAL	056	45
ACCESSORY	SCB	CVN7217	UEM-R11.3 SUPPLEMENTAL	056	45
QUOTEDS	SYL	DDN2337	QNAP RAIL KIT FOR 2U RACKMOUNT MODE	056	15
QUOTEDS	SYL	DDN2338	WESTERN DIGITAL WD RE 4TB 7200	056	15
QUOTEDS	SYL	DDN2830	WD RED PRO 4TB SATA. 3.5INCH, 256MB	056	15
QUOTEDS	SYL	DDN2831	QNAP RAIL KIT FOR 2U RACKMOUNT MODE	056	15
CNTRLR	SCB	DLN6865	600 GB HARD DRIVE	454	11
CNTRLR	SCB	DLN6867	DAS POWER SUPPLY	280	16
FIXEDSTN	SCB	DLN6942	1.2 TB HARD DRIVE	454	8
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11

CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6973	FRU: DL380 G9 FAN	877	16
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6978	FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	877	15
SYSPERIPH	SCB	DLN6984	FRU: DH SHARED STORAGE SFF DISK - 1.2TB	056	45
DRPSHP	SCB	DLN7022	FRE: DL380 G9 HC NO DISK	056	45
ACCESSORY	SCB	DLN7023	DL380 G9 POWER SUPPLY DC	056	45
ACCESSORY	SCB	DLN7024	DAS POWER SUPPLY DC	056	45
DRPSHP	SCB	SQM01SUM0264D	SUPERMODEL FOR OSP BSR 4.0	056	45
DRPSHP	SCB	SQM01SUM0293D	SUPERMODEL FOR REDUNDANT OSP BSR 4.0	056	45
SYSPERIPH	SCB	T8030	OSP SOFTWARE LICENSE KIT	056	10
SYSPERIPH	SCB	T8163	SUB PROV MGR	056	10
CNTLPATH	SSG	T8249	LTE R9 FAULT MGT TOOLKIT	316	0
SYSPERIPH	SCB	T8294	LTE ELEMENT MGMT TOOLKIT	056	14
SYSPERIPH	SCB	T8296	UPM INTERFACE	056	10
FIXEDSTN	SCB	T8393B	OSP R9 TO R11 SOFTWARE UPGRADE KIT	056	45
FIXEDSTN	SCB	T8393D	BSR 4.3 OSP AND SNARE AGENT UPGRADE KIT	056	5
SYSPERIPH	SCB	T8395	LTE CORRELATION ENGINE	056	10

SYSRIPRH	SCB	T8406	LTE R11 FAULT MGT TOOLKIT	056	10
SYSRIPRH	SCB	T8607B	OSP R11.3 REPLACEMENT SW MEDIA KIT	056	40
DRPSHP	SCB	T8607D	OSP BSR4.0 REPLACEMENT SW MEDIA KIT	056	45
QUOTEDS	SYL	TT3124	QNAP 8-BAY INTEL CORE NAS SERVER I7	056	15
QUOTEDS	SYL	TT3212	QNAP 8-BAY INTEL CORE NAS SERVER I7	056	15
QUOTEDS	SYL	TT3548	QNAP 2U 8-BAY NAS, RYZEN 5 2600 6-CORE	056	15
QUOTEDS	HPY	TT3561	OSP MEMORY UPGRADE KIT	056	17

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Operations Support System: Evolved Network Management (ENM)

Ordering Information

General Information

Evolved Network Manager (ENM) is the latest Operations Support System (OSS) solution. It provides unified network management of complete radio, CS & PS core, IMS and IP & Broadband network elements from a single GUI, which provides ease and smooth working the network. ENM is based on Integrated Hardware and Software and also based on a VMWare Integrated Openstack (VIO) platform. An O&M Backup and Restore system is also included in the solution for the backup and restore of servers in ENM deployments. ENM software is separated into layers, with the responsibilities for different aspects of the system such as mediation, data storage, business processing and presentation. Each of these layers is separately horizontally scalable and is based in part on JEE technologies. The use of industry-standard technologies, such as cloud and virtualization results in a much more flexible and leaner deployment.

Features

The ENM performs the following functions from a centralized GUI:

- Fault Management
- Configuration Management
- System Administration
- Performance Management
- Security Management

The major supported network versions in ENM are: OSS-RC performs the following O&M functions:

- Ericsson LTE radio network support (DUS/DUL, Baseband Series and pico)
- Ericsson WCDMA radio network support (RNC, DUS/DUW, Baseband Series and pico)
- WCDMA and LTE mixed mode operation
- Evo Controller 8300
- Ericsson GSM radio network support (BSC, Baseband Series)
- Ericsson Core network support (SGSN-MME, vMME, EPG, vSAPC, MGW)
- Ericsson Transport network support (MINI-LINK, R6000, Fronthaul 6080, Baseband T)
- Ericsson vCSCF, vMTAS, vSBG, vBGF, vMRF, EME, vWCG, HSS-FE, vIPworks, vUPG, BSP
- The AFG is supported via the SNMP interface.

Configuration

SINGLE NODE ENM:

For a new system purchase, order the following items:

HARDWARE:

ENM base kit HW, consisting of servers, switches, cables and connectors. Customer Access and Security System (CAS)/Remote Support Gateway (RSG), chassis and power. Order Quantity 1 per ENM system:

Description	Full Description	Nomenclature	APC	Price
ENM HW	-	DDN2551	053	\$447,240.00

GENERAL SW:

General SW, consisting of Cloud and Backup server SW and licenses. Order Quantity 1 per ENM system for each of the below:

Description	Full Description	Nomenclature	APC	Price
CLOUD SW AND LICENSES	-	DDN2552	053	\$68,960.00
BACKUP SERVER SW AND LICENCES	-	DDN2553	053	\$47,060.00

FEATURES:

EPC support for ENM. This is priced per kilo IP (kIP or 1000 IP) sessions. Order Quantity 1.75 X # of kIP sessions.

Description	Full Description	Nomenclature	APC	Price
EPC SUPPORT	-	DDN2554	053	\$480.00

IMS support for ENM. This is priced per kilo Active (kActive or 1000 Active) users. Order Quantity 0.75 x # of kActive users.

Description	Full Description	Nomenclature	APC	Price
IMS SUPPORT	-	DDN2555	053	\$850.00

RAN support per ENM. This is priced per sector. Order Quantity # of sectors per eNB X # of eNB to account for the total # of sectors.

Description	Full Description	Nomenclature	APC	Price
ACC NTWK SUP COMB LTE BP ADV MO SCR	-	DDN2560	053	\$990.00

FRONTHAUL network support per ENM. Order Quantity 1 per Fronthaul mode.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT FRONTHAUL	-	DDN2561	053	\$530.00

MICROWAVE network support per ENM. Order Quantity 1 per Microwave node.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT MICROWAVE	-	DDN2562	053	\$100.00

ROUTER 6000 network support per ENM. Order Quantity 1 per Router 6000 node.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT ROUTER 60	-	DDN2563	053	\$90.00

BASEBAND T network support per ENM. Order Quantity 1 per Baseband T node.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT BASEBANDT	-	DDN2565	053	\$90.00

SOUTHBOUND network support (example eMBMS) per ENM. Order Quantity 1 per integrated node.

Description	Full Description	Nomenclature	APC	Price
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SOUTH BOUND INTERFACE - NEW NODE	-	DDN2566	053	\$2,660.00
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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ERS	DDN2551	ENM HW	053	80
QUOTEDS	ERS	DDN2552	CLOUD SW AND LICENSES	053	80
QUOTEDS	ERS	DDN2553	BACKUP SERVER SW AND LICENCES	053	80
QUOTEDS	ERS	DDN2554	EPC SUPPORT	053	80
QUOTEDS	ERS	DDN2555	IMS SUPPORT	053	80
QUOTEDS	ERS	DDN2560	ACC NTWK SUP COMB LTE BP ADV MO SCR	053	80
QUOTEDS	ERS	DDN2561	TRANSPORT NETWORK SUPPORT FRONTHAUL	053	80
QUOTEDS	ERS	DDN2562	TRANSPORT NETWORK SUPPORT MICROWAVE	053	80
QUOTEDS	ERS	DDN2563	TRANSPORT NETWORK SUPPORT ROUTER 60	053	80
QUOTEDS	ERS	DDN2565	TRANSPORT NETWORK SUPPORT BASEBANDT	053	80
QUOTEDS	ERS	DDN2566	SOUTH BOUND INTERFACE - NEW NODE	053	80

QUOTEDS	ERS	TT2552	COMBINED SRVC AND PKT GW (CPG) START BNDLE W 1K IP SESSIONS LICENSE	053	60
QUOTEDS	ERS	TT2553	COMBINED SERVICE AND PACKET GW (CPG) 5K IP SESSIONS BUNDLE	053	60
QUOTEDS	ERS	TT2554	COMBINED SERVICE AND PACKET GW (CPG) 10K IP SESSIONS BUNDLE	053	60
QUOTEDS	ERS	TT2563	COMBINED MME 50K SAU BUNDLE	053	60

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model



Optimized Video Security

Ordering Information

General Information

The Optimized Video Security solution offering is comprised of a strategic selection of products from 3rd party suppliers that help our public safety customers get the most out of their current and future video investments. This solution offers a Video Management System from NICE Systems called NiceVision, a Physical Security Information Management System from VidSys called VidShield, a variety of cameras from Axis, Sony, Pelco and Bosch and switches and servers from HP.

If the cameras we've selected do not meet your customer's needs, please find the appropriate camera from one of these vendors and contact the business team to discuss getting that camera set up as a Motorola part.

You can use the Axis product selector tool to select the right Axis camera based on the features and functions required by your customer:

<http://www.axis.com/products/video/selector/index.php>

Axis also has a great selection of tutorials, design guides and design tools that you will find invaluable during the pre-sale phase of the project:

<http://www.axis.com/solutions/system.htm>

This ECAT page is broken out into the following sections. Click on the text for a section to jump to that section in the page.

- [POD1000 Video Surveillance Solution](#)
- [Outdoor PTZ Cameras](#)
- [Outdoor Fixed Mini-Dome Cameras](#)
- [Infrared \(IR\) Illuminators](#)
- [Camera Accessories](#)
- [Networking Equipment](#)
- [NiceVision](#)
- [Servers](#)
- [VidSys](#)

Configuration

POD1000 Video Surveillance Solution

The POD1000 Video Surveillance Solution (commonly referred to as “MotoPOD”) is designed to provide automated, reliable recording and management of surveillance video at any remote location. Video can be recorded locally in the POD1000 with the integrated video server and 500GB hard drive. This allows immediate, reliable edge recording of video, even when backhaul links may fail. This local recording also provides system design flexibility for users to integrate the POD with backhaul variants such as Fiber, Point-To-Point, Point-To-MultiPoint, and even Carrier WWAN to provide access to streaming video. A single POD1000 system can support multiple backhaul technologies.

The modular architecture of the POD1000 allows for technology flexibility based on customer need. This means the POD1000 can incorporate multiple current camera variants, for example, and also incorporate new technologies when future needs arise. While the standard POD100 includes video recording capabilities, non-recording version are also available. The POD accepts multiple inputs to accommodate new technology and features. This future-proofing provides years of useful service without unit replacement.

Operators will be able to work from the command center or other location and remotely connect to the POD1000. The user can view recorded video, make changes to the current configuration and manage the video data from the remote management console. This creates an efficient workflow for the user and allows other users faster access to video evidence for investigation and prosecution. The POD1000 system can also be power-cycled remotely, without the need to send personnel to its location. This brings significant benefits in terms of personnel safety and cost savings. VideoPOD Video POD ChicagoPOD Chicago POD

At initial launch the POD1000 is configured with Genetec Video Management Software (VMS). This allows for limited remote browser viewing functionality as a standalone device. A full system deployment (with multiple POD1000s) would require a Genetec Server with VMS to aggregate the multiple devices and facilitate viewing/management. Genetec Server and Server License required to provide a system level view is available separately.

Currently, described below are the three current shipping variants of the POD1000. Please contact the Product Team if a unique solution or version of VMS is needed meet customer requirements.

Recording Pelco/Genetec Fiberglass Enclosure: Fiberglass Enclosure with: MW810 Network Video Recorder, Axis Network I/O, Magnum Outdoor rated Edge Switch, Genetec License Video Management Software, Pelco Spectra HD series Network Camera

Non-Recording Pelco / Genetec Fiberglass Enclosure: Fiberglass Enclosure with: Axis Network I/O, Magnum Outdoor rated Edge Switch, Pelco Spectra HD series Network Camera

Non-Recording Fiberglass Enclosure Only with Managed Switch: Fiberglass Enclosure with: Managed Switch (Unit can be upgraded with Pelco camera available separately). Product can NOT be be upgraded to include recording functionality.

Outdoor PTZ Cameras

Outdoor PTZ Cameras from Axis, Sony, Pelco and Bosch along with the camera mounts are listed below with their model # and key features. Click on the model number to access product information.

Camera Types	Axis		Sony		Bosch		Pelco	
	Model #	Key Features	Model #	Mot Part #	Model #	Mot Part #	Model #	Mot Part #
Standard VGA	Q6032-E	* 35x optical * Tri-streams * 0.5 lux color * 0.008 lux b/w * PoE capable	SNCRS86N	* 36x optical * Dual-streams * 0.8 lux color min * 1.6 lux color max * 0.09 lux b/w min * 0.17lux b/w max	VG4-323-ECE0W	* 26x optical * Tri-streams * 0.0052 lux color min * 1.0 lux color max * 0.0013 lux b/w min * 0.26 lux b/w max	SD4E27-PG-E1	* 27x c * Dual-stream * 0.015 color n * 0.55 color n * 0.00C b/w
High Def	Q6034-E	* 18x optical * Tri-streams * 0.74 lux color * 0.04 lux b/w * PoE capable	SNCRH164	* 10x optical * Dual-streams * 2.1 lux color * 0.19 lux b/w	N/A	N/A	S5118-EG1	* 18x c zoom * Dual-stream * 0.07 color n * 0.70 color n * 0.02 min * 0.25 max * PoE

Camera Mounts	Axis	Sony	Bosch	Pelco
	Model #	Model #	Model #	Model #

Wall Mount Bracket	T91A61	UNIWMB1	VG4-A-PA1	IWM24-G
Parapet Wall Mount Adapter	T91A62	UNIRMB1	VG4-A-9230	PP400
Corner Mount Adapter	T91A64	UNICMA1	VG4-A-9542	CM400
Pole Mount Bracket	T91A67	UNIPMA1	VG4-A-9541	PA402
Pole Mounting Tool	21776	N/A	N/A	N/A

Axis Outdoor PTZ Cameras and Mounts

Sony Outdoor PTZ Cameras and Mounts

Bosch Outdoor PTZ Camera and Mounts

Pelco Outdoor PTZ Cameras and Mounts

Outdoor Fixed Mini-Dome Cameras

Outdoor Fixed Mini-Dome Cameras from Axis, Sony, Pelco and Bosch are listed below with their model # and key features. Click on the model number to access product information. All cameras are PoE capable.

Camera Types	Axis		Sony		Bosch	
	Model #	Key Features	Model #	Key Features	Model #	Key Features
Standard VGA	P3343-VE (6 mm)	* Tri-streams * 0.2 lux color * 0.04 lux b/w	SNCDF85N	* Dual-streams * 0.7 lux color * 0.15 lux b/w	NDN-498V03-22PS	* Tri-streams * 0.028 lux color min * 2.48 lux color min * 0.0099 lux b/w min * 1.01 lux b/w max
	P3343-VE (12 mm)	* Tri-streams * 0.3 lux color * 0.05 lux b/w	N/A	N/A	N/A	N/A
High Def (720p)	P3344-VE (6 mm)	* Tri-streams * 0.3 lux color * 0.05 lux b/w	SNC DH140T	* Dual-streams * 0.2 lux color * 0.1 lux b/w	N/A	N/A
	P3344-VE (12 mm)	* Tri-streams * 0.4 lux color * 0.06 lux b/w	N/A	N/A	N/A	N/A
High Def (1080p)	N/A	N/A	SNC DH240T	* Dual-streams * 0.2 lux color * 0.1 lux b/w	N/A	N/A

Axis Fixed Mini-Dome Cameras

Sony Fixed Mini-Dome Cameras

Bosch Fixed Mini-Dome Camera

Pelco Fixed Mini-Dome Cameras

Infrared (IR) Illuminators

IR Illuminators from Bosch and Videolarm are listed below with their model # and Motorola part #. Click on the model number to access product information.

Features	Manufacturer	Model #	Mot Part #
60 deg horiz angle 50 ft achv distance 56 ft horiz field of view (hfov)	Bosch	EX12LED-3BD-8W	DSBOSCHEX12LED3BD8
60 deg horiz angle 130 ft achv distance 145 ft hfov	Bosch	UFLED60-9BD	DSBOSCHUFLED609BD
30,45,60 deg horiz angle 100 to 660 ft achv distance	Videolarm	IR200-36	DSVIDEOLARMIR20036

IR Illuminators

Camera Accessories

Camera accessories such as power supplies needed for the PTZ cameras (except for Axis PTZ because they are PoE), surge protectors and cables are listed below with their model # and Motorola part #. Click on the model number to access product information.

Features	Manufacturer	Model #
Power Supply for PTZ Cameras & IR Illuminators	Altronicx	T2428100WP
Surge Protector for non-PoE Cameras	Ditek	DTK-PVP-IP
Surge Protector for PoE Cameras	Ditek	DTK-PVP-IP
APC Smart-UPS 2200VA USB & Serial RM 2U 120V	APC	SUA2200RM2U
Power Cable Spool (1000 ft) for PTZ without PoE & IR	Belden Wire	1 PR #18 PVC

Illuminators	& Cable	Part # 5340U1 0101000
Outdoor Rated Cat 6 Cable Spool (1000 ft) for PTZ and Fixed Cameras	Anixter	CM-00424CSP-6-

Camera Accessories

Networking Equipment

Power Over Ethernet (PoE) switches to power PoE cameras and GigE switches from HP used for general switching needs in the video system network are listed below with their model # and Motorola part #. Click on the model number to access product information.

Switch Type	Manufacturer and Model #	Mot Part #
8 Port PoE Switch (to power PoE cameras)	HP E2520G-8-PoE	DSHPSWI
Rack Shelf for 8 Port PoE Switch	Belkin RK5023	DSBELKIN
24 Port PoE Switch (to power PoE cameras)	HP E2910-24G-PoE	DSHPSWI
24 Port GigE Switch	HP E2510-24G	DSHPSWI
48 Port GigE Switch	HP E2510-48G	DSHPSWI

Networking Equipment

NiceVision -- Video Management System

NiceVision Net 2.0 is offered via 3 basic product packages making ordering and migrating to new features very easy. A basic rule of thumb in determining the package to order is... If the customer wants to perform analytics, order the Enterprise package, otherwise order the eXpress or Professional packages based on the number of cameras and concurrent users required.

If there is a requirement to have more than one NVR or to have a remote NVR on a separate server from the main application management server, then the Professional package must be ordered as the eXpress package does not support those architectures.

NiceVision eXpress – A single-server recording and management solution, optimized for small sites. The main features of NiceVision eXpress are:

- Single server solution

- Supports up to 64 cameras and 4 concurrent users

- Integration ready (1 SDK license included)

- Offered in bundles: 16/32/48/64 channels (a bundle includes site, channels, users and SDK

licenses)

NiceVision Professional – A multi-server recording and management solution, optimized for mid-sized deployments. The main features of NiceVision Professional are:

Supports multiple recorders

Supports up to 200 cameras and 20 users

Enables centralized and local Monitoring

Includes advanced features (optional) including VPO,CT and others

NiceVision Enterprise – A high-end recording and management solution, optimized for large scale deployments. The main features of NiceVision Enterprise are:

Optimal for large scale, multi site deployments

Supports unlimited number of cameras & users

Includes advanced resilience features

Analytics enabled

Advanced features are included as standard in channel price (VPO, CT, multicast and others)



NiceVision eXpress

NiceVision eXpress	NiceVision Part #
NICEVISION EXPRESS SOFTWARE 16 CAMS NiceVision eXpress Video Management & Recording solution. Includes licenses for 16 cameras, 16 audio-in channels, 2 concurrent users and 1 SDK connection.	NV-NVX-16CH
NICEVISION EXPRESS SOFTWARE 32 CAMS NiceVision eXpress Video Management & Recording solution. Includes licenses for 32 cameras, 32 audio-in channels, 2 concurrent users and 1 SDK connection.	NV-NVX-32CH
NICEVISION EXPRESS SOFTWARE 48 CAMS NiceVision eXpress Video Management & Recording solution. Includes licenses for 48 cameras, 48 audio-in channels, 4 concurrent users and 1 SDK connection.	NV-NVX-48CH
NICEVISION EXPRESS SOFTWARE 64 CAMS NiceVision eXpress Video Management & Recording solution. Includes licenses for 64 cameras, 64 audio-in channels, 4 concurrent users and 1 SDK connection.	NV-NVX-64CH
NICEVISION EXPRESS 16 CH EXPANSION 16 channels expansion kit	NV-NVX-EXP-16CH
NICEVISION EXPRESS VMX MONITOR LIC	

Single VMX monitor license for eXpress package	NV-NVX-VMX-1MO
NICEVISION EXPRESS SDK CONCRNT CONN Single license for SDK concurrent connection. Note: Up to 10 SDK concurrent connections are supported per site	NV-NVX-SDK-1CC

NiceVision eXpress Pricing

NiceVision Professional

NiceVision Professional- Mandatory Parts	NiceVision Part #
NICEVISION PROFESSIONAL SOFTWARE NiceVision Professional Software Package including Site Management license, 2 user licenses and 1 SDK connection license	NV-PROF-SITE
NICEVISION PRO SINGLE VIDEO CHANNEL (max 200) Single license for NiceVision professional package video channel Note: Up to 200 channels are supported	NV-PROF-1CH
Optional Features	NiceVision Part #
NICEVISION PRO SNGL AUDIO CHANNEL Single Audio In/Audio-Out channel license	NV-PROF-AUDIO-1CH
NICEVISION PRO ADV VIDEO QLTY PACK Advanced Video Quality Pack for 1 video channel including Camera Tampering, Visual Parameter Optimizer	NV-PROF-AVQ-1CH
NICEVISION PRO ADV STREAMING PACK Advanced Streaming Pack for 1 channel including direct streaming, SVR multicast & dual streaming	NV-PROF-ASP-1CH
NICEVISION PRO RECORDER REDUNDANCY Recorder redundancy license for 1 channel Note: The amount of licenses should be equal to the number of channels in the cluster	NV-PROF-RSVR-1CH
NICEVISION PRO SVR SFTWR DPLY TOOL Server Software Deployment Tool	NV-PROF-RSVR-1CH
NICEVISION PRO VMX MONITOR LICENSE Single VMX monitor license for Professional package	NV-PROF-VMX-1MON

NICEVISION PRO SDK CONCURRENT CONN Single SDK Concurrent Connection Note: Up to 20 concurrent users and/or SDK connections are supported per site	NV-PROF-SDK-1CC
NICEVISION PRO USER CONCURRENT CONN Single user concurrent connection license for Professional package Note: Up to 20 concurrent users and/or SDK connections are supported per site	NV-PROF-USER-1CC

NiceVision Professional Pricing

NiceVision Enterprise

NiceVision Enterprise - Mandatory Parts	NiceVision Part #
NICEVISION ENTERPRISE SOFTWARE NiceVision Enterprise Software Package including Site Management license, 2 user licenses and 1 SDK connection license	NV-ENT-SITE
NICEVISION ENT SINGLE VIDEO CHANNEL Single license for NiceVision Enterprise package video channel	NV-ENT-1CH
Optional Features	NiceVision Part #
NICEVISION ENT RECORDER REDUNDANCY Recorder redundancy license per 1 channel Note: The amount of licenses should be equal to the number of channels in the cluster	NV-ENT-RSVR-1CH
NICEVISION ENT ADV RLLNC PACK Advanced Resilience Pack per 1 video channel including CSS backup	NV-ENT-ARP-1CH
NICEVISION ENT CROWD CONTROL APP Crowd Control Application per 1 video channel	NV-ENT-CRWDC-1CH
NICEVISION ENT VIDEO ANALYTICS Video Analytics support per 1 video channel	NV-ENT-VA-1CH
NICEVISION ENT SVR SITE REDUNDANCY Single license for site redundancy (per site)	NV-ENT-RSITE
NICEVISION ENT ACTIVE DIRECTORY	

Site license for Active Directory Integration Note: Up to 1 AD connection is supported	NV-ENT-AD
NICEVISION ENT VMX MONITOR LICENSE Single VMX monitor license for Enterprise package	NV-ENT-VMX-1MON
NICEVISION ENT SDK CONCURRENT CONN Single SDK concurrent connection for Enterprise package	NV-ENT-SDK-1CC
NICEVISION ENT USER CONCURRENT CONN Single user concurrent connection license for Enterprise package	NV-ENT-USER-1CC
NICEVISION ENT MOBILE CNCURRNT CONN Single mobile concurrent connection for Enterprise package	NV-ENT-MOB-1CC

NiceVision Enterprise Pricing

NiceVision Media and SDK

NiceVision Media and SDK	NiceVision Part #
NICEVISION MEDIA PACK SOFTWARE-DOCS NiceVision media pack including application software and documentation	NV-MEDIA-PACK
NICEVISION SOFTWARE DEVELOPMENT KIT Software Developer Kit (SDK)	NV-SDK

NiceVision Media and SDK Pricing

HP Servers for NiceVision and VidSys

Various server configurations are required to support the various software components in the video system network, such as the NiceVision Network Video Recorder (NVR) which collects and stores video from the cameras, the NiceVision Application Management Server (AMS) which manages the all NVRs in the system and the Central Storage Server (CSS) which is a central server for long term storage once video is removed from the NVRs. Any one of these servers can be used for VidSys depending on the customer's requirements. Various server configurations from HP are listed below with their model # and Motorola part #.

Server Type	Model and Specs	Mot Part #
	HP DL180 G6	

NICEVISION AMS -- STANDARD SITE (up to 500 cameras and up to 15 recorders)	1 x Xeon E5640 - 4 core 2.66 GHz 4 GB RAM 2 x 160 GB HDD Dual Power Supply DVD-ROM	DSHPDL180
NICEVISION AMS -- LARGE SITE (Number of cameras between 501- 8,500, OR Number of recorders between 15-600)	<u>HP DL180 G6</u> 1 x Xeon X5670 - 6 core 2.93 GHz 4 GB RAM 2 x 160 GB HDD Dual Power Supply DVD-ROM	DSHPDL180
NICEVISION NVR -- LOW TIER	<u>HP DL120 G6</u> 1 x Xeon X3450 - 4 core 2.67 GHz 4 GB RAM NO HDDs included - must order 2 x DSHP2TBHARDDRIVE Single Power Supply No DVD	DSHPDL120
NICEVISION NVR -- MID TIER	<u>HP DL180 G6</u> 1 x Xeon E5620 - 4 core 2.40 GHz 4 GB RAM 2 x 2 TB HDD Dual Power Supply DVD-ROM	DSHPDL180
NICEVISION NVR -- HIGH TIER	<u>HP DL180 G6</u> 2 x Xeon E5620 - 4 core 2.40 GHz 8 GB RAM 2 x 2 TB HDD Dual Power Supply DVD-ROM	DSHPDL180
NICEVISION CSS -- MID TIER	<u>HP DL180 G6</u> 1 x Xeon E5640 - 4 core 2.66 GHz 4 GB RAM 2 x 250 GB HDD Dual Power Supply DVD-ROM	DSHPDL180
NICEVISION CSS -- HIGH TIER	<u>HP DL180 G6</u> 2 x Xeon E5640 - 4 core 2.66 GHz 8 GB RAM 2 x 250 GB HDD Dual Power Supply DVD-ROM	DSHPDL180
HP STORAGEWORKS D2600 ENCLOSURE	<u>HP D2600 External 12 Hard-drive Storage Array</u> Does not come with any hard-	DSHPD2600

	drives - must order DSHP2TBHARDDRIVES	
2TB HDD FOR HP D2600 AND DL SERVERS	2 TB 3G LFF SATA 7.2K HDD	DSHP2TBH/
Microsoft SQL 2008 w/ 10 Client Licenses	SQL 2008 Standard Edition	DSMICROSC

HP Servers for NiceVision and VidSys

VidSys -- Physical Security Information Management System

The VidSys PSIM software collects information from all security systems and devices, analyzes the information to determine the underlying situation, displays the information (video, audio, text, maps, pictures and data) for instant verification, automatically presents the tools, information and policy instructions to resolve the situation, and then tracks and reports the results for compliance and investigative analysis.

To do this, the VidSys PSIM software provides an open standards web-based platform and applications that collect and correlate events from disparate security devices and information systems (video, access control, sensors, analytics, networks, etc.) and creates one common operating picture that automatically translates the resulting information into prioritized situations that can be visually verified in seconds.

Once a situation is confirmed, the software presents standard operating procedures with step-by-step instructions which update automatically as the situation evolves. From dispatching responders and communicating with field personnel, to locking or unlocking doors to streaming real time information and video to mobile devices, the VidSys PSIM software manages the situation. Once the situation is resolved, the software saves the history for future analysis.

The VidSys PSIM Software is the only web-based solution on the market today that provides all the necessary tools for real time dynamic situation management, that can track and change situations dynamically to respond to situation changes, and allows changes to security policies, devices, and maps without bringing down the system or loading new software on desktops.

The VidSys PSIM Software system includes three components: an Open PSIM Platform, RiskShield, and VidShield.

The Open PSIM Platform is an industry leading open software architecture that is the backbone of the VidSys software. The platform enables organizations to connect and leverage any number and variety of disparate physical security and information systems in their organization. By integrating these components into one seamless infrastructure, an organization has a Common Operating Picture of their entire security system allowing real time diagnosis, prioritization, and resolution of all security or business policy exceptions.

RiskShield is the application that enables situation awareness, management, and resolution according to standard business processes and policies. Situations are identified, analyzed and prioritized automatically and then all appropriate information is presented to an operator in an integrated display. In the same display, operators can view and manage all assets and critical details necessary to resolve the situation in real time including live and recorded video, alarms and events, communications and collaboration with field personnel, and map views. Additionally, organizations can easily translate policies in to step-by-step action plans for situation resolution, based on corporate policies and leverage out-of-the-box, post situation

reporting for compliance and investigative analysis.

VidShield is multi-vendor video management application that facilitates centralized utilization and management of deployed video assets and the selective presentation of live and recorded video streams. It enables tracking of an object thru recorded video as well as in real-time thru a network of security cameras. Together the Open PSIM Platform, RiskShield, and VidShield provide a complete situation awareness and management solution to effectively manage any security, business related, or emergency situation in real time “ across any industry.

Ordering Information

When pricing video components, here is the procedure to follow:

1. All cameras must be counted and priced as “cameras” .
2. Any cameras that have analytics (whether in the camera or through a server or otherwise, a count is taken and placed in or added to the two way sensor column of the calculator. This is an additional charge to cover the analytics in addition to the camera license charge.
3. NVR/DVRs are NOT counted.
4. If the cameras are managed through an NVR/DVR, only price a connector for the make and model of the NVR/DVRs involved. There is no reason to price connectors for the individual cameras if they are managed through an NVR/DVR.

Prior to quoting VidSys, it is important to understand what functionality the PSIM platform is expected to provide in the potential customer’s environment. If the requirement for the system is to just provide video aggregation from multiple video sources through a common interface then the VidShield application will provide that functionality. The information required to scope the effort would be the vendor names and version numbers of all the NVR’s that need to be aggregated. In addition, the number of cameras currently supported by each NVR is required to obtain the appropriate licensing.

If the requirement is to implement more advanced functionality such as correlation of multiple security events from sources such as access control, alarms, sensors or other physical security events then the quotation process becomes more complicated. The vendor names and version numbers of all the physical security elements need to be gathered prior to obtaining a quote. It is also necessary to document the rules to be applied to correlating the events and what actions need to be taken when an actual event takes place.

If the requirement is to provide a set of rules for how the security events are correlated and management of any resultant security event with a documented action plan then the RiskShield user application will be required. It is possible that VidShield and RiskShield can both be used for systems that need video aggregation and event correlation and management.

The pricing from VidSys can have a great deal of variability based on whether there is a device driver already in the VidSys library for the security element (NVR, sensor, alarm, etc) to be integrated into the system. If no device driver exists then it is necessary to get a quote for the development of the software which will be significantly more than the cost of licensing an existing one.

VidSys pricing is derived from several different categories depending on user requirements. The software license costs are for the base configuration plus any user applications, the number of cameras, and software drivers for any security elements that are included in the configuration. There is also a list of services that need to be priced such as installation, configuration, custom software development, and security rule development for correlating events and creating subsequent actions.

The VidSys platform also requires a dedicated server for operation of the system. It is possible to get a quotation for (N + 1) redundancy if the customer requires it. Since the platform operates only as a control device with no actual video being transferred or processed within VidSys a single server is adequate for all system sizes.



VidShield

VidShield	VidShield Part #	
<p>VIDSHIELD OPERATOR USER LICENSE</p> <p>The number of individual regular full time system users with full system functionality (typically all "Operator" users operate in a security command center environment).</p>	CVS-OUL	[
<p>VIDSHIELD LITE USER LICENSE</p> <p>The number of individual system users who access the system outside the command center with a limited functionality set. Examples of "Lite" users would be a single desktop monitor users, mobile data terminal users or handheld unit users.</p>	CVS-LUL	[
<p>VIDSHIELD 1 WAY SENSOR LICENSE</p> <p>The number of one way sensors to be integrated with the VidSys platform. One way sensors include devices such as fire alarms systems (smoke detector, alarm pull), panic alarms, CBRNE sensors, glass break alarms, etc.</p>	CVS-S2VAL	[
<p>VIDSHIELD 2 WAY SENSOR AND VA LIC</p> <p>The number of one way sensors to be integrated with the VidSys platform. One way sensors include devices such as fire alarms systems (smoke detector, alarm pull), panic alarms, CBRNE sensors, glass break alarms, etc.</p>	CVS-S2VAL	[
<p>VIDSHIELD CAMERA LICENSE</p> <p>The number of video cameras of any type. Fixed Cameras, Infrared Cameras, PTZ cameras, etc. NOTE: Cameras that also have Video Analytic capabilities are priced by including one count in the Camera category and an additional count for that camera in the Video Analytics pricing category.</p>	CVS-CAML	[
<p>VIDSHIELD LITE APP CONN LICENSE</p> <p>Driver libraries for all devices by Make and product line designation as well as applications that are not defined by specific device counts; ie: Shotspotter, Viology, Augusta, etc.</p>	CVS-CLLAL	[
<p>VIDSHIELD COMPLEX APP CONN LICENSE</p> <p>These system types include technologies such as Computer Aided</p>		

Dispatch (CAD), Automated Traffic Management Software (ATMS), Building Management Systems and other third party solutions offering robust interfaces that may include hardware, deployed sensors and management software.	CVS-CAL
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VidShield Pricing

RiskShield

RiskShield	RiskShield Part #	Mot Part #
RISKSHIELD OPERATOR USER LICENSE The number of individual regular full time system users with full system functionality (typically all "Operator" users operate in a security command center environment).	CRS-OUL	DSRISKSHIELDCVSOUL
RISKSHIELD LITE USER LICENSE The number of individual system users who access the system outside the command center with a limited functionality set. Examples of "Lite" users would be a single desktop monitor users, mobile data terminal users or handheld unit users.	CRS-LUL	DSRISKSHIELDCVSLUL
RISKSHIELD 1 WAY SENSOR LICENSE The number of one way sensors to be integrated with the VidSys platform. One way sensors include devices such as fire alarms systems (smoke detector, alarm pull), panic alarms, CBRNE sensors, glass break alarms, etc.	CRS-S2VAL	DSRISKSHIELDCVSS2VA
RISKSHIELD 2 WAY SENSOR AND VALIC The number of one way sensors to be integrated with the VidSys platform. One way sensors include devices such as fire alarms systems (smoke detector, alarm pull), panic alarms, CBRNE sensors, glass break alarms, etc.	CRS-S2VAL	DSRISKSHIELDCVSS2VA
RISKSHIELD CAMERA LICENSE The number of video cameras of any type. Fixed Cameras, Infrared Cameras, PTZ cameras, etc. NOTE: Cameras that also have Video Analytic capabilities are priced by including one count in the Camera category and an additional count for that camera in the Video Analytics pricing category.	CRS-CAML	DSRISKSHIELDCVSCAML
RISKSHIELD LITE APP CONN LICENSE		

<p>Driver libraries for all devices by Make and product line designation as well as applications that are not defined by specific device counts; ie: Shotspotter, Viology, Augusta, etc.</p>	<p>CRS- CLLAL</p>	<p>DSRISKSHIELD CVSCLLA</p>
<p>RISKSHIELD COMPLEX APP CONN LICENSE These system types include technologies such as Computer Aided Dispatch (CAD), Automated Traffic Management Software (ATMS), Building Management Systems and other third party solutions offering robust interfaces that may include hardware, deployed sensors and management software.</p>	<p>CRS-CAL</p>	<p>DSRISKSHIELD CVSCAL</p>

RiskShield Pricing

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Outdoor Coverage Evaluation Service

Ordering Information

General Information

Radio coverage evaluation testing can be performed as proof of performance for newly installed radio systems and can also be used as a tool to aid in long range planning for the acquisition of new or the expansion of existing radio systems. The verification of radio coverage may also be beneficial to system users as radio systems age and their operational condition becomes questionable.

Coverage Verification Testing makes use of Motorola's FACTWare (sm) (Fully Automated Coverage Testing) equipment. FACTWare (sm) is a combination of hardware and software that is used for performing radio coverage surveys and executing coverage acceptance tests. It provides customers with an automated method to evaluate outdoor radio coverage over their service area by dividing the area into grids. Delivered signal strength in each grid is measured, recorded, and presented statistically and graphically to provide an objective evaluation of system operation.

For more information, please review the [Solution Resource Guide](#).

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) for more details.
- **This product CANNOT be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

MODEL

CONFIGURATION

SHIP CARD

Model

Antennas

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANT TRANSIT DOME 148-160 MHZ	Antenna and Cable Kit. Power 150 Watts Max, Gain: Unity, VSWR: 1.5:1, Impedance: 50 Ohms, nominal	RRA4455	554	\$137.00

Options

Accessories

Antenna Option

Description	Full Description	Nomenclature	APC	Price
ANT TNK MT	Trunk lip mount, Mini UHF, 17 ft. cable.	0180355A88	554	\$31.75

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	0180352A03	ANTENNA MNT KIT WITH PL-259	554	8

PARTS	CDP	0180352A10	ANT QTR WAVE	554	5
PARTS	PGF	0180352A10	ANT QTR WAVE	554	9
PARTS	CDP	0180352A11	ANTENNA 1/4 WAVE, 450-470 MHZ	554	2
PARTS	CDP	0180352A12	ANT QTR WAVE	554	9
PARTS	CDP	0180355A88	ANT TNK MT	554	1
PARTS	CDP	RRA4455	ANT TRANSIT DOME 148-160 MHZ	554	1
PARTS	CDP	RRA4656	ANT TRANSIT DOME	554	2
PARTS	CDP	RRA4933A	ANTENNA 800MHZ	554	23
PARTS	CDP	RRA5557	ANTENNA MOBILE 450-470 MHZ	554	23
QUOTEDS	LAR	TDD6890	MOBILE ANTENNA 3DB VHF ROOF MT	271	10
QUOTEDS	LAR	TDE6772	ANTENNA MOBILE UHF MAGNETIC MT NMO470C NMO MMR	291	5
QUOTEDS	LAR	TDF6620	MOBILE ANTENNA 800MHZ ROOF MT	291	9

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



PDR8000

Ordering Information

Features

All bands – VHF, UHF, 700 & 800 MHz

Wireline connection to Motorola Solutions consoles

Lightweight construction – Less than 28 lbs.

Durable construction for the most extreme conditions

Closed case operation with internal or external duplexer

General Information

The PDR8000 (Portable Digital Repeater), with its wireline interface, supports Digital Conventional features when connected to a Motorola console via DIU/CCGW interfaces. Support of existing interfaces enables the PDR8000 to be deployed quickly for the coverage challenges that many first responders face.

Applications

- Special Events
- Interoperability
- Dignitary protection

- In-building coverage

The PDR8000 is a replacement for the retired PDR 3500 portable repeater and allows for enhanced coverage. It supports interfaces to V.24 boundary devices (DIU/CCGW) for dispatch over a Digital Conventional channel.

PDR8000 Specs

- Output power 15 Watts post duplexer/20 Watts before
- AC/DC Power Operation: 12 VDC, 120 VAC or 220 VAC
- Length: 19.20" Width: 15.20" Height: 7.30"
- Weight 27.4 lbs./12.5 kg
- Programming software available on-line
- Optional External 5 Hour battery pack
- Internal Duplexer requires a valid TX and RX for factory tuning

Orderability Guidelines

Each PDR model requires the following:

- Accurate TX and RX frequencies for factory tuning needs
- One protective case color option (of three choices)
- One duplexer option, including the "No Duplexer" configuration

[Ordering Guide](#)

[PDR8000 Product Planner](#)

[Spec Sheet](#)

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
PDR 8000 - VHF	-	TT3148	482	\$14,850.00
PDR 8000 - UHF 380-430	-	TT3149	482	\$14,850.00
PDR 8000 - UHF 450-470	-	TT3150	482	\$14,850.00

PDR 8000 - 700	-	TT3152	482	\$14,850.00
PDR 8000 - 800	-	TT3153	482	\$14,850.00

Options

Operation

Description	Full Description	Nomenclature	APC	Price
ADD: V.24 WIRELINE OPERATION	-	TT06253AA	482	\$5,750.00
ADD: DEPLOYMENT PROFILE CAPABILITY	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	TT06319AA	482	\$700.00

Duplexer

(One of these options, including "No Duplexer", must be chosen)

Description	Full Description	Nomenclature	APC	Price
ADD: NO DUPLEXER REQUIRED	-	TT06261AA	482	\$0.00
ADD: DUPLEXER - VHF	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass.	TT06254AA	482	\$850.00
ADD: DUPLEXER - UHF 380-430 (MINIMU	Minimum 10MHz Tx to Rx Separation. 100kHz bandpass	TT06255AA	482	\$1,268.00
ADD: DUPLEXER - UHF 380-430 (MINIMU	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06256AA	482	\$850.00
ADD: DUPLEXER - UHF 450-470	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06257AA	482	\$850.00
ADD: DUPLEXER - 700	30MHz Tx to Rx Separation. 6MHz bandpass	TT06259AA	482	\$850.00
ADD: DUPLEXER - 800	45MHz Tx to Rx Separation.	TT06260AA	482	\$850.00

	10MHz bandpass			
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Case Colors

(One case color option must be chosen)

Description	Full Description	Nomenclature	APC	Price
ADD: STANDARD BLACK CASE	-	TT06281AA	482	\$0.00
ALT: OLIVE DRAB CASE	Optional color choice. Replaces standard black case.	TT06251AA	482	\$350.00
ALT: YELLOW CASE	Optional color choice. Replaces standard black case.	TT06252AA	482	\$350.00

Mag Mount Antennas

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	-	DDN9014	571	\$286.00
UNITY GAIN UHF ANTENNA TRANS	-	DDN9015	571	\$286.00
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00

Add-On Features

These items can be purchased as incremental functionality if not ordered with original model.

Description	Full Description	Nomenclature	APC	Price
ENABLE DEPLOYMENT PROFILE CAPABILIT	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	DDN2633	482	\$800.00
ENABLE V.24 WIRELINE CAPABILITY	Adds V.24 capability to fielded units.	DDN2634	482	\$7,115.00

Booster Packs

Description	Full Description	Nomenclature	APC	Price
VHF PDR8000 BOOSTER PACK	-	DDN2732	482	\$11,900.00
UHF 380-430 MHZ PDR8000 BOOSTER PAC	-	DDN2733	482	\$11,900.00
UHF 450-470 MHZ PDR8000 BOOSTER PAC	-	DDN2734	482	\$11,900.00
700/800 MHZ PDR8000 BOOSTER PACK	-	DDN2735	482	\$11,900.00

Extended Warranty

Description	Full Description	Nomenclature	APC	Price
PDR8000 - 1 YEAR EXTENDED WARRANTY	-	DDN2302	482	\$170.00
PDR8000 - 4 YEAR EXTENDED WARRANTY	-	DDN2303	482	\$605.00

Spares

Description	Full Description	Nomenclature	APC	Price
PDR8000 SPARE AC POWER CABLE - 6 FT	-	DDN2300	482	\$225.00
PDR8000 SPARE DC POWER CABLE - 8 FT	-	DDN2301	482	\$295.00
SPARE PDR8000 DC CABLE (UNTERMINAT	-	DDN2332	482	\$212.00
BATTERY BACKUP FOR PDR8000	-	DDN2336	482	\$3,241.00
SPARE CHARGER FOR PDR8000	-	DDN2334	482	\$775.00

BATTERY B				
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00
SPARE PDR DUPLEXER - 700	-	DDN2318	482	\$950.00
SPARE PDR DUPLEXER - VHF	-	DDN2313	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2314	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2315	482	\$950.00
SPARE PDR DUPLEXER - UHF 450-470	-	DDN2316	482	\$950.00
SPARE PDR DUPLEXER - 800	-	DDN2319	482	\$950.00
OPTIONAL BACKPACK SLING COYOTE COLO	-	DDN2885	571	\$1,714.00
OPTIONAL BACKPACK SLING MULTI CAM C	-	DDN2886	571	\$1,714.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN2300	PDR8000 SPARE AC POWER CABLE - 6 FT	482	30
QUOTEDS	FUT	DDN2301	PDR8000 SPARE DC POWER CABLE - 8 FT	482	30
QUOTEDS	FUT	DDN2302	PDR8000 - 1 YEAR EXTENDED WARRANTY	482	30

QUOTEDS	FUT	DDN2303	PDR8000 - 4 YEAR EXTENDED WARRANTY	482	30
QUOTEDS	FUT	DDN2313	SPARE PDR DUPLEXER - VHF	482	30
QUOTEDS	FUT	DDN2314	SPARE PDR DUPLEXER - UHF 380-430	482	30
QUOTEDS	FUT	DDN2315	SPARE PDR DUPLEXER - UHF 380-430	482	30
QUOTEDS	FUT	DDN2316	SPARE PDR DUPLEXER - UHF 450-470	482	30
QUOTEDS	FUT	DDN2318	SPARE PDR DUPLEXER - 700	482	30
QUOTEDS	FUT	DDN2319	SPARE PDR DUPLEXER - 800	482	30
QUOTEDS	FUT	DDN2332	SPARE PDR8000 DC CABLE (UNTERMINAT	482	30
QUOTEDS	FUT	DDN2333	SPARE PDR8000 AUXILIARY CABLE	482	30
QUOTEDS	FUT	DDN2334	SPARE CHARGER FOR PDR8000 BATTERY B	482	30
QUOTEDS	FUT	DDN2335	ZIPPERED ACCESSORY POUCH	482	30
QUOTEDS	FUT	DDN2336	BATTERY BACKUP FOR PDR8000	482	42
QUOTEDS	FUT	DDN2633	ENABLE DEPLOYMENT PROFILE CAPABILIT	482	5
QUOTEDS	FUT	DDN2634	ENABLE V.24 WIRELINE CAPABILITY	482	5
QUOTEDS	FUT	DDN2732	VHF PDR8000 BOOSTER PACK	482	50
QUOTEDS	FUT	DDN2733	UHF 380-430 MHZ PDR8000 BOOSTER PAC	482	50
QUOTEDS	FUT	DDN2734	UHF 450-470 MHZ PDR8000 BOOSTER PAC	482	50
QUOTEDS	FUT	DDN2735	700/800 MHZ PDR8000 BOOSTER PACK	482	50

QUOTEDS	FUT	DDN2885	OPTIONAL BACKPACK SLING COYOTE COLO	571	30
QUOTEDS	FUT	DDN2886	OPTIONAL BACKPACK SLING MULTI CAM C	571	30
QUOTEDS	FUT	DDN9014	UNITY GAIN VHF ANTENNA FOR TRANSPORT MAG MOUNT (136-174)	571	28
QUOTEDS	FUT	DDN9015	UNITY GAIN UHF ANTENNA TRANS	571	80
QUOTEDS	FUT	DDN9016	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	571	50
QUOTEDS	FUT	TT3148	PDR 8000 - VHF	482	84
QUOTEDS	FUT	TT3149	PDR 8000 - UHF 380-430	482	84
QUOTEDS	FUT	TT3150	PDR 8000 - UHF 450-470	482	84
QUOTEDS	FUT	TT3152	PDR 8000 - 700	482	84
QUOTEDS	FUT	TT3153	PDR 8000 - 800	482	84

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Performance Management Reports Service

Ordering Information

General Information

The Motorola Performance Management Reports Service transforms raw system data into actionable information. Using the information provided by the Performance Reports, a customer can help guide network activities for effective capacity planning, trend analysis, and network performance optimization. This enables effective decisions to optimize the usage of a customer's network to best meet their business needs and prevent misuse of critical resources. Performance Management Reports will enable a customer's network managers to evaluate the critical system load parameters on their system to show where and when system bottlenecks occur and to allow for accurate future system growth planning.

Features

Performance Management Reports report on various operational levels of the customer's system:

- Overall System Level
- Zone Level
- Site Level

The Performance Management Reports also report on various user partitions:

- Talkgroup Level
- Agency Level
- Individual User Level

Statement of Work

The customer Statement of Work for this Standard Service Product *CANNOT* be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

Performance Management Reports [SOW](#)

Ordering Requirements

1. This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. This service is ordered on a system basis, regardless of the size of the system.
3. Enter the main line item as quantity one.
4. All dollar amounts reflect an annual one year pricing.

Configuration

Description	Nomenclature	APC	Price
Performance Management Reports-Internal	SVC01SVC0114A	972	\$0.00
ASTRO Performance Management Report-Internal			\$100,800.00
Description	Nomenclature	APC	Price
Performance Management Reports-COAM	SVC01SVC0115A	972	\$0.00
ASTRO Performance Management Reports-COAM			\$378,000.00
Description	Nomenclature	APC	Price
Performance Management Reports-System Manager	SVC01SVC0116A	972	\$0.00
ASTRO Performance Management Reports-System Manager			\$15,750.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0114A	ASTRO PERF MGMT RPT - INTERNAL	0390	
HW_MAINTENANCE	US1	SVC01SVC0115A	ASTRO PERF MGMT RPT - COAM	0390	
HW_MAINTENANCE	US1	SVC01SVC0116A	ASTRO PERF MGMT RPT - SYSTEM MANAGER	0390	

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

PMP (Point to Multi-Point) Portfolio

Ordering Information

Features

Point-to-Multipoint (PMP) solutions help municipalities and government agencies of all sizes realize the benefits of high-speed wireless connectivity. PMP systems can be deployed faster, easier and more cost-effectively, helping communities connect underserved areas, improve community safety with video surveillance, save tax dollars, empower public works and public safety departments to be more effective. PMP solutions are available in a variety of Unlicensed and Licensed bands which enable wireless broadband to send data, voice, and/or video simultaneously. These solutions are cost effective, easy to deploy, reliable, and can be configured in a way that best suits your customer's needs.

General Information

The Secure, Flexible, Reliable Wireless Solution for Extending Broadband Networks

In the burgeoning but demanding broadband marketplace, the Motorola PMP platform offers state-of-the-art wireless technology with significant benefits that enhance the broadband experience for a wide range of providers and end users. The system's performance makes high-demand technologies like voice over IP, video services, security surveillance, broadband Internet access and more both effective and cost-effective.

Interference Resistance. The Motorola PMP solution's unique and powerful modulation scheme significantly improves the quality of data delivery and effectively mitigates interference from other systems of virtually every shape and spectrum.

Data Rates. The point-to-multi-point system offers up to 40Mbps (aggregate data rates) to network end users.

Operating Ranges. The Motorola PMP platform offers last mile broadband access for networks of various sizes and coverage areas. A single point-to-multipoint system can cover a range of up to 20 miles.

Scalability. As the density of global networks increases, clean channels become more scarce. With frequency reuse enabled by GPS Synchronization, your network can reuse the same channels across the entire network, growing where others can't.

Security. The Motorola PMP system enhances security with over-the-air DES (Data Encryption Standard) encryption that provides 128-bit encryption to ensure secure data delivery and exceptional reliability. In some areas, the platform is also available with AES (Advanced Encryption Standard) capabilities that make it virtually impossible to crack a

code.

Video Ready. Streaming video applications demand a lot from today's networks, and their popularity only grows. PMP and ePMP are built to ensure great quality of service for video, letting your customers enjoy IPTV undisturbed.

Product Information:

External Site - <http://www.cambiumnetworks.com>

One Point Wireless Outdoor Suite Software

The One Point Wireless Suite is a set of powerful software solutions that help design, deploy, manage wireless networks. The suite's design tools help optimize equipment spend and ensure reliable coverage for most demanding application through the use of advanced prediction engines and intuitive 3-D user interface. The suite's holistic and intuitive management tools help organizations maximize uptime and availability for trusted networking by using breakthrough network visualization technology that enables network administrators to monitor and control the performance of their outdoor wireless network.

Network Management Tools:

Wireless Manager- is a deployment and management solution that provides a holistic view of the entire outdoor wireless network. This management system allows you to respond quickly to issues and maximize uptime and user trust in wireless networks.

Wireless Manager Features:

The Wireless Manager is a highly advanced network management system and offers tremendous values to organizations. Key differentiators are the following :

1. Live Google Map visualizations
2. rich Google maps functionality including street view, local search, network device search and Google local search
3. One Common interface for management and monitoring of Mesh, Point to Point (PTP), Point to Multipoint (PTM)
4. Template based Configuration enables user to quickly configure new devices resulting in fewer errors and an accelerated deployment
5. These version will have the ability to replace the Prizm element license functionality
6. Enhanced and improved dashboards and Google Maps
7. Increased scalability of network elements from 5K to 10K
8. Heat Display imports from Broadband Planner
9. High Availability option which allows users to have a redundancy server
10. Ultra thin client which allows users to view alarms and monitor system through their smartphone other than configuration changes.

Configuration

PMP 450 High performance, synchronization and low latency modules for access and backhaul

- FREQUENCY AVAILABILITY: 900 MHz, 2.4 GHz, 3 GHz, 5 GHz
- THROUGHPUT: Over 250 Mbps
- LATENCY: 3 - 5 msec
- FLEXIBLE CHANNEL WIDTH: 5, 7, 10, 15, 20, 30 or 40 MHz
- DYNAMIC ADAPTIVE MODULATION: QPSK, 16QAM, 64QAM, and 256 QAM
- SYNCHRONIZATION: GPS Synchronization for scalability
- SECURITY: FIPS-197 128-bit AES, SNMPv3, HTTPS

PMP 450 Series

Description	Full Description	Nomenclature	APC	Price
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 4 MBPS	-	DSC054045C001	904	\$301.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 20 MBPS	-	DSC054045C003	904	\$422.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, UNCAPPED	-	DSC054045C004	904	\$543.00
PMP 450 CONNECTORIZED WIDEBAND ACCESS POINT	-	DSC054045A001	904	\$3,503.00

PMP 450i Series

450 platform includes the all new PMP 450i and PTP 450i radios. The 450i product platform is a scalable industrial-grade wireless broadband solution.

PMP 450m

PMP Kits/Packs

Description	Full Description	Nomenclature	APC	Price
SURGE SUPPRESSOR 25 BULK PK	-	DSHK1948A	904	\$853.00

Accessories

CMMs

Description	Full Description	Nomenclature	APC	Price
ASSY,PRD OTH,CMM4 W/RUGGEDIZED SW AND GPS	-	DS1090CKBA	904	\$4,415.00
CMM4 NO SWITCH	-	DS1091AA	904	\$2,376.00
ASSEMBLY,CMM4 RACK MOUNT ASSEMBLY	-	DS1092AA	904	\$1,800.00

Power Supplies

Antennas

Description	Full Description	Nomenclature	APC	Price
ANT,ANT,GPS ANT W/O MT	-	DSGPSANTPNM03D	904	\$200.00
5 GHZ - 90 DEG SECTOR ANTENNA	-	DS85009324001	904	\$785.00

Mounting Brackets

Description	Full Description	Nomenclature	APC	Price
ASSY,KIT,UNIV MTG KIT	-	DSSMMB1A	904	\$53.00
ASSY,ASSY,UNIV MTG BRKT-HEAVY DUTY	-	DSSMMB2A	904	\$75.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ASSY,SRG PROT,SURGE SUPR FOR CMM PWR SPLY	-	DS200SSB	904	\$35.00

SURGE PROTECTOR	-	DS600SSD	904	\$46.00
SURGE SUPPRESSOR 25 BULK PK	-	DSHK1948A	904	\$853.00
ASSY,ASSY,ALIGN TOOL HSET	-	DSACATHS-01A	904	\$55.00

Wireless Manager Software MODELS

Wireless Manager 4.0

Description	Full Description	Nomenclature	APC	Price
WIRELESS MANAGER 4.0, INCLUDES 10 NODE LICENSES	-	DSC000000L056	904	\$220.00
WM 4.0 NODE LICENSE, QTY = 1	-	DSC000000L057	904	\$55.00
WIRELESS MANAGER 4.0, HA, INCLUDES 10 NODE LICENSES	-	DSC000000L061	904	\$330.00
WM 4.0 NODE LICENSE, HA, QTY = 1	-	DSC000000L062	904	\$77.00

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Policy and Charging Rules Function (PCRF)

Ordering Information

General Information and Features

- The Policy and Charging Rules Function (PCRF) provides real-time network, application, and subscriber policy control that allows service providers to manage mobile data growth and deliver personalized services by applying dynamic QoS (Quality of Service) to IP flows.
- PCRF is designed to be the central policy node in the network of a Public Safety Agency, coordinating the nodes in the transport domain to behave according to the defined policies of the operator.
- PCRF allows Public Safety agencies to manage mobile data traffic by applying real-time bandwidth controls that adapt to changing network conditions and subscriber context.
- PCRF supports subscriber policy capabilities that give Public Safety agencies direct control over their agency users' mobile usage, including: tracking real-time data, SMS, applications usage, and setting personalized limits.
- PCRF applies subscriber and service-centric policy control capabilities to mobile broadband, mobile IMS (IP Multimedia System), and SAE (System Architecture Evolution). The main policy types supported are related to service access control, QoS control, and charging control.
- These policy types can be statically configured, or dynamically generated through real-time integration with application functions like IMS applications.
- Default and dedicated bearers to provide for subscriber and service differentiation.
- PCRF provides support for network-initiated QoS control by managing dedicated bearers.
- PCRF provides support for Voice over LTE (VoLTE) offering.
- PCRF provides a fully redundant node architecture reaching 5X9s availability.
- IP Sessions are calculated based on the number of APNs (Access Point Names) required for the network. For example, if there is a default APN and IMS APN, you will need 2 IP sessions per subscription. This has to be worked with the design engineer who is working the deal.
- For additional information, please see the product data sheet at http://compass.mot-solutions.com/doc/489309017/Product_SPEC_SHEET_PCRF.pdf.

Configuration

New System Ordering Guidelines

A new PCRF system can be ordered as a package/bundle of both software and hardware. PCRF is licensed, based upon the number of IP sessions. Please choose from one of the following when ordering a new PCRF system:

Description	Full Description	Nomenclature	APC	Price
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PCRF HW/SW 5K IP SESSIONS	-	DDN1834	054	\$210,710.00
SAPC HW/SW 10K IP SESSIONS	-	DDN1835	054	\$262,920.00
PCRF HW/SW 25K IP SESSIONS	-	DDN1836	054	\$339,790.00
PCRF HW/SW 50K IP SESSIONS	-	DDN1837	054	\$462,130.00
PCRF HW/SW 100K IP SESSIONS	-	DDN1838	054	\$679,100.00
PCRF HW/SW 250K IP SESSIONS	-	DDN1839	054	\$1,298,580.00
PCRF HW/SW 500K IP SESSIONS	-	DDN1840	054	\$2,163,980.00
PCRF HW/SW 1M IP SESSIONS	-	DDN1841	054	\$3,616,590.00

Existing System Capacity Expansion Guidelines

When ordering a PCRF user license capacity expansion for an existing system, please choose from one of the following item numbers listed below. Please note that capacity expansions can only occur as mentioned. If the capacity expansion needs to span multiple steps, then all steps in between need to be accounted for. For example, if a capacity expansion is needed for 5K to 25K, then 5K to 10K and 10K to 25K need to be accounted for.

Description	Full Description	Nomenclature	APC	Price
PCRF HW/SW FROM 5K TO 10K IP SESSIONS	-	DDN1842	054	\$57,440.00
PCRF HW/SW FROM 10K TO 25K IP SESSIONS	-	DDN1843	054	\$84,560.00
PCRF HW/SW FROM 25K TO 50K IP SESSIONS	-	DDN1844	054	\$134,590.00
PCRF HW/SW FROM 50K TO 100K IP SESSIONS	-	DDN1845	054	\$238,670.00
PCRF HW/SW FROM 100K TO 150K IP SESSIONS	-	DDN1846	054	\$271,820.00

PCRF HW/SW FROM 150K TO 250K IP SESSIONS	-	DDN1847	054	\$406,300.00
PCRF HW/SW FROM 250K TO 350K IP SESSIONS	-	DDN1848	054	\$419,330.00
PCRF HW/SW FROM 350K TO 500K IP SESSIONS	-	DDN1849	054	\$531,320.00
PCRF HW/SW FROM 500K TO 750K IP SESSIONS	-	DDN1850	054	\$820,650.00
PCRF HW/SW FROM 750K TO 1M IP SESSIONS	-	DDN1851	054	\$772,400.00

Spares

The recommended PCRF spare parts package for this system includes one of each of the following:

Description	Full Description	Nomenclature	APC	Price
DUST FILTER UNIT FOR BFD 538	-	DDN1863	054	\$1,010.00
GEP3-24GB NODE MANAGEMENT/APPLICATION LOADER	-	DDN1864	054	\$26,244.00
GEP3-HD600 IO PROCESSOR	-	DDN1865	054	\$31,588.00
PFM LOD POWER AND FAN MODULE	-	DDN1866	054	\$3,502.00
SCXB2 SWITCH BOARD	-	DDN1867	054	\$9,956.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
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QUOTEDS	ERS	DDN1835	SAPC HW/SW 10K IP SESSIONS	054	80
QUOTEDS	ERS	DDN1836	PCRF HW/SW 25K IP SESSIONS	054	80
QUOTEDS	ERS	DDN1838	PCRF HW/SW 100K IP SESSIONS	054	80
QUOTEDS	ERS	DDN1839	PCRF HW/SW 250K IP SESSIONS	054	80
QUOTEDS	ERS	DDN1840	PCRF HW/SW 500K IP SESSIONS	054	80
QUOTEDS	ERS	DDN1841	PCRF HW/SW 1M IP SESSIONS	054	80
QUOTEDS	ERS	DDN1842	PCRF HW/SW FROM 5K TO 10K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1843	PCRF HW/SW FROM 10K TO 25K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1844	PCRF HW/SW FROM 25K TO 50K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1845	PCRF HW/SW FROM 50K TO 100K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1846	PCRF HW/SW FROM 100K TO 150K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1847	PCRF HW/SW FROM 150K TO 250K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1848	PCRF HW/SW FROM 250K TO 350K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1849	PCRF HW/SW FROM 350K TO 500K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1850	PCRF HW/SW FROM 500K TO 750K IP SESSIONS	054	5
QUOTEDS	ERS	DDN1851	PCRF HW/SW FROM 750K TO 1M IP SESSIONS	054	5
QUOTEDS	ERS	DDN1863	DUST FILTER UNIT FOR BFD 538	054	5

QUOTEDS	ERS	DDN1864	GEP3-24GB NODE MANAGEMENT/APPLICATION LOADER	054	5
QUOTEDS	ERS	DDN1865	GEP3-HD600 IO PROCESSOR	054	5
QUOTEDS	ERS	DDN1866	PFM LOD POWER AND FAN MODULE	054	5
QUOTEDS	ERS	DDN1867	SCXB2 SWITCH BOARD	054	5

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[SHIP CARD](#)

Model

**Programming Over P25 (POP25)
for ASTRO® 25 Trunking
Integrated Voice & Data (IV&D) Systems**

Ordering Information

General Information

Motorola's POP25 solution is a feature that is offered on the ASTRO 25 Trunking and Conventional Integrated Voice & Data (IV&D) System. The POP25 feature allows a customer to configure a radio remotely from his/her enterprise network by sending a sequence of commands over-the-air via the ASTRO 25 IV&D system. It is expected that POP25 will significantly reduce the operational costs of IV&D radios by configuring personalities, talkgroups, channels, sites, etc in a radio without physically touching the radio. POP25 can update a radio that is available anywhere within the coverage area of the radio's home system.

System Components:

The POP25 Solution consists of the following components:

1. **ASTRO 25 Integrated Voice & Data (IV&D) System:** The POP25 solution uses the ASTRO 25 IV&D system's data pipe to transport the radio configuration information.
2. **Compatible POP25 XTS & XTL Subscribers:** POP25 will initially be supported on the XTS/XTL 5000 and XTS/XTL 2500. This feature is also supported on the XTS/XTL 1500. The Packet Data and POP25 options must be enabled in the subscriber radio to allow POP25 capability.
3. **CPS:** The latest version of CPS (R09.00.00 or later) must be running on a PC in the customer network. For Conventional systems CPS version R12.00.00 or later is required.
4. **Advanced System Key:** The Advanced System Key is a physical hardware key that grants access to the POP25 feature. It is connected to a parallel port or USB port of the PC running the Customer Programming Software (CPS). The CPS will verify the proper key is attached before every read, write, and clone operation.
5. **ASTRO 25 Presence Notifier Application:** The ASTRO Presence Notifier Application provides the presence, absence, and routing information of two-way portable and mobile subscriber radios to any compatible data applications located in the Customer Enterprise Network (CEN). It interfaces with data applications and subscriber radios using User Datagram Protocol / Internet Protocol (UDP/IP).

Refer to the Presence Notifier Services document for more information which can be [obtained here](#).

Ordering Instructions

These pages will lead you through the necessary ordering steps required to enable POP25 on an ASTRO 25 Trunking IV&D System.

NOTE: The information provided is from a system level. Provided below is the MINIMUM system compatibility requirements. For more product level details, please refer to each of the individual product pages.

ASTRO 25 IV&D System (REQUIRED)

The POP25 feature uses the ASTRO 25 Trunking IV&D system's data pipe to transport the messaging information.

For ASTRO 25 IV&D Systems, a Data Infrastructure is **REQUIRED**, some of components include, but are not limited to the following:

Trunking

Packet Data Gateway (PDG)

Conventional

Radio Network Controller (RNC)

[GSM Gateway Support Node \(GGSN\)](#) [Wireless Network Gateway \(WNG\)](#)

ASTRO 25 Portable and Mobile Subscribers- UPFRONT

The POP25 feature is available on select ASTRO 25 portable two-way and mobile subscriber radios and **MUST** have Customer Programming Software (CPS) and Radio Software Version R09.00.00 or later for trunking IV&D systems and Radio Software Version R12.00.00 or later for Conventional IV&D systems.

STEP 1:

Order the **XTS 5000/2500/1500 Portable Radio(s)**. Click on the links below to be redirected to the XTS 5000/2500/1500 price pages.

- [ASTRO Digital XTS 2500 700/800MHz](#)
- [ASTRO Digital XTS 2500 VHF](#)
- [ASTRO Digital XTS 2500 UHF](#)
- [ASTRO Digital XTS 5000 UHF](#)
- [ASTRO Digital XTS 5000 VHF](#)
- [ASTRO Digital XTS 5000 700/800MHz](#)
- [ASTRO Digital XTS 1500 900MHz](#)

[ASTRO Digital XTS 1500 700/800MHz](#)

[ASTRO Digital XTS 1500 VHF](#)

[ASTRO Digital XTS 1500 UHF](#)

NOTE:

- POP25 is supported on all XTS 5000/2500/1500 models (I / 1.5 / II / III)
- XTS 1500 does not support POP25 capability on Conventional systems
- **REQUIRED** to order ASTRO Digital CAI Operation (Q806), SmartZone Operation (H38)
- **REQUIRED** to order for **XTS 5000** is ASTRO Project 25 Trunking Software Enhancement (Q361)
- **REQUIRED** to order for **XTS 2500/1500** is ASTRO Project 25 Trunking Software (Q574)
- **REQUIRED** to order Packet Data Interface (Q947)
- **REQUIRED** to order POP25 Capability (G996) to enable the POP25 feature
- **REQUIRED** to order encryption for Conventional IV&D systems, not required for Trunking systems.
- ADP encryption is not supported for POP25 operation on conventional systems.

Order the **XTL 5000/2500/1500 Mobile Radio(s)**. Click on the links below to be redirected to the XTL 2500/5000/1500 price pages.

[ASTRO Digital XTL 2500 700/800MHz](#)

[ASTRO Digital XTL 2500 UHF R1 Mid Power](#)

[ASTRO Digital XTL 2500 UHF R2 Mid Power](#)

[ASTRO Digital XTL 2500 VHF Mid Power](#)

[ASTRO Digital XTL 2500 UHF R1 High Power](#)

[ASTRO Digital XTL 2500 VHF High Power](#)

[ASTRO Digital XTL 5000 O5/O3 Control Head Mobiles](#)

[ASTRO Digital XTL 5000 W 3/4/5/7/9 Control Head Mobiles](#)

[ASTRO Digital XTL 1500 700/800MHz](#)

[ASTRO Digital XTL 1500 UHF R1 Mid Power](#)

[ASTRO Digital XTL 1500 UHF R2 Mid Power](#)

[ASTRO Digital XTL 1500 VHF Mid Power](#)

NOTE:

- POP25 is supported on all XTL 5000/2500/1500 models
- XTL 1500 does not support POP25 capability on Conventional systems.
- **REQUIRED** to order for **XTL 5000/2500** is ASTRO Digital CAI Operation (G806); SmartZone Operation (G51), and ASTRO Project 25 Trunking Software Enhancement (G361)
- **REQUIRED** to order for **XTL 5000/2500** Packet Data Interface (Q947)
- **REQUIRED** to order for **XTL 1500** is the 9600 ASTRO DIGITAL ENHANCED package (G964) which includes the Packet Data Interface functionality
- **REQUIRED** to order POP25 Capability (Q996) to enable the POP25 feature
- **REQUIRED** to order encryption for Conventional IV&D systems, not required for Trunking systems.
- ADP encryption is not supported for POP25 operation on conventional systems

ASTRO 25 Portable and Mobile Subscribers - Fielded Upgrades

Requirements for **UPGRADING** an existing mobiles and portables to support POP25

STEP 2:

If adding POP25 to an XTS/XTL 5000/2500 radio that already exists in the field, click on the below links to be redirected to the FLASHport Aftermarket Upgrade price pages.

NOTE:

- The upgrade to add POP25 (G996) is software ONLY.
- The subscriber is required to have ASTRO 25 Trunking IV&D and Packet Data capability. If not, the subscriber needs to be updated to include this functionality.

PORTABLES

- [ASTRO Digital XTS 5000 FLASHport Upgrade](#)
- [ASTRO Digital XTS 2500 FLASHport Upgrade](#)
- [ASTRO Digital XTS 1500 FLASHport Upgrade](#)

MOBILES

- [ASTRO Digital XTL 5000 FLASHport Upgrade](#)
- [ASTRO Digital XTL 2500 FLASHport Upgrade](#)
- [ASTRO Digital XTL 1500 FLASHport Upgrade](#)

Advanced System Key

The Advanced System Key is a physical hardware key that grants access to the POP25 feature. It is connected to a parallel port or USB port of the PC running the Customer Programming Software (CPS). The CPS will verify the proper key is attached before every read, write, and clone operation.

For more information on the Advanced System Key refer to the [following presentation](#).

STEP 3:

Order the Advanced System Key kit using the [ASK price page](#).

ASTRO 25 Presence Notifier Application

The ASTRO Presence Notifier Application provides the presence, absence, and routing information of two-way portable and mobile subscriber radios to any compatible data applications located in the Customer Enterprise Network (CEN).

STEP 4:

Order the Presence Notifier using the [Presence Notifier price page](#).

Manuals

When ordering QUANTAR FLASHport Upgrades use one the following model numbers:

- SQM01SUM0130 Software & Hardware Upgrades
- T6693 Software Only Upgrades

More information on these model numbers can be found in the following eCat Price Pages:

- Main folder: Software Upgrades & FLASHport
- Infrastructure FLASHport Upgrades Folder
- QUANTAR Software & Hardware Upgrade Folder
- [Software Upgrades/FLASHport](#)
- [Software & Hardware Upgrades/FLASHport](#)

For copies of the User Guides and Manuals associated with POP25, visit Motorola Online and download the appropriate documents.

Downloading instructions:

Ø **Go to Motorola Online** <https://motonline.mot.com/Login.aspx>

ü Select Resource Center from the Top Panel

Ø **Click on Resource Center**

Ø Search for a **User Guide and/or Manual from the list:**

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Presence Services

Ordering Information

Product Information

Important: the location services and presence services price pages will be deleted on 10/3/16. location services and presence service client is not cancelled, the location and presence services converged service client bundles are now part of the uns price pages. therefore, when you order the uns, access to the client is included. the client then needs to be downloaded from the googleâ play store. if a windows version of the client is required, order via the window converged services client option on the uns.

Contact Name: Cathal Tierney

Presence Services provides the ability to share user and device presence related information to applications on the network. Presence Service has a server and client component. The presence service client uses the existing status bar that provides a user the ability to set their presence state manually (available and busy) and updates server. It also allows users to report user name or alias, type of device(s) associated with user, device(s) IP address, collaborative device attached, etc to the network

General Deployment Information

OFFERED HARDWARE:

Hewlett-Packard DL380 G9 server running Windows Server 2012 R2 and fully configured by Motorola.

SUPPORTED DEVICES/CLIENTS:

LEX 755: (Jellybean), LEX L10 (Kit Kat), LEX L10i, BYOD/Non-MSI Android devices, MDTs/Laptops: Windows 7.

CAPACITY:

Presence server (HW) supports 1000 updates per second or 10,000 users updating once every 10 seconds (10K devices on presence server with best case of reporting 1000 users/sec). Additional servers should be ordered to support larger capacity requirements (exceed 10K active user requirement).

NOTE: When installing in an agency, additional accessories (firewall and switches) are needed. Please refer to the following Information page: [Agency Configuration](#)

Ordering Information and Requirements

REQUIRED: Hardware

1. **Hardware:** Priority Manager, Location Services and Presence Services share same hardware. Do not purchase/order separate server hardware if your customer already purchased Priority Manager or Location Services. For ordering new hardware please refer to Priority Manager eCAT page: [PRIORITY MANAGER](#).
1. **Server Capacity License:** In order to activate Presence Services on server side, you must purchase licenses for UNS Presence Services. For information on part numbers and price, please refer to the UNS eCAT page:[UNS](#)
1. **Client Licenses:**

NOTE: App Central client will be branded as Converged Services client going forward.

3.1 LEX 755:

The Presence Services client is part of App Central client (App Central client is a software package/bundle of Priority Manager client, Location Services client, Presence Services client, Quick Action Button client and Radio Remote Control client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately).

App Central Client is pre-loaded on LEX 755 Android devices. In order to activate and use Presence Services client, customer needs to order/purchase both client licenses stated below.

Ordering Guide	
LEX 755 Presence Services Client License	Option T8080A must be selected, followed by UA00127AA (0\$) with the required amount of client licenses. Please order T8327A, followed by the needed bundle below.

3.2 LEX L10, LEX L10i:

The Presence Services client is part of Converged Services Client (Converged Services Client is a software package/bundle of Priority Manager client, Location Services client and Presence Services client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately).

In order to activate and use Presence Services client, customer needs to purchase client license under T8327A. Please order T8327A, followed by the needed bundle below.

3.3 Generic/BYOD/Non-MSI Android:

Presence Services client is part of Generic/BYOD Converged Services client available on Google Play Store (Converged Services Client is a software package/bundle of Location Services client and Presence Services client. Each client/functionality is activated based on licensing, and customer needs to purchase each application separately).

In order to activate and use Presence Services client, customer needs to purchase license under T8327A. Please order T8327A, followed by the needed bundle below.

3.4 Windows 7:

App Central client is a post-load application, and in order to use Presence Services client, customer needs to purchase and load App Central Client on MDT/laptop. One software CD will be shipped. (NOTE: App Central Client may already be loaded on MDT/laptop if your customer already uses Priority Manager and/or Location Services. You still need to order/purchase both below licenses to use Presence Services Functionality).

	Ordering Guide
Windows Presence Services Client License	<ul style="list-style-type: none"> Option T8080A must be selected followed by CA02602AA (0\$) with the required amount of client licenses. Please order T8327A, followed by the needed bundle below.

	Ordering Guide
Windows Presence Services Client License	Option T8080A must be selected followed by CA02602AA (0\$) with the required amount of client licenses. Please order T8327A, followed by the needed bundle below.
Ordering Guide	
Windows Presence Services Client License	Option T8080A must be selected followed by CA02602AA (0\$) with the required amount of client licenses. Please order T8327A, followed by the needed bundle below.

Please order T8327A, followed by the needed bundle below..

	Ordering Guide
Add: Presence Services Client - 1 License	Please order T8327A, followed by UA00335AA.
Add: Presence Services Client - 10 License	Please order T8327A, followed by UA00336AA.
Add: Presence Services Client - 100 License	Please order T8327A, followed by UA00337AA.
Add: Presence Services Client - 250 License	Please order T8327A, followed by UA00338AA.
Add: Presence Services Client - 500 License	Please order T8327A, followed by UA00339AA.
Add: Presence Services Client - 1,000 License	Please order T8327A, followed by UA00340AA.
Add: Presence Services Client - 2,000 License	Please order T8327A, followed by UA00341AA.
Add: Presence Services Client - 5,000 License	Please order T8327A, followed by UA00342AA.
Add: Presence Services Client - 7,500 License	Please order T8327A, followed by UA00343AA.
Add: Presence Services Client - 10,000 License	Please order T8327A, followed by UA00344AA.

Add: Presence Services Client - 25,000 License	Please order T8327A, followed by UA00345AA.
Add: Presence Services Client - 50,000 License	Please order T8327A, followed by UA00346AA.
Add: Presence Services Client - 100,000 License	Please order T8327A, followed by UA00347AA

If you have questions, please send email to [Divyesh Oza](#) or [Jay Schaper](#).

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
PRESENCE SERVICES CLIENT LICENSE	-	T8327	063	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00347AA	063	\$1,800,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00342AA	063	\$185,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00344AA	063	\$300,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00343AA	063	\$255,000.00
ADD: PRESENCE SERVICES CLIENT - 1 LICENSE	-	UA00335AA	063	\$53.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00340AA	063	\$43,000.00
ADD: PRESENCE CLIENT LEX 755 LIC	-	UA00127AA	063	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00346AA	063	\$1,100,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00345AA	063	\$650,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00339AA	063	\$22,500.00
ADD: PRE CLIENT WINDOWS LIC	-	CA02602AA	063	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00341AA	063	\$80,000.00

Accessories

FRUs / FREs for Hardware

FRUs for Hardware (HP DL380):

FREs for Hardware (HP DL380):

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0245	Priority Management Super Model	063	60
FIXEDSTN	SCB	T8080	CONVERGED SERVICES/APP CENTRAL CLIENT	063	1
SYSPERIPH	SCB	T8327	PRESENCE SERVICES CLIENT LICENSE	063	30
QUOTEDS	EXL	TT2838	24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2839	48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2846	24 PORT SWITCH BUNDLE - DC PO	055	20
QUOTEDS	EXL	TT2847	48 PORT SWITCH BUNDLE - DC PO	055	20

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0245	Priority Management Super Model	063	60
FIXEDSTN	SCB	T8080	CONVERGED SERVICES/APP CENTRAL CLIENT	063	1
SYSPERIPH	SCB	T8327	PRESENCE SERVICES CLIENT LICENSE	063	30
QUOTEDS	EXL	TT2838	24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2839	48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2846	24 PORT SWITCH BUNDLE - DC PO	055	20

QUOTEDS	EXL	TT2847	48 PORT SWITCH BUNDLE - DC PO	055	20
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JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

PRIORITY MANAGER

Ordering Information

Features

Priority Management, an application function, is an integral part of the QoS (Quality of Service) solution. The solution is designed as an agency level application to prioritize data based on the users roles, agency affiliation and applications. Priorities can also be dynamically elevated for all responders assigned to an incident, via an included Priority Management (aka QoS Web) Portal application or an agency Computer Aided Dispatch (CAD) application.

Priority Management functionality is available in 2 tiers:

- TIER-1 software - Enables QoS management based on Application, Agency and Role.
- TIER-2 software - Enables QoS management based on Incident.

General Deployment Information

OFFERED HARDWARE:

Hewlett-Packard DL380 G9 server running Windows Server 2012 R2. Platform is fully configured by Motorola.

SUPPORTED DEVICES/CLIENTS:

LEX L10 (Android), LEXL10i (Android), MDTs/Laptops: Windows 7/10.

CAPACITY:

Priority Manager Server (HW) supports up to 45,000 provisioned users, of which 60% or 27,000 users can be active. Additional servers should be ordered to support larger capacity requirements (exceed 27K active user requirement).

NOTE: When installing in an agency, additional accessories (firewall and switches) are needed. Please refer to the following Information page: [Agency Configuration](#)

REDUNDANCY:

Priority Manager Server is offered in multiple redundancy options:

- Non-redundant
- Locally Redundant (N+1, where N is the number of servers required for Capacity, and 1

the additional server for Redundancy. N is a minimum of 1).

- Geo-redundant (N+1 at each site, where N is the number of servers required for Capacity, and 1 the additional server for Redundancy. N is a minimum of 1). Geo-Redundant is always offered with Locally Redundant.

Ordering Information and Requirements

Required: Hardware, Tier License, Server Capacity License and Client License

Dependencies:

- Priority Manager requires Intelligent Middleware (IMW 5.x series or later) to operate - this (HW and SW) must be ordered and licensed separately. Specifically, PCM software, Presence, Identity Management and Common Address Book (CAB) services from IMW are used. This must be ordered separately - please see the IMW eCAT page for ordering guidelines: [IMW](#). Only the following items from IMW are required by Priority Manager (please also check with the Priority Manager Product Manager to discuss IMW quantities required and pricing for the software elements):
 - UNS Software (includes PCM, required for Priority Manager configuration)
 - LTE Network Interface Licenses
 - Presence Resource Licenses
 - Identity Manager Resource Licenses (includes CAB)
- Priority Manager uses the OSP (order R11.0 or later) UPM (Unified Provisioning Manager) software for centralized provisioning of users, roles. This must be ordered separately (OSP HW and UPM SW) - please see the Operations Support Platform eCAT page for ordering guidelines: [OSP](#).
- Priority Manager solution uses the QoS (Priority Management) Client software, which is provided as part of the MSI Cockpit (formerly Converged Services) Client available from the Android Playstore and/or the MSI IMW/Enablement team. This must be ordered separately - please see the IMW/Client eCAT pages for ordering guidelines: [IMW](#).

1. New System: Non-Redundant Hardware, Priority Manager Server Licenses (refer to Section 7 for client order):

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245 (Quantity 1), followed by: CA02230AA. (Order a quantity equal to the number of servers required for Capacity).
Priority Manager Server Licenses (Software and Server Capacity), if Tier 1	Select UA00361AA (500) or UA00362AA (1K) or UA00363AA (5K) or UA00364AA (10K) or UA00365AA (25K) or UA00366AA (50K) or UA00367AA (100K)
Priority Manager Server Licenses (Software and Server Capacity), if Tier 1 and Tier 2	Select {UA00361AA and UA00368AA (500)} or {UA00362AA and UA00369AA (1K)} or {UA00363AA and UA00370AA (5K)} or {UA00364AA and UA00371AA (10K)} or {UA00365AA and UA00372AA (25K)} or {UA00366AA and UA00373AA (50K)} or {UA00367AA and UA00374AA (100K)}

2. New System: Locally Redundant Hardware, Priority Manager Server Licenses (refer to Section 7 for client ordering) - only one Local Redundancy SW license needs to be purchased per Priority Manager system:

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245B (Quantity 1) followed by: CA02230AB (Order a quantity equal to the number of servers required for capacity, and 1 additional, for Redundancy.)
Priority Manager Server Licenses (Redundancy, Software and Server Capacity), if Tier 1	Select UA00375AA (Local Redundancy Tier 1 SW License); Select UA00361AA (500) or UA00362AA (1K) or UA00363AA (5K) or UA00364AA (10K) or UA00365AA (25K) or UA00366AA (50K) or UA00367AA (100K)
Priority Manager Server Licenses (Redundancy, Software and Server Capacity), if Tier 1 and Tier 2	Select UA00375AA and UA00376AA (Local Redundancy Tier 1 and Tier 2 SW Licenses); Select UA00361AA and UA00368AA (500)} or {UA00362AA and UA00369AA (1K)} or {UA00363AA and UA00370AA (5K)} or {UA00364AA and UA00371AA (10K)} or {UA00365AA and UA00372AA (25K)} or {UA00366AA and UA00373AA (50K)} or {UA00367AA and UA00374AA (100K)}

3. New System: Geo-Redundant Hardware, Priority Manager Server Licenses (refer to Section 7 for client ordering) - only one Geo-Redundancy SW license needs to be purchased per Priority Manager system):

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245B (quantity 1) followed by: CA02230AB. (Per site, order a quantity equal to the number of servers required for capacity, and 1 additional, for Redundancy).
Priority Manager Server Licenses (Redundancy, Software and Server Capacity), if Tier 1	Select UA00375AA and UA00377AA (Local and Geo-redundancy Tier 1 SW licenses); Select UA00361AA (500) or UA00362AA (1K) or UA00363AA (5K) or UA00364AA (10K) or UA00365AA (25K) or UA00366AA (50K) or UA00367AA (100K)

Priority Manager Server Licenses (Redundancy, Software and Server Capacity), if Tier 1 and Tier 2	Select UA00375AA and UA00376AA and UA00377AA and UA00378AA (Local and Geo-redundancy Tier 1 and Tier 2 SW licenses); Select {UA00361AA and UA00368AA (500)} or {UA00362AA and UA00369AA (1K)} or {UA00363AA and UA00370AA (5K)} or {UA00364AA and UA00371AA (10K)} or {UA00365AA and UA00372AA (25K)} or {UA00366AA and UA00373AA (50K)} or {UA00367AA and UA00374AA (100K)}
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4. Upgrade: Non-Redundant to Locally Redundant Hardware, Priority Manager Server Licenses (refer to Section 7 for client ordering):

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245B (Quantity 1) followed by: CA02230AB. (Order a minimum of 1 for redundancy).
Priority Manager Server Licenses (Redundancy, Software), if Tier 1 and Tier 2	Select UA00375AA (Local Redundancy Tier 1 SW license)
Priority Manager Server Licenses (Redundancy, Software), if Tier 1 and Tier 2	Select UA00375AA and UA00376AA (Local Redundancy Tier 1 and Tier 2 SW licenses)

Refer to Section 8 if also upgrading from Tier 1 to Tier 2 and/or if adding additional server capacity.

5. Upgrade: Locally Redundant to Geo-Redundant, Priority Manager Server Licenses (refer to Section 7 for client ordering):

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245B (Quantity 1) followed by: CA02230AB. (Order a quantity equal to the number of servers required for capacity, and 1 additional, for Redundancy.)
Priority Manager Server Licenses (Redundancy, Software), if Tier 1 and Tier 2	Select UA00377AA (Geo-Redundancy Tier 1 SW License)
Priority Manager Server Licenses (Redundancy, Software), if Tier 1 and Tier 2	Select UA00377AA and UA00378AA (Geo-redundancy Tier 1 and Tier 2 SW Licenses)

6. Upgrade: Non-Redundant to Geo-Redundant, Priority Manager Server Software and Server Capacity (refer to Section 7 for client ordering):

	Ordering Guide
Hardware and Software Kit	Select SQM01SUM0245B (Quantity 1) followed by: CA02230AB. (For Primary site, order a minimum of 1 additional for Redundancy. For Geo-Redundant site, order a quantity equal to the number of servers required for capacity, and 1 additional, for Redundancy)
Priority Manager Server Licenses (Redundancy Software), If Tier 1	Select UA00375AA and UA00377AA (Local- and Geo-Redundancy Tier 1 SW Licenses).
Priority Manager Server Licenses (Redundancy Software), If Tier 1 and Tier 2	Select UA00375AA and UA00376AA and UA00377AA and UA00378AA (Local- and Geo-Redundancy Tier 1 and Tier 2 SW Licenses).

Refer to Section 8 if also upgrading from Tier 1 to Tier 2 and/or if adding additional server capacity.

7. Client License:

NOTE: Priority Manager Client is offered as part of Converged Services (aka PSX) client, going forward.

a. LEX L10, LEXL10i: The Priority Manager client is part of the PSX Cockpit Client. PSX Cockpit Client is a software package/bundle of Priority Manager client, and other Intelligent Middleware capabilities such as Location, Presence, Identity Management, etc.

For Android devices, the PSX Cockpit client can be downloaded from the Google Play Store available on the device. No additional licensing or purchase is needed.

b. Windows 7/10: The Priority Manager client is part of the Converged Services Client (a software package/bundle of Priority Manager client, and other Intelligent Middleware capabilities). The Converged Services Client is a post-load application and, in order to use Priority Manager client, the customer needs to order and license the Converged Services Client on MDT/laptop -- this is available to order through the Intelligent Middleware (IMW) solution (order part number CA03184AA). One software CD will be shipped.

	Ordering Guide
Windows Priority Manager Client License	Order through the Intelligent Middleware (IMW) solution (order part number CA03184AA. A CD will be shipped.

8. Priority Manager Software Release Upgrade

Please order T8412A for Priority Manager R9 to R11.3 Upgrade Software Kit. This includes license SW for VMWare 6 (PrM R9 was on VMWare 5.x, and 6 must be repurchased), the RHEL license upgrade from 1-pack to 4-pack (for supporting multiple VM's on the same server), as well as the full PrM Application Release Software for a scratch install.

	Ordering Guide
Priority Manager R9 to R11 Upgrade Kit	Please order T8412A

Please order T8522 for Priority Manager R11.x to R11.3 Upgrade Software Kit. This includes the PrM "patch release" Application Software for an upgrade.

	Ordering Guide
Priority Manager R11.x to R11.3 Upgrade Kit	Please order T8522A

9. Priority Manager Server Software Tier Upgrades and Server Capacity Expansions:

	Ordering Guide
Priority Manager Tier 1 with 500 Capacity	Please order T7884A, followed by UA00200AA
Priority Manager Tier 1 with 1000 Capacity	Please order T7884A, followed by UA00025AA
Priority Manager Tier 1 with 5000 Capacity	Please order T7884A, followed by UA00026AA
Priority Manager Tier 1 with 10,000 Capacity	Please order T7884A, followed by UA00027AA
Priority Manager Tier 1 with 25,000 Capacity	Please order T7884A, followed by UA00028AA
Priority Manager Tier 1 with 50,000 Capacity	Please order T7884A, followed by UA00029AA
Priority Manager Tier 1 with 100,000 Capacity	Please order T7884A, followed by UA00201AA
Priority Manager Tier 2 with 500 Capacity	Please order T7884A, followed by UA00202AA
Priority Manager Tier 2 with 1000 Capacity	Please order T7884A, followed by UA00030AA

Priority Manager Tier 2 with 5000 Capacity	Please order T7884A, followed by UA00031AA
Priority Manager Tier 2 with 10,000 Capacity	Please order T7884A, followed by UA00032AA
Priority Manager Tier 2 with 25,000 Capacity	Please order T7884A, followed by UA00033AA
Priority Manager Tier 2 with 50,000 Capacity	Please order T7884A, followed by UA00034AA
Priority Manager Tier 2 with 100,000 Capacity	Please order T7884A, followed by UA00203AA

10. Accessories (please also refer to the eCAT page [Agency Configuration](#) .

SWITCHES (required) - Ordering Guide:

- For a Non-Redundant IP Transport configuration (Transport Redundancy not required) for Priority Manager, 1 Northbound switch and 1 Southbound switch are needed at each site).
 - For Geo-Redundant deployments, double this quantity (2N, 2S)
- For Transport Redundancy at a site, double this quantity (2 Northbound, 2 Southbound).
 - For Geo-Redundant deployments, double this quantity (4N, 4S)
- Depending on traffic and throughput requirements, you can choose either the 24-port switch, 48-port switch (higher throughput), or a combination.
- Depending on power connection requirements, you can choose AC power or DC power options. Generally, AC is used unless there are specific requirements for a DC-based data center (many large data centers use all DC, as it will save power/heat dissipation in the long run, but requires a large up-front cost for the DC power plant).

	Ordering Options
Extreme 24 Port Switch Bundle - AC Power (HW and Core Licenses)	Please order TT2838
Extreme 24 Port Switch Bundle - AC Power (HW and Core Licenses)	Please order TT2839
Extreme 24 Port Switch Bundle - DC Power (HW and Core Licenses)	Please order TT2846
Extreme 24 Port Switch Bundle - DC Power (HW and Core Licenses)	Please order TT2847

TERMINAL SERVER (OPTIONAL) - Ordering Guide:

- An optional Terminal Server is recommended to allow remote access to the serial ports of the switches, allowing remote setup/change of the switch configuration and routing.

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	Ordering Options
LX4000T - 8-port terminal server	Please order TT2022

If you have questions, please send email to [Ajit Rudran](#).

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
Priority Management Super Model	-	SQM01SUM0245	063	\$0.00
PM User License Intervals	-	T7884	063	\$0.00
PM R9 TO R11 SOFTWARE UPGRADE KIT	-	T8412	063	\$2,780.00
PM R11.X TO R11.3 SOFTWARE UPGRADE KIT	-	T8522	063	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PM SINGLE SERVER OPTION	-	CA02230AB	063	\$28,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 500 CAPACITY	-	UA00361AA	063	\$158,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 1000 CAPACITY	-	UA00362AA	063	\$174,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 5000 CAPACITY	-	UA00363AA	063	\$254,000.00
ADD: PRIORITY MANAGER TIER 1 WITH	-	UA00364AA	063	\$314,000.00

10,000 CAPACITY				
ADD: PRIORITY MANAGER TIER 1 WITH 25,000 CAPACITY	-	UA00365AA	063	\$506,800.00
ADD: PRIORITY MANAGER TIER 1 WITH 50,000 CAPACITY	-	UA00366AA	063	\$784,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00367AA	063	\$1,297,800.00
ADD: PRIORITY MANAGER TIER 2 WITH 500 CAPACITY	-	UA00368AA	063	\$79,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 1000 CAPACITY	-	UA00369AA	063	\$87,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 5000 CAPACITY	-	UA00370AA	063	\$127,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 10,000 CAPACITY	-	UA00371AA	063	\$157,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 25,000 CAPACITY	-	UA00372AA	063	\$253,400.00
ADD: PRIORITY MANAGER TIER 2 WITH 50,000 CAPACITY	-	UA00373AA	063	\$392,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00374AA	063	\$649,000.00
ADD: PRIORITY MANAGER TIER 1 LOCAL REDUNDANCY	-	UA00375AA	063	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 LOCAL REDUNDANCY	-	UA00376AA	063	\$15,000.00
ADD: PRIORITY MANAGER TIER 1 GEO-REDUNDANCY	-	UA00377AA	063	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 GEO-REDUNDANCY	-	UA00378AA	063	\$15,000.00

ADD: PRIORITY MGMT TIER-1 USER LICENSES 500	-	UA00200AA	063	\$17,600.00
ADD: Priority Mgmt Tier-1 User Licenses 1K	-	UA00025AA	063	\$25,920.00
ADD: Priority Mgmt Tier-1 User Licenses 5K	-	UA00026AA	063	\$123,200.00
ADD: Priority Mgmt Tier-1 User Licenses 10K	-	UA00027AA	063	\$189,200.00
ADD: Priority Mgmt Tier-1 User Licenses 25K (5 x 5K Packs)	-	UA00028AA	063	\$401,280.00
ADD: Priority Mgmt Tier-1 User Licenses 50K (10 x 5K Packs)	-	UA00029AA	063	\$706,310.00
ADD: Priority Mgmt Tier-1 User Licenses 100K (20 x 5K Packs)	-	UA00201AA	063	\$1,271,380.00
ADD: PRIORITY MGMT TIER-2 USER LICENSES 500	-	UA00202AA	063	\$8,800.00
ADD: Priority Mgmt Tier-2 User Licenses 1K	-	UA00030AA	063	\$17,600.00
ADD: Priority Mgmt Tier-2 User Licenses 5K	-	UA00031AA	063	\$61,600.00
ADD: Priority Mgmt Tier-2 User Licenses 10K	-	UA00032AA	063	\$94,600.00
ADD: Priority Mgmt Tier-2 User Licenses 25K (5 x 5K Packs)	-	UA00033AA	063	\$200,640.00
ADD: Priority Mgmt Tier-2 User Licenses 50K (5 x 10K Packs)	-	UA00034AA	063	\$353,210.00
ADD: Priority Mgmt Tier-2 User Licenses 100K (10 x 10K Packs)	Accessories	UA00203AA	063	\$635,800.00

Accessories

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Description	Full Description	Nomenclature	APC	Price
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	055	\$9,470.00
48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	055	\$11,460.00
24 PORT SWITCH BUNDLE - DC PO	-	TT2846	055	\$7,380.00
48 PORT SWITCH BUNDLE - DC PO	FRUs / FREs for Hardware	TT2847	055	\$9,360.00

FRUs / FREs for Hardware

FRUs for Hardware (HP DL380):

Description	Full Description	Nomenclature	APC	Price
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	056	\$1,414.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00

FREs for Hardware (HP DL380):

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC NO DISK	High Capacity UNC server	DLN6974	877	\$23,405.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
CNTLPATH	SCB	DLN6971	FRU: DL380 G9 DVD DRIVE	454	11
CNTLPATH	SCB	DLN6972	FRU: DL380 G9 POWER SUPPLY	454	15
CNTLPATH	SCB	DLN6974	FRE: DL380 G9 HC NO DISK	877	45
CNTLPATH	SCB	DLN6983	FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	056	11
FIXEDSTN	SCB	SQM01SUM0245	Priority Management Super Model	063	60
FIXEDSTN	SCB	T7884	PM User License Intervals	063	60
FIXEDSTN	SCB	T8412	PM R9 TO R11 SOFTWARE UPGRADE KIT	063	40
FIXEDSTN	SCB	T8522	PM R11.X TO R11.3 SOFTWARE UPGRADE KIT	063	50
QUOTEDS	SHK	TT2022	MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	708	20
QUOTEDS	EXL	TT2838	24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2839	48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	055	20
QUOTEDS	EXL	TT2846	24 PORT SWITCH BUNDLE - DC PO	055	20
QUOTEDS	EXL	TT2847	48 PORT SWITCH BUNDLE - DC PO	055	20

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

Private Broadband Networks

Ordering Information

General Information

The Private Broadband products were the first Ethernet over copper repeaters. These products are unique in their in line power wall plates and power over Ethernet over copper products. There are four major product lines in this portfolio which are the XLT-400, XLP6800, T2 PowerBroadband system, and the XL1010M. The XLT-400 products are used for extending Ethernet LANs and Intelligent Transportation systems. The XLP6800 PowerBroadband System is used for powering remote IP surveillance cameras. The T2 PowerBroadband System is used in hospitality markets such as Hospitals, Hotels, Apartments. The XL1010M Ethernet bridge is used for connecting remote users for campus, corporate, government environments.

The XLT400 family of Ethernet over copper switches provide up to 75MBps of broadband over two telephone grade copper wire pairs, providing an extremely cost effective alternative or compliment to fiber networks. The powerful features and flexible installation, XLT products can be a key network enabling controllers, video cameras, wireless access points and other devices for Intelligent Transportation Systems network and extended industrial campus networks. . XLT-400 units can be managed with advanced enterprise network management features such as RADIUS network authentication, user selectable alerts, 0and SNMPv2c.

The T2 Powerbroadband network is a 25 port T2a Ethernet XD switch that provides the innovative features required for successful next generation in room services. The Ethernet XD CPEs are available in three configuration with 2 or 4 Ethernet ports, plus choice of installation bracket. The wall plates can convert any RJ11 jack into Ethernet. The wall plate and the switch is ROHS compliant.

Motorola has added a new wireless wall plate and new switch to the Private Broadband Portfolio. this new solution is clded the T3 Powerbroadband solution. This solution enables every fourth room to be wireless. this new solution also ill give the customers a 80% installation savings.

Features

Key XLT-400 Extended Ethernet Switch Features

- Flexible Topologies
- High performance using a minimum number of copper pairs., XLT-400 allows a flexible adaptable network topology
- 75MBPS Symmetrical
- Superior signal/noise isolation enables fiber- like speed and performance over copper wire

- Automatic rate adaptation to 10,000 Feet (3,000m)
- Fiber Like Network
- Monitor critical data links and manage each link for maximum availability
- Easily add/move/ change to any location over existing or newly pulled telephone grade or data grade wires
- High Performance Ethernet over Copper
- Deploy new applications over existing cable such as Muni WiFi and Vehicle Detection, and Traffic Controller

Key XLP-6800 PowerBroadband System Features

- Automatic rate adaptation to 10,000 feet (3000m)
- Same speed as the XL-400
- This product's switch includes power over Ethernet

Key T2 PowerBroadband System Features

- Line powered, high speed network, designed for hospitality. No power supply to lose or unplug
- Predictable installation routine to minimize service interruption
- Up to 75MBPs bit rate supports new revenue generating services
- Adaptive Line Power (ALP)- this feature powers each wall plate up to 2000 feet over the same wire pair as analog telephone service
- Intuitive web UI provides at a glance status of every port and every line
- SNMPv2c support which easily integrates management of the T2 into any network management framework
- Distributed VLANS and intelligent QoS allow the service provider to manage service levels and guarantee security
- New feature to speed channel change performance as low as 50msec channel changing in the network

Key T3 PowerBroadband System Features

- Wireless Wall plates
- Reduced Installation cost
- Seamless design
- Mobility Duo software
- Continuous RF Monitoring
- Self healing configurations
- Enterprise Class Features

Key XL1010M Ethernet Bridge Features

- The maximum speed for its SHDSL bridge is 9.2 Mbps
- The maximum distance is 27,000 feet
- Easy to configure
- Extended Ethernet based applications such as remote users, Wi-Fi backbone, Surveillance and security, Interconnect LANs
- Point to point Ethernet connections

Ordering Requirements

XLT-400 Series

The XLT-400 series includes a 1 port, 2 port or 4 port version for multiple configuration options.

When specifying the XLT-400 product for a customer, keep in mind there are three different units for three types of configurations.

Part numbers	Used with	Applications
42211	1 Twisted pair copper port as an end point	For point to point connections or
42212	2 Twisted pair copper ports	For daisy chaining devices
42214	4 Twisted pair copper ports up to three other XLT devices	To be used as a star connecting

XLT-400 products are designed to work over two pair of twisted pair copper. If in the rare case there is only one pair of copper wire available the XL68a (model #42202) two pair to one pair converter can be used. If used the available line rate (bandwidth available with two pair will be reduced by half. **

T2 PowerBroadband

Here are the most common hotel configurations using this product line.

A typical hotel installation for 25 guest rooms

Qty	Description	Part number
1	25 port T2 switches (25 ports cover 25 guest rooms	45125
25	T2 port wall plates (1 for each guest room)	45101
TBD	Filters (one for every additional phone in the guest room)	

A typical hotel installation for a 500 room hotel with two phones in each room would require

Qty	Description	Part number
20	T2 switches	45125
500	T2 2port wall plates	45101
500	Filters	
	<ul style="list-style-type: none"> • use terminated filters for desk phones • use unterminated filters for wall phones 	65603 65602

Configuration

Models

	Full			
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Description	Description	Nomenclature	APC	Price
IN-LINE FILTER WITH RJ-11 CONNECTOR.	-	65603	963	\$15.00
IN-LINE FILTER FOR "IN WALL" INSTALLATION	-	65602	963	\$15.00
T3 WIRELESS WALL PLATE	-	45010	963	\$495.00
T3 POWERBROADBAND SWITCH	-	45225	963	\$3,295.00
XLP-6824 MASTER UNIT FOR POWERBROADBAND POE. 4 UTP PORTS.	-	43114	963	\$3,995.00
XLT-401 BROADBAND SWITCH 4 10/100 PORTS, 1 UTP PORT	-	42211	963	\$2,195.00
XL68A 2-WIRE ADAPTER OPTION FOR XLP-6824 AND ALL XLT-400 SERIES SWITCH	-	42202	963	\$79.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
RADIUS	MWR	42202	XL68A 2-WIRE ADAPTER OPTION FOR XLP-6824 AND ALL XLT-400 SERIES SWITCH	963	10
RADIUS	MWR	42211	XLT-401 BROADBAND SWITCH 4 10/100 PORTS, 1 UTP PORT	963	10
RADIUS	MWR	43114	XLP-6824 MASTER UNIT FOR POWERBROADBAND POE. 4 UTP PORTS.	963	10
RADIUS	CDP	45010	T3 WIRELESS WALL PLATE	963	10

RADIUS	CDP	45225	T3 POWERBROADBAND SWITCH	963	40
RADIUS	MWR	65602	IN-LINE FILTER FOR "IN WALL" INSTALLATION	963	10
RADIUS	MWR	65603	IN-LINE FILTER WITH RJ-11 CONNECTOR.	963	20

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

Model

Professional & Commercial Radio Product Information

Ordering Information

General Information

For PCR Product Information, Including Ordering Guides Please Visit MOL:

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

**PSC 9600 Site Controller for
ASTRO® 25® Digital Trunking Solutions**

Ordering Information

Features

The **PSC 9600** is only supported in a redundant configuration. The redundant or standby PSC 9600 communicates with the active PSC 9600, at regular short intervals, to detect any failures in either PSC. If the active PSC should fail, the redundant PSC will maintain all current functionality and state information to maintain continuous operation of the site.

The PSC 9600 reports the status of the link with which it communicates to the Zone Controller. It also manages the site's states (wide area trunking, site trunking... etc), manages call control functionality in both wide area and site trunking.

General Information

The PSC 9600 is designed for use in ASTRO 25 sites, in conjunction with the ASTRO 25 Site Repeater. Two PSC 9600s are required for all ASTRO 25 sites to provide site level control and resource management redundancy. The two PSC 9600s will support up to 28 Site Repeaters at a site.

- The PSC 9600 supports ASTRO 25 operation only.
- All models must be installed using Motorola R-56 Site Install Standards to comply with Warranty requirements. The R-56 standard is available on CD-Rom - Part Number 9882904X01.

Ordering Requirements

1. Only the T6391 upgrade model is available. Add the appropriate quantities of option CA00276AA for the number of PSCs being refreshed.
2. As a separate line item, the 3084225N24 cable can be ordered as a spare.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 TRUNKING SOFTWARE	-	T6931	537	\$0.00

Options

Software Field Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: PSC 9600 SOFTWARE UPGRADE	Purchased a subitem to T6931, the desired quantity should reflect the number of fielded PSC 9600s requiring an upgrade. Example, if there are 300 fielded PSC 9600 controllers, please order a quantity of 300 of CA00276AA.	CA00276AA	537	\$500.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CBL W/MODE PLUG 8 COND	One cable MUST be ordered for each pair of PSC 9600s.	3084225N24	207	\$11.00

Manual(s)

Description	Full Description	Nomenclature	APC	Price
PSC 9600 SERVICE MANUAL	-	6881132E22	537	\$99.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	3084225N24	CBL W/MODE PLUG 8 COND	207	5

FIXEDSTN	SCB	6881132E22	PSC 9600 SERVICE MANUAL	537	10
FIXEDSTN	SCB	T6931	ASTRO 25 TRUNKING SOFTWARE	537	13

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Point to Point Wireless Ethernet Bridges

Ordering Information

General Information

Motorola Point-to-Point (PTP) Wireless Ethernet Bridges make it easy to extend your network wirelessly.

Our high performance, cost-effective bridges make reaching the out-of-reach easier than ever. Operating in a variety of frequencies, these solutions provide reliable connectivity in even the most challenging of situations.

Features and Benefits

PTP Unlicensed Backhauls: PTP 550, 670

PTP 550 Point-to-Point Gigabit+ Capacity

Provides up to 1.36 Gbps throughput with ARQ and asymmetric non-contiguous channel aggregation across 5 GHz band.

- Frequencies: 5.15 GHz to 5.96 GHz
- Throughput: up to 1.36Gbps
- Latency: 2.2-6ms
- Asymmetric Non-Contiguous Channel Aggregation: 5 GHz spectrum
- Industry Standards: FCC Approved

PTP 670 Cambium Networks combines best-in-class spectral efficiency and reliability with high-capacity multipoint (HCMP) deployment flexibility. With up to 450 Mbps aggregate throughput, PTP 670 systems let you flexibly, reliably and securely handle today's needs.

- Frequencies: 4.9 GHz to 6.05 GHz
- Throughput: up to 450Mbps
- Latency: 1-3ms
- Flexible Channel Width: 5, 10, 15, 20, 30, 40, and 45 MHz channels
- Reliability: Dynamic Spectrum Optimization
- Industry Standards: FIPS 197, 1588v2, IPv6, IP66/67

Refer to the following website for Spec Sheets, Brochures, etc; <http://www.cambiumnetworks.com/>

PTP 820 - Licensed Ethernet microwave for multi-service networks

PTP 820 is a point-to-point licensed microwave backhaul platform that integrates leading networking functionality with the industry's most advanced microwave technologies, creating a superior transport solution.

Supporting licensed frequency bands ranging from 6 to 42 GHz, the PTP 820 series delivers a wide range of configurations to offer a tailored solution for any deployment scenario. High-density multi-technology nodes and integrated radio units enable flexibility in choosing split-mount and all-outdoor configuration options. Implementing unique Line of Sight (LOS) and Multiple Input Multiple Output (MIMO) technologies, and modulation across bandwidths above 2048QAM, ensures Industry-leading throughput and spectral efficiency.

- Frequencies: Licensed frequency bands 6-38 GHz
- Capacity: Multi-gigabits radio capacity with high spectral efficiency
- Adaptive Coding and Modulation (ACM): Up to 2048 QAM, with 11-step hitless and errorless ACM
- Bandwidth Supported: Up to 80 MHz channel width
- Integrated Synchronization: Integrated synchronization solution: SyncE/IEEE 1588v2

PTP 820S - PTP 820S is an all-outdoor point-to-point licensed microwave unit.

PTP 820C - PTP 820C is an all-outdoor, multi-core unit. The PTP 820C has dual-core functionality enabling the system to operate up to 2 Gbps via software upgrades, eliminating the need for future forklift upgrades, or major system overhaul by the network operator to deliver gigabit-plus capacity.

PTP 820G - PTP 820G is a split-Mount / All-Indoor unit, with Multi-Carrier Options

Refer to the following website for Spec Sheets, Brochures, etc; <http://www.cambiumnetworks.com/>

Ordering Requirements

Definitions:

How to determine which radios are needed:

-To determine which frequency or type of radio you would need, please refer to the [PTP LINKPlanner Tool](#)

This tool will allow you to enter in your coordinates, distance, etc. and the tool will tell you what your availability of the radios would be, your throughput, etc.

-Integrated: The PTP link or spare will have a internal antenna built inside of the radio.

-Connectorized: The PTP link or spare will need to have an external antenna used and purchased with this link or radio.

-Link: includes; 2 radios, 2 power supplies, and 2 mounting brackets.

-Spare: includes; 1 radio, 1 power supply, 1 mounting bracket.

-It is highly recommended that a Lightning Protection Unit (LPU) is used with these radios to prevent lightning damage. 1 LPU is needed for the top of the tower, and 1 LPU is needed at the base of the tower (PTP500 only needs 1 LPU since it has a surge protection built in the radio).

-Other other items are considered optional, ie; software, warranty, and other misc. accessories.

Configuration

Cambium Networks Models

Please refer to Cambium Networks web site for details on PTP radios: <http://www.cambiumnetworks.com/>

PTP 820 Licensed Microwave Backhaul:

PTP 820 is a point-to-point licensed microwave backhaul platform that integrates networking functionality with the microwave technology

CMU (Compact Modem Unit): For use with all PTP 820 Frequencies below. 2 CMU's are needed with 2 ODU's (1 Low and 1 High), accessories, and antennas to make a complete link.

Description	Full Description	Nomenclature	APC	Price
PTP 800 CMU / PTP-SYNC 19INCH RACK MOUNT INSTALLATION KIT	-	DSWB3486H	908	\$99.00
PTP800 MODEM 1000/100BASET WITH CAPACITY CAP 10 MBPS	-	DSWB3480HH	908	\$2,650.00

6GHz:

7GHz:

8GHz:

11GHz:

15GHz:

18GHz:

PTP820S

PTP 820S is an all-outdoor point-to-point licensed microwave unit.

11GHz:

PTP820S

PTP 820S is an all-outdoor point-to-point licensed microwave unit.

18GHz:

PTP820S

PTP 820S is an all-outdoor point-to-point licensed microwave unit.

23GHz:

Description	Full Description	Nomenclature	APC	Price
ODU-B 23GHZ, TR1200, LO, B5 ((22800.0 - 23200.0 MHZ), RECTANGULAR WG,	-	DS85009319004	908	\$3,398.00

PTP820C

PTP 820C is an all-outdoor, multi-core unit.

The PTP 820C has dual-core functionality enabling the system to operate up to 2 Gbps via software upgrades, eliminating the need for future forklift upgrades, or major system overhaul by the network operator to deliver gigabit-plus capacity.

11GHz

Additional Accessories

PTP Accessories

Lightening Protection Unit (LPU)

Description	Full Description	Nomenclature	APC	Price
TRIMBLE ACUTIME GPS / ADAPTER CABLE KIT	-	DSWB4141HH	907	\$917.00
PTP300/500/600 PIDU WITH US LEAD	-	DSWB3025H	907	\$436.00
LPU END KIT PTP 250/300/500 (2 KITS REQUIRED PER LINK)	-	DSWB2978H	907	\$198.00
PTP 300/500 SERIES E1/T1 SPLITTER (PER END)	-	DSWB3476H	907	\$68.00
PTP-SYNC, COMPLETE PACKED UNIT	-	DSWB3665HH	907	\$462.00
LPU END KIT PTP 600 (2 KITS REQUIRED PER LINK)	-	DSWB2907H	907	\$528.00

PTP-SYNC TRIMBLE ADAPTER CABLE	-	DSWB3961H	907	\$131.00
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Accessories

Description	Full Description	Nomenclature	APC	Price
TAPERED TRANSITION, WR75 - WR90, PBR120, UDR100	-	DS58010077001	908	\$464.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB1811B	907	\$158.00
PTP600 SERIES MULTI-MODE OPTICAL CONVERSION KIT (PER END)	-	DSWB2312H	907	\$726.00
PTP 300/500/600 SERIES BLANKING PLUG PACK (QTY 10)	-	DSHDW-2358H	907	\$66.00
TYCO/AMP CRIMP TOOL	-	DSWB3211A	907	\$390.00
GROUNDING LUG KIT	-	DSWB1812	907	\$71.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB2289A	907	\$119.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$191.00

PTP Unlicensed Software License Keys

Description	Full Description	Nomenclature	APC	Price
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - END	-	DSWB3608	907	\$908.00
PTP 300 SERIES TO PTP500 LITE UPGRADE KEY - LINK	-	DSWB3584	907	\$2,904.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - LINK	-	DSWB3585	907	\$6,776.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ LINK	-	DSWB3262	907	\$3,630.00

PTP 49600 SOFTWARE KEY X -20 MHZ END ONLY	-	DSWB3268	907	\$3,993.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - END ONLY	-	DSWB2402A	907	\$1,452.00
PTP 49600 SOFTWARE KEY X -20 MHZ LINK	-	DSWB3263	907	\$7,260.00
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - LINK	-	DSWB3607	907	\$1,815.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ END ONLY	-	DSWB3267	907	\$1,997.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - LINK	-	DSWB2519A	908	\$2,903.00
PTP600 SERIES FIPS INCLUDING 256BIT AES - LINK	-	DSWB3413	907	\$6,050.00
PTP600 SERIES UC-APL INCLUDING 256BIT AES AND FIPS - LINK	-	DSWB4149	907	\$7,865.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - END	-	DSWB3881	907	\$3,727.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - END ONLY	-	DSWB2607A	907	\$2,118.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - LINK	-	DSWB2511A	908	\$4,235.00

Antennas

Description	Full Description	Nomenclature	APC	Price
4.4-5.0 GHZ, 2-FT (0.6M), H-POL & V-POL, WITH FINE ADJUSTMENTS	-	DSRDH4499A	907	\$2,376.00
3-FT. (0.9M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4500A	907	\$3,696.00

4-FT. (1.2M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4501A	907	\$4,686.00
6-FT. (1.8M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4502A	907	\$6,336.00
2FT,5.25-5.85GHZ W/FINE ADJ,DUAL POLE	-	DSRDH4503B	907	\$1,353.00
2-FT.(0.6M), HIGH PERFORMANCE DUAL	-	DSRDH4508B	907	\$1,551.00
6-FT. (1.8M), 5.25-5.85 GHZ. DUAL-POL, H-POL & V-POL.	-	DSRDH4506B	907	\$4,217.00
5.25-5.85 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	-	DSRDH4509B	907	\$2,779.00
4-FT.(1.2M), HIGH PERFORMANCE DUAL-POL, 5.25 - 5.85 GHZ	-	DSRDH4510B	907	\$4,838.00
HPD6-4.7 6-FT.(1.8M), HP, 4.5-5.0GH	-	DSRDH4515A	907	\$13,134.00
HPD3-4.7 3-FT.(0.9M), HP, 4.5-5.0GH	-	DSRDH4517A	907	\$4,422.00
HPD2-4.7 2-FT.(0.6M), HP, 4.5 -5.0G	-	DSRDH4518A	907	\$2,706.00
HP4 - 4FT SP ANTENNA, 5.725 - 6.425	-	DS85009328001	908	\$6,349.00
ANTENNA SYSTEM, PAR6 - 6FT SP ANTENNA, 5.925 - 7.125 GHZ WITH RADOME,	-	DS85009294001	908	\$5,029.00
PAR6 - 6FT SP ANTENNA, 10.7 -11.7 GHZ WITH RADOME, SINGLE POL	-	DS85009294005	908	\$5,029.00
HP4 - 4FT SP ANTENNA, 10.7- 11.7 GHZ WITH RADOME, SINGLE	-	DS85009301001	908	\$6,124.00
4FT HP ANTENNA, 7.125 - 8.5 GHZ, SINGLE POL, MOT INTERFACE	-	DS85010089051	908	\$6,050.00
2-FT (0.6M), MOLDED RADOME, UV INHIBITED	-	DSRRDN7140B	907	\$515.00

PTP Accessories:

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Description	Full Description	Nomenclature	APC	Price
WR75 FLEX TWIST HANGER KIT,11-13GHZ	-	DS07010118003	908	\$68.00
PRESSURE WINDOW FOR WR90, 8.2-12.4 GHZ, MATES TO CPR90G	-	DS58009283002	908	\$152.00
CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	908	\$34.00
MAINS LEAD- EU WITH DUAL EARTH TO C5 (PTP800 AC-DC PSU)	-	DSWB3620A	908	\$13.00
1000 FT REEL OUTDOOR COPPER CLAD CAT5E	-	DSWB3175A	907	\$1,782.00
AC-DC POWER SUPPLY CONVERTOR (NO LEAD CABLE INCLUDED)	-	DSWB3622A	908	\$264.00
COAXIAL CABLE INSTALLATION ASSEMBLY KITS (W/O SURGE ARRESTOR)	-	DSWB3616A	908	\$330.00
PRESSURE WINDOW FOR WR137, 5.85-8.2 GHZ, MATES TO CPR137G	-	DS58009283001	908	\$152.00
328 FT (100 M) REEL OUTDOOR COPPER CLAD CAT5E	-	DSWB3176A	907	\$653.00
TYPE N FEMALE TO TNC MALE ADAPTER	-	DSN000081L007	908	\$32.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,640.00
WR42 FLEX TWIST HANGER KIT,18-26GHZ	-	DS07010118005	908	\$75.00
TYCO/AMP CRIMP TOOL	-	DSWB3211A	907	\$390.00
MAINS LEAD- US 3PIN TO C5 (PTP800 AC-DC PSU)	-	DSWB3618A	908	\$13.00

50 OHM BRAIDED COAXIAL CABLE - 75 METER	-	DS30010194001	908	\$528.00
LPU END KIT PTP800 (1 KIT REQUIRED PER COAXIAL CABLE)	-	DSWB3657A	908	\$693.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$191.00
TNC MALE RIGHT ANGLE FOR CNT-400 BR	-	DSN000081L006	908	\$34.00

Waveguide

Description	Full Description	Nomenclature	APC	Price
EWP90 - PREMIUM ELLIPTICAL WAVEGUIDE, 10.7 - 11.7 GHZ (PER FT)	-	DS58009273002	908	\$32.00
2 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280002	908	\$660.00
GROUNDING KIT FOR WAVEGUIDE EWP90	-	DS07009343002	908	\$55.00
HOISTING GRIP FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009344001	908	\$69.00
1 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280001	908	\$660.00
3 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280003	908	\$746.00
GROUNDING KIT FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009343001	908	\$59.00
2 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279002	908	\$594.00
EWP52 - PREMIUM ELLIPTICAL WAVEGUIDE, 5.725 - 6.425 GHZ (PER FT)	-	DS58009273001	908	\$44.00
HOISTING GRIP FOR WAVEGUIDE EWP90	-	DS07009344002	908	\$63.00

1 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279001	908	\$594.00
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Cable

Description	Full Description	Nomenclature	APC	Price
RF CNNCTR,N,MALE,RT ANGL 400 CBL	-	DS01010589001	908	\$33.00
FIXED-TUNED CPR90G CONNECTOR FOR EWP90	-	DS09009399002	908	\$574.00
FIXED-TUNED CPR137G CONNECTOR FOR EWP52	-	DS09009399001	908	\$825.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,640.00
HOISTING GRIP FOR CNT-400 CABLE	-	DS07009304001	908	\$26.00
RF CONNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	908	\$15.00

Kits

Description	Full Description	Nomenclature	APC	Price
WR137 FLEX-TWIST HANGER KIT - 6 GHZ	-	DS07010118001	907	\$95.00
WR75 FLEX TWIST HANGER KIT,11- 13GHZ	-	DS07010118003	908	\$68.00
WR42 FLEX TWIST HANGER KIT,18- 26GHZ	-	DS07010118005	908	\$75.00
WR28 FLEX TWIST HANGER KIT, 28 - 38 GHZ	-	DS07010118006	908	\$75.00
RF CONNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	908	\$15.00

CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	908	\$34.00
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PTP FCC License Coordination (Optional):

Description	Full Description	Nomenclature	APC	Price
FCC M/W FREQ PROTECTION SERVICE - 5 ADDITIONAL YR	-	DSWB4113	908	\$605.00
FCC M/W FREQ PROTECTION SERVICE - 10 ADDITIONAL YR	-	DSWB4114	908	\$1,210.00
FCC M/W FREQ COORDINATION SERVICE	-	DSWB3659	908	\$1,386.00

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[CONFIGURATION](#)

[SHIP CARD](#)

Model

LTE PTT L2/L3 Switch

Ordering Information

Features

- Provides a single cable solution for edge devices, such as VoIP telephones and wireless access points.
- Supports PoE Plus standard (802.3at), providing up to 30 watts of power to a single device, which simplifies wiring for next generation solutions.
- Addresses challenge of configuring IP endpoints through LLDP (Link Layer Discovery Protocol) and LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery). This offers a standard, open method for configuring, discovering and managing network infrastructure.
- Offers simple and robust expandability for future growth. Brocade's IronStack technology enables eight switches to be stacked into one logical switch.
- Provides other high availability features, such as dual hot-swappable load-sharing redundant power supplies, and a removable fan assembly.
- Utilizes the Brocade IronWare OS, with a rich Layer 2/3 security suite, Network Access Control (NAC) and Denial of Service (DoS) protection.
- For additional information, see Brocade Model Number FCX624-E at <http://www.brocade.com>

General Information

This FCX switching series offers scalability and flexibility for enterprise campus and data center network applications. Its advanced capabilities deliver performance to the network edge in a 1U form factor that helps to reduce infrastructure and administrative costs. The 24- and 48-port models (both PoE and non-PoE) are stackable and can offer up to eight switches in a single logical switch with 384 ports.

Ordering Requirements

1. There is a minimum quantity 1 required for the PTT L2/L3 switch (TT2380).
2. When the PTT L2/L3 switch (TT2380) is ordered, a PTT L2/L3 Redundant AC Power option (TT05632AA) must be ordered. The minimum quantity is 1.
3. The FRUs for this product are listed under "Accessories." The FRU part numbers must be used when ordering standalone items.
4. The first year of Maintenance and Support for each switch/router must be ordered through Tigers. Please contact [Product Management](#) to obtain a current Maintenance and Support quote.

Configuration

Models

Options

Accessories

Product FRUs:

Data Not Available

Ship Card

Data Not Available

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[CONFIGURATION](#)

[SHIP CARD](#)

Model



PREMIERONE® SUITE - PUBLIC SAFETY APPLICATIONS

Ordering Information

Features

- PremierOne is the leading suite of Public Safety Applications including:
 - Computer Aided Dispatch (CAD)
 - Mobile (In-vehicle Solution)
 - Records Management (RMS) for Law Enforcement
 - Mobile Records Management
 - Integrated NG9-1-1 Call Control
- Support for Complex Multi-Agency/Multi-jurisdiction Systems
- System and User Interface designed exclusively for public safety
- Services Oriented Architecture based on Microsoft Windows® Server and SQL Server for commonality and ease of support
- Embedded ESRI tools for GIS and Mapping
- Highly configurable and flexible product architecture to address the needs of complex agencies
- Integrated workflows for handling 9-1-1 call taking, including text to 9-1-1

- PremierOne Handheld
- Premier Mobile Data Computing (PMDC)

General Information

PremierOne Components

PremierOne was developed with the goal of effectively changing the way public safety agencies manage operations by creating highly available, scalable, and secure software solutions. PremierOne is a unified applications portfolio that provides a real-time view of an agency's operations for enhanced safety and resource allocation. PremierOne uses a common services platform and provides the capability to proactively deploy resources and enhance situational awareness. The PremierOne Public Safety portfolio includes:

1. PremierOne Computer Aided Dispatch (CAD)
2. PremierOne Records Management System (RMS)
3. PremierOne Mobile and Records Mobile

PremierOne NG9-1-1 Call Control

Integrated NG9-1-1 Call Control simplifies incident management in an increasingly complex environment. Motorola's PremierOne NG9-1-1 Call Control Solution streamlines and simplifies workflows by integrating call taking functionality with PremierOne CAD. This PremierOne application handles voice calls and citizen texts simultaneously. Using Call Control, the most common 9-1-1 call handling functions can be accessed from the NG9-1-1 Call Control interface or PremierOne CAD command line. With full integration of previously disparate data sources, call takers and dispatchers maintain critical focus by accessing 9-1-1 and CAD controls from one application using a single keyboard and mouse.

Ordering Requirements

Due to the unique customer requirements for each PremierOne opportunity you will need to work closely with your AST representative and qualified PremierOne presales Solution Architect and Services Business Development Manager to ensure that all customer requirements are accounted for and the proper system and deployment services identified.

- Warranty and Maintenance on PremierOne software products initiates with productive use (beneficial use) of the software. For License only orders, Warranty initiates upon shipment.
- Export restrictions may apply for orders outside of North America

NOTE: Ordering of specific PSA licenses may require additional licenses and /or services to enable the functionality. Please contact your PSA sales representative or inside sales person prior to ordering.

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY AS OUTLINED BELOW

PremierOne Software Licenses

PremierOne Software licenses are modular and scalable in nature. A qualified PremierOne presales Solution Architect needs to analyze the requirements of a given system and

determine the specific PremierOne Software licenses required for that system.

PremierOne Common Services Licenses

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8149 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE COMMON SERVICES LICENSES	-	T8149	513	\$0.00

Common Services License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE QUERY SERVICE SERVER LICENSE	-	CA02712AA	513	\$25,000.00
ADD: PREMIERONE GIS EDITING CLIENT PLUG-IN LICENSE	-	CA02715AA	513	\$7,500.00
ADD: PREMIERONE MAPPING SERVER LICENSE	-	CA02716AA	513	\$10,000.00
ADD: PREMIERONE CAD & MOBILE REPORTING SERVICE SERVER LICENSE	-	CA02717AA	513	\$10,000.00
ADD: PREMIERONE RECORDS REPORTING SERVICE SERVER LICENSE	-	CA02718AA	513	\$10,000.00
ADD: PREMIERONE RTVI INTEGRATION	-	CA02719AA	513	\$20,000.00

PremierOne CAD Licenses

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8150 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE CAD LICENSES	-	T8150	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE CAD SERVER LICENSE (PRIMARY)	-	CA02721AA	513	\$75,000.00
ADD: PREMIERONE CAD SERVER LICENSE (DR BACKUP SITE)	-	CA02722AA	513	\$37,500.00
ADD: CAD TO CAD INTERFACE	-	CA02723AA	513	\$50,000.00
ADD: CAD TO CAD API	-	CA02724AA	513	\$50,000.00
ADD: PREMIERONE AVL VEHICLE TRACKING MODULE LICENSE	-	CA02725AA	513	\$35,000.00
ADD: ARL VEHICLE AND RESPONDER LOCATION TRACKING MODULE LICENSE	-	CA02726AA	513	\$50,000.00
ADD: FSA INTERFACE LICENSE	-	CA02727AA	513	\$25,000.00
ADD:PERSONNEL API	-	CA02904AA	513	\$35,000.00
ADD:ROLL CALL API	-	CA02905AA	513	\$35,000.00
ADD:PERSONNEL AND ROLL CALL API	-	CA02906AA	513	\$50,000.00
ADD: PREMIERONE CAD TO 3RD PARTY MOBILE API	-	CA02955AA	513	\$50,000.00

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.00
ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.00
ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$2,000.00
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.00
ADD : PREMIERONE ENTERPRISE SITE LICENSE FOR CAD CLIENT USAGE	-	CA03245AA	513	\$1.00
ADD:PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(PER CONCUR USER)	-	CA03257AA	513	\$1,200.00
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(50 CONCUR USERS)	-	CA03259AA	513	\$50,000.00

NG 9-1-1 Call Control License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR VOICE	-	CA02733AA	513	\$10,000.00
ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR TEXT	-	CA02734AA	513	\$1,000.00
ADD: PREMIERONE NG9-1-1 CALL CONTROL INTERFACE LICENSE-INTRADO	-	CA02735AA	513	\$5,995.00
ADD: PREMIERONE NG911 CONVERTIBLE CALL CONTROL INTERFACE LIC-INTRADO	-	CA02737AA	513	\$7,995.00

PremierOne NG9-1-1 Call Control Solution

Notes on NG9-1-1 Call Control:

Additional hardware and software may be required for CAD and/or 9-1-1. Please contact APS Product Management (NG-ICC / 911) or PremierOne Pre-Sales Engineering for guidance on quoting and ordering. There are many interfaces available to integrate PremierOne with additional agency and external systems. Required interfaces vary greatly by system and typically require additional professional services for deployment and integration. Please consult a qualified PremierOne Pre-sales Solution Architect and/or Services Business Development Manager for the details of the capabilities provided by each PremierOne interface and the requirements for deployment.

Alternative licenses available for some customers that already have the Power9-1-1 Application from Intrado or who need to run Power9-1-1 Application from Intrado until PremierOne CAD is installed and operational. Contact APS Product Management or PremierOne Pre-Sales Engineering for guidance.

PremierOne CAD v 3.3 or higher required

Intrado Viper 9-1-1 Switch v4.1 SP3 or higher required

PremierOne Mobile and Handheld Licenses

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8170 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE MOBILE AND HANDHELD LICENSES	-	T8170	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE MOBILE SERVER LICENSE (PRIMARY)	-	CA02738AA	513	\$50,000.00
ADD: PREMIERONE MOBILE SERVER LICENSE (DR BACKUP SITE)	-	CA02739AA	513	\$25,000.00
ADD: PREMIERONE MOBILE CLIENT API LICENSE	-	CA02740AA	513	\$50,000.00

ADD: PREMIERONE HANDHELD SERVER LICENSE	-	CA02741AA	513	\$25,000.00
ADD: PREMIERONE HANDHELD MAPPING SERVER LICENSE	-	CA02742AA	513	\$5,000.00

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD:PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING(PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.00
ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.00
ADD:PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING(PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.00
ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.00
ADD:PREMIERONE MOBILE W/ MAPPING & RECORDS CLNT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.00
ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00
ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
ADD: HANDHELD FOR ANDROID				

QUERY/MESSAGING CLIENT LIC(CONCUR USER)	-	CA03216AA	513	\$555.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.00
ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC(CONCUR USER)	-	CA03218AA	513	\$1,070.00
ADD: PREMIERONE ENT SITE LIC FOR MOBILE/HANDHELD CLIENT USAGE	-	CA03244AA	513	\$1.00
ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03396AA	513	\$1,270.00
ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00

PremierOne Records Licenses

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8171 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE RECORDS LICENSES	-	T8171	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS TIER 3 SERVER LICENSE (1 TO 50 USERS)	-	CA02752AA	513	\$40,000.00
ADD: PREMIERONE RECORDS TIER 2 SERVER LICENSE (51 TO 500 USERS)	-	CA02753AA	513	\$60,000.00
ADD: PREMIERONE RECORDS TIER 1 SERVER LICENSE (501 TO 1000 USERS)	-	CA02754AA	513	\$90,000.00

ADD: PREMIERONE RECORDS TIER 0 SERVER LICENSE (1001+ USERS)	-	CA02755AA	513	\$120,000.00
ADD: PROPERTY AND EVIDENCE MODULES LICENSE	-	CA02756AA	513	\$25,000.00
ADD: PREMIERONE RECORDS STANDARD API LICENSE	-	CA02757AA	513	\$50,000.00
ADD: PREMIERONE JAIL MODULES LICENSE	-	CA02758AA	513	\$50,000.00
ADD: PREMIERONE RECORDS DATA CONVERT ON DEMAND SOFTWARE LICENSE	-	CA02893AA	513	\$80,000.00

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.00
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00
ADD : PREMIERONE ENTERPRISE SITE LICENSE FOR RECORDS CLIENT USAGE	-	CA03246AA	513	\$1.00

Premier Mobile Data Computing (PMDC)

PMDC is Motorola's mobile software option for low bandwidth and international deployments. PMDC can be integrated with PremierOne CAD to create a CAD/Mobile solution. The following licenses are for the PMDC mobile solution:

Premier Mobile Data Computing (PMDC) Licenses

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8151 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIER MOBILE DATA COMPUTING (PMDC) LICENSES	-	T8151	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC SERVER LICENSE (1-50 UNITS)	-	CA02689AA	513	\$48,000.00
ADD: PREMIER MDC SERVER LICENSE (51-100 UNITS)	-	CA02762AA	513	\$60,000.00
ADD: PREMIER MDC SERVER LICENSE (101-500 UNITS)	-	CA02763AA	513	\$80,000.00
ADD: PREMIER MDC SERVER LICENSE (501-1000 UNITS)	-	CA02764AA	513	\$115,000.00
ADD: PREMIER MDC SERVER LICENSE (1001+ UNITS)	-	CA02765AA	513	\$215,000.00
ADD: PMDC CLIENT API TO 3RD PARTY CLIENT APPLICATION LICENSE	-	CA02766AA	513	\$10,000.00
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (50 TO 100 UNITS)	-	CA02767AA	513	\$12,000.00
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (100 TO 500 UNITS)	-	CA02768AA	513	\$20,000.00
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (500 TO 1000 UNITS)	-	CA02769AA	513	\$35,000.00

ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE(1000 TO 1000+ UNITS)	-	CA02770AA	513	\$100,000.00
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Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.00
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00

ATM Mobile (ATMM) License Options

Description	Full Description	Nomenclature	APC	Price
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00

ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00

ADD-ON AFTER GO-LIVE SOFTWARE LICENSES:

PremierOne CAD Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8180 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE CAD CLIENT LICENSES (ADD-ON)	-	T8180	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.00
ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.00
ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$2,000.00
ADD: PREMIERONE CAD VIEW-ONLY				

CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.00
ADD:PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(PER CONCUR USER)	-	CA03257AA	513	\$1,200.00
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(50 CONCUR USERS)	-	CA03259AA	513	\$50,000.00

Premier Mobile Data Computing (PMDC) Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

IMPORTANT: Please note PMDC AirMobile is an end-of-life product. Add-on licenses are only available for existing customer systems, contact your ICC overlay team for details.

Select T8152 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIER MOBILE DATA COMPUTING (PMDC) CLIENT LICENSES (ADD-ON)	-	T8152	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.00
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00

ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00

Model

PremierOne Records Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8181 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Description	Full Description	Nomenclature	APC	Price
PREMIERONE RECORDS CLIENT LICENSES (ADD-ON)	-	T8181	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.00
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.00

ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00
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PremierOne Mobile and Handheld Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Select T8182 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE MOBILE AND HANDHELD CLIENT LICENSES (ADD-ON)	-	T8182	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD:PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING(PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.00
ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.00
ADD:PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING(PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.00
ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.00
ADD:PREMIERONE MOBILE W/ MAPPING & RECORDS CLNT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.00
ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00

ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
ENH: MOBILE LICENSE WITH MAPPING UPGRADE (DEVICE TO CONCUR USER).	-	CA03133AA	513	\$460.00
ENH: MOBILE LICENSE W/O MAPPING UPGRADE (DEVICE TO CONCUR USER)	-	CA03134AA	513	\$250.00
ENH: MOBILE LIC W/MAPPING & RECORDS UPGRADE (DEVICE TO CONCUR USER)	-	CA03135AA	513	\$1,000.00
ADD: HANDHELD FOR ANDROID QUERY/MESSAGING CLIENT LIC(CONCUR USER)	-	CA03216AA	513	\$555.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.00
ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC(CONCUR USER)	-	CA03218AA	513	\$1,070.00
ENH:HANDHELD FOR ANDROID QUERY/MESSAGING LIC UPG:DEVICE TO CONCUR	-	CA03223AA	513	\$130.00
ENH: HANDHELD FOR ANDROID INT SUITE LIC UPGRADE: DEVICE TO CONCUR	-	CA03224AA	513	\$295.00
ENH: HANDHELD FOR ANDROID INT SUITE W/MSI DEV LIC UPG TO CONCUR	-	CA03225AA	513	\$295.00
ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03396AA	513	\$1,270.00
ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00

ENH: HANDHELD FOR IOS INT. SUITE LIC UPGRADE (DEVICE TO CONCUR USER)	-	CA03395AA	513	\$295.00
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Premier CAD Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Premier CAD is Motorola's legacy CAD product and has an announced End of Support date of August 31, 2018. Addition of client licenses to existing Premier CAD systems is possible via the part number below, but we are no longer offering new system purchases. PremierOne CAD is our current, market leading CAD product for new system sales.

IMPORTANT: Please note Premier CAD UDT, MGU and Open Query are end-of-life products. Add-on licenses are only available for existing customer systems, contact your ICC overlay team for details.

Select T8172 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
PREMIER CAD LICENSES (ADD-ON)	-	T8172	513	\$0.00

Server/Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER CAD WORKSTATION WITHOUT MAPPING LICENSE - CAD AND AWW	-	CA02786AA	513	\$600.00
ADD: PREMIER CAD WORKSTATION WITH MAPPING LICENSE - CAD, AWW AND ATM	-	CA02787AA	513	\$2,250.00
ADD: PREMIER Q&A CLIENT ADD-ON LICENSE	-	CA02788AA	513	\$1,400.00
ENH: PREMIERCAD WORKSTATION W/O MAPPING TO CAD WORKSTATION W/ MAPPING	-	CA02789AA	513	\$1,650.00

Open Query License Options

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Description	Full Description	Nomenclature	APC	Price
ADD: OPEN QUERY CLIENT LICENSE PER USER (1-25 WORKSTATIONS)	-	CA02790AA	513	\$400.00
ADD: OPEN QUERY CLIENT LICENSE PER USER (26-50 WORKSTATIONS)	-	CA02791AA	513	\$325.00
ADD: OPEN QUERY CLIENT LICENSE PER USER (51+ WORKSTATIONS)	-	CA02792AA	513	\$275.00

AVL License Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (51-250)	-	CA02793AA	513	\$25,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (251-500)	-	CA02794AA	513	\$35,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (501-750)	-	CA02795AA	513	\$45,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (751-1000)	-	CA02796AA	513	\$55,000.00

Advanced Tactical Mapping Mobile (ATMM) Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY Select T8183 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Model

Description	Full Description	Nomenclature	APC	Price
ADVANCED TACTICAL MAPPING MOBILE	-	T8183	513	\$0.00

(ATMM) LICENSES (ADD-ON)				
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Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00
ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00

WARRANTY/MAINTENANCE SERVICES ORDERING

1. Select the applicable nomenclature model number for:

- Mobile Warranty/Maintenance: SVC850PMDC
- Records Warranty/Maintenance: PTRLRMSMAINTACCEPT
- CAD and NG911-CC Warranty/Maintenance: PTRCADMAINTACCEPT

2. Order quantity based on 18% of price of ordered software licenses

Model

Description	Full Description	Nomenclature	APC	Price
LRMS MAINTENANCE ACCEPTANCE	-	PTRLRMSMAINTACCEPT	513	\$1.00
PREMIER MDC M&S	-	SVC850PMDC	850	\$1.00
CAD MAINTENANCE ACCEPTANCE	-	PTRCADMAINTACCEPT	513	\$1.00

Model

Description	Full Description	Nomenclature	APC	Price
PREMIERONE MICROSOFT SYSCTRDATACTR ALNG EMB 2012R2 MVL 2 PROC	-	DSP1AVSD12R2MVL	330	\$2,725.00
PREMIERONE MICROSOFT SYSCTRDATACTR ALNG EMB MNTNCE 2012R2 MVL 2 PROC	-	DSP1AVSD12R2EMMVL	702	\$718.00
PREMIERONE MICROSOFT SQL SVR ENTERPRISE RUNTIME 2012 EMB 2 CORE LIC	-	DDN2214	513	\$7,173.00
PREMIERONE MICROSOFT SQL SVR ENT RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2212	513	\$1,511.00
PREMIERONE MICROSOFT SQL SVR STANDARD RUNTIME 2012 EMB 2 CORE LIC	-	DDN2215	513	\$1,888.00
PREMIERONE MICROSOFT SQL SVR STD RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2213	513	\$398.00

Advanced Messaging Solution (AMS) and Unified Network Services (UNS) items are often included with PremierOne solutions to provide unique cross product functionality between PremierOne and Motorola Radio systems. Please refer to the AMS and UNS sections of ECAT for additional details.

PremierOne Interface Annual Fees

There are many interfaces available to integrate PremierOne with additional agency and external systems. Required interfaces vary greatly by system and typically require additional professional services for deployment and integration. Please consult a qualified PremierOne presales Solution Architect and/or Services Business Development Manager for the details of the capabilities provided by each PremierOne interface and the requirements for deployment.

Interface Annual Fees	APC	Annual Fee
NetClock	0702	\$0
Plant EquipmentCML Vesta E911	0702	\$1,800

PlantCML Vesta TDD	0702	\$1,800
Third Party Paging Device or Service (TAP)	0702	\$1,800
Third Party Paging Device or Service (SMTP)	0702	\$1,800
MCC 7500 Radio Console	0702	\$1,800
Motorola Astro Flexible ATIA	0702	\$1,800
Law RMS datafeed	0702	\$1,800
Fire RMS datafeed	0702	\$1,800
ProQA Medical	0702	\$1,800
ProQA Fire	0702	\$1,800
ProQA Law	0702	\$1,800
Deccan LiveMUM	0702	\$1,800
CrimeView	0702	\$1,800
LiNX	0702	\$1,800
CopLink	0702	\$1,800
CryWolf False Alarm Billing Interface - Bidirectional	0702	\$1,800
CAD and Mobile Bulk Provisioning	0702	\$1,800
Image System Query	0702	\$1,800
Legacy RMS Query	0702	\$1,800
DSI Jail Send	0702	\$1,800
DSI Jail/Picture Link Query	0702	\$1,800

State/NCIC	0702	\$1,800
State Query Interface Transaction Bundle	0702	\$1,800
SMTP Server Interface	0702	\$1,800

PremierOne Hardware Components

PremierOne runs on Microsoft® Windows Server based servers and associated, storage, network, and ancillary elements. The flexibility and scalability of PremierOne leads to several different possible hardware platform combinations. The system design and associated software and hardware components for a specific system needs to be determined by a qualified PremierOne Solution Architect.

The PremierOne deployment processes is optimized for hardware ordering and staging to be performed by Motorola Solutions at the Schaumburg Customer Center for System Integration (CCSi). Deviation from this optimized system purchase, integration and staging process will impact deployment services for a system.

Service components

Motorola System Integration (SI) team professional services are required for PremierOne system deployments. Please contact the PremierOne presales Solution Architecture (SA) and Services Business Development Management (BdM) teams for the proper quoting of the required system deployment services.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	AVP	DDN2212	PREMIERONE MICROSOFT SQL SVR ENT RUNTIME 2012 EMB MAINT 2 CORE LIC	513	5
QUOTEDS	AVP	DDN2213	PREMIERONE MICROSOFT SQL SVR STD RUNTIME 2012 EMB MAINT 2 CORE LIC	513	5

QUOTEDS	AVP	DDN2214	PREMIERONE MICROSOFT SQL SVR ENTERPRISE RUNTIME 2012 EMB 2 CORE LIC	513	5
QUOTEDS	AVP	DDN2215	PREMIERONE MICROSOFT SQL SVR STANDARD RUNTIME 2012 EMB 2 CORE LIC	513	5
QUOTEDS	AVP	DSP1AVSD12R2EMMVL	PREMIERONE MICROSOFT SYSCTRDATACTR ALNG EMB MNTNCE 2012R2 MVL 2 PROC	702	5
QUOTEDS	AVP	DSP1AVSD12R2MVL	PREMIERONE MICROSOFT SYSCTRDATACTR ALNG EMB 2012R2 MVL 2 PROC	330	5
QUOTEDS	MMSD	PTRCADMAINTACCEPT	CAD MAINTENANCE ACCEPTANCE	513	36
QUOTEDS	SCX	PTRLRMSMAINTACCEPT	LRMS MAINTENANCE ACCEPTANCE	513	40
QUOTEDS	MMSD	PTRLRMSMAINTACCEPT	LRMS MAINTENANCE ACCEPTANCE	513	265
QUOTEDS	SCX	SVC850PMDC	PREMIER MDC M&S	850	10
DRPSHP	SCB	T8149	PREMIERONE COMMON SERVICES LICENSES	513	4
DRPSHP	SCB	T8150	PREMIERONE CAD LICENSES	513	3
DRPSHP	SCB	T8151	PREMIER MOBILE DATA COMPUTING (PMDC) LICENSES	513	10
DRPSHP	SCB	T8152	PREMIER MOBILE DATA COMPUTING (PMDC) CLIENT LICENSES (ADD- ON)	513	1
DRPSHP	SCB	T8170	PREMIERONE MOBILE AND	513	3

			HANDHELD LICENSES		
DRPSHP	SCB	T8171	PREMIERONE RECORDS LICENSES	513	4
DRPSHP	SCB	T8172	PREMIER CAD LICENSES (ADD-ON)	513	10
DRPSHP	SCB	T8180	PREMIERONE CAD CLIENT LICENSES (ADD-ON)	513	6
DRPSHP	SCB	T8181	PREMIERONE RECORDS CLIENT LICENSES (ADD-ON)	513	1
DRPSHP	SCB	T8182	PREMIERONE MOBILE AND HANDHELD CLIENT LICENSES (ADD-ON)	513	35
DRPSHP	SCB	T8183	ADVANCED TACTICAL MAPPING MOBILE (ATMM) LICENSES (ADD-ON)	513	10

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[IMPORTANT NOTICE](#)

IMPORTANT NOTICE

Quantar® Flashport® - Important Notice

When ordering QUANTAR FLASHport Upgrades use one the following model numbers:

- SQM01SUM0130 Software & Hardware Upgrades
- T6693 Software Only Upgrades

More information on these model numbers can be found in the following eCat Price Pages:

- [Main folder: Software Upgrades & FLASHport](#)
- [Infrastructure FLASHport Upgrades Folder](#)
- [QUANTAR Software & Hardware Upgrade Folder](#)
- [Software Upgrades/FLASHport](#)
- [Software & Hardware Upgrades/FLASHport](#)

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

"Limited" QUANTAR®
UHF Band ONLY

Ordering Information

General Information

The following options are available on "Limited" QUANTAR .

NOT FOR: [QUANTAR](#), [QUANTAR Data Base Stations](#), QUANTAR Receiver, or [ASTRO-TAC® Receiver](#).

1. "Limited" QUANTAR Stations can only be used within a Conventional/Analog radio system.
2. "Limited" QUANTAR Station's operation is only offered in two UHF frequency bands: 470 - 494MHz with a 110 Watt PA (CA00018AA) or 494 - 520 MHz. with a 100 Watt PA (CA00019AA).
3. "Limited" QUANTAR Station is Non-Upgradeable (NOT FLASHport® Capable) to ASTRO®, Trunking, Simulcast, or SmartZone®.
4. "Limited" QUANTAR Stations are only compatible with the following options:
X580, X622, X597, X182, X371, X84, C101, X286, X425, X233, X157, X30, X112, X113, X676, U752, X432, X287, X52, X308, X180, X36, X87, X374, X375, X376, X377, X380, X381, X382, X383, X379, X741, X742, X832, X882, X810 and X153.
5. "Limited" QUANTAR Stations are not compatible with the following options:
X148, X844, X932, U453, C457, C753, X312, X322, X323, X324, C115, X337, X338, X339, X777, X888, U764, X144, X269, X122, X149, X150, X8433, X814, X145, X146, X147, X325, X326, X327, X121, C28, C32, C681, C257, X873, X394, X696, X139, X288, X889, X598, X599, X806, X997, X996, X992, X900, X989, X897, X999, X998, X990 and X898.
6. "Limited" QUANTAR Stations are not compatible with trunked options.

ALL STATIONS SHIP UNCONFIGURED, AND MUST BE FIELD PROGRAMMED with the Radio Service Software (RSS) to alter the Communication Channel functions and to input the Transmit and Receive Frequencies within the specified range selected. The sales person is responsible for this information and should forward it to the field programmer or service shop. Radio Service Software (RSS) is not shipped with the station, order from Aftermarket and Accessories Division. (1-800-422-4210)

Please see the Product Planner for full descriptions of each option.

Ordering Requirements

You **MUST** select a frequency by option.

- UHF 470-494MHz 110W (CA00018AA)
- UHF 494-512MHz 100W (CA00019AA)

The station configuration, QUANTAR will be determined by this option. Specify one transmit and one receive frequency for factory tuning. Exact customer frequencies are programmed in the field. If the frequencies are not accurate, retuning may be required in the field.

You **MUST** select a System Family Option. Choose the appropriate suffix in COF for QUANTAR.

- Conventional (X597 A)

Configuration

Radio Model

Options

Power And Frequency Band (s)

System Family

Now proceed to select [Conventional](#) or return to [QUANTAR General Information](#).

Data Not Available

Ship Card

Data Not Available

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If you have any questions and/or comments about the GTX or Maxtrac products in this section, please send an email to [Julie Blasius](#)

All other questions and comments should be directed to [Carol Haske](#)

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MODEL

**ORDERING
INFORMATION**

Model

Ordering Information

General Information

General Ordering Information

If you have any questions and/or comments about the products in this section, please specify which product(s) are involved and the error(s) you have discovered. Please send an email to [Garin Lim](#)

JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)

Model

Access Solutions
RAD

Ordering Information

General Information

Product Families

Access + Portfolio

Best-of-breed, hybrid SDH/SONET and PSN access solutions for seamless migration and smart communications:

- Carrier-grade Ethernet capabilities
- Extensive support for legacy services and interfaces
- Enhanced connectivity for any topology
- System solutions: CPE, grooming and aggregation
- Unified management

RAD's megaplex multiservice access concentrators for delivering legacy and next-generation services over fiber or copper PDH/SDH/SONET, or over packet switched transport networks (PSN). Able to handle a broad range of Ethernet, data and voice services, as well as a large variety of network technologies in a single compact managed node.

[Click here for data sheets](#)

Ethernet over TDM/SONET

Connect Ethernet applications over low and high-speed SDH/SONET and PDH circuits, from fractional and full E1/T1, bonded E1/T1s, E3/T3, bonded E3/T3s, STM-1/OC-3, to STM-4/OC-12.

RAD's Ethernet over TDM/SONET products are designed for backhauling Ethernet traffic over copper, fiber, or microwave connections, employing standards based technology. RAD's family of Ethernet over TDM/SONET products include both end user devices as well as aggregators.

[Click here for data sheets](#)

TDM Psuedowire

RAD's pseudowire family of products provide transport of TDM traffic (T1, T3, E&M, FXS, FXO, RS-232, v.24, etc.) over Ethernet/IP/MPLS backbones. Replace traditional leased lines with lower cost packet networks. Transparent to all protocols and signaling, TDM pseudowire allows you to keep using all existing end user equipment. It also delivers highly accurate clock synchronization and carrier-class availability, and is compatible with all

pseudowire standards.

[Click here for data sheets](#)

EtherAccess

RAD's EtherAccess portfolio incorporates a complete family of MEF certified Ethernet access devices. From simple media converters and carrier class Ethernet switches, to sophisticated Carrier Ethernet demarcation devices providing extensive diagnostic and monitoring capabilities. RAD's EtherAccess devices provide a wide range of features and functions including:

- Multiple combinations of FE, GbE and 10GbE user and network ports
- Optional E1/T1, T3, or SHDSL modular network ports
- Hardware-based Ethernet OAM, L2 and L3 performance monitoring with Y.1731 and TWAMP and built-in RFC-2544/Y.1564 tester capabilities; L2/L3 diagnostic loopbacks
- ITU-T G.8032 Ethernet Ring Protection Switching; G.8031 Ethernet Linear Protection Switching; Link aggregation (LAG) per 802.3ad; dual homing (1:1) redundancy
- Hybrid Synch-E and IEEE 1588 Grandmaster, Boundary Clock, Transparent Clock
- TDM pseudowire per MEF-8, UDP/IP, MPLS encapsulation in CESoPSN and SAToP modes
- RADview management; Supported by RADview Performance Monitoring Portal and RADview Service Manager

[Click here for data sheets](#)

Airmux PTP & PTMP Wireless Products

RAD's Airmux series of carrier-class broadband wireless radios deliver native Ethernet and TDM services over a single wireless link in various sub-6 GHz frequencies (including 4.9). RAD's Airmux-400 point to point radio systems, with a flexible combination of Ethernet and up to 16 E1/T1 interfaces, provides aggregated throughput of up to 250 Mbps and a range of up to 12 km (7.5 miles).

RAD's Airmux-5000 carrier class point to multipoint Ethernet radio systems is the ideal wireless solution for users demanding high capacity throughput with dedicated traffic bandwidth allocation per subscriber. Featuring up to 250 Mbps aggregated sector capacity and shared base station architecture, a single Airmux-5000 base station supports up to 32 remote subscriber units (SUs) with multiband operation, making it ideal for:

- Security and surveillance applications, requiring aggregation and backhaul of traffic from multiple co-located HD cameras.
- Private networks, requiring high capacity inter-branch connectivity for university campuses, healthcare organizations, government institutions, large enterprises and public establishments.

[Click here for data sheets](#)

Optimux

RAD has fiber optic multiplexers that enable cost-effective and efficient transport of multiple E1 or T1 lines, E3 or T3 tributaries and Ethernet over fiber optic links. RAD's comprehensive product line of high-performance fiber optic multiplexer products features ranges of up to 120 km (75 miles).

Typical applications for the fiber optic muxes include point-to-point and ring topology, E1, T1 fan out, E3, T3 extension, and drop and insert.

RAD's fiber optic muxes are highly manageable, accompanied by a network management system for configuration, service, performance, security, and fault management. The compact fiber optic multiplexers also multiplex combined E1 and T1 channels according to

the G.747 standard.

[Click here for data sheets](#)

SFP's

RAD's SFP (small form-factor pluggable) transceivers are hot-swappable, input/output transceiver units converting optical and electrical media. Providing a wide range of detachable interfaces to multimode/single-mode optic fibers and UTP/coaxial electrical cables, they also allow the transport of Fast Ethernet and Gigabit Ethernet LAN packets over TDM-based WANs, as well as the transmission of E1/T1 streams over packet-switched networks. In addition to facilitating efficient design of host devices and flexible network planning, RAD's miniature transceiver units enable significant savings in system maintenance and upgrade costs.

[Click here for data sheets](#)

RADview

RAD's RADview is a multi-platform network management suite for configuration, provisioning, monitoring, and management of networks and end-to-end services. Fully compliant with the ITU-T Telecommunications Management Network (TMN) standards, the RADview management suite features advanced fault, configuration, administration, performance, security (FCAPS) capabilities. In addition to a network element management component, RADview also offers a service manager for managing end-to-end Carrier Ethernet services, a service center for managing TDM services, and an Ethernet performance monitoring portal for real-time monitoring of Ethernet service performance. RADview manages both legacy TDM and next-generation RAD devices using n SNMP southbound interface, and also features third-party device monitoring capabilities. Its northbound interface enables integration into a third-party umbrella system (OSS).

[Click here for data sheets](#)

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
IPMUX-24 PWE, 4 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881220000	947	\$2,957.00
MEGAPLEX 2100 4U MODULAR MP, 115 VAC, RDNT 10BT MNG, P	-	DS7646220000	947	\$6,406.00
MEGAPLEX-4104 RED 90 TO 260 VAC & 95 TO 300 VDC RED DS0 CROSS CONNECT	-	DS6640310000	947	\$5,569.00

OP-106-4 T1 FIBER MUX,ST,1310 NM SM SHORT HAUL	-	DS5200200000	947	\$739.00
MEGAPLEX TDMOIP MAIN LINK WITH ECHO CANCEL OPTION	-	DS7649220000	947	\$2,834.00
SFP GIGE TWP COPPER, UP TO 100M, RJ-45 CONNECTOR (GIGE ONLY)	-	DS1278090000	947	\$241.00
RM-33-2: RACK MOUNT KIT FOR ONE OR TWO UNITS	-	DS1900640000	947	\$33.00
OP-106-4 T1 & ETHERNET FIBER MUX,RED POWER,SC,1310NM SM SHORT HAUL	-	DS5200280000	947	\$1,060.00
SFP FAST ETHERNET/STM 1, 850 NM, MULTIMODE, 2 KM (1.2 MI)	-	DS1278650000	947	\$99.00
MEGAPLEX SINGLE T1 MAIN LINK MODULE WITH 1 RJ-45/T1 WAN PORT	-	DS7646230000	947	\$1,478.00
Airmux-400P 250M ODU, Connectorized ant (2x N-type), supp 5.8 GHz FCC	-	DS3750040000	947	\$3,136.00
MEGAPLEX-4104 RED -48 VDC, RED DS0 CROSS CONNECT	-	DS6640280000	947	\$5,569.00
SFP SM 1310 NM LC CONNECTOR	-	DS1278050000	947	\$136.00
MEGAPLEX POWER SUPPLY MODULE FOR MP-2100/2104, -48 VDC	-	DS7651750000	947	\$1,478.00
SF2 Rugg SCADA & routing,-24DC,2 GE SFP,8 FE UTP, 2 ports w/Airmux POE	-	DS6801120000	947	\$2,262.00
MEGAPLEX T1 FIBER MAIN LINK FOR MP-2100, SC CONN 1310NM LASER	-	DS7651570000	947	\$2,156.00
MEGAPLEX4 U MOD. VOICE MOD. 4 E&M AND OMNIBUS	-	DS7651360000	947	\$2,218.00
MEGAPLEX PSEUDOWIRE MODULE, 8 E1/T1 PORTS FOR MP-4100, 3 UTP PORTS	-	DS4640510000	947	\$2,710.00

MEGAPLEX 4U VOICE MODULE 16CH E&M, TYPE 2, POSITIVE VOLTAGE	-	DS7651850000	947	\$1,971.00
AIRMUX 5000HBS,BASE CONN(2X N-TYPE),MULTI FREQ 5.XGHZ,DEFAULT 5.8GHZ	-	DS6490060000	947	\$4,480.00
MEGAPLEX 8 PORT E&M CARD	-	DS7647670000	947	\$1,109.00
CBL-HSR/F 1-2 PORT SPLITTER FOR HSR/RS-232 MP LOW SPEED DATA MODULE	-	DS5010760000	947	\$44.00
AIRMUX-400 DISH ANT,2FT, DUAL POL, GAIN 28DBI, 4.90-6.06 GHZ	-	DS5260180000	947	\$885.00
MEGAPLEX ALARM & DIAGNOSTIC MODULE	-	DS7644130000	947	\$862.00
MEGAPLEX DUAL T1 MAIN LINK	-	DS7643930000	947	\$1,971.00
DXC 3U 4-PORT T1 MODULE, BERT, LTU, LOOPBACK PER TS, FRAMED	-	DS7723310000	947	\$1,275.00
MEGAPLEX MP-4104 COMMON LOGIC 2, DS0 CROSS CONNECT ONLY	-	DS6700130000	947	\$1,848.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE	-	DS3790010000	947	\$1,792.00
RADVIEW LICENSE, 1 ENW POINT	-	DS2170360000	947	\$7.00
SF2 RUGG SCADA & ROUTING,-48DC,2 GE SFP,8 FE UTP, 2 PORTS W/AIRMUX POE	-	DS6800280000	947	\$2,016.00
IPMUX-1E 4E&M MULTIPLEXER WITH ETHERNET PORT	-	DS1151290000	947	\$1,818.00
FCD WITH 2 SERIAL PORTS OVER T1	-	DS3900110000	947	\$728.00
IPMUX-24 PWE, 2 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881200000	947	\$2,033.00
MEGAPLEX FIBER ML-IP MAIN LINK,ST	-	DS7649690000	947	\$3,573.00

CONNECTOR,1310 NM LASER				
AIRMUX CABLE TERM KIT FOR OUTDOOR CABLES, INCL 10 GLANDS & 10 RJ-45	-	DS5260190000	947	\$140.00
Airmux-400P 250M ODU, Integrated ant (2x N-type), supp. 5.8 GHz FCC	-	DS3750030000	947	\$3,360.00
MEGAPLEX 200 WATT POWER SUPPLY MODULE FOR MP-2100	-	DS7651720000	947	\$1,109.00
RICI-T1 FAST ETHERNET TO T1 W/ EXTENDED TEMPERATURE RANGE	-	DS2750050000	947	\$795.00
RM-35/P1 RACK MOUNT KIT FOR 1/2 19 INCH, 1 DEVICE PER SHELF	-	DS1900540000	947	\$22.00
MEGAPLEX 2100 W/ NEW COMMON LOGIC, NO ML	-	DS7646140000	947	\$3,696.00
ETX-102 2 NETWORK SFP PORTS, 4 PORT 10/100BT ETHERNET SWITCH	-	DS3770410000	947	\$647.00
MEGAPLEX-4100 8-PORT T1 MODULE,3 UTP PORTS	-	DS4640370000	947	\$2,464.00
RM-17: RACK MOUNT KIT	-	DS1900160000	947	\$31.00
SFP GE DDM, INDUSTRIALLY HARDENED, 1610 NM, CWDM, 24 DB, BUDGET	-	DS1278830000	947	\$986.00
IPMUX-1E 4E&M MULTIPLEXER W/ ETHERNET & USER	-	DS1151220000	947	\$2,631.00
MEGAPLEX 4U MODULE, ETHERNET SWITCH, 10/100BT 4 UTP.	-	DS7649670000	947	\$1,971.00
MP-4100 T3 MODULE FOR THE MP-4	-	DS3680120000	947	\$3,696.00
RM-35 RACK MOUNT	-	DS8034260000	947	\$44.00
OP-106 4T1/ETH FIBERMUX,ST, 1310 NM, MM	-	DS5200450000	947	\$1,084.00

RADVIEW-PC CARRIER CLASS NETWORK MANAGEMENT SYSTEM	-	DS5760190000	947	\$9,856.00
ETX-102 1 NET PORT SM,1310NM,1 NULLNET SFP PORT, 4 USER 10/100 PORTS	-	DS3770430000	947	\$764.00
MEGAPLEX 4 CHANNEL PCM VOICE MODULE; E&M	-	DS7651860000	947	\$739.00
IPMUX-216 PWE 16 T1 PORTS, AC POWER,3 FE UTP RJ-45 ETH PORTS	-	DS4901180000	947	\$7,756.00
AIRMUX DC OUTDOOR POE, 10VDC-60VDC POWER FEEDING	-	DS5261220000	947	\$353.00
MEGAPLEX 2104 5 SLOT CHASSIS - 48VDC, 1 COMMON LOGIC MODULE, & RINGER	-	DS7650730000	947	\$3,450.00
RICI-16- 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS RED POWER SUPPLY	-	DS2541130000	947	\$3,006.00
SFP SM, 1310NM, UP TO 15KM, LC, 100BASEFX OR STM1	-	DS1278020000	947	\$118.00
USE DS1278320000 SFP MM 850NM, UP TO 550M, LC CONN, 1000 BASE-SX	-	DS1278060000	947	\$68.00
ETX-1 ETH DEMARC SWITCH, AC, 2 EMPTY SFP SLOTS, 4 UTP PORTS,HARDENED	-	DS1960150000	947	\$924.00
MEGAPLEX 2 I/O SLOT BLANK PANEL FOR MP-2100	-	DS7645540000	947	\$18.00
MEGAPLEX 4 PORT RS-232 MEGAPLEX LOW SPEED DATA MODULE (HS-R)	-	DS7653140000	947	\$1,232.00
MEGAPLEX 16 PORT E&M CARD	-	DS7646750000	947	\$1,971.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE W/DUAL POWER SUPPLIES	-	DS3790020000	947	\$1,904.00

MEGAPLEX CBL CONVERT E&M INTRFACE 68-PIN SCSI CONN TO 8XRJ-45	-	DS000DAT0002	947	\$176.00
AIRMUX POE 100BASET/GE FOR AIRMUX- 5000 BASE STATION W/AC POWER	-	DS6260210000	947	\$90.00
RICI-4T1- FAST ETHERNET OVER 4 X T1 NETWORK TERMINATION UNIT	-	DS4670120000	947	\$1,404.00
MEGAPLEX 2104 E1/T1 MULTIPLEXER W/O MAIN LINK+ETH	-	DS7651140000	947	\$2,464.00
MIRICI GIGABIT ETHERNET TO E1/T1 (WAN) CONVERTER.	-	DS5130040000	947	\$828.00
SFP MM, 1310NM, UP TO 2KM, LC, 100BASEFX OR STM1	-	DS1278010000	947	\$118.00
MEGAPLEX SINGLE SLOT IO BLANK PANEL	-	DS7645530000	947	\$15.00
IPMUX-24 PWE, 1 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881190000	947	\$1,109.00
** USE DS1278180000** SFP SM, 1310NM, UP TO 40KM, LC, GBE, DDM	-	DS1278080000	947	\$355.00
IPMUX-1E 4E&M PORTS, 1-LC SM FIBER WAN PORT,10/100BT USER ETHERNET,AC	-	DS1152030000	947	\$3,191.00
VMUX COMPRESSED VOICE GATEWAY AC POWER, 8 E&M CHANNELS	-	DS1850340000	947	\$2,710.00

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Radio Rental

Ordering Information

Executive Summary

Meeting a temporary need for additional radios

Whether it's providing increased traffic coverage for a convention, trade show, or civic event; crowd control for a sporting event; increased communication for a mining project; or emergency response for a disaster, sometimes you find yourself with the temporary need for additional radios. The Motorola Radio Rental program is flexible, cost effective, and helps you scale to meet those needs.

Easy, flexible and quick

Motorola Radio Rental program provides customers with the opportunity to rent Motorola two way subscriber units for either short term or long term use. Radios may be rented for as little as one week or as long as you need them. Prior to shipping, Motorola will program your radios to your requested frequencies, or will set to standard frequencies for you to program upon arrival. We begin processing your order immediately upon your request and, pending availability, your rental equipment can often be shipped overnight.

Equipment that augments your own network

Motorola's fleet of rental equipment includes

- VHF, UHF, 800/900 MHz SMARTNET®, SmartZone®, and Privacy Plus™
- Two-way portable and mobile radios
- Repeaters and iDEN units
- Full range of accessories

For more information, please review the [Solution Resource Guide](#).

Radio Rental is covered in the Technical Services brochure (RC-110-2000) available through [Literature Distribution Center \(LDC\)](#).

Features

- Increased flexibility of scheduling and operation
- Latest technology for affordable price
- Convenient process for
- Offers customer disaster response options without

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

[Radio Rental SOW](#)

Ordering Requirements

There are two ways in which Rentals can be ordered:

1. By calling Motorola Radio Rental at 1-888-736-8567, a Rental Sales Representative will answer all questions, help to design and implement the Rental solution. This product requires an authorized quotation.
2. Through the [Rental website](#). A Rental form needs to be completed then submitted. A Rental Sales Representative will answer all requests within 24 hours.
3. This product cannot be ordered directly through COF at this time.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

FCC Information

The use of these two-way radio units is approved and licensed by the Federal Communications Commission under Rule 90.75. Consequently, all radio usage must be in accordance with the F.C.C rules and regulations and are the sole responsibility of the user. Here are some general tips to follow:

1. Prior to any transmission, the user must monitor the channel to determine no other user is presently transmitting. If anyone is transmitting, do not transmit. Wait until their conversation has ended.
2. Confine radio transmissions for business purposes only. Keep conversations short in duration as other users may be licensed on the same frequency.
3. Use no profanity during any conversation. This is against the FCC rules and regulation and violation is subject to fines.
4. Suggested "10" codes for easy communications.
 - 10-4 Means OK, yes, I understand.
 - 10-20 What is your location?
 - 10-8 Unit in service and on the air.
 - 10-7 Unit out of service.
 - 10-19 Unit returning to base.
5. Your cooperation and adherence to these suggestions will provide better

use of the equipment.

Configuration

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SREN	SVC01SVC1301	RADIO RENTAL SERVICE	787	15

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Radio Software
Installation Service

Ordering Information

General Information

For more information, please review the [Solution Resource Guide](#).

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) for more details.
- **This product CANNOT be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

Ship Card

Data Not Available

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General Information

Regional Application Network

Regional Application Network deployment can support Push-To-Talk application and / or the Device Manager application in a regional configuration that connects to one or more agency networks.

In R3.0, there are 3 configurations for the Regional Application Network (RAPP Network).

1. Push-To-Talk Application Only in RAPP
2. Push-To-Talk Application and Device Manager Application in RAPP
3. Device Manager Application Only in RAPP

The following defines the networking hardware required in the RAPP network for each of the configurations.

CONFIGURATION 1: Push-To-Talk Application Only in RAPP

FIREWALL (Qty 2 required):

- Redundant configuration is standard; Quantity 2 of the following is required.
- This firewall interfaces from the RAPP to the Agency Network.

Fortinet 200B Firewall TT2589A

For pricing, please refer to the Fortinet 200B Firewall eCAT page:

Agency and Regional Applications Firewall

SWITCHES (Qty 2 required):

- Redundant configuration is standard; Quantity 2 of the following is required.
- Please select the type of switch that best meets customer requirements:
 - Brocade FCX 624 **or**
 - Brocade CES 2024 (supports MPLS)

Brocade FCX 624-E Switch TT2380

For pricing, please refer to the Brocade FCX 624 Switch eCAT page:

PTT L2/L3 Switch (AC Power)

Brocade CES 2024 Switch See Price Page for ordering details.

For pricing, please refer to the Brocade CES Switch eCAT page:

L2/L3 Aggregation Switch/Router (copper)

L2/L3 Aggregation Switch/Router (fiber)

CONFIGURATION 2: Push-To-Talk Application and Device Manager in RAPP

CONFIGURATION 3: Device Manager Application Only in RAPP

The required RAPP networking equipment is the SAME for Configuration # 2 and Configuration #3, as described below:

FIREWALL (Qty 2 required):

- Redundant configuration is standard; Quantity 2 of the following is required.
- This firewall interfaces from the RAPP to the Agency Network.

Fortinet 200B Firewall TT2589A

For pricing, please refer to the Fortinet 200B Firewall eCAT page:

Agency and Regional Applications Firewall

FIREWALL (Qty 2 required):

- Redundant configuration is standard; Quantity 2 of the following is required.
- This firewall interfaces from the RAPP to the Verizon Network.
- A separate Firewall is required for information integrity because the RAPP network is directly connected to Verizon network for Device Manager communication to devices on VzW.

Fortinet 200B Firewall TT2589A

For pricing, please refer to the Fortinet 200B Firewall eCAT page:

Agency and Regional Applications Firewall

SWITCHES (Qty 2 required):

- Redundant configuration is standard; Quantity 2 of the following is required.
- These switches are required from the RAPP to Agency Network.
- Please select the type of switch that best meets customer requirements:
 - Brocade FCX 624 **or**
 - Brocade CES 2024 (supports MPLS)

Brocade FCX 624-E Switch TT2380

For pricing, please refer to the Brocade FCX 624 Switch eCAT page:

PTT L2/L3 Switch (AC Power)

Brocade CES 2024 Switch See Price Page for ordering details.

For pricing, please refer to the Brocade CES Switch eCAT page:

L2/L3 Aggregation Switch/Router (copper)

L2/L3 Aggregation Switch/Router (fiber)

Switches (Qty 2 required)

- Redundant configuration is standard; Quantity 2 of the following is required
- This switch/router interfaces from the RAPP to the Verizon Network
- A separate switch/router is required for information integrity because the RAPP network is directly connected to Verizon network for Device Manager communication to devices on VzW.

Brocade FCX 624-E Switch TT2380

For pricing, please refer to the Brocade FCX 624 Switch eCAT page:

PTT L2/L3 Switch (AC Power)

Switches (Qty 2 required)

- Redundant configuration is standard; Quantity 2 of the following is required
- This switch/router interfaces from the RAPP to the Verizon Network
- A separate switch/router is required for information integrity because the RAPP network is directly connected to Verizon network for Device Manager communication to devices on VzW.

Brocade BR6910 Switch TT2593

For pricing, please refer to the Brocade BR6910 Switch eCAT page:

eNodeB L2 Switch (AC/DC Power)

DNS / DHCP (Qty 2 required)

- Redundant configuration is standard; Quantity 2 of the following is required

DNS / DHCP (Adonis 800) TT2381

For pricing, please refer to the DNS / DHCP eCAT page:

EPC DNS/DHCP Appliance/NTP Server

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

Model

CODING INFORMATION REQUIRED ON PAGING ORDERS

Ordering Information

General Information

In order to enable orders for paging equipment to be processed without unnecessary delay, the following information must be provided via the area office:

1. **RF FREQUENCY REQUIREMENTS.** Although Paging encoders/terminals are not frequency sensitive, the system operating frequencies are required for proper customer file establishment, Code usage and record keeping. The RF frequency should be listed in the special instructions section of the STIC for the paging encoder/terminal.
2. **FREQUENCY CHANGES.** Since all information on paging systems is filed in the plant by RF frequency, the plant must be notified of any changes in these frequencies. If the plant is not notified, the customer 's particular system cannot be located in the records and orders for additional equipment will be put on hold and further information will be requested .
3. **MULTIPLE ENCODERS.** If more than one encoder is ordered for a new system, the order must state how they are to be coded. Are the encoders to be coded alike or are they to carry separate sets of codes?
4. **ADDITIONAL ENCODERS.** Whenever additional encoders are ordered for an existing system, the order must specify whether the new encod- ers are to be coded the same as those existing or whether new sets of codes are to be assigned.
5. **CUSTOMERS SERVICED BY COMMON CARRIERS.** Orders from customers who receive service from COM- MON CARRIERS must include the codes for the pagers ordered. In addition, the COMMON CARRIERS name must be specified.
6. **EXPANSION KITS.** The plant must be notified whenever encoder expansion kits are ordered from the Parts Department and field in- stalled. Without this information the plant is unaware that system capacity has increased.
7. **BINARY GOLAY SEQUENTIAL CODES (GSC)** Plant will assign codes on new systems. For compatibility with existing systems consult your Area

Systems Engineering Office.

SP REQUIREMENTS

Contact your Area Systems Engineering Office for availability, price and delivery of any nonstandard paging encoders, terminals, systems, or code plans.

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

Model

CommandCentral Aware Alerts

General

CommandCentral Aware provides a complete operating picture, integrating real-time intelligence in the command center to remotely assist officers in the field. Simplify your operational view by consolidating your resources into one single pane of glass. Support officer safety by monitoring CAD incidents, responder location and real-time alerts. Alerts indicating a weapon draw, vest pierce or other emergency display the location and type of incident in real time on the consolidated map, helping dispatchers provide immediate support and improving officer and citizen safety.

MONITOR ACTIVITY FROM ANYWHERE

View all of your location-based data together, in real-time, on a single map display. This common operating picture can be accessed anywhere, from any internet-connected device.

ACT WITH THE NECESSARY CONTEXT

Communicate a more informed response to a critical incident and enhance responder safety for those in the field by accessing a common operating picture through CommandCentral Aware - directly from your agency's map.

COLLABORATE WITHOUT DISTRACTION

Control specific viewing permissions based on groups of users to ensure a focused response from every team member during a critical event. Filter your view to only the datasets you need in the moment.

Further information can be found [here](#).

RESPOND QUICKLY TO ESCALATING INCIDENTS

Aware Alerts automatically show the command center what's happening to officers during an incident, whether that be an emergency, weapon drawn, vest pierce, man down alerts, and more. Alerts showing the location and type of incident on the consolidated map help personnel enhance situational awareness and improve officer and citizen safety.

Features

- **Command Central Aware Mapping:** Alerts inherits all functionality and capability of the Command Central Aware Mapping offer. CommandCentral Aware automatically informs the command center that a situation has escalated, with alert type, location and user identification without further action by the officer
- **Weapon Draw Alert and Conducted Electrical Weapon (Stun Gun) Drawn Alert:** Sensors can be retrofitted to the most common holsters used and will send notifications when an officer un-holsters and re-holsters a weapon.
- **Weapon Fired Alert (Handguns Only):** This sensor can be retrofitted to certain handguns to send an alert that the weapon has been discharged. The sensor is located in the grip of the handgun.
- **Vehicle Impact Alert:** When a responder vehicle, equipped with APX mobile radios, experiences significant impact, an emergency alert will notify the command center of the situation and location.
- **Man Down Alert:** A man down emergency alert generated by all enabled APX portable radios appears as a notification when the radio is at an angle and there is no movement based on user parameters.
- **Vest Pierce Alert:** When a piercing event is detected, such as a shot or stab, an emergency alert is transmitted to notify command staff that a responder may be incapacitated and needs help. Insert sensors into existing body armor.

- **Si500 Contextual Activation:** Sensor activates Motorola Solutions' Si500 Video Speaker Microphone, a body-worn camera solution used for capturing, storing, and analyzing crucial video evidence, to start recording for post-event analysis.

Ordering Information

The solution provides mapping of responder location and alerts. This offer also includes Enhanced Data Network and IMW Software Upgrades. If users also have ASTRO 25 consoles MC7200 and MC7500 on their system, the alert will also be sent to the consoles.

On an ASTRO 25 system release of 7.18 or higher, the customer will differentiate the emergency event notification received. For example: If user pressed the orange emergency button, it will receive an emergency, but if emergency alert was activated from a vest pierced event, the console as well as CommandCentral Aware will be able to show vest pierced alert type and icon instead of emergency only.

Weapon Drawn, Conducted Electrical Weapon drawn and weapon fired alerts require sensors that are connected via Bluetooth Low Energy (BT LE) to a hub device (radio) Vest Pierce alert sensor connects to BT 2.1 capable radios. Vehicle Impact and Man Down are available within the APX 8500 mobile and APX subscribers respectively and do not require Bluetooth connectivity.

Data is sent from APX subscriber or mobile over ASTRO P25 Network to Command Central Aware.

	ASTRO
Network	ASTRO 7.16+
Data Capability	Enhanced Data
APX Radios	Radio Firmware required is 7.18.8 or beyond;. Vest Pierced is available on APX subscribers with Bluetooth Capabilities. Vehicle Impact is available on APX 8500 radios. Man Down is available on an APX model. Weapon Drawn, Conducted Electrical Weapon Drawn and Weapon Fired alerts is available on APX 6000BN or APX 8000.
Device Feature Set	APX P25 Radio w/ GPS, Standard BT or BT 4.0+, Enhanced Data
IMW services & Deployment	IMW 5.2.1
Application	Command Central Aware
Supported Weapons: Weapon Drawn Alert	Sig Sauer P226 (9mm, .4); P229 (9mm, .4), P320; S&W (9mm, .4); Glock 17,19,21,22,34 With these Safariland holster Models: Safariland 6280, 6360, 6390, 7360 and 7390
Supported Weapons: Conducted Electrical Weapon Drawn Alert	X26P and X2 (Taser) With these BlackHawk holster models: 22501, 22504 (X2); 11501, 11504 (X26P
Weapon Fired	Gen 4 Glocks 17, 22, 34 and 35
Vest pierced	All Vests. Isabel Paul will also work with third Party (SES) and Bid & Quote for sizing https://docs.google.com/document/d/1vcZ2hSuSCWPMXCtlyNlryXPEz-YrBL42ZqWDSCfGRVc/edit?usp=sharing

Service Offering

Software updates with technical support.

How to Order

Contact Isabel Paul for Quote. She will coordinate across CPQ, PCAT, and COF for quoting.

Aware Alerts

Description	Full Description	Nomenclature	APC	Price
Aware Alerts Subscription		SSV00S01442A	691	inc
Aware Mapping Subscription	Aware Mapping is a feature in Aware Alerts offer	SSV00S01441A	149	inc
RADIO SERVICES		SSV00S01371A	691	0
Connector: Motorola Solutions IMW		SSV00S01120A	149	\$0
IMW License Bundle		UA00640AA	206	\$0
Third Party Connectors	Refer to Connector Link	See List in Link	149	See List in Link

List of Third Party Connectors: <https://docs.google.com/spreadsheets/d/12LiBVc2RSzKwL1fSAdrYyzSRZniCMV6shVMDrq7SRLM/edit?usp=sharing>

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CLOUDCONNECT ON-PREMISE SERVER	-	SQM01SUM0307A	2	\$13,200.00

Optional Hardware

Description	Full Description	Nomenclature	APC	Price
Yardarm Weapon Fired Sensor	-	DSMS100800	232	568
Weapon Drawn Sensor - Right		PMLN7675A	232	240
Weapon Drawn Sensor - Left		PMLN7676A	232	240
Weapon Fired Sensor		TT3283A	232	568
Stun Gun Sensor		PMLN7848A	232	300
Vest Pierced Sensor LE		TT3421A	232	600

Vest Pierced Sensor LE Classic		TT3422A	232	600
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System Integration Services

Description	Full Description	Nomenclature	APC	Price
Engineering SI - Integration	SI Engineering	SI128AD	128	Calculated/ Custom
Project Mgmt SI – Integration	SI Project Mgmt	SI208AD	208	Calculated/ Custom
IV&D	SI Engineering	SI128AD	0128	Calculated
Capacity Analysis	SI Engineering	SI128AD	0128	Calculated

Software Conference

Description	Full Description	Nomenclature	APC	Price
SERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$975 for Year 1 then add 5% for each addl year
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,800 for Year 1 then add 5% for each addl year

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

RF POWER MONITOR

This page contains information from MSi preferred vendors, including DBSPECTRA, RFI, and TXRX/COMBILENT, and BIRD..

If you want to use equipment from a non preferred vendor, you must go through the Exception Request process (see link to form below).

EXCEPTION REQUEST LINK URL: https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For general ordering and vendor information, contact the product planner [Tim Martin](#).

For technical assistance contact the lead RF engineer, [Gary Owens](#).

For information on DBSPECTRA products, go to the [DBSPECTRA](#) portal or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (972 841-4893).

For information on TXRX/COMBILENT products, go to the [TXRX](#) portal or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For information on RFI products go to the [RFI website](#) or contact [Sean Johnson](#) at 330-541-6585.

RFI POWER MONITORING GUIDE

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/RFI%20Advanced%20Power%20Monitor%20-%20Overview%20%26%20Applications.pdf

Configuration

COMBILENT PARTS

Description	Full Description	Nomenclature	APC	Price
FREQUENCY SELECTICE DPM UHF	COMBILENT - TXRX PART#: CP01109 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01109	457	\$3,450.00
FREQUENCY SELECTICE DPM 7/800 MHZ	COMBILENT - TXRX PART#: CP01110 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents	DSCP01110	457	\$3,450.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
ADVANCED POWER MONITOR, 132-174 MHZ, 36-60 V DC (INC SINGLE COUPLER)	RFI PART#: APM1317-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K248	457	\$5,253.00
ADVANCED POWER MONITOR, 132-174 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM1317-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K2AC	457	\$6,171.00
ADVANCED POWER MONITOR, 380-520 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2	457	\$5,870.00
ADVANCED POWER MONITOR, 380-520 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART # APM3852-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART #: APM7487-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART # APM7487-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM7487-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 380-520 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 870-960 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248	351	\$5,870.00

ADVANCED POWER MONITOR, 870-960 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2AC	351	\$6,000.00
UPLOADER SOFTWARE LICENSE FOR APM, SINGLE PC, 2 YEARS	RFI PART#: RUP-001 SPEC SHEET LINK: TBD	DSRUP001	457	\$1,150.00
RECEIVE SYSTEMS MONITOR, 36-60VDC	RFI PART#: RSM0000-48 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 48VDC APM'S	DSRSM000048	351	\$1,742.00
ADVANCED POWER MONITOR, 870-960 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2	351	\$5,870.00
ANT LINE COUPLER 380-550MHZ 40DB 4-PORTS SUIT APM3852 SERUES 750W 1 RU	RFI PART#: SP3855-4440-DFF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSSP38554440DFF1RU	351	\$805.00
ANT LINE COUPLER 130-180MHZ 40DB 4-PORTS SUIT APM1317 SERIES 750W 1RU	RFI PART#: SP1318-2440-DFF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSSP13182440DFF1RU	351	\$1,156.00
RECEIVE SYSTEMS MONITOR, 9-36VDC	RFI PART #: RSM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 110VAC & 12VDC APM'S	DSRSM0000	351	\$1,742.00
SITE ALARM MODULE, TEMPERATURE SENSOR, -67 TO +257 DEGREES F	RFI PART#: SAM0000-TS SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000TS	351	\$117.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 9-36VDC	RFI PART#: SAM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000	351	\$3,547.00
ANT LINE COUPLER 740-960MHZ 40DB 4-PORTS SUIT APM748 AND APM8796	RFI PART#: SP7496-4440-DFF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSSP74964440DFF1RU	351	\$706.00
	RFI PART#: APM1317-K248AC SPEC SHEET			

ADVANCED POWER MONITOR 132-174MHZ 36-60VDC/110-240VAC	LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K248AC	457	\$6,171.00
ADVANCED POWER MONITOR 380-520MHZ 36-60VDC/110-240VAC	RFI PART#: APM3852-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 740-870MHZ 36-60VDC/110-240VAC	RFI PART#: APM7487-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 870-960MHZ 36-60VDC/110-240VAC	RFI PART#: APM8796-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248AC	351	\$6,000.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 36-60VDC	RFI PART#: SAM0000-48 \ SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSSAM000048	351	\$3,546.00
DIRECTIONAL COUPLER, 698-2700MHZ, 10DB, 3 PORTS, PIM RATED, N CONNECTO	DBSPECTRA PART#: SP6927-2310-11 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927231011	457	\$151.00
DIRECTIONAL COUPLER, 698-2700MHZ, 20DB, 3 PORTS, PIM RATED, N CONNECT	DBSPECTRA PART#: SP6927-2320-11 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927232011	457	\$153.00
POWER SUPPLY	RFI PART#: APM0000USAC SPEC SHEET LINK: TBD	DSAPM0000USAC	351	\$195.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ADFAC	457	\$3,623.00
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ADFDC	457	\$3,623.00

138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ANFAC	457	\$3,508.00
138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ANFDC	457	\$3,623.00
UHF POWER MONITOR (AC MODEL) BIDIRECTIONAL, 350 - 512 MHZ, 2 RU PANEL	DPSPECTRA PART#: DSXPM5B-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BDFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BDFDC	457	\$3,623.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5B-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BNFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BNFDC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5C-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CDFAC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DPSPECTRA PART#: DSXPM5C-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CDFDC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5C-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CNFAC	457	\$3,508.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DPSPECTRA PART#: DSXPM5C-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298.A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CNFDC	457	\$3,623.00

138-150 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA1DDC	457	\$3,623.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMA2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DAC	457	\$3,508.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DDC	457	\$3,623.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DAC	457	\$3,508.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DDC	457	\$3,623.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DAC	457	\$3,508.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DDC	457	\$3,623.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DAC	457	\$3,508.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DDC	457	\$3,623.00
763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DAC	457	\$3,508.00
	DBSPECTRA PART#: DSCHPMC1DDC SPEC			

763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DDC	457	\$3,623.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DAC	457	\$3,508.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DDC	457	\$3,623.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DAC	457	\$3,508.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DDC	457	\$3,623.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	BEC	DS3141	CHANNEL POWER MONITOR - 16 CHANNEL	457	20
QUOTEDS	BEC	DS404214305050201	SENSOR RECEIVER 100 - 1000 MHZ, 500W, RJ25, N (M) - N (F)	457	20
QUOTEDS	BEC	DS404314405050201	DIRECTIONAL POWER SENSOR 144-174 MHZ, 500W RJ25, N(M) - N(F)	457	20
QUOTEDS	BEC	DS404314405050403	DIRECTIONAL POWER SENSOR 144-174 MHZ, 500W, RJ25	457	30
QUOTEDS	TXR	DS404314505050201	DIRECTIONAL POWER SENSOR 380-420 MHZ, 500W RJ25, N(M) - N(F)	457	20
			DIRECTIONAL POWER SENSOR 450 - 512 MHZ, 500W RJ25,		

QUOTEDS	BEC	DS404314605050201	N(M) - N(F)	457	91
QUOTEDS	BEC	DS404314605050403	DIRECTIONAL POWER SENSOR 450-512 MHZ, 500W, RJ25	457	20
QUOTEDS	BEC	DS404314705050201	DIRECTIONAL POWER SENSOR 762-806 MHZ, 500W RJ25, N(M) - N(F)	457	20
QUOTEDS	BEC	DS404314805050201	DIRECTIONAL POWER SENSOR, 806-869MHZ, 500W	457	91
QUOTEDS	BEC	DS404314905050201	DIRECTIONAL POWER SENSOR 896-940 MHZ, 500W RJ25, N(M) - N(F)	457	20
QUOTEDS	TXR	DS404414304040201	NON-DIR POWER SENSOR 100-1000 MHZ, 100W RJ25, N(M), N(F)	457	20
QUOTEDS	BEC	DS404414404040201	NON-DIR POWER SENSOR 144-174 MHZ, 100W, RJ25, N(M) - N(F)	457	20
QUOTEDS	BEC	DS404414604040201	NON-DIRECTIONAL POWER SENSOR, 450-512 MHZ, 100W, RJ25, N (M) - N (F)	457	20
QUOTEDS	TXR	DSACM500MDMDFNH	ANTENNA AND CABLE MONITOR 500 W, 470-960 MHZ	351	15
QUOTEDS	RFA	DSAPM0000USAC	POWER SUPPLY	351	15
QUOTEDS	RFA	DSAPM1317K248	ADVANCED POWER MONITOR, 132-174 MHZ, 36-60 V DC (INC SINGLE COUPLER)	457	30
QUOTEDS	RFA	DSAPM1317K248AC	ADVANCED POWER MONITOR 132-174MHZ 36-60VDC/110- 240VAC	457	20
QUOTEDS	RFA	DSAPM1317K2AC	ADVANCED POWER MONITOR, 132-174 MHZ, 90-246V AC (INC SINGLE COUPLER)	457	20
QUOTEDS	RFA	DSAPM3852K2	ADVANCED POWER MONITOR, 380-520 MHZ, 9-36V DC (INC SINGLE COUPLER)	457	20
QUOTEDS	RFA	DSAPM3852K248	ADVANCED POWER MONITOR, 380-520 MHZ, 36-60V DC (INC SINGLE COUPLER)	351	30
QUOTEDS	RFA	DSAPM3852K248AC	ADVANCED POWER MONITOR 380-520MHZ 36-60VDC/110- 240VAC	351	20
QUOTEDS	RFA	DSAPM3852K2AC	ADVANCED POWER MONITOR, 380-520 MHZ, 90-246V AC (INC SINGLE COUPLER)	351	20
			ADVANCED POWER MONITOR, 740-870 MHZ, 9-36V DC (INC		

QUOTEDS	RFA	DSAPM7487K2	SINGLE COUPLER)	351	20
QUOTEDS	RFA	DSAPM7487K248	ADVANCED POWER MONITOR, 740-870 MHZ, 36-60V DC (INC SINGLE COUPLER)	351	30
QUOTEDS	RFA	DSAPM7487K248AC	ADVANCED POWER MONITOR 740-870MHZ 36-60VDC/110-240VAC	351	20
QUOTEDS	RFA	DSAPM7487K2AC	ADVANCED POWER MONITOR, 740-870 MHZ, 90-246V AC (INC SINGLE COUPLER)	351	20
QUOTEDS	RFA	DSAPM8796K2	ADVANCED POWER MONITOR, 870-960 MHZ, 9-36V DC (INC SINGLE COUPLER)	351	20
QUOTEDS	RFA	DSAPM8796K248	ADVANCED POWER MONITOR, 870-960 MHZ, 36-60V DC (INC SINGLE COUPLER)	351	30
QUOTEDS	RFA	DSAPM8796K248AC	ADVANCED POWER MONITOR 870-960MHZ 36-60VDC/110-240VAC	351	30
QUOTEDS	RFA	DSAPM8796K2AC	ADVANCED POWER MONITOR, 870-960 MHZ, 90-246V AC (INC SINGLE COUPLER)	351	20
QUOTEDS	TXR	DSCP01109	FREQUENCY SELECTICE DPM UHF	457	30
QUOTEDS	CBN	DSCP01110	FREQUENCY SELECTICE DPM 7/800 MHZ	457	30
QUOTEDS	DBP	DSDSCHPMA1DAC	138-150 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMA1DDC	138-150 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMA2DAC	150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMA2DDC	150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMB1DAC	380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMB1DDC	380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMB2DAC	430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25

QUOTEDS	DBP	DSDSCHPMB2DDC	430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMB3DAC	470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMB3DDC	470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMC1DAC	763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMC1DDC	763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMC2DAC	851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMC2DDC	851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSCHPMC3DAC	935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	457	25
QUOTEDS	DBP	DSDSCHPMC3DDC	935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	457	25
QUOTEDS	DBP	DSDSXP5ADFAC	138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	457	25
QUOTEDS	DBP	DSDSXP5ADFDC	138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	457	25
QUOTEDS	DBP	DSDSXP5ANFAC	138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	457	25
QUOTEDS	DBP	DSDSXP5ANFDC	138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	457	25
QUOTEDS	DBP	DSDSXP5BDFAC	UHF POWER MONITOR (AC MODEL) BIDIRECTIONAL, 350 - 512 MHZ, 2 RU PANEL	457	25
QUOTEDS	DBP	DSDSXP5BDFDC	350-512MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	457	25
QUOTEDS	DBP	DSDSXP5BNFAC	350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	457	25

QUOTEDS	DBP	DSDSXPM5BNFDC	350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	457	25
QUOTEDS	DBP	DSDSXPM5CDFAC	746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	457	25
QUOTEDS	DBP	DSDSXPM5CDFDC	746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	457	25
QUOTEDS	DBP	DSDSXPM5CNFAC	746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	457	25
QUOTEDS	DBP	DSDSXPM5CNFDC	746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	457	25
QUOTEDS	RFA	DSRSM0000	RECEIVE SYSTEMS MONITOR, 9-36VDC	351	20
QUOTEDS	RFA	DSRSM000048	RECEIVE SYSTEMS MONITOR, 36-60VDC	351	20
QUOTEDS	RFA	DSRUP001	UPLOADER SOFTWARE LICENSE FOR APM, SINGLE PC, 2 YEARS	457	5
QUOTEDS	RFA	DSSAM0000	SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 9-36VDC	351	40
QUOTEDS	RFA	DSSAM000048	SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 36-60VDC	351	40
QUOTEDS	RFA	DSSAM0000TS	SITE ALARM MODULE, TEMPERATURE SENSOR, -67 TO +257 DEGREES F	351	20
QUOTEDS	BEC	DSSH42STC	SIGNALHAWK HANDHELD SPECTRUM ANALYZER	457	20
QUOTEDS	BEC	DSSK6000TC	SITEHAWK LINE & ANTENNA TESTER	457	20
QUOTEDS	RFA	DSSP13182440DFF1RU	ANT LINE COUPLER 130-180MHZ 40DB 4-PORTS SUIT APM1317 SERIES 750W 1RU	351	20
QUOTEDS	RFA	DSSP38554440DFF1RU	ANT LINE COUPLER 380-550MHZ 40DB 4-PORTS SUIT APM3852 SERUES 750W 1 RU	351	20
QUOTEDS	RFA	DSSP6927231011	DIRECTIONAL COUPLER, 698-2700MHZ, 10DB, 3 PORTS, PIM RATED, N CONNECTO	457	30
QUOTEDS	RFA	DSSP6927232011	DIRECTIONAL COUPLER, 698-2700MHZ, 20DB, 3 PORTS, PIM RATED, N CONNECT	457	30

QUOTEDS	RFA	DSSP74964440DFF1RU	ANT LINE COUPLER 740-960MHZ 40DB 4-PORTS SUIT APM748 AND APM8796	351	20
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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

eNodeB Battery Backup

Ordering Information

General Information

Battery backups pair up in AC or DC configurations, based on the RBS characteristics and selection, as well as the attainable backup time, based on the operator's requirements.

The battery backup systems provide the AC powered eNodeBs with backup power, in case the AC main supply is lost. They come in two categories:

- A separate cabinet standing side-by-side with the eNodeB cabinet for both indoor and outdoor deployments; this type of battery option is often referred to as BBS (Battery Backup in Separate cabinet).
- A cabinet that goes underneath of the eNodeB cabinet for both indoor or outdoor deployments; this type of battery backup is often referred to as BBU (Battery Backup for Underneath deployment).

The underneath battery backup option saves valuable floor space. The footprint area of the underneath cabinet matches that of the corresponding eNodeB cabinet.

Depending on the backup time requirements and the quality of the AC mains electricity grid, alternative battery types and sizes are available for order, including an in-cabinet option for specific enclosures.

Note that for outdoor configurations, BBS/BBU battery blocks are charged with -48V by the eNB (RBS) rectifiers. Therefore, when ordering a BBU/BBS, an AC eNodeB should be selected.

For indoor configurations, BBS/BBU solutions need to be custom quoted--please contact product management.

Table 1 depicts a summary of available enclosures or BB with RRUs with which battery backup solutions can be paired.

Enclosure	Power Option	Battery Option	Available Capacity (Ah)	Battery Type	Max # of Strings
OUTDOOR:					
6101	AC	BBU6101	100 Ah	Lead acid	1

			180 Ah	Lead Acid	1
	AC	In Cabinet Battery	100 Ah	Lead Acid	1
	AC	BBS6101	100 Ah	Lead Acid	3
		BBS6101	180 Ah	Lead Acid	3
6135	AC	BBS05	100 Ah	Lead Acid	2
6301	AC	BBS6301	100 Ah	Lead Acid	1

TABLE -1 Battery Backup Solutions for RBS Enclosures or Self-Contained Basebands

Configuration

Ordering Requirements

Outdoor AC Configurations

RBS6101:

BBU6101. Order Quantity 1 per site.

Description	Full Description	Nomenclature	APC	Price
BBU 6101	-	DDN2456	051	\$9,500.00

One string possible for BBU6101 from the below. Order Quantity 1 of either 100 Ah or 180 Ah per site.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	051	\$1,510.00

BATTERY KIT 180AH	-	DDN2466	051	\$2,380.00
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In-cabinet battery for RBS6101. Order Quantity 1 per site:

One string possible for In-cabinet battery for RBS6101. Order Quantity 1 per site.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	051	\$1,510.00

BBS6101

Description	Full Description	Nomenclature	APC	Price
BBS 6101	-	DDN2454	051	\$9,580.00

Up to three strings possible from the below for BBS6101. Order Quantity 1-3 based on the number of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	051	\$1,510.00
BATTERY KIT 180AH	-	DDN2466	051	\$2,380.00

Power 6135

BBS05 with ground mounting kit

Description	Full Description	Nomenclature	APC	Price
BBS05	-	DDN2460	051	\$2,560.00

Up to two strings possible from the below for BBX05. Order Quantity 1-2 based on the # of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	051	\$1,510.00

RBS6301:

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Description	Full Description	Nomenclature	APC	Price
BBS 6301	-	DDN2458	051	\$7,090.00

Up to one string possible from the below for BBS6301. Order Quantity 1, based on the number of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	051	\$1,510.00

Wall mount kit option. Order Quantity 1 per site, depending on mounting option selected for RBS6301.

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	051	\$640.00

Ground base frame option. Order Quantity 1 per site, depending on mounting option selected for RBS6301.

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	051	\$400.00

Indoor DC Configurations

BB6620 with RRUs

Contact product management for with backup battery requirements.

Ship Card

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Product					Lead
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Type	FC	Nomenclature	Description	APC	Time
QUOTEDS	ERS	DDN2401	WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	051	80
QUOTEDS	ERS	DDN2402	GENERIC BASE FRAME FOR RBS 6301 AND	051	80
QUOTEDS	ERS	DDN2454	BBS 6101	051	80
QUOTEDS	ERS	DDN2455	BBS 6201	051	80
QUOTEDS	ERS	DDN2456	BBU 6101	051	80
QUOTEDS	ERS	DDN2457	BBU 6201	051	80
QUOTEDS	ERS	DDN2458	BBS 6301	051	80
QUOTEDS	ERS	DDN2460	BBS05	051	80
QUOTEDS	ERS	DDN2461	RBS 6201 INTERNAL BATTERY OPTION	051	80
QUOTEDS	ERS	DDN2465	BATTERY KIT 100AH	051	80
QUOTEDS	ERS	DDN2466	BATTERY KIT 180AH	051	80
QUOTEDS	ERS	DDN2467	PBC6200 10,8KW 180AH	051	80
QUOTEDS	ERS	DDN2468	PBC6200 10,8KW 360AH	051	80
QUOTEDS	ERS	DDN2469	PBC6200 10,8KW 540A	051	80
QUOTEDS	ERS	DDN2470	PBC6200 10,8KW 720AH	051	80

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[RF 1-1/4" CABLES AND ACCESSORIES](#)

RF 1-1/4" CABLES AND ACCESSORIES

This page contains information on products from MSI Preferred vendors, including Eupen, Trilogy, and Commscope.

For product information from non preferred vendors contact the vendor directly.

CONTACT INFORMATION

For internal technical assistance contact Gary Owens at garyowens@motorolasolutions.com or 330-541-6585.

For ordering/product information contact the Product Planner, Tim Martin, at tim.martin@motorolasolutions.com or 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact Aaron Wilson at awilson@eupen.us or 501-605-2341.

For information on Trilogy products see the Trilogy website or contact [Edmund Lee](#) at elee@trilogyrf.com or 601-667-9133.

For information on Commscope products see the [Commscope website](#) or contact Debra Kollman at Debra.kollman@commscope.com or 779-435-6192.

EUPEN TRAINING VIDEO - See link below for a video about the Eupen products on this page.

<https://www.youtube.com/watch?v=nFXC4zY73mw&feature=youtu.be>

Commscope Product Guide - Click on the below link for more information on Commscope Cable products.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

TRILOGY Below is a link to a pdf file with more parts information (download the document after clicking on the link). Additionally, there is a link to a You Tube video on how to add connectors to Trilogy products.

[TRILOGY 1 1/4 INCH CONNECTOR INSTALLATION INTRUCTIONS pdf](#)

https://www.youtube.com/watch?time_continue=56&v=JQ-fpR74LK0

Configuration

EUPEN 1-1/4 CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650A	DSEC650A	351	\$6.90
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650AHLFR	DSEC650AHLFR	351	\$10.00

EUPEN 1-1/4 CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V114N1	DS716F50V114N1	351	\$106.00
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V114N1	DS716M50V114N1	351	\$106.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NF50V114N1	DSNF50V114N1	351	\$109.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NM50V114M	DSNM50V114M	351	\$109.00

EUPEN 1-1/4 CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
1 1/4" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F114	DSF114	351	\$580.00
TORQUE WRENCH FOR BACK NUT 1 1/4" CONNECTORS	EUPEN PART#: TQ11116F29	DSTQ11116F29	351	\$270.00

GROUND KIT PREP TOOL FOR 1 1/4" FOAM COAX CABLE	EUPEN PART#: GKTEC6	DSGKTEC6	351	\$270.00
7/16 DIN TORQUE WRENCH	EUPEN PART#:	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
AT114J50, 1- 1/4" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT114J50	DSAT114J50	351	\$13.50
1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT114FX50	DSAT114FX50	351	\$8.55
1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT114FV50	DSAT114FV50	351	\$8.95
1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT114R50	DSAT114R50	351	\$9.75
AR114J50, 1-1/4" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AR114J50	DSAR114J50	351	\$10.75
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON- HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114FX50	DSAR114FX50	351	\$16.25
1-1/4 RADIATING, 50 OHM, LOW-SMOKE, NON-	TRILOGY PART#:	DSAR114FV50	351	\$18.25

HALOGENATED	AR114FV50			
1-1/4 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114R50	DSAR114R50	351	\$20.25
1-1/4 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR114FV50-2C	DSAR114FV502C	351	\$19.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
NMA11450, N MALE FOR 1-1/4" CABLE	TRILOGY PART#: NMA11450	DSNMA11450	351	\$202.00
NFA11450, N FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: NFA11450	DSNFA11450	351	\$182.00
DMA11450, 7/16 DIN MALE FOR 1-1/4" CABLE	TRILOGY PART#: DMA11450	DSDMA11450	351	\$202.00
DFA11450, 7/16 DIN FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: DFA11450	DSDFA11450	351	\$201.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT11450P, POWER PREP TOOL FOR 1-1/4" CABLE	TRILOGY PART#: CT11450P	DSCT11450P	351	\$798.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114/158RB/3PK	DSCT114158RB3PK	351	\$420.00

COMMSCOPE 1-1/4 CABLES

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Description	Full Description	Nomenclature	APC
AVA6-50, HELIAX ANDREW VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER,	COMMSCOPE PART#: AVA6RK-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=17544&q=AVA6RK-50&sayt=1	DSAVA6RK50	351
CABLE: 1-1/4" AVA6-50, COAX CORRUG COPPER, BLACK PE JACKET	COMMSCOPE PART#: AVA6-50	DSAVA650	351

COMMSCOPE 1-1/4 CABLE CONNECTORS

Description	Full Description	Nomenclature	APC
114EZ DIN FEMALE CONNECTOR	COMMSCOPE PART#: 114EZDF SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16102&q=114EZDF&sayt=1	DS114EZDF	351
114EZDF DIN MALE CONNECTOR	COMMSCOPE PART#: 114EZDM SPEC SHEET LINK: https://www.commscope.com/SiteSearch/?q=114EZDM	DS114EZDM	351
TYPE N FEMALE FOR 1-1/4 IN FXL1480 AND AVA6-50 CABLE	COMMSCOPE PART#: 114EZNF SPEC SHEET LINK: https://www.commscope.com/SiteSearch/?q=114EZNF&sayt=1	DS114EZNF	351
114EZNM TYPE N MALE FOR 1- 1/4 IN FXL1480 AND AVA6-50 CABLE	COMMSCOPE PART#: 114EZNM SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16259&q=114EZNM&sayt=1	DS114EZNM	351

COMMSCOPE 1-1/4 CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC
EZFIT AUTOMATED CABLE PREPARATION TOOL FOR AVA6-50 COAXIAL CABLE	COMMSCOPE PART#: A6-EZPT SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=17641	DSA6EZPT	351
TORQUE WRENCH FOR 1-1/4IN EZFIT CONNECTOR	COMMSCOPE PART#: TW-114-EZFC SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=17602&q=TW-114-EZFC&sayt=1	DSTW114EZFC	351
ALUMINUM GROUNDING KIT PREPARATION TOOL FOR 1- 1/4 IN CORRUGATED CABLE	COMMSCOPE PART#: SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=17335&q=GKT-114SG&sayt=1	DSGKT114SG	351
244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE PART#: 244377 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13305&q=244377&sayt=1	DS244377	351
244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13307&q=244379&sayt=1	DS244379	351
TORQUE WRENCH FOR COUPLING	COMMSCOPE PART#: TW-4310 SPEC SHEET LINK:		

TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351
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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS114EZDF	114EZ DIN FEMALE CONNECTOR	351	32
QUOTEDS	ANC	DS114EZDM	114EZDF DIN MALE CONNECTOR	351	10
QUOTEDS	ANC	DS114EZN	TYPE N FEMALE FOR 1-1/4 IN FXL1480 AND AVA6-50 CABLE	351	14
QUOTEDS	ANC	DS114EZNM	114EZNM TYPE N MALE FOR 1-1/4 IN FXL1480 AND AVA6-50 CABLE	351	14
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351	20
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351	15
QUOTEDS	EPN	DS716F50V114N1	CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	351	5
QUOTEDS	EPN	DS716M50V114N1	CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	351	5

QUOTEDS	ANC	DSA6EZPT	EZFIT AUTOMATED CABLE PREPARATION TOOL FOR AVA6-50 COAXIAL CABLE	351	15
QUOTEDS	TRJ	DSAR114FV50	1-1/4 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	10
QUOTEDS	TRJ	DSAR114FV502C	1-1/4 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	351	10
QUOTEDS	TRJ	DSAR114FX50	1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	351	10
QUOTEDS	TRJ	DSAR114J50	AR114J50, 1-1/4" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	351	21
QUOTEDS	TRJ	DSAR114R50	1-1/4 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	351	10
QUOTEDS	TRJ	DSAT114FV50	1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2
QUOTEDS	TRJ	DSAT114FX50	1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2
QUOTEDS	TRJ	DSAT114J50	AT114J50, 1-1/4"TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	351	14
QUOTEDS	TRJ	DSAT114R50	1-1/4 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2

QUOTEDS	ANC	DSAVA650	CABLE: 1-1/4" AVA6-50, COAX CORRUG COPPER, BLACK PE JACKET	351	10
QUOTEDS	ANC	DSAVA6RK50	AVA6-50, HELIAX ANDREW VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER,	351	10
QUOTEDS	TRJ	DSCT114158RB3PK	REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	351	5
QUOTEDS	TRJ	DSCT11450P	CT11450P, POWER PREP TOOL FOR 1-1/4" CABLE	351	3
QUOTEDS	TRJ	DSDFA11450	DFA11450, 7/16 DIN FEMALE FOR 1-1/4" CABLE	351	3
QUOTEDS	TRJ	DSDMA11450	DMA11450, 7/16 DIN MALE FOR 1-1/4" CABLE	351	3
QUOTEDS	EPN	DSEC650A	COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	351	5
QUOTEDS	EPN	DSEC650AHLFR	COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	351	5
QUOTEDS	EPN	DSF114	1 1/4" DRILL MOUNTED CABLE PREP TOOL	351	5
QUOTEDS	ANC	DSGKT114SG	ALUMINUM GROUNDING KIT PREPARATION TOOL FOR 1-1/4 IN CORRUGATED CABLE	351	15
QUOTEDS	EPN	DSGKTEC6	GROUND KIT PREP TOOL FOR 1 1/4" FOAM COAX CABLE	351	5
QUOTEDS	EPN	DSNF50V114N1	CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	351	5

			FOR EC6-50-A		
QUOTEDS	TRJ	DSNFA11450	NFA11450, N FEMALE FOR 1-1/4" CABLE	351	5
QUOTEDS	EPN	DSNM50V114M	CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	351	5
QUOTEDS	TRJ	DSNMA11450	NMA11450, N MALE FOR 1-1/4" CABLE	351	8
QUOTEDS	EPN	DSTQ11116F29	TORQUE WRENCH FOR BACK NUT 1 1/4" CONNECTORS	351	5
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351	5
QUOTEDS	ANC	DSTW114EZFC	TORQUE WRENCH FOR 1-1/4IN EZFIT CONNECTOR	351	20
QUOTEDS	ANC	DSTW4310	TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	351	15
QUOTEDS	ANC	L3599	AVA6-50 CABLE: 1-1/4" AVA6-50, COAX CORRUG COPPER, BLACK PE JACKET	351	10

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JUMP TO ...

[RF 1/2" CABLES AND ACCESSORIES](#)

RF 1/2" CABLES AND ACCESSORIES

This page contains information on products from MSI Preferred vendors, including Eupen, Trilogy, and Commscope.

For product information from non preferred vendors contact the vendor directly.

CONTACT INFORMATION

For internal technical assistance contact Gary Owens at garyowens@motorolasolutions.com or 330-541-6585.

For ordering/product information contact the Product Planner, Tim Martin, at tim.martin@motorolasolutions.com or 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact Aaron Wilson at awilson@eupen.us or 501-605-2341.

For information on Trilogy products see the Trilogy website or contact [Edmund Lee](#) at elee@trilogyrf.com or 601-667-9133.

For information on Commscope products see the [Commscope website](#) or contact Debra Kollman at Debra.kollman@commscope.com or 779-435-6192.

EUPEN TRAINING VIDEO - See link below for a video about the Eupen products on this page.

<https://www.youtube.com/watch?v=H9-Sxka2v58&feature=youtu.be>

Commscope Product Guide - Click on the below link for more information on Commscope Cable products. Download the link from the menu after clicking on the link.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

TRILOGY Below is a link to a pdf file with more parts information (download the document after clicking on the link). Additionally, there is a link to a You Tube video on how to add connectors to Trilogy products.

[TRILOGY 1/2 INCH CONNECTOR INSTALLATION INTRUCTIONS pdf](#)

https://www.youtube.com/watch?time_continue=56&v=JQ-fpR74LK0

Configuration

EUPEN 1/2" STANDARD AND HI-FLEX CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC450	DSEC450	351	\$2.10
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450PL	DSEC450PL	351	\$3.10
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450HLFR	DSEC450HLFR	351	\$2.75
COAXIAL CABLE, 1/2" HIFLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC450HF	DSEC450HF	351	\$2.40
COAXIAL CABLE, 1/2" HIFLEX, 50 OHM CORRUGATED COPPER	EUPEN PART#: EC450HFHLFR	DSEC450HFHLFR	351	\$3.55

EUPEN 1/2" STANDARD AND HI-FLEX CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50	EUPEN PART# 716F50V12N1	DS716F50V12N1	351	\$24.50
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	EUPEN PART#: 716M50V12N1	DS716M50V12N1	351	\$24.50
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	EUPEN PART#: NF50V12	DSNF50V12	351	\$24.50
CONNECTOR, N MALE	EUPEN PART#:	DSNM50V12	351	\$24.50

INTERFACE FOR EC4-50	NM50V12			
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC4-50	EUPEN PART#: 4310F50V12N1	DS4310F50V12N1	351	\$27.00
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50	EUPEN PART#: 4310M50V12N1	DS4310M50V12N1	351	\$27.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: 716M50VL12	DS716M50VL12	351	\$44.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: NM50VL12	DSNM50VL12	351	\$44.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716F50B12X	DS716F50B12X	351	\$29.25
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50B12X	DS716M50B12X	351	\$29.25
CONNECTOR, N FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NF50B12X	DSNF50B12X	351	\$29.25
CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NM50B12X	DSNM50B12X	351	\$29.25
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 4310M50B12X	DS4310M50B12X	351	\$32.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50BL12X	DS716M50BL12X	351	\$47.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: NM50BL12X	DSNM50BL12X	351	\$47.00

EUPEN 1/2" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/2" STANDARD CONNECTORS	EUPEN PART#: SPTC50AV12	DSSPTC50AV12	351	\$260.00
CONNECTORS PREP TOOL FOR 1/2" STANDARD CONNECTORS, PLENUM CABLE	EUPEN PART#: SPTC50AV12F	DSSPTC50AV12F	351	\$540.00
TORQUE WRENCH BACK NUT 1/2" STANDARD AND HIFLEX CONNECTORS	EUPEN PART#: TQ34F20	DSTQ34F20	351	\$220.00
GROUND KIT PREP TOOL FOR 1/2" STANDARD FOAM COAX CABLE	EUPEN PART#: GKTEC4	DSGKTEC4	351	\$230.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CABLES

Description	Full Description	Nomenclature	APC	
AT012J50, 1/2" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT012J50	DSAT012J50	351	
AT012J50, 1/2IN TRANSMISSION LINE, 50OHM, FIRE RETARDANT PER FT	TRILOGY PART#: AT012FX50	DSAT012FX50	351	

1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012FV50	DSAT012FV50	351
1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012R50	DSAT012R50	351
AP6012J50, 1/2"PLENUM, 50OHM, CORRUG(6GHZ), JCKTED UL- 910,CATVP PER FT	TRILOGY PART#:AP6012J50	DSAP6012J50	351
1/2" RED PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP,	TRILOGY PART#:AP6012J50- RD	DSAP6012J50RD	183
1/2" BLUE PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP,	TRILOGY PART#: AP6012J50-BU	DSAP6012J50BU	351
1/2" GRAY PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP	TRILOGY PART#: AP6012J50-GY	DSAP6012J50GY	351
AR012J50, 1/2" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AR012J50	DSAR012J50	351
1/2" RED PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED	TRILOGY PART#:APC012J50- RD	DSAPC012J50RD	351
1/2" PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP,	TRILOGY PART#:APC012J50	DSAPC012J50	351
AQ012J50, 1/2"PLENUM RADIATING,50OHM,CORRUG,JCKTED UL-910,CATVP PER FT	TRILOGY PART#:AQ012J50	DSAQ012J50	351
1/2 PLENUM RADIATING, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#: AQC012J50	DSAQC012J50	351
AP012U50, 1/2" CONDUIT CABLE, 50OHM, CORRUGATED, UL-444 PER	TRILOGY PART#:AP012U50	DSAP012U50	351

FT				
1/2" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR012FX50	DSAR012FX50	351	
1/2" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR012R50	DSAR012R50	351	
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, BLACK POLYETHYLENE JACKET	TRILOGY PART#:AC012J50	DSAC012J50	351	
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#:AC012R50	DSAC012R50	351	
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#:ACC012J50	DSACC012J50	351	
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW-SMOKE	TRILOGY PART#:ACC012R50	DSACC012R50	351	

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CONNECTORS

Description	Full Description	Nomenclature	APC	Price
N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NMA01250B	DSNMA01250B	351	\$35.25
N FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NFA01250B	DSNFA01250B	351	\$35.25
7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DMA01250B	DSDMA01250B	351	\$35.25
7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DFA01250B	DSDFA01250B	351	\$35.25

WITH CT01250AIO-2)				
4.3-10 MALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43MA01250B	DS43MA01250B	351	\$39.00
4.3-10 MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#:43MP01250-PIM	DS43MP01250PIM	351	\$40.00
4.3-10 FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#:43FP01250-PIM	DS43FP01250PIM	351	\$40.00
4.3-10 MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#:43MPR01250-PIM	DS43MPR01250PIM	351	\$62.00
DMP01250, DIN MALE FOR 1/2" CABLE	TRILOGY PART#:DMP01250	DSDMP01250	351	\$36.25
DIN MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#:DMP01250-PIM	DSDMP01250PIM	351	\$38.50
DFP01250, DIN FEMALE FOR 1/2" CABLE	TRILOGY PART#: DFP01250	DSDFP01250	351	\$36.25
DIN FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DFP01250-PIM	DSDFP01250PIM	351	\$38.50
DMPR01250, 1/2" DIN MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: DMPR01250	DSDMPR01250	351	\$57.00

DIN MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: DMPR01250-PIM	DSDMPR01250PIM	351	\$60.50
NMP01250, N MALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NMP01250	DSNMP01250	351	\$36.25
N MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: NMP01250-PIM	DSNMP01250PIM	351	\$38.50
NMPR01250, 1/2" N MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: NMPR01250	DSNMPR01250	351	\$57.00
N MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: NMPR01250-PIM	DSNMMPR01250PIM	351	\$60.50
NFP01250, N FEMALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NFP01250	DSNFP01250	351	\$36.25
N FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: NFP01250-PIM	DSNFP01250PIM	351	\$38.50

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT TOOLS AND WRENCHES

Description	Full Description	Nomenclature	APC	Price
CT01250AIO-2, PREP TOOL FOR 1/2" CABLE , 50 OHM	TRILOGY PART#: CT01250AIO-2	DSCT01250AIO2	351	\$476.00
PREP TOOL FOR 1/2" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT01250AIO	DSCT01250AIO	351	\$476.00

REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIO- 2RB/3PK	DSCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIORB/2PK	DSCTAIORB2PK	351	\$42.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRILOGY PART#: W-CU	DSWCU	351	\$231.00

Commscope 1/2 Cables

Description	Full Description	Nomenclature	APC
HL4RPV-50 1/2IN PLENUM AIR DI ELECTRIC 50 OHM COPPER	COMMSCOPE PART#: HL4RPV-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product.aspx?id=24	DSHL4RPV50	351
FSJ4-50B 1/2" 50 OHM	COMMSCOPE PART#: FSJ4-50B SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=1327&q=FSJ4-50B&sayt=1	DSFSJ450BCABLE	351
CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	COMMSCOPE PART#: LDF4-50A SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=1329&q=LDF4-50A&sayt=1	DSLDF450ACABLE	351
CABLE: 1/2" COAXIAL, LOW DENSITY FOAM, FIRE RETARDANT POLYOLEFIN JACKET	COMMSCOPE PART#: LDF4RK-50A SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=925&q=LDF4RK-50A&sayt=1	DSLDF4RK50ACABLE	351
CABLE: 1/2" SUPERFLEX FOAM COAX	COMMSCOPE PART#: FSJ4RK-50B SPEC SHEET LINK:	DSFSJ4RK50B	351

BLCK FIRE RETARDANT JCKT,	https://www.commscope.com/catalog/cables/product_details.aspx?id=1346&q=FSJ4RK-50B&sayt=1		
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Commscope 1/2 Cable Connectors

Description	Full Description	Nomenclature	APC
7-16 DIN FEMALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-	COMMSCOPE PART#: L4TDF-PSA SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=25387&q=L4TDF-PSA&sayt=1	DSL4TDFPSA	351
7-16 DIN MALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	COMMSCOPE PART#: L4TDM-PSA SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=25386&q=L4TDM-PSA&sayt=1	DSL4TDMPSA	351
TYPE N FEMALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	COMMSCOPE PART#: L4TNF-PSA SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=25389&q=L4TNF-PSA&sayt=1	DSL4TNFPSA	351
TYPE N MALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	COMMSCOPE PART#: L4TNM-PSA SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=25388&q=L4TNM-PSA&sayt=1	DSL4TNMPSA	351
CONNECTOR 4.3-10 FEMALE FOR 1/2" AL4RPV-	COMMSCOPE PART#: L4HF-D SPEC SHEET LINK:	DSL4HFD	351

50, LDF4-50A, HL4RPV-50 CABLE	https://www.commscope.com/catalog/connectors/product_details.aspx?id=89009&q=L4HF-D&sayt=1		
CONNECTOR 4.3-10 MALE FOR 1/2" AL4RPV-50, LDF4-50A, HL4RPV-50 CABLE	COMMSCOPE PART#: L4HM-D SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=64268&q=L4HM-D&sayt=1	DSL4HMD	351
L4DR-PS 1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	COMMSCOPE PART#: L4DR-PS SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16187	DSL4DRPS	351
L4NR-PS 1/2" TYPE N MALE RIGHT ANGLE CONNECTOR LDF4-50A CABLE	COMMSCOPE PART#: L4NR-PS SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16262&q=L4NR-PS&sayt=1	DSL4NRPS	351
7-16 DIN FEMALE FOR 1/2 IN FSJ4-50B CABLE	COMMSCOPE PART#: F4PDF-C SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9353&q=F4PDF-C&sayt=1	DSF4PDFC	351
F4PDMV2-C 1/2" 7-16 DIN MALE CONNECTOR	COMMSCOPE PART#: F4PDMV2-C SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9357&q=F4PDMV2-C&sayt=1	DSF4PDMV2C	351
F4PNF-C 1/2" TYPE N FEMALE CONNECTOR	COMMSCOPE PART#: F4PNF-C SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9364&q=F4PNF-C&sayt=1	TDN8810	351
TYPE N MALE FOR 1/2 IN FSJ4-50B CABLE	COMMSCOPE PART#: F4PNMV2-HC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9366&q=F4PNMV2-HC&sayt=1	DSF4PNMV2HC	351

CONNECTOR 4.3-10 FEMALE FOR 1/2" FSJ4- 50B CABLE	COMMSCOPE PART#: F4HF-D SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=89010&q=F4HF-D&sayt=1	DSF4HFD	351
1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	COMMSCOPE PART#: F4DR-C SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16757&q=F4DR-C&sayt=1	DSF4DRC	351
F4NR-HC 1/2" TYPE N MALE RIGHT ANGLE CONNECTOR	COMMSCOPE PART#: F4NR-HC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16758&q=F4NR-HC&sayt=1	DSF4NRHC	351
CONNECTOR 4.3-10 MALE FOR 1/2" FSJ4-50B CABLE	COMMSCOPE PART#: F4HM-D SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=64265&q=F4HM-D&sayt=1	DSF4HMD	351

Commscope 1/2 Cable Tools and Torque Wrenches

Description	Full Description	Nomenclature	APC
CPT-12U AUTOMATED CABLE PREPARATION TOOL FOR 1/2IN COAX CABLE	COMMSCOPE PART#: CPT-12U SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=32785&q=CPT-12U&sayt=1	DSCPT12U	351
EASIAx PLUS AUTOMATED CABLE PREPARATION TOOL FOR 1/2 IN COAXIAL CABLE	COMMSCOPE PART#: CPT-L4-D SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=64239&q=CPT-L4-D&sayt=1	DSCPTL4D	351
GROUND KIT STRP TOOL CORRUGATED 1/2" CBL	COMMSCOPE PART#: GKT-L4SG SPEC SHEET LINK: TBD	DSGKTL4SG	351

<p>AUTOMATED CABLE PREPARATION TOOL FOR 1/2INCH FSJ4</p>	<p>COMMSCOPE PART#: CPT-F4B SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=20843&q=CPT-F4B&sayt=1</p>	<p>DSCPTF4B</p>	<p>351</p>
<p>EASIAX PLUS AUTOMATED CABLE PREPARATION TOOL FOR FSJ4-50B COAXIAL CAB</p>	<p>COMMSCOPE PART#: CPT-F4-D SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=64240&q=CPT-F4-D&sayt=1</p>	<p>DSCPTF4D</p>	<p>351</p>
<p>AUTOMATED CABLE PREPARATION TOOL FOR 1/2INCH FSJ4</p>	<p>COMMSCOPE PART#: CPT-F4B SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=20843&q=CPT-F4B&sayt=1</p>	<p>DSCPTF4B</p>	<p>351</p>
<p>ALUMINUM GROUNDING KIT PREPARATION TOOL FOR FSJ4-50B COAXIAL CABLE</p>	<p>COMMSCOPE PART#: GKT-F4A SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13341&q=GKT-F4A&sayt=1</p>	<p>DSGKTF4A</p>	<p>351</p>
<p>244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN</p>	<p>COMMSCOPE PART#: 244377 SPEC SHEET LINK: SPEC SHEET LINK:</p>	<p>DS244377</p>	<p>351</p>
<p>244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS</p>	<p>COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13307&q=244379&sayt=1</p>	<p>DS244379</p>	<p>351</p>
<p>TORQUE WRENCH FOR COUPLING</p>	<p>COMMSCOPE PART#: TW-4310 SPEC SHEET</p>		

TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351
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Product Type	FC	Nomenclature	Description	APC
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351
QUOTEDS	EPN	DS4310F50V12N1	CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC4-50	351
QUOTEDS	EPN	DS4310M50B12X	CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DS4310M50V12N1	CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50	351
QUOTEDS	TRJ	DS43FP01250PIM	4.3-10 FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351
QUOTEDS	TRJ	DS43MA01250B	4.3-10 MALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	351
QUOTEDS	TRJ	DS43MP01250PIM	4.3-10 MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351
			4.3-10 MALE RIGHT ANGLE, PLENUM	

QUOTEDS	TRJ	DS43MPR01250PIM	& IN-CONDUIT FOR 1/2" CABLE	351
QUOTEDS	EPN	DS716F50B12X	CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DS716F50V12N1	CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50	351
QUOTEDS	EPN	DS716M50B12X	CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DS716M50BL12X	CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DS716M50V12N1	CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	351
QUOTEDS	EPN	DS716M50VL12	CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50	351
QUOTEDS	TRJ	DSAC012J50	1/2 IN-CONDUIT, 50 OHM, CORRUGATED, BLACK POLYETHYLENE JACKET	351
QUOTEDS	TRJ	DSAC012R50	1/2 IN-CONDUIT, 50 OHM, CORRUGATED, LOW-SMOKE, NON- HALOGENATED	351
QUOTEDS	TRJ	DSACC012J50	1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	351
QUOTEDS	TRJ	DSACC012R50	1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW-SMOKE	351
QUOTEDS	TRJ	DSAP012U50	AP012U50, 1/2" CONDUIT CABLE, 50OHM, CORRUGATED, UL-444 PER FT	351
QUOTEDS	TRJ	DSAP6012J50	AP6012J50, 1/2"PLENUM, 50OHM, CORRUG(6GHZ), JCKTED UL- 910,CATVP PER FT	351
			1/2" BLUE PLENUM, 50 OHM,	

QUOTEDS	TRJ	DSAP6012J50BU	CORRUGATED (6 GHZ), JACKETED CMP,	351
QUOTEDS	TRJ	DSAP6012J50GY	1/2" GRAY PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP	351
QUOTEDS	TRJ	DSAP6012J50RD	1/2" RED PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP,	183
QUOTEDS	TRJ	DSAPC012J50	1/2" PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP,	351
QUOTEDS	TRJ	DSAPC012J50RD	1/2" RED PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED	351
QUOTEDS	TRJ	DSAQ012J50	AQ012J50, 1/2"PLENUM RADIATING,50OHM,CORRUG,JCKTED UL-910,CATVP PER FT	351
QUOTEDS	TRJ	DSAQC012J50	1/2 PLENUM RADIATING, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	351
QUOTEDS	TRJ	DSAR012FX50	1/2" RADIATING, 50 OHM, LOW- SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	351
QUOTEDS	TRJ	DSAR012J50	AR012J50, 1/2" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	351
QUOTEDS	TRJ	DSAR012R50	1/2" RADIATING, 50 OHM, LOW- SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	351
QUOTEDS	TRJ	DSAT012FV50	1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	351
QUOTEDS	TRJ	DSAT012FX50	AT012J50, 1/2IN TRANSMISSION LINE,50OHM,FIRE RETARDANT PER FT	351

QUOTEDS	TRJ	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	351
QUOTEDS	TRJ	DSAT012R50	1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	351
QUOTEDS	ANC	DSCPT12U	CPT-12U AUTOMATED CABLE PREPARATION TOOL FOR 1/2IN COAX CABLE	351
QUOTEDS	ANC	DSCPTF4B	AUTOMATED CABLE PREPARATION TOOL FOR 1/2INCH FSJ4	351
QUOTEDS	ANC	DSCPTF4D	EASIAK PLUS AUTOMATED CABLE PREPARATION TOOL FOR FSJ4-50B COAXIAL CAB	351
QUOTEDS	ANC	DSCPTL4D	EASIAK PLUS AUTOMATED CABLE PREPARATION TOOL FOR 1/2 IN COAXIAL CABLE	351
QUOTEDS	TRJ	DSCT01250AIO	PREP TOOL FOR 1/2" CABLE, 75 OHM & 50 OHM	351
QUOTEDS	TRJ	DSCT01250AIO2	CT01250AIO-2, PREP TOOL FOR 1/2" CABLE , 50 OHM	351
QUOTEDS	TRJ	DSCTAIO2RB3PK	REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	351
QUOTEDS	TRJ	DSCTAIO2RB2PK	REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	351
QUOTEDS	TRJ	DSDFA01250B	7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	351
QUOTEDS	TRJ	DSDFP01250	DFP01250, DIN FEMALE FOR 1/2" CABLE	351
QUOTEDS	TRJ	DSDFP01250PIM	DIN FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351

QUOTEDS	TRJ	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	351
QUOTEDS	TRJ	DSDMP01250	DMP01250, DIN MALE FOR 1/2" CABLE	351
QUOTEDS	TRJ	DSDMP01250PIM	DIN MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351
QUOTEDS	TRJ	DSDMPR01250	DMPR01250, 1/2" DIN MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	351
QUOTEDS	TRJ	DSDMPR01250PIM	DIN MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	351
QUOTEDS	EPN	DSEC450	COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	351
QUOTEDS	EPN	DSEC450HF	COAXIAL CABLE, 1/2" HIFLEX, 50 OHM WITH BLACK PE JACKET	351
QUOTEDS	EPN	DSEC450HFHLFR	COAXIAL CABLE, 1/2" HIFLEX, 50 OHM CORRUGATED COPPER	351
QUOTEDS	EPN	DSEC450HLFR	COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	351
QUOTEDS	EPN	DSEC450PL	COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	351
QUOTEDS	ANC	DSF4DRC	1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	351
QUOTEDS	ANC	DSF4HFD	CONNECTOR 4.3-10 FEMALE FOR 1/2" FSJ4-50B CABLE	351
QUOTEDS	ANC	DSF4HMD	CONNECTOR 4.3-10 MALE FOR 1/2" FSJ4-50B CABLE	351
QUOTEDS	ANC	DSF4NRHC	F4NR-HC 1/2" TYPE N MALE RIGHT	351

			ANGLE CONNECTOR	
QUOTEDS	ANC	DSF4PDFC	7-16 DIN FEMALE FOR 1/2 IN FSJ4-50B CABLE	351
QUOTEDS	ANC	DSF4PDMV2C	F4PDMV2-C 1/2" 7-16 DIN MALE CONNECTOR	351
QUOTEDS	ANC	DSF4PNMV2HC	TYPE N MALE FOR 1/2 IN FSJ4-50B CABLE	351
QUOTEDS	ANC	DSFSJ450BCABLE	FSJ4-50B 1/2" 50 OHM	351
QUOTEDS	ANC	DSFSJ4RK50B	CABLE: 1/2" SUPERFLEX FOAM COAX BLCK FIRE RETARDANT JCKT,	351
QUOTEDS	EPN	DSGKTEC4	GROUND KIT PREP TOOL FOR 1/2" STANDARD FOAM COAX CABLE	351
QUOTEDS	EPN	DSGKTEC4HF	GROUND KIT PREP TOOL FOR 1/2" HIFLEX FOAM COAX CABLE	351
QUOTEDS	ANC	DSGKTF4A	ALUMINUM GROUNDING KIT PREPARATION TOOL FOR FSJ4-50B COAXIAL CABLE	351
QUOTEDS	ANC	DSGKTL4SG	GROUND KIT STRP TOOL CORRUGATED 1/2" CBL	351
QUOTEDS	ANC	DSHL4RPV50	HL4RPV-50 1/2IN PLENUM AIR DI ELECTRIC 50 OHM COPPER	351
QUOTEDS	ANC	DSL4DRPS	L4DR-PS 1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	351
QUOTEDS	ANC	DSL4HFD	CONNECTOR 4.3-10 FEMALE FOR 1/2" AL4RPV-50, LDF4-50A, HL4RPV-50 CABLE	351
QUOTEDS	ANC	DSL4HMD	CONNECTOR 4.3-10 MALE FOR 1/2" AL4RPV-50, LDF4-50A, HL4RPV-50 CABLE	351
QUOTEDS	ANC	DSL4NRPS	L4NR-PS 1/2" TYPE N MALE RIGHT ANGLE CONNECTOR LDF4-50A	351

			CABLE	
QUOTEDS	ANC	DSL4TDFPSA	7-16 DIN FEMALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-	351
QUOTEDS	ANC	DSL4TDMPSA	7-16 DIN MALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	351
QUOTEDS	ANC	DSL4TNFPSA	TYPE N FEMALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	351
QUOTEDS	ANC	DSL4TNMPSA	TYPE N MALE POSITIVE STOP FOR 1/2 IN AL4RPV-50, LDF4-50A, HL4RPV-50	351
QUOTEDS	ANC	DSLDF450ACABLE	CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	351
QUOTEDS	ANC	DSLDF4RK50ACABLE	CABLE: 1/2" COAXIAL, LOW DENSITY FOAM,FIRE RETARDANT POLYOLEFIN JACKET	351
QUOTEDS	EPN	DSNF50B12X	CONNECTOR, N FEMALE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DSNF50V12	CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	351
QUOTEDS	TRJ	DSNFA01250B	N FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	351
QUOTEDS	TRJ	DSNFP01250	NFP01250, N FEMALE, PLENUM FOR 1/2" CABLE	351
QUOTEDS	TRJ	DSNFP01250PIM	N FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351
QUOTEDS	EPN	DSNM50B12X	CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	351
QUOTEDS	EPN	DSNM50BL12X	CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	351

QUOTEDS	EPN	DSNM50V12	CONNECTOR, N MALE INTERFACE FOR EC4-50	351
QUOTEDS	EPN	DSNM50VL12	CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50	351
QUOTEDS	TRJ	DSNMA01250B	N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	351
QUOTEDS	TRJ	DSNMP01250	NMP01250, N MALE, PLENUM FOR 1/2" CABLE	351
QUOTEDS	TRJ	DSNMP01250PIM	N MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	351
QUOTEDS	TRJ	DSNMPR01250	NMPR01250, 1/2" N MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	351
QUOTEDS	TRJ	DSNMPR01250PIM	N MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	351
QUOTEDS	EPN	DSSPTC50AV12	CONNECTOR PREP TOOL FOR 1/2" STANDARD CONNECTORS	351
QUOTEDS	EPN	DSSPTC50AV12F	CONNECTORS PREP TOOL FOR 1/2" STANDARD CONNECTORS, PLENUM CABLE	351
QUOTEDS	EPN	DSSPTC50B12X	CONNECTOR PREP TOOL FOR 1/2" HIFLEX STRAIGHT CONNECTORS	351
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351
QUOTEDS	EPN	DSTQ34F20	TORQUE WRENCH BACK NUT 1/2" STANDARD AND HIFLEX CONNECTORS	351
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351
			TORQUE WRENCH FOR COUPLING	

QUOTEDS	ANC	DSTW4310	TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	351
QUOTEDS	TRJ	DSWCU	15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	351
QUOTEDS	ANC	L1702	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT	351
QUOTEDS	ANC	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	351
QUOTEDS	ANC	L3569	CABLE: 1/2" COAXIAL, LOW DENSITY FOAM, FIRE RETARDANT POLYOLEFIN JACKET	351
QUOTEDS	ANC	L3570	FSJ4RK-50B CABLE: 1/2" SUPERFLEX FOAM COAX BLCK FIRE RETARDANT JCKT,	351
QUOTEDS	ANC	TDN8810	F4PNF-C 1/2" TYPE N FEMALE CONNECTOR	351

JUMP TO ...

[RF 1/4" CABLES AND ACCESSORIES](#)

RF 1/4" CABLES AND ACCESSORIES

This page contains information on products from MSI Preferred vendors, including Eupen, Trilogy, and Commscope.

For product information from non preferred vendors contact the vendor directly.

CONTACT INFORMATION

For internal technical assistance contact [Gary Owens](#) at 330-541-6585.

For ordering/product information contact the Product Planner, [Tim Martin](#), at 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact [Aaron Wilson](#) at 501-605-2341.

For information on Commscope products see the [Commscope website](#) or contact [Debra Kollman](#).

Commscope Product Guide - Click on the below link for more information on Commscope Cable products.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

Configuration

EUPEN 1/4" STANDARD AND HI-FLEX CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/4" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC150	DSEC150	351	\$1.70
COAXIAL CABLE, 1/4" HIFLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC150HF	DSEC150HF	351	\$1.80

EUPEN 1/4" STANDARD AND HI-FLEX CABLE CONNECTORS

Description	Full	Nomenclature	APC	Price
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	Description			
CONNECTOR, N FEMALE INTERFACE FOR EC1-50	EUPEN PART#: NF50V14	DSNF50V14	351	\$24.25
CONNECTOR, N MALE INTERFACE FOR EC1-50	EUPEN PART#: NM50V14	DSNM50V14	351	\$24.25
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50B14X	DS716M50B14X	351	\$25.75
CONNECTOR, N FEMALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NF50B14X	DSNF50B14X	351	\$25.75
CONNECTOR, N MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NM50B14X	DSNM50B14X	351	\$25.75
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50BL14X	DS716M50BL14X	351	\$35.25
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: NM50BL14X	DSNM50BL14X	351	\$35.25

EUPEN 1/4" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/4" STANDARD CONNECTORS	EUPEN PART#: SPTC50AV14	DSSPTC50AV14	351	\$220.00
CONNECTOR PREP TOOL FOR 1/4" HIFLEX CONNECTORS	EUPEN PART#: SPTC50B14X	DSSPTC50B14X	351	\$220.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00

4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
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COMMSCOPE 1/4" CABLES

Description	Full Description	Nomenclature	APC
HELIAX LOW DENSITY FOAM COAXIAL CABLE, CORRUGATED COPPER, 1/4 IN	COMMSCOPE PART#: LDF1-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=1348&q=LDF1-50&sayt=1	DSLDF150	351
CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	COMMSCOPE PART#: FSJ1-50A SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=1342&q=FSJ1-50A&sayt=1	DSFSJ150ACABLE	351

COMMSCOPE 1/4" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC
F1PNF 1/4" TYPE N FEMALE SELF FLARE CONNECTOR	COMMSCOPE PART#: F1PNF SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=12913&q=F1PNF&sayt=1	DSF1PNF	351
TYPE N MALE RIGHT ANGLE FOR 1/4 IN FSJ1- 50A CABLE	COMMSCOPE PART#: F1TNR-HC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=37853&q=F1TNR-HC&sayt=1	DSF1TNRHC	351
F1TDM-C 7- 16 DIN MALE FOR 1/4 IN FSJ1-50A CABLE	COMMSCOPE PART#: F1TDM-C SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=17803&q=F1TDM-C&sayt=1	DSF1TDMC	351
TYPE N FEMALE POSITIVE	COMMSCOPE PART#: L1TNF-PL SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/p	DSL1TNFPL	351

LOCK FOR 1/4 IN LDF1- 50 CABLE	roduct_details.aspx?id=16763&q=L1TNF- PL&sayt=1		
TYPE N MALE POSITIVE LOCK FOR 1/4 IN LDF1- 50 CABLE	COMMSCOPE PART#: L1TNM-PL SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=16764&q=L1TNM-PL&sayt=1	DSL1TNMPL	351
4.3-10 MALE FOR 1/4 IN LDF1-50 CABLE	COMMSCOPE PART#: L1HM-D SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=45744&q=L1HM-D&sayt=1	DSL1HMD	351
TYPE N MALE FOR 1/4 IN FSJ1- 50A CABLE	COMMSCOPE PART#: F1TNM-HC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=5088&q=F1TNM-HC&sayt=1	DSF1TNMHC	351

COMMSCOPE 1/4" CABLE TOOLS and TORQUE WRENCHES

Description	Full Description	Nomenclature	APC
EASIA X MANUAL CABLE PREPARATION TOOL FOR FSJ1-50A AND FSJ4-50B COAX	COMMSCOPE PART#: MCPT-1412 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13343/MCPT-1412.pdf	DSMCPT1412	351
244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE PART#: 244377 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13343/MCPT-1412.pdf	DS244377	351
244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N	COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?	DS244379	351

TYPE CONNECTORS	id=13307&q=244379&sayt=1		
TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	COMMSCOPE PART#: TW-4310 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351	20
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351	15
QUOTEDS	EPN	DS716M50B14X	CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC1-50-HF	351	5
QUOTEDS	EPN	DS716M50BL14X	CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	351	5
QUOTEDS	EPN	DSEC150	COAXIAL CABLE, 1/4" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	351	5
QUOTEDS	EPN	DSEC150HF	COAXIAL CABLE, 1/4" HIFLEX, 50 OHM WITH	351	5

			BLACK PE JACKET		
QUOTEDS	ANC	DSF1PNF	F1PNF 1/4" TYPE N FEMALE SELF FLARE CONNECTOR	351	5
QUOTEDS	ANC	DSF1TDMC	F1TDM-C 7-16 DIN MALE FOR 1/4 IN FSJ1-50A CABLE	351	15
QUOTEDS	ANC	DSF1TNMHC	TYPE N MALE FOR 1/4 IN FSJ1-50A CABLE	351	15
QUOTEDS	ANC	DSF1TNRHC	TYPE N MALE RIGHT ANGLE FOR 1/4 IN FSJ1-50A CABLE	351	39
QUOTEDS	ANC	DSFSJ150ACABLE	CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	351	10
QUOTEDS	ANC	DSL1HMD	4.3-10 MALE FOR 1/4 IN LDF1-50 CABLE	351	15
QUOTEDS	ANC	DSL1TNFPL	TYPE N FEMALE POSITIVE LOCK FOR 1/4 IN LDF1-50 CABLE	351	15
QUOTEDS	ANC	DSL1TNMPL	TYPE N MALE POSITIVE LOCK FOR 1/4 IN LDF1-50 CABLE	351	15
QUOTEDS	ANC	DSLDF150	HELIAX LOW DENSITY FOAM COAXIAL CABLE, CORRUGATED COPPER, 1/4 IN	351	5
QUOTEDS	ANC	DSMCPT1412	EASIAx MANUAL CABLE PREPARATION TOOL FOR FSJ1-50A AND FSJ4-50B COAX	351	15
QUOTEDS	EPN	DSNF50B14X	CONNECTOR, N FEMALE INTERFACE FOR EC1-50-HF	351	5
QUOTEDS	EPN	DSNF50V14	CONNECTOR, N FEMALE INTERFACE FOR EC1-50	351	5
QUOTEDS	EPN	DSNM50B14X	CONNECTOR, N MALE INTERFACE FOR EC1-50-HF	351	5

QUOTEDS	EPN	DSNM50BL14X	CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	351	5
QUOTEDS	EPN	DSNM50V14	CONNECTOR, N MALE INTERFACE FOR EC1-50	351	5
QUOTEDS	EPN	DSSPTC50AV14	CONNECTOR PREP TOOL FOR 1/4" STANDARD CONNECTORS	351	5
QUOTEDS	EPN	DSSPTC50B14X	CONNECTOR PREP TOOL FOR 1/4" HIFLEX CONNECTORS	351	5
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351	5
QUOTEDS	ANC	DSTW4310	TORQUE WRENCH FOR COUPLING TORQUE OF 4.3- 10 CONNECTORS, 22 MM OPENING	351	15
QUOTEDS	ANC	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	351	10
QUOTEDS	ANC	L1700	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	351	10

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[RF 1-5/8" CABLES AND ACCESSORIES](#)

RF 1-5/8" CABLES AND ACCESSORIES

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For ordering/product information contact the Product Planner, Tim Martin, at tim.martin@motorolasolutions.com or 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact Aaron Wilson at awilson@eupen.us or 501-605-2341.

For information on Trilogy products see the Trilogy website or contact [Edmund Lee](#) at elee@trilogyrf.com or 601-667-9133.

For information on Commscope products see the [Commscope website](#) or contact Debra Kollman at Debra.kollman@commscope.com or 779-435-6192.

EUPEN TRAINING VIDEO - See link below for a video about the Eupen products on this page.

<https://www.youtube.com/watch?v=nFXC4zY73mw&feature=youtu.be>

TRILOGY Below is a link to a pdf file with more parts information (download the document after clicking on the link). Additionally, there is a link to a You Tube video on how to add connectors to Trilogy products.

[TRILOGY 1 5/8 INCH CONNECTOR INSTALLATION INTRUCTIONS pdf](#)

https://www.youtube.com/watch?time_continue=56&v=JQ-fpR74LK0

Commscope Product Guide -Click on the below link for more information on Commscope Cable products.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

Configuration

[EUPEN 1-5/8 CABLES](#)

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750A	DSEC750A	351	\$7.30
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750AHLFR	DSEC750AHLFR	351	\$11.00

EUPEN 1-5/8 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V158N1	DS716F50V158N1	351	\$132.00
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V158N1	DS716M50V158N1	351	\$132.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NF50V158N1	DSNF50V158N1	351	\$136.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NM50V158N1	DSNM50V158N1	351	\$136.00

EUPEN 1-5/8 TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
1 5/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F158	DSF158	351	\$580.00
TORQUE WRENCH FOR BACK NUT 1 5/8" CONNECTORS	EUPEN PART#: TQ214F37	DSTQ214F37	351	\$270.00

GROUND KIT PREP TOOL FOR 1 5/8" FOAM COAX CABLE	EUPEN PART#: GKTEC7	DSGKTEC7	351	\$300.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
AT158J50, 1- 5/8" TRANSMISSION LINE, 50 OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT158J50	DSAT158J50	351	\$17.25
1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT158FX50	DSAT158FX50	351	\$11.00
1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT158FV50	DSAT158FV50	351	\$11.50
1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT158R50	DSAT158R50	351	\$12.50
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON- HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FX50	DSAR158FX50	351	\$23.75
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON- HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FV50	DSAR158FV50	351	\$26.50
1-5/8 RADIATING, 50 OHM, 150	TRILOGY			

- 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	PART#: AR158FV50-1B	DSAR158FV501B	351	\$27.25
1-5/8 RADIATING, 50 OHM, 150 -1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR158FV50-1C	DSAR158FV501C	351	\$27.25
1-5/8 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158R50	DSAR158R50	351	\$29.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
NFA15850, N FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: NFA15850	DSNFA15850	351	\$221.00
DMA15850, 7/16 DIN MALE FOR 1-5/8" CABLE	TRILOGY PART#: DMA15850	DSDMA15850	351	\$200.00
DFA15850, 7/16 DIN FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: DFA15850	DSDFA15850	351	\$200.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT15850P, POWER PREP TOOL FOR 1-5/8 INCH CABLE	TRILOGY PART#: CT15850P	DSCT15850P	351	\$1,036.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114/158RB/3PK	DSCT114158RB3PK	351	\$420.00

COMMSCOPE 1-5/8 CABLES

Description	Full Description	Nomenclature	APC

AVA7-50, HELIAX COAXIAL CABLE, CORRUGATED COPPER, 1-5/8 IN,	COMMSCOPE PART#: AVA7RK-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=14710&q=AVA7RK-50&sayt=1	DSAVA7RK50	351
CABLE: 1 5/8" AVA HELIAX POLY JKT PER FOOT	COMMSCOPE PART#: AVA7-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=1309	DSAVA750	351

COMMSCOPE 1-5/8 CABLE CONNECTORS

Description	Full Description	Nomenclature	APC
7-16 DIN FEMALE EZFIT FOR 1- 5/8 IN FXL- 1873 AND AVA7-50 CABLE	COMMSCOPE PART#: 158EZDF SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=17789&q=158EZDF&sayt=1	DS158EZDF	351
7-16 DIN MALE EZFIT FOR 1-5/8 IN FXL-1873 AND AVA7-50 CABLE	COMMSCOPE PART#: 158EZDM SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=17790&q=158EZDM&sayt=1	DS158EZDM	351
158EZ N FEMALE CONNECTOR	COMMSCOPE PART#: 158EZN F SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=17793&q=158EZN F&sayt=1	DS158EZN F	351
158EZ N MALE CONNECTOR	COMMSCOPE PART#: 158EZNM SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=17791&q=158EZNM&sayt=1	DS158EZNM	351

COMMSCOPE 1-5/8 CABLE TOOLS AND TORQUE WRENCHES

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Description	Full Description	Nomenclature	APC
EZFIT AUTOMATED CABLE PREPARATION TOOL FOR AVA7-50 COAXIAL CABLE	COMSCOPE PART#: A7-EZPT SPC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/17643/A7-EZPT.pdf	DSA7EZPT	351
TORQUE WRENCH FOR 1-5/8 IN EZFIT CONNECTORS, 60 MM	COMSCOPE PART#: TW-158-EZFC SPC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/17603/TW-158-EZFC.pdf	DSTW158EZFC	351
1-5/8IN GROUNDING KIT PREP TOOL	COMSCOPE PART#: GKT-158SG SPC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/17336/GKT-158SG.pdf	DSGKT158SG	351
244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE PART#: 244377 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13305&q=244377&sayt=1	DS244377	351
244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13307&q=244379&sayt=1	DS244379	351
TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	COMMSCOPE PART#: TW-4310 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS158EZDF	7-16 DIN FEMALE EZFIT FOR 1-5/8 IN FXL-1873 AND AVA7-50 CABLE	351	10
QUOTEDS	ANC	DS158EZDM	7-16 DIN MALE EZFIT FOR 1-5/8 IN FXL-1873 AND AVA7-50 CABLE	351	10
QUOTEDS	ANC	DS158EZNF	158EZ N FEMALE CONNECTOR	351	10
QUOTEDS	ANC	DS158EZNM	158EZ N MALE CONNECTOR	351	10
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351	20
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351	15
QUOTEDS	EPN	DS716F50V158N1	CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	351	5
QUOTEDS	EPN	DS716M50V158N1	CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	351	5
QUOTEDS	ANC	DSA7EZPT	EZFIT AUTOMATED CABLE PREPARATION TOOL FOR AVA7-50 COAXIAL CABLE	351	10
			1-5/8" RADIATING, 50 OHM,		

QUOTEDS	TRJ	DSAR158FV50	LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	351	21
QUOTEDS	TRJ	DSAR158FV501B	1-5/8 RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	351	21
QUOTEDS	TRJ	DSAR158FV501C	1-5/8 RADIATING, 50 OHM, 150 -1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	351	21
QUOTEDS	TRJ	DSAR158FX50	1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	351	21
QUOTEDS	TRJ	DSAR158J50	AR158J50, 1-5/8" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	351	21
QUOTEDS	TRJ	DSAR158R50	1-5/8 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	351	21
QUOTEDS	TRJ	DSAT158FV50	1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2
QUOTEDS	TRJ	DSAT158FX50	1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2
QUOTEDS	TRJ	DSAT158J50	AT158J50, 1-5/8"TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	351	3
QUOTEDS	TRJ	DSAT158R50	1-5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	351	2

QUOTEDS	ANC	DSAVA750	CABLE: 1 5/8" AVA HELIAX POLY JKT PER FOOT	351	21
QUOTEDS	ANC	DSAVA7RK50	AVA7-50, HELIAX COAXIAL CABLE, CORRUGATED COPPER, 1-5/8 IN,	351	20
QUOTEDS	TRJ	DSCT114158RB3PK	REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	351	5
QUOTEDS	TRJ	DSCT15850P	CT15850P, POWER PREP TOOL FOR 1-5/8 INCH CABLE	351	3
QUOTEDS	TRJ	DSDFA15850	DFA15850, 7/16 DIN FEMALE FOR 1-5/8" CABLE	351	3
QUOTEDS	TRJ	DSDMA15850	DMA15850, 7/16 DIN MALE FOR 1-5/8" CABLE	351	20
QUOTEDS	EPN	DSEC750A	COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	351	5
QUOTEDS	EPN	DSEC750AHLFR	COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	351	5
QUOTEDS	EPN	DSF158	1 5/8" DRILL MOUNTED CABLE PREP TOOL	351	5
QUOTEDS	ANC	DSGKT158SG	1-5/8IN GROUNDING KIT PREP TOOL	351	14
QUOTEDS	EPN	DSGKTEC7	GROUND KIT PREP TOOL FOR 1 5/8" FOAM COAX CABLE	351	5
QUOTEDS	EPN	DSNF50V158N1	CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	351	5
QUOTEDS	TRJ	DSNFA15850	NFA15850, N FEMALE FOR	351	15

			1-5/8" CABLE		
QUOTEDS	EPN	DSNM50V158N1	CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	351	5
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ214F37	TORQUE WRENCH FOR BACK NUT 1 5/8" CONNECTORS	351	5
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351	5
QUOTEDS	ANC	DSTW158EZFC	TORQUE WRENCH FOR 1- 5/8 IN EZFIT CONNECTORS, 60 MM	351	10
QUOTEDS	ANC	DSTW4310	TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	351	15
QUOTEDS	ANC	L3405	AVA7-50 CABLE: 1 5/8" AVA HELIAX POLY JKT PER FOOT	351	21

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[RF 3/8" CABLES AND ACCESSORIES](#)

RF 3/8" CABLES AND ACCESSORIES

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Configuration

COMMSCOPE 3/8" CABLES

Description	Full Description	Nomenclature	APC	Price
CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	COMMSCOPE PART#: LDF2-50	DSLDF250CABLE	351	\$3.55
CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT - FIRE RETARDANT VERSION	COMMSCOPE PART#: LDF2RK-50	DSLDF2RK50	351	\$5.15

COMMSCOPE 3/8" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
3/8" 7-16 DIN MALE POSITIVE	COMMSCOPE PART#: L2TDM-	DSL2TDMPL	351	\$25.25

LOCK STRAIGHT CONNECTOR	PL			
3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	COMMSCOPE PART#: L2TNM-PL	DSL2TNMPL	351	\$21.75
L2TNF-PL 3/8" TYPE N FEMALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	COMMSCOPE PART#: L2TNF-PL	DSL2TNFPL	351	\$23.00
L2TDF-PL 7-16 DIN FEMALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	COMMSCOPE PART#: L2TDF-PL	DSL2TDFPL	351	\$28.00
L2TTMPL TNC MALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	COMMSCOPE PART#: L2TTM-PL	DSL2TTMPL	351	\$23.00

COMMSCOPE 3/8" TOOLS AND ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
223158-2 1/4" OR 3/8" CABLE GROUND CLAMP KIT	COMMSCOPE PART#: 223158-2	TDN9668	351	\$25.00
**USE DSSG1212B2U FOR 1/2IN ** GK-SUNV SMALL UNIVERSAL GROUNDING KIT	COMMSCOPE PART#: GK-SUNV	DSGKSUNV	351	\$12.50

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DSGKSUNV	**USE DSSG1212B2U FOR 1/2IN ** GK-SUNV SMALL UNIVERSAL GROUNDING KIT	351	5
			L2TDF-PL 7-16 DIN FEMALE		

QUOTEDS	ANC	DSL2TDFPL	POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	351	17
QUOTEDS	ANC	DSL2TDMPL	3/8" 7-16 DIN MALE POSITIVE LOCK STRAIGHT CONNECTOR	351	21
QUOTEDS	ANC	DSL2TNFPL	L2TNF-PL 3/8" TYPE N FEMALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	351	30
QUOTEDS	ANC	DSL2TNMPL	3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	351	5
QUOTEDS	ANC	DSL2TTMPL	L2TTMPL TNC MALE POSITIVE LOCK FOR 3/8 IN LDF2-50 CABLE	351	17
QUOTEDS	ANC	DSLDF250CABLE	CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	351	10
QUOTEDS	ANC	DSLDF2RK50	CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT - FIRE RETARDANT VERSION	351	10
QUOTEDS	ANC	L1704	LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	351	40
QUOTEDS	ANC	L3602	CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT - FIRE RETARDANT VERSION	351	40
QUOTEDS	ANC	TDN9668	223158-2 1/4" OR 3/8" CABLE GROUND CLAMP KIT	351	15

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[RF 5/8" CABLES AND ACCESSORIES](#)

RF 5/8" CABLES AND ACCESSORIES

This page contains information on products from MSI Preferred vendors, including Eupen, Trilogy, and Commscope.

For product information from non preferred vendors contact the vendor directly.

CONTACT INFORMATION

For internal technical assistance contact [Gary Owens](#) at 330-541-6585.

For ordering/product information contact the Product Planner, [Tim Martin](#), at 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact [Aaron Wilson](#) at 501-605-2341.

For information on Trilogy products see the [Trilogy website](#) or contact [Edmund Lee](#) at 601-667-9133.

For information on Commscope products see the [Commscope website](#) or contact [Debra Kollman](#) at 779-435-6192.

Commscope Product Guide - Click on the below link for more information on Commscope Cable products.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

Configuration

EUPEN 5/8" CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 5/8" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC4550	DSEC4550	351	\$3.90

EUPEN 5/8" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, N FEMALE	EUPEN PART#:			

INTERFACE FOR EC4.5-50	NF50V58	DSNF50V58	351	\$52.25
CONNECTOR, N MALE INTERFACE FOR EC4.5-50	EUPEN PART#: NM50V58	DSNM50V58	351	\$52.25

EUPEN 5/8" TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
5/8" CABLE PREP TOOL	EUPEN PART#: SPTC50AV58	DSSPTC50AV58	351	\$540.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
AT058J50, 5/8" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT058J50	DSAT058J50	351	\$5.40
5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT058FX50	DSAT058FX50	351	\$3.45
5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	TRILOGY PART#: AT058R50	DSAT058R50	351	\$3.95
5/8 RADIATING, 50 OHM, BLACK POLYETHYLENE JACKET	TRILOGY PART#: AR058J50	DSAR058J50	351	\$7.75

5/8" RADIATING, 50 OHM, LOW-SMOKE, NON- HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#:AR058FX50	DSAR058FX50	351	\$8.35
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TRILOGY 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
NMA05850, N MALE FOR 5/8" CABLE	TRILOGY PART#:NMA05850	DSNMA05850	351	\$63.00
NMA05850, N MALE FOR 5/8" CABLE	TRILOGY PART#:NFA05850	DSNFA05850	351	\$63.00
N MALE FOR 5/8 CABLE (USE WITH CT05850AIO)	TRILOGY PART#:NMA05850- 2G	DSNMA058502G	351	\$63.00
7/16 DIN MALE FOR 5/8 CABLE (USE WITH CT05850AIO)	TRILOGY PART#:DMA05850- 2G	DSDMA058502G	351	\$63.00
7/16 DIN FEMALE FOR 5/8 CABLE (USE WITH CT05850AIO)	TRILOGY PART#:DFA05850- 2G	DSDFA058502G	351	\$63.00

TRILOGY 50 OHM AND RADIATING 50 OHM TOOLS AND WRENCHES

Description	Full Description	Nomenclature	APC	Price
PREP TOOL FOR 5/8" CABLE, 50 OHM	TRILOGY PART#: CT05850AIO-2	DSCT05850AIO2	351	\$490.00
PREP TOOL FOR 5/8" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT05850AIO	DSCT05850AIO	351	\$490.00

COMMSCOPE 5/8 Cables

Description	Full Description	Nomenclature	APC
LDF4.5-50, HELIAX	COMSCOPE PART#: LDF4.5RK-50 SPEC SHEET		

SUPERFLEXIBLE FOAM COAXIAL CABLE, CORRUGATED COPPER	LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=16325	DSLDF45RK50	351
CABLE: 5/8" LOW DENSITY FOAM, PER FOOT	COMMSCOPE PART#: LDF4.5-50	DSLDF4550	351

Commscope 5/8 Cable Connectors

Description	Full Description	Nomenclature	APC	
TYPE N FEMALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	COMSCOPE PART#: L4.5PNF-RC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9383&q=L4.5PNF-RC&sayt=1	DSL45PNFRC	351	;
TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	COMSCOPE PART#: L4.5PNM-RC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9384&q=L4.5PNM-RC&sayt=1	DSL45PNMRC	351	;
7-16 DIN MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	COMSCOPE PART#: L4.5PDM-RC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9382&q=L4.5PDM-RC&sayt=1	DSL45PDMRC	351	;
7-16 DIN FEMALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	COMSCOPE PART#: L4.5PDF-RC SPEC SHEET LINK: https://www.commscope.com/catalog/connectors/product_details.aspx?id=9381&q=L4.5PDF-RC&sayt=1	DSL45PDFRC	351	;

Commscope Torque Wrenches

Description	Full Description	Nomenclature	APC	

244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE PART#: 244377 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13305&q=244377&sayt=1	DS244377	351
244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13307&q=244379&sayt=1	DS244379	351
TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	COMMSCOPE PART#: TW-4310 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351	20
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351	15
QUOTEDS	TRJ	DSAR058FX50	5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	351	10

QUOTEDS	TRJ	DSAR058J50	5/8 RADIATING, 50 OHM, BLACK POLYETHYLENE JACKET	351	10
QUOTEDS	TRJ	DSAT058FX50	5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	351	2
QUOTEDS	TRJ	DSAT058J50	AT058J50, 5/8"TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	351	2
QUOTEDS	TRJ	DSAT058R50	5/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	351	2
QUOTEDS	TRJ	DSCT05850AIO	PREP TOOL FOR 5/8" CABLE, 75 OHM & 50 OHM	351	5
QUOTEDS	TRJ	DSCT05850AIO2	PREP TOOL FOR 5/8" CABLE, 50 OHM	351	5
QUOTEDS	TRJ	DSDFA058502G	7/16 DIN FEMALE FOR 5/8 CABLE (USE WITH CT05850AIO)	351	2
QUOTEDS	TRJ	DSDMA058502G	7/16 DIN MALE FOR 5/8 CABLE (USE WITH CT05850AIO)	351	2
QUOTEDS	EPN	DSEC4550	COAXIAL CABLE, 5/8" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	351	5
QUOTEDS	ANC	DSL45PDFRC	7-16 DIN FEMALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	351	15
QUOTEDS	ANC	DSL45PDMRC	7-16 DIN MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	351	15
QUOTEDS	ANC	DSL45PNFRC	TYPE N FEMALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	351	15
QUOTEDS	ANC	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE	351	15

QUOTEDS	ANC	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT	351	10
QUOTEDS	ANC	DSLDF45RK50	LDF4.5-50, HELIAX SUPERFLEXIBLE FOAM COAXIAL CABLE, CORRUGATED COPPER	351	10
QUOTEDS	EPN	DSNF50V58	CONNECTOR, N FEMALE INTERFACE FOR EC4.5-50	351	5
QUOTEDS	TRJ	DSNFA05850	NMA05850, N MALE FOR 5/8" CABLE	351	2
QUOTEDS	EPN	DSNM50V58	CONNECTOR, N MALE INTERFACE FOR EC4.5-50	351	5
QUOTEDS	TRJ	DSNMA05850	NMA05850, N MALE FOR 5/8" CABLE	351	2
QUOTEDS	TRJ	DSNMA058502G	N MALE FOR 5/8 CABLE (USE WITH CT05850AIO)	351	2
QUOTEDS	EPN	DSSPTC50AV58	5/8" CABLE PREP TOOL	351	5
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351	5
QUOTEDS	ANC	DSTW4310	TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	351	15

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[RF 7/8" CABLES AND ACCESSORIES](#)

RF 7/8" CABLES AND ACCESSORIES

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For information on Trilogy products see the Trilogy website or contact [Edmund Lee](#) at elee@trilogyrf.com or 601-667-9133.

For information on Commscope products see the [Commscope website](#) or contact Debra Kollman at Debra.kollman@commscope.com or 779-435-6192.

EUPEN TRAINING VIDEO - See link below for a video about the Eupen products on this page.

<https://www.youtube.com/watch?v=nFXC4zY73mw&feature=youtu.be>

TRILOGY Below is a link to a pdf file with more parts information (download the document after clicking on the link). Additionally, there is a link to a You Tube video on how to add connectors to Trilogy products.

[TRILOGY 7/8 INCH CONNECTOR INSTALLATION INTRUCTIONS pdf](#)

https://www.youtube.com/watch?time_continue=56&v=JQ-fpR74LK0

Commscope Product Guide - Click on the below link for more information on Commscope Cable products.

[COMMSCOPE CABLE AND ACCESSORIES INFORMATION GUIDE](#)

Configuration

EUPEN 7/8" CABLES

	Full			
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Description	Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 7/8 IN 50 OHM CORRUGATED COPPER W/ BLACK PE	EUPEN PART#: EC550A	DSEC550A	351	\$3.40
COAXIAL CABLE, "A" SERIES 7/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC550AHLFR	DSEC550AHLFR	351	\$4.40

EUPEN 7/8" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716F50V78N1	DS716F50V78N1	351	\$34.75
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716M50V78N1	DS716M50V78N1	351	\$34.75
CONNECTOR, N FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: NF50V78N1	DSNF50V78N1	351	\$34.75
CONNECTOR, N MALE INTERFACE FOR EC5-50-A	EUPEN PART#: NM50V78N1	DSNM50V78N1	351	\$34.75
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 4310F50V78N1	DS4310F50V78N1	351	\$38.25

EUPEN 7/8" CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
7/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F78	DSF78	351	\$580.00
7/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: TQ30MMF22	DSTQ30MMF22	351	\$220.00
GROUND KIT PREP TOOL	EUPEN PART#:	DSGKTEC5	351	\$240.00

FOR 7/8" FOAM COAX CABLE	GKTEC5			
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
7/8" TRANSMISSION LINE, 50 OHM, UNJACKETED	TRILOGY PART#: AT078U50	DSAT078U50	351	\$4.20
AT078J50, 7/8" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT078J50	DSAT078J50	351	\$6.95
7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078FX50	DSAT078FX50	351	\$4.40
7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078FV50	DSAT078FV50	351	\$4.65
7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078R50	DSAT078R50	351	\$5.05
AR078J50, 7/8" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AR078J50	DSAR078J50	351	\$8.00
7/8IN RADIATING, 50 OHM, LOW-SMOKE, FIRE RETARDANT JACKET	TRILOGY PART#: AR078FX50	DSAR078FX50	351	\$9.85
7/8 RADIATING, 50 OHM, LOW-	TRILOGY			

SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	PART#: AR078FV50	DSAR078FV50	351	\$11.00
7/8 RADIATING, 50 OHM, LOW- SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR078R50	DSAR078R50	351	\$12.50
7/8 RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON- HALOGENATED,	TRILOGY PART#: AR078FV50- 3B	DSAR078FV503B	351	\$11.75
7/8 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON- HALOGENATED,	TRILOGY PART#: AR078FV50- 3C	DSAR078FV503C	351	\$11.75

TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
4.3-10 FEMALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43FA01250B	DS43FA01250B	351	\$39.00
N MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: NMA07850B	DSNMA07850B	351	\$50.25
N FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: NFA07850B	DSNFA07850B	351	\$50.25
7/16 DIN MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: DMA07850B	DSDMA07850B	351	\$50.25
7/16 DIN FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: DFA07850B	DSDFA07850B	351	\$50.25
4.3-10 MALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	TRILOGY PART#: 43MA07850B	DS43MA07850B	351	\$52.00

4.3-10 FEMALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2	TRILOGY PART#: 43FA07850B	DS43FA07850B	351	\$52.00
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TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT07850AIO-2, PREP TOOL FOR 7/8" CABLE, 50 OHM	TRILOGY PART#: CT07850AIO-2	DSCT07850AIO2	351	\$490.00
PREP TOOL FOR 7/8" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT07850AIO	DSCT07850AIO	351	\$490.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIO-2RB/3PK	DSCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIORB/2PK	DSCTAIORB2PK	351	\$42.00

Commscope 7/8 Cables

Description	Full Description	Nomenclature	APC
AVA5-50, COAXIAL CABLE, CORRUGATED COPPER, 7/8 IN, BLACK PE JACKET	COMMSCOPE PART#: AVA5-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=24911	DSAVA550	908
CABLE: 7/8" COAX, VIRTUAL AIR, FIRE RETRDNT POLYOLEFIN JCKT	COMMSCOPE PART#: AVA5RK-50 SPEC SHEET LINK: https://www.commscope.com/catalog/cables/product_details.aspx?id=14709	DSAVA5RK50	351

Commscope 7/8 Cable Connectors

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Description	Full Description	Nomenclature	APC	Price
78EZ DIN FEMALE CONNECTOR {MOTOROLA}	COMMSCOPE PART#: 78EZDF-M	DS78EZDFM	351	\$26.25
78EZ DIN MALE CONNECTOR {MOTOROLA}	COMMSCOPE PART#: 78EZDM-M	DS78EZDMM	351	\$26.25
78EZ N FEMALE CONNECTOR {MOTOROLA}	COMMSCOPE PART#: 78EZNF-M	DS78EZNFM	351	\$26.25
78EZNM-M N MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE PART#: 78EZNM-M	DS78EZNMM	351	\$26.25
D-CLASS, FEMALE 4.3-10 CONNECTOR	COMMSCOPE PART#: A5HF-D	DSA5HFD	351	\$26.25
D-CLASS, MALE 4.3-10 CONNECTOR	COMMSCOPE PART#: A5HM-D	DSA5HMD	351	\$26.25

Commscope 7/8 Cable Tools and Torque Wrenches

Description	Full Description	Nomenclature	APC
A5FX-EZPT CORREGATED 7/8IN CORING TOOL EXFIT-TO INSTALL 78EZDF CONNEC	COMMSCOPE PART#: A5FX-EZPT SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=47226&q=A5FX-EZPT&sayt=1	DSA5FXEZPT	351
TORQUE WRENCH FOR 7/8 IN EZFIT CONNECTORS, 34 MM	COMMSCOPE PART#: TW-78-EZFC SPEC SHEET LINK:	DSTW78EZFC	351
GKT-78SG GROUNDING KIT STRIP TOOL CORREGATED 7/8 CABLE	COMMSCOPE PART#: GKT-78SG SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=17334&q=GKT-78SG&sayt=1	DSGKT78SG	351

244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	COMMSCOPE PART#: 244379 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=13307&q=244379&sayt=1	DS244379	351
TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	COMMSCOPE PART#: TW-4310 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=51254&q=TW-4310&sayt=1	DSTW4310	351
244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE PART#: 244377 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/product_details.aspx?id=17334&q=GKT-78SG&sayt=1	DS244377	351

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ANC	DS244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	351	20
QUOTEDS	ANC	DS244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	351	15
QUOTEDS	EPN	DS4310F50V78N1	CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC5-50-A	351	5

QUOTEDS	TRJ	DS43FA01250B	4.3-10 FEMALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	351	3
QUOTEDS	TRJ	DS43FA07850B	4.3-10 FEMALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	351	3
QUOTEDS	TRJ	DS43MA07850B	4.3-10 MALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	351	3
QUOTEDS	EPN	DS716F50V78N1	CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC5-50-A	351	5
QUOTEDS	EPN	DS716M50V78N1	CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC5-50-A	351	5
QUOTEDS	ANC	DS78EZDFM	78EZ DIN FEMALE CONNECTOR {MOTOROLA}	351	10
QUOTEDS	ANC	DS78EZDMM	78EZ DIN MALE CONNECTOR {MOTOROLA}	351	10
QUOTEDS	ANC	DS78EZNFM	78EZ N FEMALE CONNECTOR {MOTOROLA}	351	15
QUOTEDS	ANC	DS78EZNMM	78EZN-M N MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	351	14
QUOTEDS	ANC	DSA5FXEZPT	A5FX-EZPT CORRUGATED 7/8IN CORING TOOL EXFIT- TO INSTALL 78EZDF CONNEC	351	20
QUOTEDS	ANC	DSA5HFD	D-CLASS, FEMALE 4.3-10 CONNECTOR	351	15
QUOTEDS	ANC	DSA5HMD	D-CLASS, MALE 4.3-10 CONNECTOR	351	15
			7/8 RADIATING, 50 OHM, LOW-SMOKE, NON-		

QUOTEDS	TRJ	DSAR078FV50	HALOGENATED, FIRE RETARDANT JAC	351	10
QUOTEDS	TRJ	DSAR078FV503B	7/8 RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	351	10
QUOTEDS	TRJ	DSAR078FV503C	7/8 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	351	10
QUOTEDS	TRJ	DSAR078FX50	7/8IN RADIATING, 50 OHM, LOW-SMOKE, FIRE RETARDANT JACKET	351	3
QUOTEDS	TRJ	DSAR078J50	AR078J50, 7/8" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	351	21
QUOTEDS	TRJ	DSAR078R50	7/8 RADIATING, 50 OHM, LOW-SMOKE, NON- HALOGENATED, FIRE RETARDANT JAC	351	10
QUOTEDS	TRJ	DSAT078FV50	7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	351	2
QUOTEDS	TRJ	DSAT078FX50	7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	351	2
QUOTEDS	TRJ	DSAT078J50	AT078J50, 7/8" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	351	3
QUOTEDS	TRJ	DSAT078R50	7/8 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON- HALOGENATED	351	2
QUOTEDS	TRJ	DSAT078U50	7/8" TRANSMISSION LINE, 50 OHM, UNJACKETED	351	2

QUOTEDS	ANC	DSAVA550	AVA5-50, COAXIAL CABLE, CORRUGATED COPPER, 7/8 IN, BLACK PE JACKET	908	21
QUOTEDS	ANC	DSAVA5RK50	CABLE: 7/8" COAX, VIRTUAL AIR, FIRE RETRDNT POLYOLEFIN JCKT	351	30
QUOTEDS	TRJ	DSCT07850AIO	PREP TOOL FOR 7/8" CABLE, 75 OHM & 50 OHM	351	5
QUOTEDS	TRJ	DSCT07850AIO2	CT07850AIO-2, PREP TOOL FOR 7/8" CABLE, 50 OHM	351	3
QUOTEDS	TRJ	DSCTAIO2RB3PK	REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	351	5
QUOTEDS	TRJ	DSCTAIORB2PK	REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	351	5
QUOTEDS	TRJ	DSDFA07850B	7/16 DIN FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	351	3
QUOTEDS	TRJ	DSDMA07850B	7/16 DIN MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	351	3
QUOTEDS	EPN	DSEC550A	COAXIAL CABLE, "A" SERIES 7/8 IN 50 OHM CORRUGATED COPPER W/ BLACK PE	351	5
QUOTEDS	EPN	DSEC550AHLFR	COAXIAL CABLE, "A" SERIES 7/8" 50 OHM CORRUGATED COPPER	351	5
QUOTEDS	EPN	DSF78	7/8" DRILL MOUNTED CABLE PREP TOOL	351	5
QUOTEDS	ANC	DSGKT78SG	GKT-78SG GROUNDING KIT STRIP TOOL CORREGATED 7/8 CABLE	351	20
QUOTEDS	EPN	DSGKTEC5	GROUND KIT PREP TOOL	351	5

			FOR 7/8" FOAM COAX CABLE		
QUOTEDS	EPN	DSNF50V78N1	CONNECTOR, N FEMALE INTERFACE FOR EC5-50-A	351	5
QUOTEDS	TRJ	DSNFA07850B	N FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	351	3
QUOTEDS	EPN	DSNM50V78N1	CONNECTOR, N MALE INTERFACE FOR EC5-50-A	351	5
QUOTEDS	TRJ	DSNMA07850B	N MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	351	3
QUOTEDS	EPN	DSTQ114F18M	7/16 DIN TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ30MMF22	7/8" DRILL MOUNTED CABLE PREP TOOL	351	5
QUOTEDS	EPN	DSTQ34F7	N COUPLER TORQUE WRENCH	351	5
QUOTEDS	EPN	DSTQ78F6	4.3-10 COUPLER TORQUE WRENCH	351	5
QUOTEDS	ANC	DSTW4310	TORQUE WRENCH FOR COUPLING TORQUE OF 4.3-10 CONNECTORS, 22 MM OPENING	351	15
QUOTEDS	ANC	DSTW78EZFC	TORQUE WRENCH FOR 7/8 IN EZFIT CONNECTORS, 34 MM	351	15
QUOTEDS	ANC	L3323	AVA5-50, 7/8 IN VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER	207	21
QUOTEDS	ANC	L3572	AVA5RK-50 CABLE: 7/8" COAX, VIRTUAL AIR, FIRE RETRDNT POLYOLEFIN JCKT	351	30

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[RF CABLES - GENERAL TOOLS AND ACCESSORIES](#)

RF CABLES - GENERAL TOOLS AND ACCESSORIES

This page contains information on products from MSI Preferred vendors, including Eupen, Trilogy, and Commscope.

For product information from non preferred vendors contact the vendor directly.

CONTACT INFORMATION

For internal technical assistance contact [Gary Owens](#) at 330-541-6585.

For ordering/product information contact the Product Planner, [Tim Martin](#), at 847-979-0413.

For information on Eupen products see the [Eupen website](#) or contact [Aaron Wilson](#) at 501-605-2341.

For information on Trilogy products see the [Trilogy website](#) or contact [Edmund Lee](#) at 601-667-9133.

Configuration

TRILOGY TOOLS AND ACCESSORIES - CABLE PREP TOOLS

Description	Full Description	Nomenclature	APC	Price
ICST, INNER CONDUCTOR STRIP TOOL	TRILOGY PART#: ICST	DSICST	351	\$96.50
ICST-RB, INNER CONDUCTOR STRIP TOOL REPLACEMENT BLADE	TRILOGY PART#: ICST-RB	DSICSTRB	351	\$28.00
PST012, PLENUM STRIP TOOL	TRILOGY PART#: PST012	DSPST012	351	\$189.00
PST012-RB, PLENUM STRIP TOOL REPLACEMENT BLADE	TRILOGY PART#: PST012-RB	DSPST012RB	351	\$42.00
POWER PLENUM STRIP	TRILOGY			

TOOL FOR NON-RADIATING	PART#: PCT012-2	DSPCT0122	351	\$504.00
REPLACEMENT BLADES FOR PREP TOOLS PCT012-2	TRIOLOGY PART#: PCT012-2RB/3PK	DSPCT0122RB3PK	351	\$378.00
POWER PLENUM STRIP TOOL FOR NON-RADIATING, OPTIMIZED FOR PIM	TRIOLOGY PART#: PPT012-PIM	DSPPT012PIM	351	\$595.00
FLARING TOOL FOR POWER PLENUM STRIP TOOL FOR NON-RADIATING	TRIOLOGY PART#: PPT-FT	DSPPTFT	351	\$141.00
TUBING CUTTER	TRIOLOGY PART#: TC1000	DSTC1000	351	\$126.00
KNIFE-BOX CUTTER	TRIOLOGY PART#: TC10099	DSTC10099	351	\$23.75
KNIFE-BOX CUTTER	TRIOLOGY PART#: TC63050	DSTC63050	351	\$126.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRIOLOGY PART#: W-CU	DSWCU	351	\$231.00
MID-SPAN JACKET STRIP TOOL FOR 1-5/8" CABLE (FOR ATTACHING GROUND KIT)	TRIOLOGY PART#: JST158MCJ	DSJST158MCJ	351	\$420.00
REPLACEMENT BLADES FOR PREP TOOL PPT012-PIM	TRIOLOGY PART#: PPT012-PIMRB	DSPPT012PIMRB	351	\$258.00

TRIOLOGY CABLE TOOLS AND ACCESSORIES - ADAPTERS

Description	Full	Nomenclature	APC	Price
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	Description			
AA-GU, UNIVERSAL GALVANIZED ANGLE ADAPTOR, PKG OF 10	TRILOGY PART#: AA-GU	DSAAGU	351	\$99.50
AA-38L, GALVANIZED ANGLE ADAPTOR, LARGE W/ 3/8" TAPPED HOLES,PKG OF 10	TRILOGY PART#: AA-38L	DSAA38L	351	\$99.50
UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	TRILOGY PART#: AA-U	DSAAU	351	\$143.00
UNIVERSAL ROUND MEMBER SUPPORT BRACKET (KIT OF 10)	TRILOGY PART#: RM-USBG	DSRMUSBG	351	\$294.00
SA-SS200, UNIV SST STAND-OFF ADAPTOR FOR 2-3" OD MEMBERS, PKG OF 10	TRILOGY PART#: SA-SS200	DSSASS200	351	\$95.25

TRILOGY CABLE TOOLS AND ACCESSORIES - HANGERS AND HANGER HARDWARE

Description	Full Description	Nomenclature	APC	Price
BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-12	DSBH12	351	\$54.50
BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-58	DSBH58	351	\$54.50
BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-78	DSBH78	351	\$54.50
BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-114	DSBH114	351	\$54.50

BH-158 BUTTERFLY HANGER FOR 1-5/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-158	DSBH158	351	\$54.50
BHK-34-10,HANGER HARDWARE 3/8" X 3/4" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-34-10	DSBHK3410	351	\$20.00
BHK-100-10, HANGER HARDWARE 3/8" X 1" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-100-10	DSBHK10010	351	\$19.50
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U12	DSSHU12	351	\$52.00
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U58	DSSHU58	351	\$52.00
SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U78	DSSHU78	351	\$52.00
SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U114	DSSHU114	351	\$52.00
SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U158	DSSHU158	351	\$52.00
STACKABLE SNAP-IN HANGER FOR 1/2" AIRCELL COAX (PACKAGE OF 10)	TRILOGY PART#: SHS-12	DSSH12	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 7/8"	TRILOGY PART#:	DSSH78	351	\$66.00

AIRCELL COAX (PACKAGE OF 10)	SHS-78			
STACKABLE SNAP-IN HANGER FOR 114" AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-114	DSSHS114	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-158	DSSHS158	351	\$66.00
CLC#15, PLASTIC SELF- LOCKING HANGERS FOR 1/2" AIRCELL COAX,PKG OF 100	TRIOLOGY PART#: CLC#15	DSCLC15	351	\$160.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX	TRIOLOGY PART#: CLC#20	DSCLC20	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX, RISER RATED	TRIOLOGY PART#: CLC#22	DSCLC22	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 7/8" AIRCELL COAX, UNJACKETED	TRIOLOGY PART#: CLC#25	DSCLC25	351	\$157.00
CLC#28, PLASTIC SELF- LOCKING HANGERS FOR 7/8" AIRCELL COAX, PKG OF 50	TRIOLOGY PART#: CLC#28	DSCLC28	351	\$157.00
CLC#40,PLASTIC SELF- LOCKING HANGERS FOR 1-1/4" AIRCELL COAX,PKG OF 25	TRIOLOGY PART#: CLC#40	DSCLC40	351	\$175.00
CLC#51,PLASTIC SELF- LOCKING HANGERS FOR 1-5/8" AIRCELL COAX,PKG OF 25	TRIOLOGY PART#: CLC#51	DSCLC51	351	\$189.00

CLC#78P, PLASTIC RADIATING CABLE HANGER FOR 7/8" AIRCELL COAX	TRILOGY PART#: CLC#78P	DSCLC78P	351	\$5.05
CLC#114P, PLASTIC RADIATING CABLE HANGER FOR 1-1/4" AIRCELL COAX	TRILOGY PART#: CLC#114P	DSCLC114P	351	\$7.70
CLC#158P, PLASTIC RADIATING CABLE HANGER FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: CLC#158P	DSCLC158P	351	\$11.00
CLC#78M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 7/8	TRILOGY PART#: CLC#78M	DSCLC78M	351	\$15.50
CLC#114M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-1/4	TRILOGY PART#: CLC#114M	DSCLC114M	351	\$19.50
CLC#158M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-5/8	TRILOGY PART#:CLC#158M	DSCLC158M	351	\$21.25
CLC#MSG78, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 7/8	TRILOGY PART#:CLC#MSG78	DSCLCMSG78	351	\$6.90
CLC#MSG114, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-1/4	TRILOGY PART#:CLC#MSG114	DSCLCMSG114	351	\$7.55
CLC#MSG158, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-5/8	TRILOGY PART#:CLC#MSG158	DSCLCMSG158	351	\$8.25

TRILOGY CABLE TOOLS AND ACCESSORIES - GROUND KITS

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Description	Full Description	Nomenclature	APC	Price
GB-02519T-U, TIN PLATED, 1/4 X 2-1/2 X 19-1/2, W/UNIVERSAL HARDWARE KIT	TRILOGY PART#: GB-02519T-U	DSGB02519TU	351	\$294.00
GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX	TRILOGY PART#: GK-S12AC	DSGKS12AC	351	\$49.00
STD GROUND KIT FOR 5/8 AIRCELL COAX	TRILOGY PART#: GK-S58AC	DSGKS58AC	351	\$49.00
GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX	TRILOGY PART#: GK-S78AC	DSGKS78AC	351	\$49.00
GK-S114/158AC, STD GROUND KIT FOR 1-1/4" & 1-5/8" AIRCELL COAX	TRILOGY PART#: GK-S114/158AC	DSGKS114158AC	351	\$49.00

TRILOGY CABLE TOOLS AND ACCESSORIES - HOISTING GRIPS

Description	Full Description	Nomenclature	APC	Price
HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX	TRILOGY PART#: HG-12	DSHG12	351	\$49.00
HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	TRILOGY PART#: HG-58	DSHG58	351	\$67.25
HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX	TRILOGY PART#: HG-78	DSHG78	351	\$67.25
HG-114, LACE-UP HOISTING GRIP FOR 1-1/4" AIRCELL COAX	TRILOGY PART#: HG-114	DSHG114	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	TRILOGY PART#: HG-114L	DSHG114L	351	\$74.25

HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: HG-158	DSHG158	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-5/8 AIRCELL COAX	TRILOGY PART#: HG-158L	DSHG158L	351	\$74.25

TRILOGY CABLE TOOLS AND ACCESSORIES - SPACERS AND FLANGE/STUD

Description	Full Description	Nomenclature	APC	Price
CLC#LT101,FLANGE INSERTS INTO HANGER SLOT. USE 1/4-20 STUD ROD,PKG 100	TRILOGY PART#: CLC#LT101	DSCLCLT101	351	\$143.00
STRUTCATCHER PKG OF 100	TRILOGY PART#: CLC#LT109	DSCLCLT109	351	\$462.00
CLC#LT45,PLASTIC STANDOFF POSTS W/ 1-5/8"LNTH(2"STANDOFF),PKG OF 100	TRILOGY PART#: CLC#LT45	DSCLCLT45	351	\$391.00
PLASTIC STANDOFF POSTS (PROVIDES 4" STANDOFF) PKG OF 50	TRILOGY PART#: CLC#LT85	DSCLCLT85	351	\$511.00
PLASTIC 2" STAND-OFF SPACER AND WALL ANCHOR WITH SCREW	TRILOGY PART#: CLC#SS	DSCLCSS	351	\$5.05
PREMIUM PLASTIC 3" STAND-OFF SPACER	TRILOGY PART#: CLC#SS80	DSCLCSS80	351	\$8.40
CLC#SSM, METAL 2" STAND-OFF SPACER AND WALL ANCHOR WITH 8MM HOLE	TRILOGY PART#:CLC#SSM	DSCLCSSM	351	\$10.25
PREMIUM STAINLESS 4" STAND-OFF SPACER	TRILOGY PART#:CLC#SSM4	DSCLCSSM4	351	\$14.00

TRILOGY CABLE TOOLS AND ACCESSORIES - MISC.

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Description	Full Description	Nomenclature	APC	Price
MINI COAX SUPPORT BLOCKS FOR 1-5/8 AIRCELL COAX	TRILOGY PART#: CB-158	DSCB158	351	\$63.00
HARDWARE KIT FOR THREE 1-5/8 AIRCELL SUPPORT BLOCKS PKG OF 10	TRILOGY PART#: HK-TSCB158	DSHKTSCB158	351	\$54.50
4" BOOT ASSEMBLY, CUSHION NOT INCLUDED	TRILOGY PART#: BA-400	DSBA400	351	\$54.50
STANDARD PORT CUSHION W/ 1 HOLE FOR 1/2 AIRCELL COAX	TRILOGY PART#: SC-12-1	DSSC121	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 1/2 AIRCELL COAX	TRILOGY PART#: SC-12-2	DSSC122	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 5/8 AIRCELL COAX	TRILOGY PART#: SC-58-1	DSSC581	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 7/8 AIRCELL COAX	TRILOGY PART#: SC-78-1	DSSC781	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1-5/8 AIRCELL COAX	TRILOGY PART#: SC-158-1	DSSC1581	351	\$11.25
RM-A100, ROUND MEMBER ADAPTOR 1"-2" OD, PKG OF 10	TRILOGY PART#: RM-A100	DSRMA100	351	\$29.50
RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	TRILOGY PART#: RM-A200	DSRMA200	351	\$33.50
RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	TRILOGY PART#: RM-A300	DSRMA300	351	\$37.75

WK-U, UNIVERSAL WEATHERPROOFING KIT	TRILOGY PART#: WK-U	DSWKU	351	\$43.50
COLD SHRINK WEATHERPROOFING 1/2" TO 1-5/8" AIRCELL COAX	TRILOGY PART#: CSU-12158	DSCSU12158	351	\$71.50
3M SCOTCH COTE SPRAY SEALER, 13OZ. CAN	TRILOGY PART#: MT-461	DSMT461	351	\$168.00
TRM-NM-1W, TERMINATION N-MALE, 1 WATT	TRILOGY PART#: TRM-NM-1W	DSTRNM1W	351	\$63.00

COMMSCOPE CABLE TOOLS AND ACCESSORIES - ADAPTERS AND HARDWARE

Description	Full Description	Nomenclature	APC	
243684 CLICKON ANGLE ADAPTOR 3/8", KIT OF 10	COMMSCOPE PART#: 243684 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13071/243684.pdf	DS243684	351	
MINI ANGLE ADAPTER ASSY,KIT OF 10	COMMSCOPE PART#: 252026-10KT-P SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/45174/252026-10KT-P.pdf	DS25202610KTP	351	
SINGLE STACK HDW KT,MINI CLICK- ON,10 EA	COMMSCOPE PART#: 252027-10KT-P SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/45162/252027-10KT-P.pdf	DS25202710KTP	351	
DBL STACK HDW KIT FOR MINI CLICK- ON,10EA	COMMSCOPE PART#: 252028-10KT-P SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/45162/252027-10KT-P.pdf	DS25202810KTP	351	
DBL STACK				

HDW KIT FOR MINI CLICK-ON,10EA	COMMSCOPE PART#: 252029-10KT-P SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/45164/252029-10KT-P.pdf	DS25202910KTP	351
31670-2 ADAPTER 2" TO 3" ROUND MEMBER MOUNT	COMMSCOPE PART#: 31670-2 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13098/31670-2.pdf	TDN6952	351
31670-3 ADAPTER 3" TO 4" ROUND MEMBER MOUNTING	COMMSCOPE PART#: 31670-3 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13099/31670-3.pdf	TDN6953	351
ADAPTER 4" TO 5" ROUND MEMBER MOUNT	COMMSCOPE PART#: 31670-4 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13100/31670-4.pdf	TDN6954	351
31769-5, 3/8" HARDWARE KIT, QTY 10	COMMSCOPE PART#: 31769-5 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/49670/31769-5.pdf	DS317695	351
SNAP-IN ADAPTER BLOCK KIT, KIT OF 10	COMMSCOPE PART#: SA-38 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13111/SA-38.pdf	DSSA38	351
UA-3 UNIVERSAL ANGLE ADAPTOR KIT, KIT OF TEN	COMMSCOPE PART#: UA-3 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13117/UA-3.pdf	DSUA3	351
UNIVERSAL ANGLE ADAPTER INSERT KIT, 10 EACH	COMMSCOPE PART#: UAAI SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/13118/UAAI.pdf	DSUAAI	351

COMMSCOPE CABLE TOOLS AND ACCESSORIES - CABLE ENTRY

Description	Full Description	Nomenclature	APC
CAP-4 SNAP- IN ENTRY PORT CAP, 4 IN	COMMSCOPE PART#: CAP-4 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/14382/CAP-4.pdf	DSCAP4	351
SCE-114 SINGLE ENTRANCE ASSEMBLY FOR 1-1/4 IN COAXIAL CABLE	COMMSCOPE PART#: SCE-114 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/14418/SCE-114.pdf	DSSCE114	351
SCE-12 WALL/ROOF FEED THRU KIT, FOR 1/2" CABLE	COMMSCOPE PART#: SCE-12 SPEC SHEET LINK: https://www.commscope.com/catalog/tools_accessories/pdf/part/14419/SCE-12.pdf	DSSCE12	351
5/8" CABLE WALL/ROOF FEED-THRU ASSEMBLY	COMMSCOPE PART#: SCE-158 SPEC SHEET LINK: TBD	DSSCE58	351
SCE-78 CABLE SIZE 7/8" SINGLE ENTRANCE WALL/ROOF FEED-THRU ASSEMBLY	COMMSCOPE PART#: SCE-78 SPEC SHEET LINK: TBD	DSSCE78	351
SEC-1114 SNAP - SEAL ENTRY CUSHION 1X1 1/4" KT OF 1	COMMSCOPE PART#: SEC-1114 SPEC SHEET LINK: TBD	DSSEC1114	351
SEC-1158 SNAP-SEAL ENTRY CUSHION W/1	COMMSCOPE PART#: SEC-1158 SPEC SHEET	DSSEC1158	351

HOLE FOR 1-5/8" CORRGATD COAX CBL	LINK: TBD		
SEC-378 SNAP-SEAL ENTRY CUSHION 3 X 7/8", KIT OF 1	COMMSCOPE PART#: SEC-378 SPEC SHEET LINK: TBD	DSSEC378	351
SEC-412 SNAP-SEAL ENTRY CUSHION 4 X 1/2IN KIT OF 1	COMMSCOPE PART#: SEC-412 SPEC SHEET LINK: TBD	DSSEC412	351
SNAPSEAL ENTRY CUSHION WITH 6 HOLES FOR 1/4" CORRUGATED COAXIAL CABLE	COMMSCOPE PART#: SEC-614 SPEC SHEET LINK: TBD	DSSEC614	351
SNAPSEAL ENTRY CUSHION WITH 6 HOLES FOR 3/8" CORRUGATED COAXIAL CABLE	COMMSCOPE PART#: SEC-638 SPEC SHEET LINK: TBD	DSSEC638	351

COMMSCOPE CABLE TOOLS AND ACCESSORIES - GROUNDING KITS

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
			243095-2 1-1/4 INCH OR 1-5/8		

QUOTEDS	ANC	DS2430952	INCH CLICKON HARDWARE 3 STACK	351	15
QUOTEDS	ANC	DS243684	243684 CLICKON ANGLE ADAPTOR 3/8", KIT OF 10	351	15
QUOTEDS	ANC	DS25202610KTP	MINI ANGLE ADAPTER ASSY,KIT OF 10	351	10
QUOTEDS	ANC	DS25202710KTP	SINGLE STACK HDW KT,MINI CLICK-ON,10 EA	351	10
QUOTEDS	ANC	DS25202810KTP	DBL STACK HDW KIT FOR MINI CLICK-ON,10EA	351	15
QUOTEDS	ANC	DS25202910KTP	DBL STACK HDW KIT FOR MINI CLICK-ON,10EA	351	15
QUOTEDS	ANC	DS317695	31769-5, 3/8" HARDWARE KIT, QTY 10	351	15
QUOTEDS	TRJ	DSAA38L	AA-38L, GALVANIZED ANGLE ADAPTOR, LARGE W/ 3/8" TAPPED HOLES,PKG OF 10	351	5
QUOTEDS	TRJ	DSAAGU	AA-GU, UNIVERSAL GALVANIZED ANGLE ADAPTOR, PKG OF 10	351	5
QUOTEDS	TRJ	DSAAU	UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	351	5
QUOTEDS	TRJ	DSBA400	4" BOOT ASSEMBLY, CUSHION NOT INCLUDED	351	14
QUOTEDS	TRJ	DSBH114	BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX,PKG OF 10	351	5
QUOTEDS	TRJ	DSBH12	BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX,PKG OF 10	351	3
QUOTEDS	TRJ	DSBH158	BH-158 BUTTERFLY HANGER FOR 1-5/8 AIRCELL	351	5

			COAX,PKG OF 10		
QUOTEDS	TRJ	DSBH58	BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX,PKG OF 10	351	5
QUOTEDS	TRJ	DSBH78	BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX,PKG OF 10	351	5
QUOTEDS	TRJ	DSBHK10010	BHK-100-10, HANGER HARDWARE 3/8" X 1" HEX BOLT W/ WASHER & NUT, PKG 10	351	3
QUOTEDS	TRJ	DSBHK3410	BHK-34-10,HANGER HARDWARE 3/8" X 3/4" HEX BOLT W/ WASHER & NUT, PKG 10	351	14
QUOTEDS	ANC	DSCAP4	CAP-4 SNAP-IN ENTRY PORT CAP, 4 IN	351	10
QUOTEDS	TRJ	DSCB158	MINI COAX SUPPORT BLOCKS FOR 1-5/8 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSCLC114M	CLC#114M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-1/4	351	5
QUOTEDS	TRJ	DSCLC114P	CLC#114P, PLASTIC RADIATING CABLE HANGER FOR 1-1/4" AIRCELL COAX	351	5
QUOTEDS	TRJ	DSCLC15	CLC#15, PLASTIC SELF-LOCKING HANGERS FOR 1/2" AIRCELL COAX,PKG OF 100	351	5
QUOTEDS	TRJ	DSCLC158M	CLC#158M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-5/8	351	5
QUOTEDS	TRJ	DSCLC158P	CLC#158P, PLASTIC RADIATING CABLE HANGER FOR 1-5/8" AIRCELL COAX	351	5

QUOTEDS	TRJ	DSCLC20	PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSCLC22	PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX, RISER RATED	351	5
QUOTEDS	TRJ	DSCLC25	PLASTIC SELF-LOCKING CABLE HANGERS FOR 7/8" AIRCELL COAX, UNJACKETED	351	5
QUOTEDS	TRJ	DSCLC28	CLC#28, PLASTIC SELF- LOCKING HANGERS FOR 7/8" AIRCELL COAX, PKG OF 50	351	5
QUOTEDS	TRJ	DSCLC40	CLC#40, PLASTIC SELF- LOCKING HANGERS FOR 1- 1/4" AIRCELL COAX, PKG OF 25	351	5
QUOTEDS	TRJ	DSCLC51	CLC#51, PLASTIC SELF- LOCKING HANGERS FOR 1- 5/8" AIRCELL COAX, PKG OF 25	351	5
QUOTEDS	TRJ	DSCLC78M	CLC#78M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 7/8	351	5
QUOTEDS	TRJ	DSCLC78P	CLC#78P, PLASTIC RADIATING CABLE HANGER FOR 7/8" AIRCELL COAX	351	5
QUOTEDS	TRJ	DSCLCLT101	CLC#LT101, FLANGE INSERTS INTO HANGER SLOT. USE 1/4- 20 STUD ROD, PKG 100	351	5
QUOTEDS	TRJ	DSCLCLT109	STRUTCATCHER PKG OF 100	351	5
QUOTEDS	TRJ	DSCLCLT45	CLC#LT45, PLASTIC STANDOFF POSTS W/ 1- 5/8" LENGTH (2" STANDOFF), PKG OF 100	351	5

QUOTEDS	TRJ	DSCLCLT85	PLASTIC STANDOFF POSTS (PROVIDES 4" STANDOFF) PKG OF 50	351	5
QUOTEDS	TRJ	DSCLCMMSG114	CLC#MSG114, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-1/4	351	5
QUOTEDS	TRJ	DSCLCMMSG158	CLC#MSG158, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-5/8	351	5
QUOTEDS	TRJ	DSCLCMMSG78	CLC#MSG78, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 7/8	351	5
QUOTEDS	TRJ	DSCLCSS	PLASTIC 2" STAND-OFF SPACER AND WALL ANCHOR WITH SCREW	351	5
QUOTEDS	TRJ	DSCLCSS80	PREMIUM PLASTIC 3" STAND- OFF SPACER	351	5
QUOTEDS	TRJ	DSCLCSSM	CLC#SSM, METAL 2" STAND- OFF SPACER AND WALL ANCHOR WITH 8MM HOLE	351	5
QUOTEDS	TRJ	DSCLCSSM4	PREMIUM STAINLESS 4" STAND-OFF SPACER	351	5
QUOTEDS	TRJ	DSCSU12158	COLD SHRINK WEATHERPROOFING 1/2" TO 1-5/8" AIRCELL COAX	351	5
QUOTEDS	TRJ	DSGB02519TU	GB-02519T-U, TIN PLATED, 1/4 X 2-1/2 X 19-1/2, W/UNIVERSAL HARDWARE KIT	351	5
QUOTEDS	TRJ	DSGKS114158AC	GK-S114/158AC, STD GROUND KIT FOR 1-1/4" & 1- 5/8" AIRCELL COAX	351	14


QUOTEDS	TRJ	DSGKS12AC	GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX	351	2
QUOTEDS	TRJ	DSGKS58AC	STD GROUND KIT FOR 5/8 AIRCELL COAX	351	2
QUOTEDS	TRJ	DSGKS78AC	GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX	351	14
QUOTEDS	TRJ	DSHG114	HG-114, LACE-UP HOISTING GRIP FOR 1-1/4" AIRCELL COAX	351	14
QUOTEDS	TRJ	DSHG114L	PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	351	14
QUOTEDS	TRJ	DSHG12	HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX	351	2
QUOTEDS	TRJ	DSHG158	HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	351	5
QUOTEDS	TRJ	DSHG158L	PRE-LACED HOISTING GRIP FOR 1-5/8 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSHG58	HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	351	5
QUOTEDS	TRJ	DSHG78	HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX	351	4
QUOTEDS	TRJ	DSHKTSCB158	HARDWARE KIT FOR THREE 1-5/8 AIRCELL SUPPORT BLOCKS PKG OF 10	351	5
QUOTEDS	TRJ	DSICST	ICST, INNER CONDUCTOR STRIP TOOL	351	5
QUOTEDS	TRJ	DSICSTRB	ICST-RB, INNER CONDUCTOR STRIP TOOL REPLACEMENT BLADE	351	5
QUOTEDS	TRJ	DSJST158MCJ	MID-SPAN JACKET STRIP TOOL FOR 1-5/8" CABLE (FOR ATTACHING GROUND KIT)	351	5

QUOTEDS	TRJ	DSMT461	3M SCOTCH COTE SPRAY SEALER, 13OZ. CAN	351	5
QUOTEDS	TRJ	DSPCT0122	POWER PLENUM STRIP TOOL FOR NON-RADIATING	351	5
QUOTEDS	TRJ	DSPCT0122RB3PK	REPLACEMENT BLADES FOR PREP TOOLS PCT012-2	351	5
QUOTEDS	TRJ	DSPPT012PIM	POWER PLENUM STRIP TOOL FOR NON-RADIATING, OPTIMIZED FOR PIM	351	5
QUOTEDS	TRJ	DSPPT012PIMRB	REPLACEMENT BLADES FOR PREP TOOL PPT012-PIM	351	5
QUOTEDS	TRJ	DSPPTFT	FLARING TOOL FOR POWER PLENUM STRIP TOOL FOR NON-RADIATING	351	5
QUOTEDS	TRJ	DSPST012	PST012, PLENUM STRIP TOOL	351	5
QUOTEDS	TRJ	DSPST012RB	PST012-RB, PLENUM STRIP TOOL REPLACEMENT BLADE	351	5
QUOTEDS	TRJ	DSRMA100	RM-A100, ROUND MEMBER ADAPTOR 1"-2" OD, PKG OF 10	351	5
QUOTEDS	TRJ	DSRMA200	RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	351	5
QUOTEDS	TRJ	DSRMA300	RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	351	5
QUOTEDS	TRJ	DSRMUSBG	UNIVERSAL ROUND MEMBER SUPPORT BRACKET (KIT OF 10)	351	20
QUOTEDS	ANC	DSSA38	SNAP-IN ADAPTER BLOCK KIT, KIT OF 10	351	20

QUOTEDS	TRJ	DSSASS200	SA-SS200, UNIV SST STAND-OFF ADAPTOR FOR 2-3" OD MEMBERS, PKG OF 10	351	5
QUOTEDS	TRJ	DSSC121	STANDARD PORT CUSHION W/ 1 HOLE FOR 1/2 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSSC122	STANDARD PORT CUSHION W/ 2 HOLE FOR 1/2 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSSC1581	STANDARD PORT CUSHION W/ 1 HOLE FOR 1-5/8 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSSC581	STANDARD PORT CUSHION W/ 1 HOLE FOR 5/8 AIRCELL COAX	351	5
QUOTEDS	TRJ	DSSC781	STANDARD PORT CUSHION W/ 1 HOLE FOR 7/8 AIRCELL COAX	351	5
QUOTEDS	ANC	DSSCE114	SCE-114 SINGLE ENTRANCE ASSEMBLY FOR 1-1/4 IN COAXIAL CABLE	351	25
QUOTEDS	ANC	DSSCE12	SCE-12 WALL/ROOF FEED THRU KIT, FOR 1/2" CABLE	351	22
QUOTEDS	ANC	DSSCE58	5/8" CABLE WALL/ROOF FEED-THRU ASSEMBLY	351	3
QUOTEDS	ANC	DSSCE78	SCE-78 CABLE SIZE 7/8" SINGLE ENTRANCE WALL/ROOF FEED-THRU ASSEMBLY	351	26
QUOTEDS	ANC	DSSEC1114	SEC-1114 SNAP - SEAL ENTRY CUSHION 1X1 1/4" KT OF 1	351	17
QUOTEDS	ANC	DSSEC1158	SEC-1158 SNAP-SEAL ENTRY CUSHION W/1 HOLE FOR 1-	351	15

			5/8" CORRIGATD COAX CBL		
QUOTEDS	ANC	DSSEC378	SEC-378 SNAP-SEAL ENTRY CUSHION 3 X 7/8", KIT OF 1	351	17
QUOTEDS	ANC	DSSEC412	SEC-412 SNAP-SEAL ENTRY CUSHION 4 X 1/2IN KIT OF 1	351	15
QUOTEDS	ANC	DSSEC614	SNAPSEAL ENTRY CUSHION WITH 6 HOLES FOR 1/4" CORRUGATED COAXIAL CABLE	351	15
QUOTEDS	ANC	DSSEC638	SNAPSEAL ENTRY CUSHION WITH 6 HOLES FOR 3/8" CORRUGATED COAXIAL CABLE	351	15
QUOTEDS	TRJ	DSSHS114	STACKABLE SNAP-IN HANGER FOR 114" AIRCELL COAX (PACKAGE OF 10)	351	5
QUOTEDS	TRJ	DSSHS12	STACKABLE SNAP-IN HANGER FOR 1/2" AIRCELL COAX (PACKAGE OF 10)	351	5
QUOTEDS	TRJ	DSSHS158	STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	351	5
QUOTEDS	TRJ	DSSHS78	STACKABLE SNAP-IN HANGER FOR 7/8" AIRCELL COAX (PACKAGE OF 10)	351	5
QUOTEDS	TRJ	DSSHU114	SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	351	14
QUOTEDS	TRJ	DSSHU12	SH-U12, UNIVERSAL SNAP-IN HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	351	5
QUOTEDS	TRJ	DSSHU158	SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	351	15

QUOTEDS	TRJ	DSSHU58	SH-U12, UNIVERSAL SNAP-IN HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	351	5
QUOTEDS	TRJ	DSSHU78	SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	351	14
QUOTEDS	TRJ	DSTC1000	TUBING CUTTER	351	5
QUOTEDS	TRJ	DSTC10099	KNIFE-BOX CUTTER	351	5
QUOTEDS	TRJ	DSTC63050	KNIFE-BOX CUTTER	351	5
QUOTEDS	TRJ	DSTRMNM1W	TRM-NM-1W, TERMINATION N-MALE, 1 WATT	351	5
QUOTEDS	ANC	DSUA3	UA-3 UNIVERSAL ANGLE ADAPTOR KIT, KIT OF TEN	351	14
QUOTEDS	ANC	DSUAAI	UNIVERSAL ANGLE ADAPTER INSERT KIT, 10 EACH	351	15
QUOTEDS	TRJ	DSWCU	15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	351	5
QUOTEDS	TRJ	DSWKU	WK-U, UNIVERSAL WEATHERPROOFING KIT	351	5
QUOTEDS	ANC	TDN6952	31670-2 ADAPTER 2" TO 3" ROUND MEMBER MOUNT	351	15
QUOTEDS	ANC	TDN6953	31670-3 ADAPTER 3" TO 4" ROUND MEMBER MOUNTING	351	15
QUOTEDS	ANC	TDN6954	ADAPTER 4" TO 5" ROUND MEMBER MOUNT	351	5



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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Real Time Crime Center Services 2.0
(RTCC 2.0)**

Ordering Information

Executive Summary

Real Time Crime Center enables smart policing and emergency response by provisioning real-time intelligence to first responders during incidents and making video and other data and media inputs available and actionable. With the Real-Time Crime Center solution from Motorola Solutions, law enforcement officers can now approach an incident armed with more operational intelligence than ever before. Inputs from multiple data sources such as video, sensors, alarms, computer-aided dispatch (CAD) and records are integrated with data analytics to deliver one, unified operational view.

RTCC enables better situational awareness and allows for more proactive responses resulting in smarter and safer decisions. Advanced public safety analytics deliver intelligent data and video to anticipate crowd formations, recognize faces, or detect gunshots to help agencies become more proactive, shortening response times and optimizing resource strategies.

Product Description

Overview

Real Time Crime Center Services 2.0 supports the current RTCC Solution related to all hardware, software and virtual feature connectors which can connect to stand alone systems such as UNS, UEM, APLR, etc.

RTCC Technical Support

RTCC Technical Support service provides continuous centralized remote telephone support for technical issues that require a high level of RTCC solutions expertise or troubleshooting on RTCC equipment. Once a trouble call is received from the customer technical resource, Motorola immediately begins diagnosis of the event. This may also include remotely connecting and interrogating the RTCC system, running appropriate diagnostics, characterizing the problem, and remotely restoring the affected device or subsystem. If a remote fix is not possible, if the customer has a current Onsite Infrastructure Response & Dispatch service contract, a field technician will be dispatched to the site. Motorola will engage relevant engineering resources, as required, to resolve the issue.

RTCC Onsite Infrastructure Response with Dispatch Service - Standard & Premier Options

On-Site Infrastructure Response & Dispatch service provides Case Management and

escalation for onsite technical service requirements. The On-Site Infrastructure Response & Dispatch service is delivered by the MSI's Solutions Support Center ("SSC") in conjunction with a local service provider. The SSC is responsible for opening a Case for on-site support and monitoring the status of that Case to ensure strict compliance to committed Response Times.

Service is available 24*7 to dispatch servicers to be at a customer's site within a specific timeframe, which is defined by the severity of the problem.

SSC will create a Case as necessary when On-Site Infrastructure Response & Dispatch service requests are received. Gather information to perform the following:

- Characterize the issue.
- Determine a plan of action.
- Assign and track the Case to resolution.
- Dispatch. Call out a Servicer as required by MSI standard procedures.

Once on-site, the servicer will diagnose the issue and work towards resolution which may include installation of necessary patches (to the extent that the customer is entitled to receive them), installing new hardware with the units provided by the customer or under the MSI RTCC Solution Advanced Replacement Support service.

RTCC Advanced Replacement Support

RTCC Solution Advanced Replacement is a repair exchange service for Motorola Solutions, Inc. ("MSI") and select third party infrastructure supplied by MSI. When available, MSI will provide customer with an advanced replacement unit(s) or Field Replacement Units ("FRU") in exchange for customer's malfunctioning equipment. All malfunctioning equipment returned to and kept by MSI becomes the property of MSI. This service provides replacement for the RTCC, MSIP and RIC server hardware that comprise the RTCC Solution.

Replacement units and Field Replaceable units will be shipped directly to the Customer. Shipments will be made to customer prior to receiving the Customer's damaged unit in the service center. Infrastructure will ship for next-business-day delivery. In NA calls must be received before 7 p.m. (EST) for the Infrastructure to ship the day the call is placed (excludes MSI-observed holidays).

NOTE: The terms and conditions of all Statement of Works (SOW) are an integral part of Motorola's Service Terms and Conditions or other applicable agreement to which it is attached and made a part thereof by this reference.

Features

RTCC Technical Support	RTCC Dispatch Service – Call Management Service	RTCC Onsite Infrastructure Response - Standard & Premier Options	RTCC Infrastructure Response with Advanced Replacement Manage Original Equipment
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Remote Diagnostic & Escalation Troubleshooting	Management	Motorola Technical Expertise	Manufacturer (OEM) repair process, coordination, and testing
Laboratory Simulation of System Issues	Computer Aided Dispatch	On-site Motorola Authorized Servicer	Equipment shipped and replaced before original equipment returned
Access to Motorola Technical Expertise	Activity Reporting	24 Hour/365 day service availability	
24 Hour/365 Day Service Availability	24 Hour/365 Day Service Availability		
	Single Point of Contact		
	Electronic Case Tracking		
	Toll Free Service Number (800) 221-7144		

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

All SOW's can be found on Insite ([Click here](#)) and will also be loaded and linked to the appropriate models in Services Life Cycle (SLC)

- RTCC Technical Support SOW
- RTCC Dispatch and OnSite Infrastructure Response Service SOW
- RTCC Infrastructure Repair with Advanced Replacement SOW

Ordering Requirements

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application (SLC). Please contact your local Territory

Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product.

Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of products. To ensure accurate pricing, orders will not be processed or accepted if they do not include all systems components.

1. Enter the main line item as quantity one.
2. Options are required as sub-items, with the quantity equal to the option description.
3. All dollar amounts reflect an annual one year pricing.
4. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Site ID & Technology Information

Site ID Prefixes:

- PSAXXXX_(RTCC) – Format should be used for New & Existing customers.

Technology: All Sites should use **RTCC** as the technology in order to build Install Base and price all SLC Contracts correctly.

Configuration

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



**SIERRA WIRELESS IN VEHICLE ROUTER
BASED SOLUTIONS**

**KEEPING YOU AND YOUR VEHICLE
CONNECTED**

**WITH REMOTE WORKING A CRITICAL ELEMENT
OF PUBLIC SAFETY, MOBILE CONNECTIVITY IS
VITAL.**

IT'S ALL ABOUT INFORMATION FLOW

IMPORTANT NOTE:

- *Maximum discount over list price is 15%. Additional discounts will require price exception approvals.*
- *Prices DO NOT include installation or configuration services. For quoting installation and configuration services please contact your Pre-Sales Quoting team.*

Updates

NEW JULY 2019!

TO REGISTER FOR AIRLINK COMPLETE SEE BELOW:

Go to this website: <https://www.sierrawireless.com/complete/register/>

New Customer will need to log in and create a log in account.

This process costs nothing – it is a free service that is included in the first year of the MP70 and RV55 that you are receiving.

It will register the devices for you to be eligible to call in for phone support and the use of ALMS (our online management software).

IT'S ALL ABOUT INFORMATION FLOW

Vehicle routers keep people connected in vehicles so they can access real-time intelligence on the road. They provide a bubble of connectivity around the vehicle that allows a variety of equipment from laptops and tablets to in-vehicle and body-worn cameras to access the Internet. We call this bubble a vehicle area network (VAN) and the connectivity between the VAN and the enterprise network is what makes the crucial flow of information between the field and base possible. For public safety, this information flow can be a lifeline. Mobile connectivity over WAN allows frontline teams to transmit and receive data securely in real time – video feeds, maps and criminal record databases, for example – and coordinate their response with other emergency services. Command can monitor the location and status of assets, access telemetry and see fleet information such as data on driver behavior. This two-way flow of information help keep responders safe and effective.

ALL NEW ROUTERS MUST BE REGISTERED HERE: <https://www.sierrawireless.com/complete/register/>

Sierra Wireless Courses:

[SVC0055 Sierra Wireless: Connected Networking Solution Overview](#)

[SVC0056 Sierra Wireless: Gateway Portfolio Overview](#)

[SVC0061 Sierra Wireless: Basic MG90 for Mobility](#)

[SVC0062 Sierra Wireless: Basic MP70 for Mobility](#)

Please see Selling Sierra Wireless LTE Vehicle Routers Webinar recording here:
<https://register.gotowebinar.com/register/6668141495234541825>

Ordering Information

RV55 Single Carrier Router FirstNet Capable including Wi-fi capabilities with a 3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black mount, 4m, Black and 3 YR Essential Service which includes the ALMS.

Below is an example of an order placed for a RV55:

LINE ITEM	QTY	MAIN LINE ITEMS:
DESCRIPTION		
1	10	TT3466A (Sierra Wireless SKU: 1103982)
RV55 Routers (DC;WiFi)		
1a	10	TT06348AA
3 Y Essential Service		

LINE ITEM	QTY	OPTIONS:
DESCRIPTION		
2	10	DDN2781 (Sierra Wireless SKU:6001119)
3in1 SharkFin Antenna		

NOTE: "For implementation and on-site training, please quote through I-Procurement:

Description	Sierra SKU	MG90	MP70	RV55	PRICE
AM/AMM Implementation (1 instance, Remote Deployment)	9010267	X	X	X	\$4,000.00
AM/AMM Implementation (1 Instance, On-site)	9010244	X	X	X	\$9,000.00
AM/AMM Implementation (up to 3 Instances, On-site)	9010245	X	X	X	\$14,000.00
ACM Implementation (1 Instance, Remote Deployment)	9010273	X	X	X	\$8,000.00
ACM Implementation (2 instances, On-site)	9010246	X	X	X	\$12,000.00
On-Site Training (2-day event)	9010133	X	X	X	\$8,000.00
On-Site Training Daily Rate for Additional Days	9010134	X	X	X	\$2,500.00

Live Web-based Training Hourly Rate	9010135	X	X	X	\$300.00
Quarterly Solution Review	9010218	X	X	X	\$30,000.00
Semi-annual Solution Review	9010219	X	X	X	\$20,000.00
AirLink Device Deployment (Remote Deployment)	9010275	X	X	X	\$3,000.00
AirLink Device Deployment (On-site)	9010272	X	X	X	\$30,000.00

Configuration

RV55 AIRLINK ROUTER

STEP ONE (MUST SELECT ONE)

RV55 ROUTERS

RV55 will not be available until 4-30-2019

Description	Full Description	Nomenclature	APC	Price
RV55 ROUTER (DC)	Will not be available until April 30, 2019 Does not include WiFi (Sierra Wireless SKU: 1104303)	TT3465	635	\$689.00
RV55 ROUTER (DC;WIFI)	Will not be available until April 30, 2019 Includes Wi-Fi (Sierra Wireless SKU: 1104302)	TT3466	635	\$789.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR RV55

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

RV55 WILL NOT BE AVAILABLE UNTIL APRIL 30, 2019

Description	Full Description	Nomenclature	APC	Price
3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$80.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00

5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support If customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL, customer can renew ALMS annually for up to 5 years from device purchase. These packages only apply if they bought the renewal. Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010282	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/RV	Sierra SKU: 9010177	TT06403AA	923	\$20.00
HOSTED AMM ACCESS - MP/RV	Sierra SKU: 9010283	TT06404AA	923	\$90.00

STEP THREE (OPTIONAL)**INCLUDES AIRLINK MOBILITY MANAGER ON PREM LICENSE FOR RV55**

RV55 will not be available until 4-30-2019

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM CLIENT LICENSE - GENX (PER DEVICE)	QTY1: order one per deployment requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010270)	TT06358AA	635	\$45.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)**AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR RV55**

RV55 will not be available until 4-30-2019

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router: requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00

STEP FIVE (OPTIONAL)**AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE**

FOR RV55**RV55 WILL NOT BE AVAILABLE UNTIL 4-30-2019**

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA. (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	"QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)"	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)**AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR RV55****RV55 will not be available until 4-30-2019**

Description	Full Description	Nomenclature	APC	Price
ALMS - 12-MONTH SERVICE PACK FOR AIRLINK DEVICES	Applies to only MP70 and RV55 (Sierra Wireless SKU: 9010177)	TT06379AA	635	\$20.00
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT06338AA	635	\$50.00
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00

STEP SEVEN (OPTIONAL)**AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR RV55****RV55 will not be available until 4-30-2019**

Description	Full Description	Nomenclature	APC	Price
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$50.00
AM ENTERPRISE LICENSE : UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR RV55

Description	Full Description	Nomenclature	APC	Price
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00
2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	2in1 Panel Antenna - 2xLTE, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001124)	DDN2786	635	\$48.00
2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	2in1 Panel Antenna - 2xLTE, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001219)	DDN2771	635	\$48.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00
PANEL ANTENNA BRACKET (WALL/POLE/MA	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2788 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00
HIGH GAIN DIRECTIONAL ANTENNA - 2XL	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00
4IN1 SHARKFIN ANTENNA - 2XLTE, WIFI	-	DDN2986	635	\$265.00
4IN1 BAT ANTENNA - 2XLTE, WIFI, GNS	-	DDN2987	635	\$115.00

STEP NINE (OPTIONAL-SEPARATE LINE ITEM)**ACCESSORIES FOR RV55**

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
DIN RAIL MOUNTING BRACKET FOR RV50X	(Sierra Wireless SKU: 6000659)	DDN2797	635	\$25.00
AC ADAPTOR, 12 VDC MP/RV	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$20.00
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00
DC POWER CABLE MP/RV	(Sierra Wireless SKU: 2000522)	DDN2800	635	\$15.00
RV55 DUAL SERIAL Y-CABLE	-	DDN2982	635	\$20.00

OPTIONAL-SEPARATE LINE ITEM**RENEWAL OF SUPPORT SERVICES**

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00

Ship Card
[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ING	DDN2762	GNX5P/GNX6, POWER/DATA CABLE, "Y" C	635	30

QUOTEDS	ING	DDN2763	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2764	J1939/1708 TELEMETRY SCANNER KIT, M	635	30
QUOTEDS	ING	DDN2766	MOUNTING BRACKET FOR MG90	635	30
QUOTEDS	ING	DDN2767	MG90 I/O CABLE	635	30
QUOTEDS	ING	DDN2768	AC ADAPTOR, 12 VDC MG90	635	30
QUOTEDS	ING	DDN2769	1 YR ESSENTIAL RENEWAL	923	30
QUOTEDS	ING	DDN2770	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2771	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2772	3IN1 DOME ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2773	MP I/O CABLE	635	30
QUOTEDS	ING	DDN2774	MP70 OBD-II Y CABLE	635	30
QUOTEDS	ING	DDN2775	MP70 J1939 Y CABLE	635	30
QUOTEDS	ING	DDN2776	AC ADAPTOR, 12 VDC MP/RV	635	30
QUOTEDS	ING	DDN2777	6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2778	1 YR ESSENTIAL PLUS RENEWAL	923	30
QUOTEDS	ING	DDN2779	3IN1 BAT ANTENNA - 2XLTE, GNSS, ADH	635	30
QUOTEDS	ING	DDN2780	3IN1 RAIL ANTENNA - 2XLTE, GNSS, BO	635	30
QUOTEDS	ING	DDN2781	3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS	635	30
QUOTEDS	ING	DDN2782	2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT	635	30
QUOTEDS	ING	DDN2783	2IN1 DOME ANTENNA - 2XLTE, BOLT MOU	635	30
QUOTEDS	ING	DDN2784	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2785	3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GH	635	30
QUOTEDS	ING	DDN2786	2IN1 PANEL ANTENNA - 2XLTE, BOLT MO	635	30
QUOTEDS	ING	DDN2787	6IN1 DOME ANTENNA - 2XLTE, GNSS, 3X	635	30
QUOTEDS	ING	DDN2788	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30

QUOTEDS	ING	DDN2789	3IN1 PANEL ANTENNA - 2XLTE, GNSS, B	635	30
QUOTEDS	ING	DDN2790	PANEL ANTENNA BRACKET (WALL/POLE/MA	635	30
QUOTEDS	ING	DDN2791	HIGH GAIN DIRECTIONAL ANTENNA - 2XL	635	30
QUOTEDS	ING	DDN2792	PADDLE WIFI ANTENNA - 2.4/5GHZ	635	30
QUOTEDS	ING	DDN2793	PADDLE CELLULAR ANTENNA	635	30
QUOTEDS	ING	DDN2794	INTERNAL WIFI/BT ANTENNA - 2.4GHZ,	635	30
QUOTEDS	ING	DDN2795	SHARKFIN MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2796	DOME MAG MOUNT ADAPTOR	635	30
QUOTEDS	ING	DDN2797	DIN RAIL MOUNTING BRACKET FOR RV50X	635	30
QUOTEDS	ING	DDN2798	DC POWER CABLE PIGTAIL MG90 10FT	635	30
QUOTEDS	ING	DDN2799	DC POWER CABLE, X PLATFORM CIGAR	635	30
QUOTEDS	ING	DDN2800	DC POWER CABLE MP/RV	635	30
QUOTEDS	ING	DDN2801	ASSET TAG - WI-FI (T2)	635	30
QUOTEDS	ING	DDN2802	ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	635	30
QUOTEDS	ING	DDN2803	OBD II VEHICLE TELEMETRY KIT	635	30
QUOTEDS	ING	DDN2804	FIELD UPGRADE KITS FOR MG90, EM7511	635	30
QUOTEDS	ING	DDN2805	3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI	635	30
QUOTEDS	ING	DDN2867	1 YR ESSENTIAL ELITE RENEWAL	923	30
QUOTEDS	ING	DDN2982	RV55 DUAL SERIAL Y-CABLE	635	30
QUOTEDS	ING	DDN2986	4IN1 SHARKFIN ANTENNA - 2XLTE, WIFI	635	30
QUOTEDS	ING	DDN2987	4IN1 BAT ANTENNA - 2XLTE, WIFI, GNS	635	30
QUOTEDS	ING	TT3451	MG90 ROUTERS (SINGLE LTE-A PRO)	635	30
QUOTEDS	ING	TT3452	MG90 ROUTERS (DUAL LTE-A PRO)	635	30
QUOTEDS	ING	TT3457	MP70 ROUTERS (DC;WIFI)	635	30

QUOTEDS	ING	TT3458	MP70 ROUTERS (DC)	635	30
QUOTEDS	ING	TT3462	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3463	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3464	GEN X VEHICLE TRACKERS	987	30
QUOTEDS	ING	TT3465	RV55 ROUTER (DC)	635	30
QUOTEDS	ING	TT3466	RV55 ROUTER (DC;WIFI)	635	30

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model

SALIENT Location Application

Ordering Information

General Information

CommandTRACKER GPS for Motorola IV&D ASTRO® 25 Networks is a full featured command and control GPS solution. It is designed to provide broad scale common operating pictures (COP) where ever Motorola subscriber and mobile units are deployed. This provides emergency operations managers in Public Safety, Law Enforcement, Military and Homeland Security settings with enhanced situational awareness, increased safety and security – all in an effort to significantly increase the capability for real time decision making

NOTE: ESRI mapping is not part of this solution. It is assumed that the customer already has the mapping application. If mapping application other than ESRI is needed, please contact Renata Oiticica Lampert for details.

ComandTRACKER is IA certified. For quote with IA needs please mention on the questionnaire for appropriate pricing.

Features

Real Time Tracking

- Variable & Configurable Refresh Modes
- Immediate Location Updating
- Situational Awareness across Multiple Groups (Security, Public Safety, Force Protection)

Customizable Groups

- Standardized & Pre-Configured
- Ad-Hoc for “on the fly” events

Geo-Fencing & Incident Alerts

- Event driven & Pre-Planned
- Configurable Alerts and Refresh Rates

Playback

- History for Investigation reports & Training
- Breadcrumb Trails

Extend Your CAD/AVL COP

- Integrate Motorola IV&D ASTRO® 25 GPS enabled data directly into your existing CAD or AVL system

Ordering Requirements

Resource Documentation

Quote Request	Sales Tools	Product Manuals
The main purpose of the questionnaire is to capture relevant Department data to		

properly quote a suitable ComandTRACKER solution.		
<ul style="list-style-type: none"> In order to get a formal quote on the ComandTRACKER application from Salient please fill out the questionnaire above with your customers information Please return completed Questionnaire to Martin Gillespie (Martin.Gillespie@SalientFed.com) from Salient or your local BdM for processing 	<ul style="list-style-type: none"> marketing brochure CommandTRACKER 	
Selling strategy	INTERDEPENDENCIES	COMPETITIVE DIFFERENTIATORS
	<p>Compatible with the all mobiles and portables from the APX line. Please contact your subscriber support person for more information.</p>	<ul style="list-style-type: none"> IA certified solution available

Configuration

Data Not Available

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Secure Dispatch Communications Server (S-DCS)

DIMETRA X Core D9.0.1 and

DIMETRA IP Scalable SR8.2

Ordering Information

General Information

SECURE DISPATCH COMMUNICATIONS SERVER (S-DCS) SUBSTEM

The Secure Dispatch Communications Server subsystem (S-DCS), is a End to End Encrypted (E2EE) Integrated Command and Control System (ICCS) Gateway subsystem used to provide secure connectivity from E2EE subscribers, right up to the Control Room. For this reason, the S-DCS is only deployed in a remote Control Site and not at the MSO (as is normally the case with clear DCS). The S-DCS is the interface between the DIMETRA X Core or DIMETRA IP Scalable MSO and third party Customer Control Room applications, e.g. ICCS.

Based on the MCC 7500S Dispatch System, the S-DCS comprises a Call Control Entity (CCE) server that provides 10 CCE nodes that handle the call processing between the Zone Controller and the ICCS clients and up to 10 Audio Processing Entities (APEs) and associated Console CryptRs and that handle the encrypted audio between the DIMETRA X Core System and the ICCS clients. Up to 5 S-DCS servers (one for every 10 CCE nodes) per remote control site are supported.

The E2EE Console CryptR modules and APEs used by the S-DCS are based on those used in the MCC 7500S ICCS Gateway.

The S-DCS subsystem comprises the following equipment:

- Secure Dispatch Communications Servers (S-DCSs)
- Control Site Switch (2 for redundancy)
- Control Site DMZ Switch (2 for redundancy)
- Control Site Router (2 for redundancy)
- Control Site Border Router (2 for redundancy)
- Control Site Firewall (2 for redundancy)
- Control Site Multiplexer (RAD Megaplex 2100) (2 for Redundancy)
- Rack(s), KVM Switch(es)

Further details and descriptions can be found in the Component section of the D9.0.1 [D9.0.1 System Planners](#) or the SR8.2 System Planners.

There is no redundancy as such for S-DCSs but by deploying more than one server and

distributing the ICCS clients between them, so that in case of one server failure, then the S-DCS service will not then be lost entirely. Only those ICCS clients which are working via the failing server will go out of service. The service will continue with reduced capacity through other ICCS clients that are working together with another S-DCS.

Each Zone can support up to 110 S-DCS servers across a maximum of 55 Control Sites. However, the total S-DCS/ DCS CCE Nodes plus MCC 7500C/MCC 7500S consoles must not exceed 500 in a Zone and 2000 in a Cluster. For other constraints/details please refer to the Performance and Capacity section of the [D9.0.1 System Planners](#) or the SR 8.2 Planners.

Export Control Requirements

IMPORTANT NOTE FOR ALL ENCRYPTED ITEMS

All Motorola TETRA (Dimetra) encrypted infrastructure and encrypted subscriber, as well as encryption key distribution and encryption key management hardware and software products, including kits, spare parts and encryption upgrades are controlled for export and will generally require an approved export licence prior to shipment from the Motorola factory to any customer.

Export Licence approvals are based on the country of final destination and the specific end user. Certain countries and certain end users will not be eligible for approval.

Any items that require an export licence are highlighted in the sections below. Contact your Local Export Control office if you are unfamiliar with the licensing process or to discuss any possible licensing restrictions before submitting bids, proposals, or accepting orders for encryption products.

Current contact information can be found at <http://exportcontrols.mot.com/>.

Oracle R12 Order Management System

OM/COF Product Catalog pages

This page are provided as an ordering guide. If ordering using Oracle R12 Quoting then you can use the System BoM <**DIP-CONTROL**> to order an D9.0.1 S-DCS subsystem. DIP-CONTROL has been updated for D9.0.1; do NOT use DIP-CONTROL for SR8.2 S-DCS. For SR8.2 please use the part numbers below directly into the Quote. Some items can only be ordered using either DIP-CONTROL or an SBoM (e.g. GGM 8000 and RAD Mux). These are shown in the individual items below.

When a valid configuration has been completed the resulting equipment list can be checked by using the ordering information below in conjunction with the [D9.0.1 System Planners](#) or SR8.2 planners.

Following are some useful System BoM and SBoM names for S-DCS items:

DIP-CONTROL (System BoM)	DIM-9-0-SW	DIM-MCC7500-HW	DIMETRA-GGM8000
DIM-CRYPTR	DIM-NWS	DIM-RAD-MUX	DIM-LK

Configuration

Ordering Requirements

The part numbers below can be used to check the output of the DIP-CONTROL configuration.

If ordering in COF, just use the part numbers defined below.

Item 1: Cabinet, Cables and KVM Switches (mandatory)

Order quantity 1 of GMHN4567 for each rack required. Order one hundred (100) of EDN7977A for each rack for the cabling.

One GMLN4204C combined keyboard, monitor, touchpad/trackball and Keyboard Video Mouse switch is required in each rack to manage the servers.

Description	Full Description	Nomenclature	APC	Price
R8.0-CNE CABINET	-	GMHN4657A	558	\$8,280.00
SIC CUSTOMIZED SITE CABLE SET	-	EDN7977A	078	\$36.50
BLACKBOX KVM SWITCH ROHS COMPL	-	GMLN4204C	558	\$4,270.00

Item 2: Terminal server and diagnostic modem (optional)

Terminal Servers

Remote configuration and management is recommended for support of the S-DCS remote Control site equipment. Order one In-Reach Terminal Servers (GMDN1101). One terminal server can handle up to 48 devices.

Description	Full Description	Nomenclature	APC	Price
INREACH TS LX4048T INT MODEM	-	GMDN1101B	078	\$5,710.00

Modem

If required, order 1 Multi-Tech Systems MT9234ZBA modem per terminal server. Order each Multi-Tech modem GMDN1157 with appropriate option TG00104 for destination country. See the specification sheet to be found [here](#) for full details of options.

Description	Full Description	Nomenclature	APC	Price
DIMETRA DATA MODEM	-	GMDN1157B	558	\$256.00

Item 3: Secure Dispatch Communications Server (S-DCS) (mandatory)

Up to 5 DL360 Gen 9 servers, GMDN6422A, can be supported on each Remote Control Site. Each server can provide up to 10 CCE Nodes.

Item 4: Order the Audio Processing Entity (APE) (mandatory)

The Audio Processing Entity (APE) PC provides the audio interfaces for the ICCS. It includes a 'Pyramid' rackmount PC with Digigram soundcard, cable and XLR extension cable. Order one GMLN1160 plus options CA01383, CA02460 or CA03338 and CA01339 for each APE required. A European AC Line Cord is included. For a UK AC line cord order CA00140AC for each APE. For a China AC line cord order CA00140AN.

Up to ten APEs can be supported by one S-DCS. Each APE requires a Console CryptR, see below.

Note that in COF the quantity of GMLN1160 cannot exceed 6 per order line. In Oracle R12, these can only be ordered from within System BoM DIP-CONTROL or via SBoM DIM-MCC7500-HW.

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500S APE DIM IP PR PKG	-	CA01383AA	530	\$0.00
ADD: RACKMOUNTABLE APE	-	CA01339AC	530	\$8,700.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
AC LINE CORD CHINA	-	CA00140AN	443	\$0.00

Item 5: Order the Console CryptR (mandatory)

Order one Console CryptR for each APE. Order one GM0215 with ONE algorithm option CA01389 - AES128, CA01390 - AES256 or CA01391 D6.1 EG UK. Note that the latter is for restricted use in the UK only. Each CryptR requires an AC Line Cord Option. Order one AC line cord CA02064 or CA02065.

In Oracle R12, these can be ordered using System BoM DIP-CONTROL or SBoMs DIM-MCC7500-HW (in conjunction with the APE) or DIM-CRYPTR.

Description	Full Description	Nomenclature	APC	Price
D7.X/D8.X CONSOLE CRYPTR	-	GM0215B	532	\$4,687.00

ADD:AES-128	-	CA01389AA	532	\$0.00
ADD:AES-256	-	CA01390AA	532	\$0.00
ADD:D6.1 EG UK	-	CA01391AA	532	\$0.00
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00

Add the CryptR rack mounting bracket if required:

Description	Full Description	Nomenclature	APC	Price
CRYPTO BRACKET	-	07015022001	558	\$100.00

Item 6: Control Site Routers (mandatory)

One or, for redundancy, two GGM 8000 gateways(s) is/are deployed per S-DCS. In Oracle R12 these devices can only be ordered through the DIMETRA-GGM8000 SBoM.

Description	Full Description	Nomenclature	APC	Price
DIMETRA GGM8000 BASE MODEL	-	GM0240B	558	\$5,494.00

Item 7: Control Site Switches (mandatory)

One or, for redundancy, two LAN switches are deployed per S-DCS. Order two GMLN2544A (D9.0.1) or GMDN2544C (SR8.2) Switches.

Description	Full Description	Nomenclature	APC	Price
DIMETRA LAN SWITCH 2930	-	GMLN2544A	302	\$1,880.00
DIM LAN SWITCH PROC.2620_48	-	GMDN2544C	302	\$3,500.00

Item 8: S-DCS Border Routers (mandatory)

One or, for redundancy, two Border Routers are deployed per S-DCS subsystem. Order one or two GM0240 Gateways. In Oracle R12 these devices can only be ordered through the DIMETRA-GGM8000 SBoM.

Description	Full Description	Nomenclature	APC	Price
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DIMETRA GGM8000 BASE MODEL	-	GM0240B	558	\$5,494.00

Item 9: S-DCS Firewalls (recommended)

A redundant pair of Fortinet Firewalls are recommended per S-DCS subsystem. Redundancy is optional but failure of one non-redundant Firewall will lead to loss of the Control Site. Perimeter protection at the MSO is mandatory with the S-DCS subsystem, though the full Network Security suite is not.

Description	Full Description	Nomenclature	APC	Price
DIMETRA FIREWALL (FORTINET)	-	GM0288A	558	\$2,720.00

Item 10: DMZ Switches (optional)

One or, for redundancy, two LAN switches are deployed per S-DCS. Order one or two GMLN2544A Switches for D9.0.1 or GMDN2544C for SR8.2.

Description	Full Description	Nomenclature	APC	Price
DIMETRA LAN SWITCH 2930	-	GMLN2544A	302	\$1,880.00
DIM LAN SWITCH PROC.2620_48	-	GMDN2544C	302	\$3,500.00

Item 11: S-DCS Multiplexer

The S-DCS Multiplexer is the same RAD Megaplex 2100 item as that used by the ICCS Gateway used for previous releases. Note: The quantities of Options shown below are for each multiplexer. Use the configuration worksheet found [here](#) to calculate your total specific system level requirements.

In Oracle R12 these items can only be ordered using the System BoM DIP-CONTROL or SBoM DIM-RAD-MUX.

Multiplexer Main Unit

Order the Multiplexer Main unit under nomenclature GMDN0244 For a fully redundant Multiplexer order two GMDN0244 models with the required options.

Description	Full Description	Nomenclature	APC	Price
RAD MUX EQUIPMENT - MODEL	-	GMDN0244	597	\$0.00

Multiplexer Chassis.

Order 1 of the Multiplexer chassis using Option TG00001AA ON EACH MODEL GMDN0244 to provide one Multiplexer Chassis with 12 I/O card slots.

Description	Full Description	Nomenclature	APC	Price
ADD: MEGAPLEX 2100 MUX - MAIN UNIT	-	TG00001AA	597	\$8,103.00

Dual E1 Link

The E1 main link module has 2 E1 ports and requires one I/O slot in the multiplexer chassis. Order either between 1 or 2 modules for the (LAN link) or 1-3 modules for the (WAN link) ON EACH MODEL by ordering Option TG00004AA.

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL E1 LINK MEGAPLEX2100	-	TG00004AA	597	\$2,493.00

16 Port Voice Module

The VC16 voice module has 16 channels and requires one I/O slot in the multiplexer chassis. Order between 1 & 7 of the modules ON EACH MODEL by ordering Option TG00021AA

Description	Full Description	Nomenclature	APC	Price
ADD: 16 PORT VOICE MODULE	-	TG00021AA	597	\$2,493.00

Octopus Cables

Two octopus cables are required for each VC16 voice module (1 cable covers 8 channels). Order between 1 & 13 of the cables ON EACH MODEL by ordering Option TG00036AA.

Description	Full Description	Nomenclature	APC	Price
ADD: KM-2000 CBL FOR 8 ANLG CH	-	TG00036AA	597	\$249.00

Item 12: Backhaul Firewalls (optional)

One or, for redundancy, two Fortinet Firewalls are deployed per S-DCS. Order one or two GM0288A.

Description	Full Description	Nomenclature	APC	Price
DIMETRA FIREWALL (FORTINET)	-	GM0288A	558	\$2,720.00

Item 13: Application Software, Operating Systems, Java License and

AntiVirus

Application software and Windows OS (bundled under one part number) and also VMWare, RHEL and a Java License are required for each S-DCS server. Application software and Windows OS (bundled under one part number) are required for each APE. Please refer to the relevant Software Ordering ECAT page for details.

You should also consider whether you need AntiVirus (AV) seat licenses. Two AV seats are required per standard S-DCS server hardware. If an S-DCS-UIS is to be added to one of the S-DCS servers, then this requires an additional AV license. Each APE requires a further AV license.

AntiVirus seats need to be added manually to your quote using the SBoM <DIM-NWS>, they are NOT added by DIP-CONTROL

Item 14: License Keys

License keys are required for S-DCS. Please refer to the D9.0.1 or SR8.2 License Keys catalog page for details.

Last Change: Updated System BoM information_19032018.

This page is maintained by System Design Support. We welcome your constructive comments to help to improve it for others.

Please provide your feedback via the [SDS Q & A](#) service.

[JUMP TO ...](#)[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)

Model

Secure VOIP Services

Ordering Information

[Ordering Guide](#)

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
G9 SERVER HARDWARE	-	SQM01SUM0295	704	\$18,000.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	060	\$115.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	060	\$20.00

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Security Update Service (SUS) & Security Update Remote Delivery Service

Ordering Information

General Information

Security Update Service (SUS) provides the customer with peace of mind that the 3rd party SW security patches ASTRO uses are vetted for issues before they are applied to their live ASTRO system. These 3rd party patches include weekly anti-malware definition updates, monthly "Patch Tuesday " Microsoft Windows updates, and other operating system patches as they are released.

This service is only available for ASTRO25 System Releases according to this matrix. Is it critical that this be considered in planning for the duration of a contract and that upgrades be planned for continued support. Motorola reserves the right to discontinue support for any release (or component within a release) at any time.

System Release Estimated End Date

7.6	Ended 11/2013
7.7	Ended 9/2015
7.8*	Ended 11/2014
7.9	11/2016
7.11	11/2016
7.13	11/2018
7.14	11/2019
7.15	11/2020
7.16	11/2021
7.17	11/2022

*7.8 was a limited release, so support is ending earlier than typical. Note that 7.7 is a year longer than typical.

- This SUS was formerly known as Pre-tested Software Subscription or PTSS
- SUS Platinum was eliminated. The 3 key components were 1. IAVM reports 2. STIG Backporting and 3. Unix AV
 1. The IAVM reports actually come from the DoD and those require Federal access rights. Motorola takes those reports and pulls specific public information that maps the threats to the patches that come out. This will be made available to SUS customers that request it. There must be a need-to-know however.
 2. STIG backporting will be renamed to Security Updates Windows Configs and a separate model. It has its own eCAT page.
 3. Unix/Linux AV comes standard on all 7.13 CSA and all later systems. It is assumed that customers on 7.13 non-CSA and 7.11 and previous releases who need this have it by now.
- K-core based systems may now receive SUS updates for MCC 7500 consoles.
- The N-4 and N-5 options were eliminated.
- In the past, Intrusion Detection Systems (IDS) was an option. That option has been eliminated regardless of if the customer has an IDS or not.

Security Update Remote Delivery Service

Motorola's dedicated staff remotely installs the security updates onto your radio network as an additional option to SUS. Vulnerabilities from third party software are addressed as soon as the validation of recommended patches is completed. We will also provide reports outlining updates made for your team's review and awareness.

Features

- Weekly testing of anti-virus definition updates
- Monthly testing of Windows patches
- Quarterly testing of Solaris, Red Hat Linux, VMWare ESxi, and database security patches
- Email notification when updates are available
- Continuous monitoring of Information Assurance Vulnerability Management (IAVM) Alerts
- On-line availability of latest pre-tested updates and recommended remediation reports

Windows Clients

MOTOPATCH FOR WINDOWS

Device Support Matrix

Supported (Release Specific): **Covered under core (Y/N)**

Device or Feature Name

Authentication Center Server	Y
Authentication Center Client	N
Core Security Management Server (CSMS)	Y
Domain Controllers / Authentication Servers	Y
Domain Controllers / Authentication Servers	Y
GMC & AMC	N
GWS & ALC	N
Instant Recall Recorder	N
MCC7100	N
MCC7500 AIS	N
MCC7500 Dispatch Console	N
NICE IP Logger	N
NICE Replay Workstation	N
NM Client	N
PRX7000	N

Software Versions (Release Independent)

Device or Feature Name

Advanced Messaging Server	N
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Centracom Gold Elite ADM/CDM Server	N
Centracom Gold Elite Dispatch Console	N
ETI (NEC Spherical)	N
KMF Client	N
KMF Client(Small Fleet)	N
KMF Server	Y
KMF Server(Small Fleet)	Y
LCAM	N
MIP5000	N
Presence Notifier Server	N
TMS Client	N
TMS Server	Y
Unified Network Services 2.0	Y

Not Supported:

Device or Feature Name

ACSS	Not Supported
Data Collection Device (DCD)	Not Supported
InfoVista Server	Not Supported
MGEG	Not Supported

Notes: DCD is not critical to voice or data traffic. Patching can be performed, however is not pre-tested InfoVista Server is not critical to voice or data traffic. Patching can be performed, however is not pre-tested MGEG is no longer Vetted and is finalized with MOTOPATCH Windows 2012.08 and MOTOPATCH 3PP 2012.Q3 discs

Security Update Service [SOW](#):

Ordering Requirements

For Security Update Service or SUS with Security Update Remote Delivery Service

1. This service must be ordered through the SLC system.
2. For K, L, M systems, please ensure correct technology is selected in Install Base
3. For M Core, select the same number of Master sites as zones.
4. For customers sharing an L or M core, it is up to the CSM to divide the charges between the customers. An example might be one customer has the Master site and a Dispatch site and the other customer has no Master site and 2 dispatch sites.
5. For any core, input the dispatch site. Add any additional ops position to expanding systems as needed.

6. All dollar amounts reflect an annual one year pricing.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

NOTE: Security Update Service is required if Security Update Remote Delivery is also ordered. Remote Delivery is optional.

Configuration

Security Update Service (SUS) & Security Update Remote Delivery Service

Description	Nomenclature	APC	Price
Security Update Service	SVC04SVC0016C	0969	\$0.00
ASTRO25 K-Core	Windows Client		\$880.00
ASTRO25 L-Core	L1 Master Site		\$2,530.00
	L2 Master Site		\$5,060.00
	Windows Client		\$880.00
ASTRO25 M-Core	M1 Master Site		\$3,237.30
	M2 Master Site		\$5,221.70
	M3 Master Site (First Zone)		\$6,527.40
	M3 Master Site (Add'l Zones)		\$3,263.70
	DSR Site		\$3,263.70
	Windows Client		\$1,210.00
Remote Security Update Service	SVC01SVC0140A	0560	\$0.00

ASTRO25 L-Core	L1 Master Site		\$12,144.00
	L2 Master Site		\$12,144.00
	Windows Client		\$330.00
ASTRO25 M-Core	M1 Master Site		\$7,700.00
	M2 Master Site		\$14,025.00
	M3 Master Site (First Zone)		\$18,700.00
	M3 Master Site (Add'l Zones)		\$18,975.00
	DSR Site		\$18,975.00
	Windows Client		\$330.00

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Security Configuration Updates

Ordering Information

General Information

Security Configuration Updates was formerly known as STIG Updates.

The Defense Information Systems Agency (DISA) creates Information Assurance configuration standards for DOD IT systems and devices. These standards are known as Security Technical Implementation Guides (STIGs) and there are numerous STIGS. Currently we are providing STIG updates only for Windows but in the future other operating systems like Linux may be offered.

In every ASTRO release, Windows security configurations are assessed against the STIGs and modified accordingly. The purpose of Security Configuration Updates is to apply those newer updates in older releases to the extent possible. For example, when ASTRO 7.15 comes out, the security configurations in Windows will contain Motorola's latest STIG updates. Those updates are then translated into the older releases (according to the matrix below) so a customer with, say 7.11, can get to the same or nearly the same security updates to their Windows configuration.

This service is only available for ASTRO® 25 System Releases according to this matrix. Is it critical that this be considered in planning for longer-term contracts so that upgrades are included for continued support. Motorola reserves the right to discontinue support for any release (or component within a release) at any time.

System Release	Estimated End Date
Astro25 7.6	Ended 11/2013
Astro25 7.7	Ended 11/2014
Astro25 7.8*	Ended 11/2014
Astro25 7.9 L or M	11/2016
Astro25 7.11 L or M	11/2017
Astro25 7.13 L or M	11/2018
Astro25 7.14 L or M	11/2019
Astro25 7.15 L or M	11/2020
Astro25 7.16 L or M	11/2021

*7.8 was a limited release.

Statement of Work

[Security Update Service SOW](#)

Ordering Requirements

1. This service must be ordered through the SLC system.
2. Security Updates Configuration is for any L or M core. K core is not supported.
3. Order the model and (1) WINDOWS option regardless of the system size. The service is applied at the Network level. Choose this it to price out.
4. All dollar amounts reflect an annual one year pricing.
5. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Full Description	Nomenclature	APC	Price
SECURITY UPDATES WINDOWS CONFIGS		SVC01SVC0162A	0519	\$17,313.00

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

Model

SELCAL AIRCRAFT
Selective Signaling
Airborne Decoder
and Ground Units

Ordering Information

General Information

This product is no longer available. Please call 1-206-695-8131 for further information.

General Information

Service from the Start (SfS) Comprehensive with Radio Purchase SOW

Service from the Start (SfS) Comprehensive with Radio Purchase is an optional service plan available in conjunction with Motorola's standard Commercial Warranty for select Motorola manufactured two-way subscriber equipment. This plan is available for purchase at the time of an equipment order. The plan is paid in full at the time of purchase and is non-cancelable and non-refundable.

Description of Service from the Start (SfS) Comprehensive:

Service From The Start (SFS) Comprehensive provides all-component level service for the Equipment that is specifically named in the applicable agreement to which this Statement of Work (SOW) is attached or any of the agreement's subsequent revisions. Services are performed at the Radio Support Center (RSC), or Federal Technical Support Center.

SFS Comprehensive is only applicable on XTS®, XTL™, APX™, and some MOTOTRBO™ model radios. A radio model may be added to an SFS Comprehensive service agreement while it is currently being manufactured by Motorola, or for up to one (1) year after manufacturer cancellation date of said model

SFS Comprehensive includes:

- replacement of cracked housings, frames, covers, crushed components, shields, missing components, circuit boards, warped circuit boards
- Damage to LCD screens (cracks to screen, or any damage that does not pass Motorola test parameters)
- Damaged foils/traces/lands
- Electrical damage
- Water/chemical corrosion
- Contaminants visible which cannot be cleaned up reliably

The customer will incur additional charges at the prevailing rates for any of the following activities, which are NOT covered under SfS Comprehensive with Radio Purchase:

1. Replacement of consumable parts or accessories, as defined by product, such as batteries, antennas, and other similar items
2. Damages from natural or man-made disasters where normal use of the product was not a factor, such as but not limited to fire, theft, and floods that would cause internal and external component damage or destruction.
3. Non-remedial work, such as but not limited to firmware or protocol upgrades, reprogramming, and product configuration

4. Repair of non-covered products

5. Damages caused by using the device outside of the product's operational and environmental specifications

6. Damages caused as a result of the device being modified or repaired by a third party

Motorola reserves the right to monitor the customer's repair history under this SFS Comprehensive service agreement. Motorola may take appropriate action if the customer's repair history under this SFS Comprehensive service appears to be in violation of this Statement of Work.

MOTOTRBO, XTS, XTL and APX model radios that are presently on a standard service agreement may be transferred to an SFS Comprehensive service agreement. These transferred units must either be models that are currently being manufactured by Motorola or models where manufacturing by Motorola was canceled within the prior 364 days.

Customers who wish to add MOTOTRBO, XTS, XTL and APX model radios that are currently being manufactured by Motorola that are not presently on a standard service agreement must be operating in accordance with Motorola specifications, and are not damaged. If Customer attempts to add radios to the SFS Service Agreement that are not operating in accordance with Motorola specifications or are damaged, Motorola may either terminate the Service Agreement, as provided in the Service Terms and Conditions, or in its sole discretion, Motorola may terminate just those services covered by this SFS Comprehensive Statement of Work.

Motorola recommends a Preventative Maintenance check be completed on radios that are not currently under an SFS service agreement so the customer can confirm radios are operational and aligned with Motorola specifications, and are not damaged.

In addition to Equipment specifically named in the applicable agreement to which this Statement of Work is attached, Service From the Start Comprehensive includes single mobile control heads provided that they are required for normal operation of the Equipment and are included at the point of manufacture.

SFS Comprehensive excludes repairs to: optional accessories; standard mobile palm microphones; non-standard mobile microphones; iDEN mobile microphones; portable remote speaker microphones; optional or additional control heads; mobile external speakers; mobile power and antenna cables; and power supplies. Engraving service is not covered under SFS Comprehensive.

SFS Comprehensive is non-cancelable and non-refundable. If Equipment is added to the agreement subsequent to the Start Date, these units are also non-cancelable and non-refundable for the agreement duration. Equipment may only be added to the agreement, via a customer signed or emailed Motorola Inventory Adjustment Form (IAF). Complete and accurate serial numbers and model descriptions must be supplied.

All inventory adjustment requests for add-on subscriber units received prior to the 15th of the month will be effective the 1st of the following month. Equipment add-on requests received after the 15th of the month will be effective the 1st of the next succeeding month.

Equipment deletions from the agreement may only be deleted under the following limited conditions:

- a) Equipment was stolen and proof of theft is provided to Motorola; or
- b) Motorola determines Equipment is damaged beyond repair; or
- c) Motorola determines Equipment is no longer supportable or is obsolete; or
- d) Equipment had already been under a previous contract for at least the twelve month requirement.

Equipment deletions, where applicable, will be effective at the end of the month in which the request was received.

The terms and conditions of this Statement of Work are an integral part of the Motorola Service Agreement or other applicable agreement to which it is attached and made a part thereof by this reference. If there are any inconsistencies between the provisions of the Motorola Service Agreement or other applicable agreement and this Statement of Work, the provisions of this Statement of Work shall prevail.

Motorola has the following responsibilities:

1. Test and Restore the Equipment to Motorola factory specifications, including Factory Mutual (FM), and Mine Hazard Safety Association (MHSA).
2. Reprogram Equipment to original operating parameters based on the Customer template, if retrievable, or from a Customer supplied backup. If the Customer template is not usable, a generic template or code plug utilizing the latest Radio Service Software (RSS) or Customer Programming Software (CPS) version for that Equipment will be used. The Equipment will require additional programming by the Customer to restore the original template. All Firmware is upgraded to the latest release for each individual product line.
3. Clean external housing of the Equipment. External components of unit will only be replaced when functionality has been diminished.
4. Replace currently manufactured Equipment if it is determined that the Equipment is unrepairable. Motorola will contact the customer to inform them if Equipment needs to be replaced and that the cycle time may be increased because of the replacement. If unrepairable Equipment is no longer manufactured, the customer will have the option of having the radio returned unrepairs to them.
5. Pay the outbound freight charges. Motorola will pay for outbound shipping via Motorola's published ship card. Motorola will pay the inbound freight charges if the Customer uses the Motorola designated delivery service.
6. Provide Customer with the Motorola repair request form and Inventory Adjustment Form (IAF).
7. Perform covered services as requested by Customer on the Motorola repair request form.

Process inventory adjustment requests received by email or fax from Customer. If the request is received by email, Motorola will email an acknowledgement to the sender.

9. If applicable, notify Customer of changes in Motorola designated inventory adjustment email address or fax number.

Customer has the following Responsibilities:

1. Supply Motorola complete and accurate serial numbers and model description.
2. Utilize the Motorola designated deliver service program to obtain Motorola payment for inbound shipping.
3. Access the Motorola repair request form through Motorola On Line
4. Initiate service request via Motorola On Line or complete a Motorola repair request form with contract number referenced, and submit it with each unit of Equipment sent in for service. Mobile control heads or palm microphones sent in must reference the serial number of the main unit.
5. If desired, supply Motorola with a backup Software template or programming in order to assist in return the Equipment to original operating parameters. this step must be completed for Equipment that will not power up. If applicable, record the current flashcode for each radio.
6. If Motorola must utilize a generic template or code plug to Restore Equipment to operating condition, Customer is responsible for any programming required to Restore Equipment to desired parameters.
7. Provide a signed or emailed Motorola Inventory Adjustment Form (IAF) fro all Equipment additions.

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model



**Service from the Start (SfS)
Comprehensive
Service Agreement**

Ordering Information

General Information

SfS Comprehensive service agreement is an all-inclusive repair service for MOTOTRBO, XTS, and XTL radios. SfS Comprehensive service agreement includes chemical, liquid, and physical damage coverage, and is renewable on an annual basis for as long as the radio is supported by Motorola.

Features

- Chemical, liquid, and physical damage coverage
- Free outbound shipping
- Approved replacement parts
- Access to Motorola Technical Expertise
- 90-day warrantied repairs

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for

modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Territory Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

[Service from the Start Comprehensive SOW](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. Requires serial numbers for covered units.
7. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration


APX Devices

TIER	SERVICE ITEM	APX PORTABLE AND MOBILE1 PRODUCTS	1-499 Units	500-1499 Units	1500-2999 Units	3000+ Units
4	LSV01S00022A	APX900, APX1000, APX3000, APX4000, SRX2200	\$100.08	\$96.96	\$93.96	\$90.00
5	LSV01S00023A	APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI,	\$122.04	\$118.32	\$114.72	\$109.80

		APX7000XE, APX8000, APX8000XE				
6	LSV01S00024A	APX Consolettes	\$141.00	\$136.80	\$132.60	\$126.96
7	LSV01S00146A	APX1500, APX4500	\$118.20	\$114.60	\$111.12	\$106.44
8	LSV01S00145A	APX6500, APX6500LI, APX7500, APX8500	\$141.00	\$136.80	\$132.60	\$126.96

PCR/MOTOTRBO DEVICES

TIER	SERVICE ITEM	PORTABLE AND MOBILE PRODUCTS	1-9 Units	10-29 Units	30-59 Units	60+ Units
2	LSV03S00036A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, SL300	\$77.76	\$75.48	\$73.08	\$69.96
3	LSV03S00037A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$119.88	\$116.28	\$112.68	\$107.88
32	LSV03S01191A	SL3500e, XPR3300e, XPR3500e, XPR2500	\$98.64	\$95.64	\$92.76	\$88.80



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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model



**SfS Lite
Service Agreement**

Ordering Information

General Information

SfS -LITE provides for component level of service on Motorola two-way and data radios for conventional and trunked technology, including portables, mobiles, desktop equipment, repeaters and consolleTTes. Trained technicians diagnose the problem and take appropriate action to repair the radios. SfS -LITE is renewable on an annual basis for as long as the radio is supported by Motorola

Features

- Cost effective coverage
- Free UPS two-way overnight shipping to the RSC
- Approved replacement parts
- Access to Motorola Technical Expertise
- 90 day warranted repairs

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and

profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Territory Service Manager.

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Definitions](#)

Statement of Work

[Service from the Start -LITE SOW](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
3. Enter the main line item as quantity one.
4. All dollar amounts reflect an annual one year pricing.
5. Requires serial numbers for covered units.
6. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

APX Devices

TIER	Service Item	APX PORTABLE AND MOBILE1 PRODUCTS	1-499 Units	500-1499 Units	1500-2999 Units	3000+ Units
4	LSV01S00019A	MT1500, PR1500, APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$54.00	\$52.44	\$50.76	\$48.60
		APX4000XH, APX6000, APX6000LI,				

5	LSV01S00020A	APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$66.00	\$64.08	\$62.04	\$59.40
6	LSV01S00021A	APX Consolettes	\$100.80	\$97.80	\$94.80	\$90.72
7	LSV01S00144A	PM1500, XTL2500, APX1500, APX4500	\$78.60	\$76.20	\$73.92	\$70.80
8	LSV01S00143A	APX6500, APX6500LI, APX7500, APX8500	\$100.80	\$97.80	\$94.80	\$90.72
9	LSV01S00764A	XTL2500 WITH DUAL CONTROL HEAD, XTL5000 WITH DUAL CONTROL HEAD	\$129.00	\$125.16	\$121.20	\$116.16

PCR/MOTOTRBO DEVICES

TIER	SERVICE ITEM	PORTABLE AND MOBILE PRODUCTS	1-9 Units	10-29 Units	30-59 Units	60+ Units
2	LSV03S00034A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, SL300	\$38.40	\$37.20	\$36.12	\$34.56
3	LSV03S00731A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$48.00	\$46.56	\$45.12	\$43.20

32	LSV03S01190A	SL3500e, XPR3300e, XPR3500e, XPR2500	\$40.00	\$38.76	\$37.56	\$36.00
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Data/Pager Devices

TIER	SERVICE ITEM	DATA AND PAGER PORTABLE AND MOBILE PRODUCTS	1-499 Units	500- 1499 Units	1500- 2999 Units	3000+ Units
16	LSV03S00247A	MINITOR VI PAGER	\$23.00	\$22.50	\$22.25	\$22.00
18	LSV01Q00573A	MVX 1000	\$153.36	\$150.72	148.08	\$153.36

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Service Repair Bank Service

Ordering Information

General Information

Services Repair Bank (SRB) is a prepaid, discounted flat rate repair account based on a debit card concept which allows customers to purchase \$2500, \$5000, or \$10,000 worth of RSC or IDO services at a tiered discount rate. The discount will be taken up front and when the customer sends in radios or Infrastructure equipment to the RSC or IDO for repair or requests other RSC or IDO services; the standard flat rate will be deducted from the customer's SRB account. No discounts will be allowed beyond the standard program's tiered discount level. There is no term limit. The account will be valid for as long as funds remain in the account. Funds from customer's SRB account will be available not only for repairs, but can also be used for programming, physical damage, engraving, and any other service provided by the RSC or IDO. Web-based tracking of account status will be available to customers via the existing authorized service web site and authorized dealer web site. Email notifications will be sent out when 1) account is near expiration; and 2) account is near depletion.

Features

- Up front discount
- Free outbound shipping for subscriber units
- No term limit
- Account status availability
- No hassles with multiple purchase orders
- Additional service capacity and technical expertise

Statement of Work

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Definitions

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Statement of Work

[Service Repair Bank SOW](#)

Ordering Requirements

1. **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Order Management System. Please call 1-800-422-4210 if you are interested in ordering this product. This is ordered as a part number
2. Enter the main line item as quantity one.
3. Options are required as sub-items, with the quantity equal to the option description.
4. Service Repair Bank is not discountable.
5. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

General Information

Shipping Information, Safety Notice And Warranty Information

SHIPPING INFORMATION

MODELS LISTED IN PRICE BOOK

The NORMAL shipping cycle for equipment listed in this price book is carried in the COMMUNICATIONS PRODUCTS SHIPPING SCHEDULE (Shipping Card), which is mailed monthly to price book users.

MODELS NOT LISTED IN PRICE BOOK

Shipping schedules for ANY models, including P, Q, and SP model series, which are not listed in this price book must be negotiated with the Product group.

SAFETY NOTICE

Liquefied Petroleum (LP) gas fueled vehicles: Section 381 of the National Fire Protection Association Standard No. 58 requires (in part) that the passenger-carrying compartment and any space containing radio equipment shall be isolated by a seal from the space in which LP-gas container and its fittings are located.

MOTOROLA MOBILE RADIO EQUIPMENT MUST NOT BE INSTALLED ON THE LP-GAS CONTAINER SIDE OF THE SEAL.

WARRANTY INFORMATION

All products appearing in section 1.0 are backed by Motorola's **ONE YEAR PARTS AND LABOR WARRANTY** for protection against defects in material and workmanship. Selected Mobiles offer optional coverage through the Extended Service Plan. Please refer to specific mobile option pages for further details.

JUMP TO ...
**GENERAL
INFORMATION**
General Information
S.I.C. Codes North America Communications Group

AGRICULTURE		SALES & SERVICE		PUBLIC SAFETY	
CROPS	1.000	COMMUNICATIONS MEDIA		EMS	
LIVESTOCK	2.000	Cable & Other Pay TV	48.401	State EMS	80.001
SERVICES	7.000	Printing & Publishing	27.000	County/Township EMS	80.002
CONSTRUCTION		Radio & TV	48.301	Volunteer EMS	80.004
Building		FINANCE, INSURANCE, PROPERTY MGNT		Private EMS, Ambulances	80.005
Commercial	15.400	Banks & Credit Agencies	60.000	City/Authority EMS	80.003
Residential	15.200	Insurance Carriers, Agents, Brokers	63.000	FIRE	
CONCRETE & ASPHALT SERVICES	17.700	Real Estate & Property Mgmt.	65.000	State Fire	92.241
CONSTRUCTION INDUSTRY SERVICES	52.100	HOSPITALITY & ENTERTAINMENT		County/Twshp Fire	92.242
HEAVY, HIGHWAY, STREET, BRIDGE		Amusement, Recreation, Gaming	79.000	LAW ENFORCEMENT	
Highway, Street Bridge, Tunnel	16.100	Lodging	70.000	State Law Enforcement	92.211
Pipelines, Dams, Utility Lines	16.200	Restaurants, Drinking Establishments	58.000	County/Twshp Law Enforcement	92.212
SPECIALITY CONTRACTORS	17.000	RADIO COMMUNICATIONS SERVICES		City/Authority Law Enforcement	92.213
MANUFACTURING		Independent Service Stations	76.200	GOVERNMENT SERVICES	
HEAVY MANUFACTURING & MINING		Motorola Service Stations	76.210	HIGHWAYS & STREETS	
Aerospace Industry	37.600	COMSS	76.211	State Highways & Streets	95.321
Automotive Industry	37.100	Other Motorola Service Stations	76.212	County/Twshp Highways & Streets	95.322
Heavy Equipment	35.000	Other Communications Services	48.990	City/Authority Highways & Streets	95.323
Mining	12.000	RETAIL SALES		PUBLIC WORKS	
Steel & Metal	33.000	Food Sales	54.000	State Public Works	95.111
Other Heavy Manufacturing	39.000	Non-Food Sales	59.000	County/Twshp Public Works	95.112
LIGHT MANUFACTURING		ROUTE & DELIVERY SERVICES		OTHER GOVERNMENT SERVICES	93.000
	35.790	Alcoholic Beverage Distributors	51.491	INSTITUTIONAL	
Non-Computer Business Equipment	35.700	Non Alcoholic Beverage Distributors	51.801	AVIATION & PORT AUTHORITIES	96.200
Semiconductors	36.740	Other Route & Delivery Services	42.150	CORRECTIONS	
Other Light Manufacturing	36.000	VALUE-ADDED RESELLERS (VARs)		State Corrections	92.231
PROCESS MANUFACTURING		VARs-AGriculture/Food	73.731	Probation/Parole	92.234
Beverages	20.800	VARs - Construction	73.732	Private Corrections	92.235
Chemicals	28.000	VARs_Government	73.733	City/County Corrections	92.233
Food & Tobacco Products	20.000	VARs - Manufacturing	73.734	City/County Corrections	92.233
Forest Products & Paper	26.000	VARs - Minerals	73.735	EDUCATION	

Non-Food Packaged Goods	28.400	VARS - Sales & Service	73.736	Elementary & Secondary Schools	82.100
Pharmaceuticals	28.300	VARS _ Transportation	73.737	Colleges, Universities	82.200
Other Process Manufacturing	23.000	VARS - Utilities	73.738	Other Education	82.900
PETROLEUM		VARS - Others	73.739	GOVERNMENT FACILITIES	
OIL & GAS EXTRACTION/EXPLORATION	13.000	WHOLESALEERS & WAREHOUSES	50.000	Executive, Legislative, Administrative	92.000
PIPELINES & DELIVERY	46.000	OTHER SERVICES		Judicial, Courts	92.101
REFINING	29.100	Automotive Services	75.000	HEALTH CARE	80.000
TRANSPORTATION		Business Services	73.000	NON-PROFIT/MEMBERSHIP ORGS	86.000
AIR SERVICES		Household Items & Repair Services	76.000		
Air Couriers	45.130	Personal Services	72.000	UTILITIES	
Airlines	45.000	Refuse Collection & Disposal	49.530	GOVERNMENT UTILITIES	96.300
GOVERNMENT TRANSIT				PRIVATE UTILITIES	
Local Transit	41.100	RADIUS/DEALERS SALES		Private Electric	49.102
Pupil Transit	41.500	INDUSTRIAL SUPPLIER	36.255	Private Gas	49.202
NON-GOVERNMENT TRANSIT	41.300	MARINE	44.950	Private COmbined	48.100
RAILROADS	40.000	TRUNKED RADIO DEALERS (SMR)	48.800	TELEPHONE & COMMUNICATIONS	48.100
TAXI/LIMOUSINE	41.200	CELLULAR DEALERS	48.805	WATER& IRRIGATION (GOV'T & PRIVATE)	49.400
TRUCKING		RCC	48.855		
Total Load (TL) Trucking	42.131	TWO WAY RENTAL	50.900		
Less Than Total Load (LTL) Trucking	42.132	RETAIL	53.600		
Household Moving & Storage	42.133	TWO WAY CATALOG HOUSE	53.700		
OTHER TRANSPORTATION	47.890	GENERAL CATALOG	53.800		
		AV EQUIPMENT RENTAL	73.595		
		MSS	73.600		
		COMPETITIVE TWO-WAY RADIO DEALER	73.700		
		DISTRIBUTOR	73.725		
		MANUFACTURER'S REP	73.730		
		INDUSTRY SPECIFIC SUPPLIER	76.555		
		OEM	76.600		

JUMP TO ...
**GENERAL
INFORMATION**
General Information
S.I.C. Codes Federal Government Civil And Defense Agencies

DEFENSE AGENCIES		DEPARTMENT OF THE AIR FORCE		DEPARTMENT OF EDUCATION	
National Security Agency	91.111	Air Force Material Command	91.161	Department of Education	91.245
Defense Information Systems Agency	91.112	Air Training Command	91.163		
Defense Logistics Agency	91.113	Air Force Communications Service	91.164		
Defense Intelligence Agency	91.114	Aerospace Defense Command	91.165	DEPARTMENT OF THE INTERIOR	
Defense Mapping Agency	91.115	Air Mobility Command	91.166	Bureau of Indian Affairs	91.251
Defense Nuclear Agency	91.116	STRATCOM	91.167	Bureau of Land Management	91.252
Defense Advanced Research Project Agency	91.117	Air Combat Command	91.168	Bureau of Reclamation	91.253
White House Communications Agency	91.118	Air Force Security Service	91.169	Bureau of Mines	91.254
All Other Defenses	91.119	Air Force Intelligence Service	91.170	U. S. Geological Survey	91.255
		Air Force Reserve	91.171	National Park Service	91.256
DEPARTMENT OF THE ARMY				U. S. Fish & Wildlife Service	91.257
Army Corp. of Engineers	91.121	Air Force Commissary Service	91.171	Heritage Conservation and Recreation Service	91.258
Army Forces Command	91.122	Air Force Engineering and Services Center	91.173	All Other Interior	91.259
Army Communications Commands	91.124	Air Force Medical Services Center	91.174		
Army Criminal Investigation Command	91.125	Alaskan Air Command	91.175	DEPARTMENT OF ENERGY	
Army Health Services Command	91.126	Pacific Air Forces	91.176	Power Administrations	91.261
Army Intelligence and Security Command	91.127	Air Forces in Europe	91.177	Federal Energy Regulatory Comm	91.262
Army Material Development and Readiness Command	91.128	Air National Guard	91.178	Office of Energy Resources	91.263
Military Traffic Management Command	91.129	Air Force Academy	91.179	Economic Regulatory Admin.	91.264
Army South	91.130	All Other Air Force	91.180	Energy Information Admin.	91.265
Army FMS	91.131	Air Force FMS	91.181		
Army Reserves	91.132			DEPARTMENT OF JUSTICE	
Eighth Army	91.132	CIVIL AGENCIES		Bureau of Prisons	91.271
U. S. Army Europe	91.134	EXECUTIVE OFFICE OF THE PRESIDENT		Community Relations Service	91.272
U. S. Army Pacific	91.135	National Security Council	91.211	Immigration & Naturalization Service	91.273
U. S. Army Military District of Washington	91.136	Office of the White House	91.212	Law Enforcement Assistance Admin.	91.274
Army Recruiting Command	91.137	Office of Management and Budget	91.213	U. S. Marshals Service	91.275
Army National Guard	91.138	Council of Economic Advisors	91.214	U. S. Parole Comm.	91.276
All Other Army	91.139	Council of Environmental Quality	91.215	U. S. Attorney General	91.277

		Office of Science and Policy	91.216	Federal Bureau of Investigation	91.278
DEPARTMENT OF THE NAVY		Office of the Vice President	91.217	Drug Enforcement Administration	91.279
Naval Electronic Systems Command	91.141	All Other Executive Offices	91.219	All Other Justice	91.281
Naval Air Systems Command	91.142	DEPARTMENT OF AGRICULTURE		DEPARTMENT OF STATE	
Naval Sea Systems Command	91.143	Agricultural Marketing Service	91.221	DOS _ International	91.291
Naval Supply Systems Command	91.144	Agricultural Stabilization and Conservation Service	91.222	DOS - Domestic	91.292
Naval Facilities Engineering Command	91.145	Animal and Plant Health Inspection Service	91.223	USAID - Projects	91.213
Military Sealift Command	91.146	Federal Grain Inspection Service	91.224	USAID - Security	91.294
Naval Telecommunications Command	91.147	Food and Nutrition Service	91.225	U. S. Information Agency	91.295
Naval Intelligence Command	91.148	U. S. Forest Service	91.226	U. S. Information Agency	91.295
Naval Material Command	91.149	Food Safety and Quality Service	91.227	International Narcotics Matters	91.296
Naval Security Group Command	91.150	Rural Electrification Admin.	91.228	All Other State	91.299
Naval Oceanography Command	91.151	All Other Agriculture	91.229		
Naval Education and Training Command	91.152			DEPARTMENT OF THE TREASURY	
Naval Data Automation Command	91.153	DEPARTMENT OF COMMERCE		Bureau of Alcohol, Tobacco and Firearms	91.311
Naval Reserve Command	91.154	Bureau of Census	91.232	Bureau of the Mint	91.312
Naval Civilian Personnel Command	91.155	Bureau of Economic Analysis	91.233	Bureau of the Public Debt	91.313
U. S. Navy Atlantic Fleet	91.156	National Telecommunications and Information Admin.	91.234	Bureau of Engraving and Printing	91.314
U. S. Navy Pacific Fleet	91.157	Maritime Admin.	91.235	Bureau of Government Financial Operations	91.315
U. S. Naval Forces Europe	91.158	National Oceanic and Atmosphere Admin.	91.236	Internal Revenue Service	91.316
Bureau of Medicine and Surgery	91.159	U. S. Travel Service	91.237	U. S. Customs Service	91.317
Bureau of Naval Personnel	91.190	National Bureau of Standards	91.238	U. S. Secret Service	91.318
Naval District Headquarters	91.191	All Other Commerce	91.239	Federal Law Enforcement Training Ctr.	91.319
U. S. Naval Academy	91.194			All Other Treasury	91.322
Navy FMS	91.195	DEPARTMENT OF HEALTH AND HUMAN SERVICES			
All Other Navy	91.199	Health Services Admin	91.241		
U S. MARINE CORPS		Health Care Financing Admin	91.242		
U. S. Marine Corps	91.192	Office of Civil Rights	91.243		
U. S. Marine Corps Reserve	91.193	Office of Child Support Enforcement	91.244		
		Office of Human Development Services	91.246		
		Public Health Service	91.247		
		Social Security Admin.	91.248		
		INDEPENDENT ESTABLISHMENTS AND GOVERNMENT CORPORATIONS		DEPARTMENT OF TRANSPORTATION	

Appalachian Regional Commission	91.323	U. S. Coast Guard	91.611
Central Intelligence Agency	91.324	Federal Aviation Admin	91.612
Civil Aeronautics Board	91.325	Federal Highway Admin	91.613
Consumer Product Safety Commission	91.326	Federal Railroad Admin	91.614
Environmental Protection Agency	91.327	Urban Mass Transportation Admin	91.615
CEqual Employment Opportunity Commission	91.328	National Highway Traffic Safety Admin	91.616
Farm Credit Administration	91.329	St. Laurence Seaway Development Corp.	91.617
Federal Communications Commission	91.331	Research and Special Programs Admin.	91.618
Federal Deposit Insurance Commission	91.332	All Other Transportation	91.619
Federal Emergency Management Agency	91.333		
Federal Labor Relations Authority	91.334	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	
Federal Maritime Commission	91.335	Federal Housing Comm.	91.711
Federal Reserve System	91.336	New COmmunities Admin.	91.712
Federal Trade Commission	91.337	Community Planning and Development COmm.	91.713
General Services Administration	91.338	Government National Mortgage	91.714
International Communication Agency	91.330	All Other HUD	91.719
Interstate Commerce Commission	91.341		
National Aeronautics and Space Admin.	91.342	DEPARTMENT OF LABOR	
National Science Foundation	91.343	Bureau of Labor Statistics	91.811
National Transportation Safety Board	91.344	Occupational Safety and Health Admin.	91.812
Nuclear Regulatory Commission	91.345	Bureau of International Labor Affairs	91.813
Occupational Safety and Health Review Commission	91.346	Employment and Training Admin	91.814
Office of Personnel Management	91.347	Mine Safety and Health Admin	91.815
Panama Canal Commission	91.348	Labor - Management Services Admin.	91.816
Peace Corps	91.349	Employment Sandards Admin.	91.817
Securities and Exchange Commission	91.350	All Other Labor	91.819
Selective Service System	91.351		
Small Business Administration	91.352	LEGISLATIVE BRANCH	
Tennessee Valley Authority	91.353	U. S. Senate	91.910
U. S. International Development Cooperation Agency	91.354	Government Accounting Office	91.911
U. S. Postal Department	91.355	Government Printing Office	91.912
Veterans Administration	91.356		
Smithsonian Institution	91.357		
EXIM Bank	91.358		

World Bank	91.359	Library of Congress	91.913
International Monetary Fund	91.360	U. S. House of Representatives	91.920
Territorial Government of Guam	91.361	All Other Legislative	91.929
Territorial Government of the Virgin Islands	91.362		
All Other Independents	91.390	JUDICIAL BRANCH	

U. S. Supreme Court	91.951
U. S. Court of Appeals	91.952
U. S. District Courts	91.953
Special Courts	91.954
Administrative Office of U. S. Courts	91.955
All Other Judicial	91.959

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

Site Ancillary for Public Safety LTE

Ordering Information

General Information

This section consists of site ancillaries, including cables and connectors, accessories including grounding kit and mounting options for Public Safety LTE eNodeB sites. The typical deployment will consist of 1/2" jumper cables coming from the antenna to RRUs, SFP connectors, power adapters for fiber and power jumper connectivity between the BB/RBS and RRUs, as applicable. The configuration is sub-divided into cables, connectors and accessories.

Configuration

CABLES:

1/2" Jumper Cable

Jumper cable on the antenna and RRU side.

Order Quantity 2 per RRU on 2T2R configurations.

Order Quantity 4 per RRU on 2T4R configurations.

Description	Full Description	Nomenclature	APC	Price
1/2IN JUMPER CABLE, 4.3-10(M)-7/16 DIN(M), 3 M	4.3-10(m)-7-16(m), 3 m	DDN2419	051	\$20.00
1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 5 M	4.3-10(m)-7-16(m), 5 m	DDN2438	051	\$30.00
1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 10 M	4.3-10(m)-7-16(m), 10 m	DDN2439	051	\$50.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 3 M	4.3-10(m)-4.3-10(m), 3 m	DDN2418	051	\$20.00

1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 5 M	4.3-10(m)-4.3-10(m), 5 m	DDN2440	051	\$30.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 10 M	4.3-10(m)-4.3-10(m), 10 m	DDN2441	051	\$50.00

Remote Electrical Tilt (RET) Control Cable:

RET cable on the RET enabled antenna and RRU side.

Order Quantity 1 per RRU.

Description	Full Description	Nomenclature	APC	Price
RET CONTROL CABLE , BLACK 1.0 M TT0	1 m	DDN2412	051	\$30.00
RET CONTROL CABLE , BLACK 2.0 M TT0	2 m	DDN2413	051	\$30.00
RET CONTROL CABLE , BLACK 3.0 M TT0	3 m	DDN2414	051	\$30.00
RET CONTROL CABLE , BLACK 5.0 M TT0	5 m	DDN2415	051	\$40.00
RET CONTROL CABLE , BLACK 15.0 M TT	15 m	DDN2416	051	\$70.00

Optical Cable:

Optical cable between BB and RRUs, order Quantity 1 per RRU.

Description	Full Description	Nomenclature	APC	Price
2F LC(FULLAXS)-LC SM, 5 M	5 m	DDN2387	051	\$50.00
2F LC(FULLAXS)-LC SM, 10 M	10 m	DDN2388	051	\$70.00
2F LC(FULLAXS)-LC SM, 20 M	20 m	DDN2389	051	\$80.00
2F LC(FULLAXS)-LC SM, 30 M	30 m	DDN2390	051	\$100.00

2F LC(FULLAXS)-LC SM, 50 M	50 m	DDN2391	051	\$140.00
2F LC(FULLAXS)-LC SM, 70 M	70 m	DDN2392	051	\$170.00
2F LC(FULLAXS)-LC SM, 100 M	100 m	DDN2393	051	\$220.00
2F LC(FULLAXS)-LC SM, 150 M	150 m	DDN2394	051	\$310.00
2F LC(FULLAXS)-LC SM, 200 M	200 m	DDN2395	051	\$390.00
2F LC(FULLAXS)-LC SM, 250 M	250 m	DDN2396	051	\$470.00
2F LC(FULLAXS)-LC SM, 300 M	300 m	DDN2397	051	\$550.00
2F LC(FULLAXS)-LC SM, 500 M	500 m	DDN2398	051	\$890.00

DC Power Cable:

The 2-wire power cable between RBS and RRUs, typical assumption may be 50m per radio, total length spooled across all eNBs:

Description	Full Description	Nomenclature	APC	Price
100M DC POWER CABLE, 2X10 MM2, SUP	100 m	DDN2373	051	\$690.00
300M DC POWER CABLE, 2X10 MM2, SUPP	300 m	DDN2374	051	\$1,870.00
500M DC POWER CABLE, 2X10 MM2, SUPP	500 m	DDN2378	051	\$2,800.00

NOTE: On non-hybrid solutions for DC power and fiber, although the cables are outdoor rated, local site installers are suggested to be consulted for conduit installation.

NOTE: Refer to Product Catalog page eNodeB Band Class XX, sub-section Base Terminal Equipment Requirements for DC power cable between the switch and the eNB.

CONNECTORS:

With 2-wire power cables connecting the RBS to the RRUs, the following is mandatory. Order Quantity 1 per RRU:

	Full			
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Description	Description	Nomenclature	APC	Price
CIRCULAR POWER CABLE CONNECTOR 2-POS 10MM2	-	DDN2445	051	\$30.00
2-WIRE DC ADAPTER	-	DDN2446	051	\$30.00

SFP connector is required for CPRI interface between BB and RRUs. In this case, up to 9.8 Gbps/SM/1.4m is offered. Order Quantity 2 per RRU:

Description	Full Description	Nomenclature	APC	Price
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	051	\$40.00

ACCESSORIES:

Cable clamps:

Orderable unit comes as pack of 10 clamps. One clamp is suggested per RRU:

Description	Full Description	Nomenclature	APC	Price
CABLE CLAMPS FOR 3 RRU, 10 PC	-	DDN2407	051	\$50.00

Weatherproofing for connectors:

The suggested quantity is 1 per 2T2R radio or 2 per 2T4R or 4T4R RRU:

Description	Full Description	Nomenclature	APC	Price
221213 CABLE WRAP WEATHERPROOFING	Supplier # 221213	TDN9289	351	\$19.00

Fiber overlength box:

Cable winder box holds up to 30 m optical cable excess length. It can mount to a wall, tower leg, etc. and possible to stack onto each other.

Suggested quantity is 1 per site:

Description	Full Description	Nomenclature	APC	Price
FIBER OVERLENGTH BOX	-	DDN2420	051	\$40.00

Jumper grounding kit:

Standard grounding kit for corrugated coaxial cable and elliptical waveguide.

Suggested quantity is 1 per site:

Description	Full Description	Nomenclature	APC	Price
241088-2 5/8" AND 7/8" 2 HOLE GROUNDING KIT	-	DS2410882	351	\$30.00

GPS Kit:

Refer to Refer to Product Catalog page under eNodeB Band Class XX sub-section Site Synchronization Requirements.

Surge Protection:

Refer to Refer to Product Catalog page under eNodeB Band Class XX sub-section Surge Protection Requirements.

RRU Mounting:

Universal Single RRU pole bracket for installation on mast, tower, wall or other vertical and horizontal structures.

Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
SINGLE ERS STEEL BRACKET, POLE/WALL	-	DDN2363	051	\$30.00

Rail mounting. Review with RAN PdM dependency on the radio dimensions in the RBS configurations for ordering the quantity per RRU.

Description	Full Description	Nomenclature	APC	Price
RAIL 180MM	180 mm	DDN2365	051	\$20.00
RAIL 300MM	300 mm	DDN2366	051	\$30.00
RAIL 450MM	450 mm	DDN2367	051	\$40.00
RAIL 1100MM	1100 mm	DDN2436	066	\$110.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	SYL	DDN2337	QNAP RAIL KIT FOR 2U RACKMOUNT MODE	056	15
QUOTEDS	ERS	DDN2363	SINGLE ERS STEEL BRACKET, POLE/WALL	051	80
QUOTEDS	ERS	DDN2365	RAIL 180MM	051	80
QUOTEDS	ERS	DDN2366	RAIL 300MM	051	80
QUOTEDS	ERS	DDN2367	RAIL 450MM	051	80
QUOTEDS	ESC	DDN2373	100M DC POWER CABLE, 2X10 MM2, SUP	051	80
QUOTEDS	ERS	DDN2374	300M DC POWER CABLE, 2X10 MM2, SUPP	051	80
QUOTEDS	ERS	DDN2377	SFP+ SM 10.3GB/S 1.4KM 1310NM	051	80
QUOTEDS	ERS	DDN2378	500M DC POWER CABLE, 2X10 MM2, SUPP	051	80
QUOTEDS	ERS	DDN2387	2F LC(FULLAXS)-LC SM, 5 M	051	80
QUOTEDS	ERS	DDN2388	2F LC(FULLAXS)-LC SM, 10 M	051	80
QUOTEDS	ERS	DDN2389	2F LC(FULLAXS)-LC SM, 20 M	051	80
QUOTEDS	ERS	DDN2390	2F LC(FULLAXS)-LC SM, 30 M	051	80

QUOTEDS	ERS	DDN2391	2F LC(FULLAXS)-LC SM, 50 M	051	80
QUOTEDS	ERS	DDN2392	2F LC(FULLAXS)-LC SM, 70 M	051	80
QUOTEDS	ERS	DDN2393	2F LC(FULLAXS)-LC SM, 100 M	051	80
QUOTEDS	ERS	DDN2394	2F LC(FULLAXS)-LC SM, 150 M	051	80
QUOTEDS	ERS	DDN2395	2F LC(FULLAXS)-LC SM, 200 M	051	80
QUOTEDS	ERS	DDN2396	2F LC(FULLAXS)-LC SM, 250 M	051	80
QUOTEDS	ERS	DDN2397	2F LC(FULLAXS)-LC SM, 300 M	051	80
QUOTEDS	ERS	DDN2398	2F LC(FULLAXS)-LC SM, 500 M	051	80
QUOTEDS	ERS	DDN2407	CABLE CLAMPS FOR 3 RRU, 10 PC	051	80
QUOTEDS	ERS	DDN2412	RET CONTROL CABLE , BLACK 1.0 M TT0	051	80
QUOTEDS	ESC	DDN2413	RET CONTROL CABLE , BLACK 2.0 M TT0	051	80
QUOTEDS	ERS	DDN2414	RET CONTROL CABLE , BLACK 3.0 M TT0	051	80
QUOTEDS	ERS	DDN2415	RET CONTROL CABLE , BLACK 5.0 M TT0	051	80
QUOTEDS	ERS	DDN2416	RET CONTROL CABLE , BLACK 15.0 M TT	051	80
QUOTEDS	ERS	DDN2418	1/2" JUMPER CABLE, 4.3-10(M)-4.3- 10(M), 3 M	051	80
QUOTEDS	ERS	DDN2419	1/2IN JUMPER CABLE, 4.3-10(M)-7/16 DIN(M), 3 M	051	80
QUOTEDS	ERS	DDN2420	FIBER OVERLENGTH BOX	051	80
QUOTEDS	ERS	DDN2436	RAIL 1100MM	066	80

QUOTEDS	ERS	DDN2438	1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 5 M	051	80
QUOTEDS	ERS	DDN2439	1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 10 M	051	80
QUOTEDS	ERS	DDN2440	1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 5 M	051	80
QUOTEDS	ERS	DDN2441	1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 10 M	051	80
QUOTEDS	ERS	DDN2445	CIRCULAR POWER CABLE CONNECTOR 2-POS 10MM2	051	80
QUOTEDS	ERS	DDN2446	2-WIRE DC ADAPTER	051	80
QUOTEDS	ANC	DS2410882	241088-2 5/8" AND 7/8" 2 HOLE GROUNDING KIT	351	15
QUOTEDS	ANC	TDN9289	221213 CABLE WRAP WEATHERPROOFING	351	14

JUMP TO ...[MODEL](#)[ORDERING
INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

Antenna Site Audit

Ordering Information

General Information

Antenna Site Audit is designed to evaluate the condition and characteristics of antenna sites, towers and site equipment. Highly skilled technical resources will perform a one-time comprehensive audit to help determine compliance with local, state, federal and industry standards and guidelines. A detailed report, including digital photographs, will be prepared with recommendations for achieving compliance and improving critical issues. Motorola will then work with the customer to coordinate servicers and implement recommendations. Repairs and maintenance costs are not included in this service

Features

- Trained technical expertise on-site
- Digital photos of site conditions
- Accurate and organized site documentation binder
- Site Audit per R56 Standards
- Summary report with detailed recommendations

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

[Antenna Site Audit SOW](#)

[Comm Site Grounding & Power Dist Insp SOW](#)

[Site Power Line & Grounding Analysis SOW](#)

Order Process and Contractual Documents

Initial Purchase of Service - use models:

SVC03SVC0101D Antenna Site Audit - SP

SVC03SVC0107D	Tower Inspection	
SVC03SVC0119D	Antenna Site Audit	1 - 4 Sites
SVC03SVC0120D	Antenna Site Audit	5 - 10 Sites
SVC03SVC0121D	Antenna Site Audit	11 - 20 Sites
SVC03SVC0122D	Antenna Site Audit	over 21 Sites

This product cannot be ordered directly through COF at this time. This product must be ordered using an internal Installation Agreement (IA).

Ongoing Maintenance Orders use model SVC01SVC2100

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#).

- Enter the main line item as quantity one.
- Options are required as sub-items, with the quantity equal to the option description.
- If customer is the site owner/operator, a tower climb is required.
- Antenna Site Audit is a pre-requisite for Antenna Site Management service.
- Customers who purchase Antenna Site Management at the same time they purchase Antenna Site Audit should receive a 15% discount on the Audit price.
- Antenna Site Audit can be ordered as a stand-alone service.
- All dollar amounts reflect a one-time, non-recurring price.

Quantity discounts available based on number of sites:


1.
 - Tier 1 (1-4 Sites)
 - Tier 2 (5-10 Sites)
 - Tier 3 (11-20 Sites)
 - Tier 4 (21+ Sites)

Configuration

Data Not Available

Ship Card

Data Not Available



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JUMP TO ...

- [MODEL](#)

- [UPDATES](#)

- [ORDERING INFORMATION](#)

- [CONFIGURATION](#)

- [SOFTWARE & SERVICES](#)

- [SHIP CARD](#)

Model



SLIM-Siren and Lights Interface Module

GENERAL SPECIFICATIONS

- Input Voltage** 13.8 VDC +/- 20%
- Main Input Fuse** 2 A
- Stand-by Current** 200 mA
- Operating Temperature** -22 to 140 °F (-30 to +60 °C)
- Storage Temperature** 40 to 185 °F (-40 to +85 °C)
- Reverse Polarity Protected**
- Dimensions (H x W x D)** 7.9 x 7.9 x 3.3 in (201 x 201 x 84 mm)
- Weight** 1.0 lb (0.4 kg)
- GPIO** 4 inputs, 4 outputs
- Max Input Sink Current** 100 mA
- Outputs Ground Trigger**

COMPATIBILITY

- APX RADIOS** APX 8500 APX 7500 APX 6500 APX
- CONTROL HEADS** O7 Integrated Control Head O3 Integrated Control Head
- LIGHTS AND SIREN MANUFACTURERS** Code 3® Federal Signal Whelen® Engineering

Updates

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective **January 1st, 2020** **FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW.** This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT

1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)
1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)
1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT
1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

SLIM - SIREN AND LIGHTS INTERFACE MODULE

SIMPLER, SAFER, CENTRALIZED Emergency vehicles are a complex environment. Loaded with specialized equipment and controls, it's not easy to know where to look. An overloaded cockpit can lead to user distraction in critical moments. Motorola Solutions has collaborated with Futurecom Systems Group, ULC, an innovative company of experienced radio professionals, to deliver the Siren and Lights Interface Module (SLIM).

The SLIM creates a single touch point to operate all mission critical equipment in an emergency vehicle. It enables APX™ control heads to operate light bars and sirens while also delivering a common microphone for PA and radio communications. Now you have a cleaner, simpler workplace that provides a safer and more efficient emergency vehicle experience. Simple and compact, the SLIM module is installed in the trunk of the vehicle, where it interconnects the APX mobile radio with products from most of the leading lights and sirens manufacturers.

Integrated Control Head: integrated design reduces the amount of equipment required in the vehicle, providing officers with more cabin space and easier access to all controls.

Ordering Information

SLIM - SIREN AND LIGHTS INTERFACE MODULE

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Simple and compact, the SLIM module is installed in the trunk of the vehicle, where it interconnects the APX mobile radio with products from most of the leading lights and sirens manufacturers.

Configuration

NOTE: APX MOBILES BEING USED WITH THE SLIM NEEDS TO BE IN REMOTE MOUNT CONFIGURATION

SLIM ORDERING GUIDE: <https://www.futurecom.com/upl/downloads/catalog/products/slim-ordering-guide-e64b7c36.pdf>

SLIM INSTALLATION GUIDE: <https://www.futurecom.com/support/documentation-software/slim/>

EXAMPLE ORDERING:

1. SLIM KIT REQUIRED (TT3224)
2. PROGRAMMING KIT (REQUIRED WITH PURCHASE OF FIRST SLIM KIT) (ONE PROGRAMMING KIT WILL BE REQUIRED FOR EACH MR/CHANNEL PARTNER)

3. INTERFACE KIT MUST BE SELECTED

Models

Description	Full Description	Nomenclature	APC	Price
ADD: INTERFACE KIT IK-A1 - WHELEN G	-	TT06290AA	571	\$203.00
ADD: INTERFACE KIT IK-D3 FED-SIG PLATIN (DATA RJ11 TO RJ45, AUDIO TRS	-	TT06291AA	571	\$203.00
ADD: INTERFACE KIT IK-E2 CODE3 Z3	-	TT06292AA	571	\$203.00
ADD: INTERFACE KIT IK-A1WA WHELENGO	-	TT06293AA	571	\$564.00
ADD: INTERF KIT IK-A1WB WHE CE-SAPH	-	TT06294AA	571	\$362.00
ADD: INTERF KIT IK-C1F COD3 SS,SM V	-	TT06295AA	571	\$362.00
ADD: PROGRAMMING KIT FOR SIREN & LI	-	TT06296AA	571	\$203.00
SLIM POWER HARNESS	-	DDN2348	571	\$203.00
SLIM GPIO CABLE	-	DDN2349	571	\$203.00
RADIO TO MODULE CABLE	-	DDN2350	571	\$203.00
SLIM PROGRAMMING CABLE KIT	-	DDN2351	571	\$203.00
INTERFACE KIT IK-A1 - WHELEN GRAY R	-	DDN2352	571	\$203.00
INTERFACE KIT IK-D3 FED-SIG PLATIN	-	DDN2353	571	\$203.00
INTERFACE KIT IK-E2 CODE3 Z3 REPLAC	-	DDN2354	571	\$203.00
INTERFACE KIT IK-A1WA WHELENGOLD-CE	-	DDN2355	571	\$564.00
INTERF KIT IK-A1WB WHE CE-SAPH-CANT	-	DDN2356	571	\$364.00
INTERF KIT IK-C1F COD3 SS,SM VISION	-	DDN2357	571	\$364.00
SLIM PROGRAMMING SOFTWARE	-	DDN2550	571	\$483.00
SLIM KIT (MODULE+GPIO+PWR+RADIO TO	-	TT3224	571	\$1,009.00

Software & Services

In North America, the NA Centralized Managed & Support Operations (CMSO) Service Desk (800-221-7144) will provide Tier 1 support to the customer. The NA CMSO Service Desk will open a Technical Support case and warm transfer the call to Futurecom (800-701-9180) or 647-642-5548) in Ontario, Canada. Technical Support is available 5 days a week, 9am to 7pm Eastern Time (ET) under standard warranty. 24x7 technical support will be provided for Severity 1 issues. The CMSO team may not be used as setup/deployment means to backfill unsold integration services.

Before warm transferring caller to Futurecom, the Service Desk must gather answers to the following script questions, and then provide these answers to Futurecom at warm transfer.

Ø What is the issue? Please describe what is not working.

Ø What is the serial number on the unit?

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN2348	SLIM POWER HARNESS	571	35
QUOTEDS	FUT	DDN2349	SLIM GPIO CABLE	571	35
QUOTEDS	FUT	DDN2350	RADIO TO MODULE CABLE	571	35
QUOTEDS	FUT	DDN2351	SLIM PROGRAMMING CABLE KIT	571	35
QUOTEDS	FUT	DDN2352	INTERFACE KIT IK-A1 - WHELEN GRAY R	571	35
QUOTEDS	FUT	DDN2353	INTERFACE KIT IK-D3 FED-SIG PLATIN	571	35
QUOTEDS	FUT	DDN2354	INTERFACE KIT IK-E2 CODE3 Z3 REPLAC	571	35
QUOTEDS	FUT	DDN2355	INTERFACE KIT IK-A1WA WHELENGOLD-CE	571	35
QUOTEDS	FUT	DDN2356	INTERF KIT IK-A1WB WHE CE-SAPH-CANT	571	35
QUOTEDS	FUT	DDN2357	INTERF KIT IK-C1F COD3 SS,SM VISION	571	35
QUOTEDS	FUT	DDN2550	SLIM PROGRAMMING SOFTWARE	571	35
QUOTEDS	FUT	TT3224	SLIM KIT (MODULE+GPIO+PWR+RADIO TO	571	35

JUMP TO ...

[GENERAL INFORMATION](#)

[STATEMENT OF WORK](#)

[ORDERING THE SERVICE](#)

[ADDITIONAL ORDERING REQUIREMENTS AND OPTIONS](#)

[SHIP CARD](#)

General Information

SmartX to MCC 7500 Dispatch Console VPM Conversion Service

Customers migrating from SMARTNET and SmartZone Trunking systems to ASTRO ®25 have been able to make the transition in a more economically and operationally effective way due to availability of Motorola SmartX site converters. However, upon completion of the migration customers are faced with the decision of what to do with their SmartX converter. This service solves that problem by converting SmartX site converters to Voice Processor Modules (VPMs) that can be used with the MCC 7500 IP Dispatch Console.

By having Motorola convert the software of the SmartX converter and simply re-using the hardware, the product takes on new functionality that is relevant to current needs. The price to convert the SmartX converter is less expensive than purchasing a brand new VPM for the MCC 7500 dispatch console.

Statement of Work

Motorola has invested significantly in its centralized, ISO9001 and TL9000-certified Infrastructure Depot Operations (IDO). We are a trusted partner for the repair and maintenance of thousands of customers' critical communications networks. This conversion service which is also offered through Motorola's IDO, expands our customer support capabilities and, more importantly, helps you to maximize your equipment investment. The economy of scale generated by a centralized service facility means you can take advantage of expert, high-quality reliable support at an economical price.

[SmartX Conversion to MCC 7500 VPM Statement of Work](#)

Ordering the Service

1. Customer contacts our System Support Center (SSC) and requests the SmartX conversion.
2. Customer provides the SSC representative (minimally)with a site ID and P.O. number.
3. The SSC representative provides the customer with a return material authorization number (RMA #).
4. Customer ships their SmartX Site Converter (s) to IDO. (Customer to cover inbound shipping charges)
5. IDO ships the MCC 7500 Dispatch Console VPM (converted SmartX) back to the

customer. (Customer to cover outbound shipping charges)

Additional Ordering Requirements and Options

Please note that in order for customers to fully build out their MCC 7500 Dispatch Consoles a **MCC 7500 Basic Console Functionality Software License** MUST be purchased.

Additional license options may be required depending on the features desired on the dispatch console (e.g. Trunking, Conventional and Inbound Event Display – IED).

Also, if secure operation is required then a Secure Operation License must be ordered along with the desired algorithm (option).

Peripheral equipment such as speakers, microphones, headset jacks and footswitches are also available for purchase depending upon the customer's needs.

Please refer to the MCC 7500 Dispatch Console price pages for specific options and pricing on all the above hardware, software and license items that are either required or need to be considered for the MCC 7500 console.

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)
[UPDATE](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SHIP CARD](#)

Model

QUANTAR®

Software and Hardware FLASHport® Upgrades

Base Stations and Repeaters

VHF, UHF, 800 and 900 MHz

Update

NOTICE: Beginning Q4, 2016, most of the Quantar Upgrade items in this section will no longer be available. At that time, only the upgrade path to convert a legacy station to a P25 station - which includes a control board change - will be offered. All other system conversion paths, enhancements, or upgrades requiring hardware components (cables, wireline cards, IR terminators, etc.) will be cancelled. Software-only refreshes for existing stations will still be available via the T6693 upgrade model.

Ordering Information

Ordering Requirements

This Model should be ordered when:

- Customers are **NOT** FLASH capable **OR**
- Customers are FLASH or NON-FLASH capable and are changing System Types as shown below:

1. Determine your station's FLASH capabilities.

Stations are FLASH capable if they meet all the following criteria:

1. Operating in 3.0 system release later
2. Station with a ship date of 01/01/97 or later
3. EPIC II or EPIC III Control Board in use (see table below)

System Type	SCB	EPIC I	EPIC II	EPIC III
Conv/6809 Trunked	TRN7475	TTN4094	CLN6961	CLN1614
INTELLIREPEATER	TRN7760	TRN7900	CLN6960	N/A

4. Wireline II Board in use (see table below)

Wireline Type	Wireline I	Wireline II
4 Wire (Standard)	TRN7477	CLN6955

5. Wireline Software version, **WL_020_09_015 thru WL_020_10_021**
This may be found in the Radio Service Software (RSS)

2. Gather the following information

- **Station Serial Number:**

The serial number for the QUANTAR station is REQUIRED when ordering any FLASHport System or Feature upgrade package. The COF user will be prompted to enter the station serial number after ordering the main model for a FLASHport upgrade. The serial number can be obtained through the use of the Radio Service Software, or from the label on the back of the station, or from the original station ship invoice.

- **Control Board Number**

The number for the QUANTAR station is REQUIRED when ordering any FLASHport System or Feature upgrade package. The COF user will be prompted to enter the number after ordering the main model for a FLASHport upgrade. The number will be used to check that the correct station control board option (shown below) is ordered. It can be obtained by pulling the board.

- **Backplane ID**

All of the upgrades shown below will require the use of the Radio Service Software (RSS) to reconfigure the station after installation. It is strongly recommended that the current version of RSS should also be ordered when ordering any upgrade. For 3.0 system software upgrades, it is REQUIRED that the latest version of RSS be ordered at the same time.

3. Select Model

- If you are not FLASH capable or are migrating from a Conventional or 6809 Trunked station to an INTELLIREPEATER or vice versa, then order the model listed below:

SQM01SUM0130A - Hardware & Software Upgrade Kit

4. Determine your current System Software Type

- X788 - Conventional
- CA00134 - 6809 Trunked
- CA00135 - INTELLIREPEATER

5. Select a Software option

- Customer will be selecting either the latest shipping SW, a System Software or a Feature Enhancement option.

6. Select Control Board option

- X791 - This control board option is for Conventional and 6809 Trunked stations. Select only if station is remaining Conventional/ 6809 Trunked or converting to Conventional/6809 Trunked.
- X792 - This control board option is for INTELLIREPEATER stations. Select only if stations is remaining INTELLIREPEATER or converting to INTELLIREPEATER.

7. Select Wireline Board option

- X216 - This is the 4 Wire Wireline board, which is the standard Wireline Board.
- X797 - This is the 8 Wire Wireline Board and is required when ordering options X157, X144 or C115

8. **Select other options** - Other items may be required, such as Cables or FTP Software

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE & HARDWARE UPGRADE KIT	-	SQM01SUM0130	509	\$0.00

Options

Current System Types

Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKED UPGRADE	-	CA00134AA	729	\$0.00
ENH: CONVENTIONAL UPGRADE	-	X788AA	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AA	729	\$0.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	-	X795AF	729	\$1,200.00

System Software

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL ASTRO CAI UPGRADE	For Conventional Analog(X597) migrating to Conventional ASTRO CAI.	X806AY	729	\$1,782.00
	REQUIRED --One Cable			

ENH: 6809 TRUNKING ASTRO CAI UPGRADE	Option (X244, X337, X338, X339)	X900AD	729	\$1,250.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AH	729	\$1,200.00
ADD: 6.X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRES: --ONE Cable Option(X244, X337, X338, X339)	X897AE	729	\$1,961.00
ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: INTELLIREPEATER OPERATION	-	X999AH	729	\$3,768.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED --One Cable Option (X148, X149, X150, X844, X841, X145, X146, X147)	X898AE	729	\$5,793.00
ADD: CONV/6809 TO P25 TRUNKING UPG	-	X422AA	729	\$4,350.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable (X244, X337, X338 or X339)	X997AG	729	\$1,200.00

Control Board

Description	Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE	Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00
ADD: INTELLIREPEATER EPIC CONTROL BOARD	-	X792AB	195	\$3,200.00

ADD: CONVENTIONAL/6809 TRUNKING EPIC BOARD	-	X791AB	729	\$2,000.00
ADD: CONTROL BOARD UPGRADE TO P25 TRUNKING	REQUIRES X591(Site Repeater) Contains Exciter Firmware	CA00255AA	509	\$3,200.00

DLAN Cables

Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 2' ETHERNET CABLE UPGRD	-	X844	729	\$70.00
ADD: 6' ETHERNET CABLE UPGRD	-	X841	729	\$120.00
ADD: 10' ETHERNET CABLE UPGRD	-	X145	729	\$170.00
ADD: 25' ETHERNET CABLE UPGRD	-	X146	729	\$200.00

Feature Enhancement(s)

Description	Full Description	Nomenclature	APC	Price
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not compatible with ASTRO capabilities	C457AC	729	\$100.00
ENH: 8 WIRE WIRELINE INTERFACE CAPABILITY UPGRADE	-	X144AH	729	\$200.00
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	-	C115AA	729	\$700.00
ENH: FALLBACK IN CABINET	-	U764AC	729	\$200.00

REPEAT UPGRADE				
ENH: MAIN STANDBY OPERATION UPGRADE	-	C753AA	729	\$350.00
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operatio	C101AE	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AD	729	\$300.00
ENH: BASIC WILDCARD UPGRADE	-	X233AA	729	\$400.00
ENH: ANALOG SIMULCAST UPGRADE	Requires Conventional Analog or 6809 Analog Trunking Operation.	X777AC	729	\$600.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupled and 8 which are transistors) and 10 outputs (4 which are relay closures and 6 which are transistor closure to ground). Not compatible with X233. Requires 8 wire Wireline board (Option X797).	X157AC	729	\$800.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations; user selects one or the other with the RSS:	X286AB	729	\$400.00

ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AE	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	When ordered with Quantar Receivers, adds Password Protection Capability to standard Remote RSS feature. Requires a Wireline with modem at both ends. Standard Remote RSS feature allows the use of RSS from a remote location.	X288AE	729	\$200.00
ENH: SPECTRA- TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation. Requires that station be equipped with a 4 wire or 8 wire Wireline.	X269AD	729	\$254.00
ADD: NON-MATRIXED INTERCONNECT	Not compatible with X873 or X932. Requires IntelliRepeater Operation. Includes Phone interconnect board (PIB) module.	X122	195	\$2,000.00

Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: IR SITE TERMTN HDW UPGRD	-	X843	195	\$25.00

Trunking Cables

Wireline Options

Description	Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE	Conventional, 6809 Trunked, and IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00
ADD: 4 WIRE	-	X216AG	729	\$1,000.00

WIRELINE BOARD				
ADD: 8 WIRE WIRELINE BOARD	-	X797AB	729	\$1,300.00
ADD: V.24 WIRELINE INTERFACE	-	X889AF	729	\$500.00

Accessories

Firmware

Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DLN1289A	FRU: EXCITER FIRMWARE	729	11
FIXEDSTN	SCB	SQM01SUM0130	SOFTWARE & HARDWARE UPGRADE KIT	509	36

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Software Upgrade Design Service

Ordering Information

General Information

Software Upgrade Design includes design services for Enhancement Releases only. Motorola will review System audit data along with an equipment list to insure there will be no Software incompatibilities between equipment that is not being upgraded versus equipment which is being upgraded with an Enhancement Release. Motorola will identify additional equipment and engineering that is required as a result of the upgrade and will recommend a plan for installation.

Features

- Configuration Management
- Access to Motorola Technical Expertise

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

Definitions

Capitalized terms used in this Statement of Work and not otherwise defined within the Statement of Work or Communications System Agreement have the following meanings: [Click here](#)

1.0 Description of Service

Software Upgrade Design includes design services for Enhancement Releases only. Motorola will review System audit data (when this service is performed by Motorola) along with an equipment list to avoid potential Software incompatibilities between equipment that is not being upgraded versus equipment which is being upgraded with an Enhancement Release. Motorola will identify additional equipment and engineering that is required as a result of the upgrade and will recommend a plan for installation of this additional equipment. Implementation of this installation plan is not included with the Software Upgrade Design.

The terms and conditions of this Statement of Work (SOW) are an integral part of

Motorola's Service Terms and Conditions or other applicable Agreement to which it is attached and made a part thereof by this reference.

2.0 Motorola has the following responsibilities:

- 2.1 Review Infrastructure System audit data as needed..
- 2.2 Identify additional System equipment needed to implement an Enhancement Release.
- 2.3 Complete a proposal defining the Enhancement Release, equipment requirements, installation plan, and impact to System users that will fulfill the Customer's upgrade requirements.
- 2.4 Advise Customer of probable impact to System users during the actual field upgrade implementation.

3.0 Customer has the following responsibilities:

- 3.1 Contact Motorola upon receiving a bulletin to engage the appropriate Motorola resources for an Enhancement Release or Core Release.
- 3.2 Cooperate with Motorola and perform all acts that are reasonable or necessary to enable Motorola to provide Software Upgrade Design services to Customer.
- 3.3 Maintain subscriber configuration data.

Approved by Motorola Contracts & Compliance 09/01/03

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager(ASM) or Customer Support Manager(CSM) for more details.
- **This product cannot be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

QUANTAR®
SOFTWARE Only FLASHport® Upgrades
Base Stations and Repeaters
VHF, UHF, 800 and 900 MHz

Ordering Information

Ordering Requirements

This Model should be ordered when:

- Customers are FLASH capable **OR**
- Customers are FLASH capable and are changing System Types as shown below:

INTELLIREPEATER®-----> 6809 Trunked/Conventional

1. Determine your station's FLASH capabilities.

Stations are FLASH capable if they meet all the following criteria:

1. Operating in 3.0 system release later
2. Station with a ship date of 01/01/97 or later
3. EPIC II or EPIC III Control Board in use (see table below)

System Type	SCB	EPIC I	EPIC II	EPIC III
Conv/6809 Trunked	TRN7475	TTN4094	CLN6961	CLN1614
INTELLIREPEATER	TRN7760	TRN7900	CLN6960	N/A

4. Wireline II Board in use (see table below)

Wireline Type	Wireline I	Wireline II
4 Wire (Standard)	TRN7477	CLN6955
8 Wire (Optional)	TRN7667	CLN6856

5. Wireline Software version, **WL_020_09_015 thru WL_020_10_021**
 This may be found in the Radio Service Software (RSS)

2. Gather the following information

- **Station Serial Number**

The serial number for the QUANTAR station is REQUIRED when ordering any FLASHport System or Feature upgrade package. The COF user will be prompted to enter the station serial number after ordering the main model for a FLASHport upgrade. The serial number can be obtained through the use of the Radio Service

Software, from the label on the back of the station, or from the original station ship invoice.

- **Control Board Number**

The station control board number for the QUANTAR station is REQUIRED when ordering any FLASHport System or Feature upgrade package. The COF user will be prompted to enter the station control board number after ordering the main model for a FLASHport upgrade. The station control board number will be used to check that the correct station control board option (shown below) is ordered. It can be obtained by pulling the board.

- **Backplane ID**

All of the upgrades shown below will require the use of the Radio Service Software (RSS) to reconfigure the station after installation. It is strongly recommended that the current version of RSS should also be ordered when ordering any upgrade. For 3.0 system software upgrades, it is REQUIRED that the latest version of RSS be ordered at the same time.

3. **Select Model**

- If you are FLASH capable or are migrating from a Conventional to 6809 Trunked station or vice versa, then order the **T6693 Software Download Upgrade Kit**

4. **Determine your current System Software Type**

- X788 – Conventional
- CA00134 – 6809 Trunked
- CA00135 – INTELLIREPEATER

5. **Select a Software option**

- Customer will be selecting either the latest shipping SW, a System Software, or a Feature Enhancement option.

6. **Order Hardware FRU** - If there are any cable requirements or any other hardware requirements when ordering T6693, they should be ordered as a FRU on a separate line item. All FRUs are listed under the accessories.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE UPGRADE KIT	-	T6693	509	\$0.00

Options

Current System Types

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL UPGRADE	-	X788AB	729	\$0.00

ENH: 6809 TRUNKED UPGRADE	-	CA00134AB	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AB	729	\$0.00
ADD: ASTRO 25 SITE REPEATER UPG	-	X418	729	\$0.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	Provides latest version of conventional software, with no feature upgrades. See below for available feature upgrades. This option CANNOT be ordered with any System Software or Feature Enhancements.	X795AG	729	\$1,200.00

System Software

Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKING ASTRO CAI UPGRADE	REQUIRED --One Cable FRU (DKN6112, DKN6113, DKN6114, DKN6115)	X900AE	729	\$1,250.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED --One Cable FRU's (DKN6103, DKN6104, DKN6105, DKN6106, DKN6107, DKN6108, DKN6109, DKN6110)	X898AF	729	\$5,793.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRED: --One Cable FRU's (DKN6112, DKN6113, DKN6114, DKN6115)	X897AF	729	\$1,961.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AJ	729	\$1,200.00
ADD: 6.X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00

ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: CONVENTIONAL ASTRO CAI UPGRADE	-	X806AZ	729	\$1,782.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable FRU (DKN6112, DKN6113, DKN6114 or DKN6115)	X997AH	729	\$1,200.00

Feature Enhancement(s)

Description	Full Description	Nomenclature	APC	Price
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operation	C101AF	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AE	729	\$300.00
ENH: MAIN STANDBY OPERATION UPGRADE	Provides Console TRC control, external closure or hot switchover. Requires Conventional Analog Operation.	C753AB	729	\$350.00
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not	C457AD	729	\$100.00

	compatible with ASTRO Operation.			
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	REQUIRED --6809 Trunking Operation (X997) --8 Wire Wireline Interface Module (FRU CLN1296)to also provide for Centralized Telephone Interconnect (CTI) capability	C115AB	729	\$700.00
ENH: FALLBACK IN CABINET REPEAT UPGRADE	-	U764AD	729	\$200.00
ENH: ANALOG SIMULCAST UPGRADE	-	X777AD	729	\$600.00
ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AF	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	-	X288AF	729	\$200.00
ENH: SPECTRA-TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation (X597 or X997). Requires station be equipped with 4 wire or 8 wire Wireline Board (CLN1295 or CLN1296).	X269AE	729	\$254.00
ENH: BASIC WILDCARD UPGRADE	-	X233AB	729	\$400.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations; user selects one or the other with the RSS:	X286AC	729	\$400.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupler and 8 which are transistors) and 10 outputs (4 which	X157AD	729	\$800.00

	are relay closures and 6 which are transistor closure to ground). Not compatible with X233 or X84. Requires 8 wire Wireline Board (FRU CLN1296).			
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Accessories

DLAN Cables

Description	Full Description	Nomenclature	APC	Price
FRU: 10' DLAN CABLE	-	DKN6103	729	\$170.00
FRU: 25' DLAN CABLE	-	DKN6104	729	\$200.00
FRU: 50' DLAN CABLE	-	DKN6105	729	\$245.00

Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
FRU: 2' ETHERNET CABLE	-	DKN6110	729	\$70.00
FRU: 6' ETHERNET CABLE	-	DKN6109	729	\$120.00
FRU: 10' ETHERNET CABLE	-	DKN6106	454	\$170.00
FRU: 25' ETHERNET CABLE	-	DKN6107	454	\$200.00
FRU: 50' ETHERNET CABLE	-	DKN6108	729	\$245.00

Ethernet Kits/FTP Kits

Description	Full Description	Nomenclature	APC	Price
FRU: IR SITE TERMINATION HW	-	DKN6111	729	\$25.00

Firmware

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Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

Trunking Cables

Description	Full Description	Nomenclature	APC	Price
FRU: 25' TRUNKING CABLE	-	DKN6112	729	\$50.00
FRU: 50' TRUNKING CABLE	-	DKN6113	729	\$87.00
FRU: 75' TRUNKING CABLE	-	DKN6114	729	\$124.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	DKN6103	FRU: 10' DLAN CABLE	729	40
FIXEDSTN	SCB	DKN6104	FRU: 25' DLAN CABLE	729	40
FIXEDSTN	SCB	DKN6105	FRU: 50' DLAN CABLE	729	40
FIXEDSTN	SCB	DKN6106	FRU: 10' ETHERNET CABLE	454	40
FIXEDSTN	SCB	DKN6107	FRU: 25' ETHERNET CABLE	454	40
FIXEDSTN	SCB	DKN6108	FRU: 50' ETHERNET CABLE	729	40
FIXEDSTN	SCB	DKN6109	FRU: 6' ETHERNET CABLE	729	40
FIXEDSTN	SCB	DKN6110	FRU: 2' ETHERNET CABLE	729	40

FIXEDSTN	SCB	DKN6111	FRU: IR SITE TERMINATION HW	729	40
FIXEDSTN	SCB	DKN6112	FRU: 25' TRUNKING CABLE	729	40
FIXEDSTN	SCB	DKN6113	FRU: 50' TRUNKING CABLE	729	40
FIXEDSTN	SCB	DKN6114	FRU: 75' TRUNKING CABLE	729	40
FIXEDSTN	SCB	DLN1289A	FRU: EXCITER FIRMWARE	729	11
FIXEDSTN	SCB	T6693	SOFTWARE UPGRADE KIT	509	7

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MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

Switching and Routing Center (SRC 7500)
ASTRO 25 7.16
Expansions and Upgrades

Ordering Information

SRC 7500 ALL M-CORE CONFIGURATIONS

Please refer to the current [SRC 7500 A7.16 Expansions Ordering Guide](#) and [SRC 7500 A7.16 Upgrades Ordering Guide](#) for detailed ordering instructions

Refer to K-Core & L-Core price pages to expand/upgrade Networking Transport equipment.

Configuration

SRC 7500 Expansions and Upgrades Main Model (Mandatory)

Order the model below to expand or upgrade an existing SRC 7500.

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00

SRC 7500 EXPANSION CONFIGURATIONS

SRC 7500 System Release Expansions (Mandatory)

These options will ensure the appropriate licenses are generated for the options ordered applicable to a system release.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.13 / 7.14	-	CA02651AA	147	\$0.00

ADD: SRC 7500 FOR 7.15 AND BEYOND	-	CA02652AA	147	\$0.00
ADD: SRC 7500 FOR 7.16	SRC 7500 M-Core Gateway Expansion	CA02870AA	147	\$0.00

SRC 7500 M-Core Gateway Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M-Core Ethernet Core Router Expansion

The number of Core routers allowed per zone varies per system release, refer to the ordering guide for more details.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00

SRC 7500 M-Core CWR Core Router Expansion

The number of Core routers allowed per zone varies per system release, refer to the ordering guide for more details.

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE	Intent to Cancel Date:t31-Dec-	CA01422AA	147	\$40,000.00

ROUTER CWR	2019			
ADD: QTY 1 PAIR CORE ROUTERS CWR	SRC 7500 M-Core Ethernet Interzone Router Expansion Intent to Cancel Date:t31-Dec-2019	CA01346AA	147	\$70,000.00

SRC 7500 M-Core Ethernet Interzone Router Expansion

Available for M1 and M3 only. New in A7.16 - A combined Core-Exit Router available in Ethernet only, may be ordered to consolidate the number of Routers in the SRC.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core CWR Interzone Router Expansion

Available for M1 and M3 only.

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date:t31-Dec-2019	CA02653AA	147	\$40,000.00
ADD: INTERZONE CAPABILITY CWR	SRC 7500 M-Core High Availability Data Expansion Intent to Cancel Date:t31-Dec-2019	CA01358AA	147	\$70,000.00

SRC 7500 M-Core High Availability Data Expansion

A7.16 systems ship with a GGSN and a VPN/Firewall standard in each SRC 7500. High Availability Data requires a second GGSN and a second firewall.

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)

These options add encryption and/or FIPS to new GGM 8000s only. Refer to the FRU section to order the appropriate S6000 options. Order one option for each new GGM 8000 router in SRC, i.e. If adding one Core router (ethernet) and one GGSN, order 2 CA02087AA, if FIPS is also required then include 2 CA02134AA as well. Refer to the FRU section to order encryption for existing routers. It is not recommended to add FIPS 140 Level 2 encryption certification to existing routers, a new router must be order with both options below if the encryption certificate must be current.

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M-Core Backhaul Switch Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$2,250.00

SRC 7500 M-Core Fiber Connectivity Expansion

Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTY BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTY BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00

SRC 7500 UPGRADE CONFIGURATIONS

SRC 7500 System Release (Mandatory)

These options will ensure the appropriate licenses are generated for the options ordered applicable to a system release.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 7.15 UPGRADE	-	CA02935AA	358	\$1,400.00
ADD: SRC 7500 7.16 UPGRADE	SRC 7500 M-Core Gateway License	CA02936AA	358	\$1,400.00

SRC 7500 M-Core Gateway License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Core Router License

Order one upgrade option for each Core router in an SRC 7500. This option is applicable to upgrade GGM 8000 and S6000 routers.

Please note: Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Interzone Router License

Order one upgrade option for each Exit router in an SRC 7500. This option is applicable to upgrade GGM 8000 and S6000 routers. Available for M1 and M3 only.

Please note" Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 EXIT ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00

SRC 7500 M-Core GGSN License

Order one upgrade option for each GGSN in an SRC 7500.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00

SRC 7500 M-Core Site Router License

Order one upgrade option for each site routers in a zone. This option is applicable to upgrade S2500 and GGM 8000 routers.

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00

SRC 7500 M-Core Ethernet Switch License

Order one upgrade option per zone to upgrade HP Ethernet switches (including HP Backhaul

switches purchased through Motorola).

Description	Full Description	Nomenclature	APC	Price
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00

SRC 7500 M-Core Additional Media CDs

If additional Router, GGSN, Ethernet Switch or Firewall media CDs are required due to equipment installed in multiple locations or other reason, order the additional quantity needed (CA02935AA or CA02936AA are required on the order).

Description	Full Description	Nomenclature	APC	Price
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02943AA	358	\$50.00
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02944AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA02946AA	358	\$50.00

SRC 7500 Expansions FRU Kits

Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links, including one relay panel and four cables. This kit is also used as the Simulcast Subsite Access Routers deployed at the Prime site within an IP Simulcast Subsystem.

Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
SRC 24 PORT T1/E1EXP II	Intent to Cancel Date:t31-Dec-2019	ST6202	147	\$75,000.00
ASSY,CBL,3 FT,RELAY	-	DKN6144A	454	\$475.00

PNL,CWR,S6000				
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00
FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date:t31- Dec-2019	T7380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.00
SRC SPARE KIT	Intent to Cancel Date:t31- Dec-2019	CLN8356	147	\$40,000.00
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date:t31- Dec-2019	ST6011	454	\$3,000.00
S6000 4 PORT ULTRAWAN II MODULE	Intent to Cancel Date:t31- Dec-2019	ST6017B	454	\$3,000.00
S6000 12 PORT T1/E1 II MODULE	Intent to Cancel Date:t31- Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Intent to Cancel Date:t31- Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date:t31- Dec-2019	ST6016	454	\$1,000.00

FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	454	\$500.00
JUNIPER/FIREWALL GATEWAY	Intent to Cancel Date:t01-Nov-2016	T7376	147	\$1,200.00
SSG5 FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSG5 HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00

SRC 7500 Upgrades FRU Kits

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00
MNR GGSN SOFTWARE UPGRADE	Provides media required to upgrade a GGSN to the latest system release (A7.15). One SW Upgrade required for each GGM 8000 or S6000.	ST5102	147	\$500.00
MNR ASTRO/SMARTZONE SOFTWARE UPGRADE	Provides media required to upgrade MNR Routers to the latest system release (A7.15). One SW Upgrade required for each GGM 8000, S6000 or S2500. - GGSN software NOT INCLUDED, it must be ordered separately.	ST5100	147	\$500.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	CKN6906A	FRU: FIBER CABLE	454	5
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1857	HP X311 REDUNDANT POWER SUPPLY	454	11
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
FIXEDSTN	SCB	CLN8356	SRC SPARE KIT	147	7
FIXEDSTN	SCB	CLN8489	48 PORT TERMINAL SERVER	147	11
PARTS	SCB	CLN8490A	FRU: MINI GBIC (J4858B)	454	23
FIXEDSTN	SCB	CLN8874	SSG5 FIREWALL WITH HA DATA LICENSE KEY	147	14
FIXEDSTN	SCB	CLN8875	SSG5 HA DATA LICENSE KEY	147	14
PARTS	CDP	DKN6129B	ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	454	9
PARTS	CDP	DKN6144A	ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	454	4
FIXEDSTN	SCB	SQM01SUM0294	SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	147	2
FIXEDSTN	SCB	ST5100	MNR ASTRO/SMARTZONE SOFTWARE UPGRADE	147	1

FIXEDSTN	SCB	ST5102	MNR GGSN SOFTWARE UPGRADE	147	20
FIXEDSTN	SHB	ST5140A	HP PROCURVE OS UPGRADE	147	5
FIXEDSTN	SCB	ST6000	S6000 MNR MULTI-PROTOCOL ROUTER	147	55
FIXEDSTN	SCG	ST6011	S6000 4-PORT FLEXWAN MODULE	454	9
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6017B	S6000 4 PORT ULTRAWAN II MODULE	454	9
FIXEDSTN	SCB	ST6018	S6000 12 PORT T1/E1 II MODULE	454	9
FIXEDSTN	SCB	ST6202	SRC 24 PORT T1/E1EXP II	147	27
FIXEDSTN	SCB	T7336	LX TERMINAL SERVER SW UPGRADE	147	3
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20
FIXEDSTN	SCB	T7380	CO-OP WAN ROUTER RELAY PANEL	147	24
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7413	JUNIPER FIREWALL RECOVERY MEDIA	877	3
FIXEDSTN	SCB	T8125	FORTINET HIGH TIER FIREWALL APPLIANCE	147	20
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY MEDIA	147	32
FIXEDSTN	SCB	TYN4008	FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	454	5



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JUMP TO ...

MODEL

ORDERING INFORMATION

CONFIGURATION

SHIP CARD

Model

Switching and Routing Center (SRC 7500)
ASTRO 25 7.17
Expansions and Upgrades

Ordering Information

SRC 7500 ALL M-CORE CONFIGURATIONS

Please refer to the current [SRC 7500 A7.17 Expansions Ordering Guide](#) and [SRC 7500 A7.17 Upgrades Ordering Guide](#) for detailed ordering instructions

Refer to K-Core & L-Core price pages to expand/upgrade Networking Transport equipment.

Configuration

SRC 7500 Expansions and Upgrades Main Model (Mandatory)

Order the model below to expand or upgrade an existing SRC 7500.

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00

SRC 7500 EXPANSION CONFIGURATIONS

SRC 7500 System Release Expansions (Mandatory)

These options will ensure the appropriate licenses are generated for the options ordered applicable to a system release.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.17	SRC 7500 M-Core Gateway Expansion	CA03130AA	147	\$0.00

SRC 7500 M-Core Gateway Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M-Core Ethernet Core Router Expansion

The number of Core routers allowed per zone varies per system release, refer to the ordering guide for more details.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00

SRC 7500 M-Core CWR Core Router Expansion

The number of Core routers allowed per zone varies per system release, refer to the ordering guide for more details.

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER CWR	Intent to Cancel Date:t31-Dec-2019	CA01422AA	147	\$40,000.00
ADD: QTY 1 PAIR CORE ROUTERS CWR	SRC 7500 M-Core Ethernet Interzone Router Expansion Intent to Cancel Date:t31-Dec-2019	CA01346AA	147	\$70,000.00

SRC 7500 M-Core Ethernet Interzone Router Expansion

Available for M1 and M3 only. A combined Core-Exit Router available in Ethernet only, may be ordered to consolidate the number of Routers in the SRC.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core CWR Interzone Router Expansion

Available for M1 and M3 only.

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date:t31-Dec-2019	CA02653AA	147	\$40,000.00
ADD: INTERZONE CAPABILITY CWR	SRC 7500 M-Core High Availability Data Expansion Intent to Cancel Date:t31-Dec-2019	CA01358AA	147	\$70,000.00

SRC 7500 M-Core High Availability Data Expansion

A7.16 & A7.17 systems ship with a GGSN and a VPN/Firewall standard in each SRC 7500. High Availability Data requires a second GGSN and a second firewall.

Description	Full Description	Nomenclature	APC	Price

ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)

These options add encryption and/or FIPS to new GGM 8000s only. Refer to the FRU section to order the appropriate S6000 options. Order one option for each new GGM 8000 router in SRC, i.e. If adding one Core router (ethernet) and one GGSN, order 2 CA02087AA, if FIPS is also required then include 2 CA02134AA as well. Refer to the FRU section to order encryption for existing routers. It is not recommended to add FIPS 140 Level 2 encryption certification to existing routers, a new router must be order with both options below if the encryption certificate must be current.

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M3 Zone Core Protection (ZCP) bundle Expansion

This option contains 2 firewalls with ZCP licenses and 2 mediation switches required for each zone. If IDS is needed, order one additional switch CLN1856A as a separate line item.

Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	SRC 7500 M-Core Backhaul Switch Expansion	CA03129AA	147	\$19,500.00

SRC 7500 M-Core Backhaul Switch Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$2,250.00

SRC 7500 M-Core Fiber Connectivity Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTY BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTY BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00

SRC 7500 UPGRADE CONFIGURATIONS

SRC 7500 System Release (Mandatory)

These options will ensure the appropriate licenses are generated for the options ordered applicable to a system release.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 7.17 UPGRADE	SRC 7500 M-Core Gateway License	CA03226AA	358	\$1,400.00

SRC 7500 M-Core Gateway License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Core Router License

Order one upgrade option for each Core router in an SRC 7500. This option is applicable to upgrade GGM 8000 and S6000 routers.

Please note: Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Interzone Router License

Order one upgrade option for each Exit router in an SRC 7500. This option is applicable to upgrade GGM 8000 and S6000 routers. Available for M1 and M3 only.

Please note" Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 EXIT ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00

SRC 7500 M-Core GGSN License

Order one upgrade option for each GGSN in an SRC 7500.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00

SRC 7500 M-Core Site Router License

Order one upgrade option for each site routers in a zone. This option is applicable to upgrade S2500 and GGM 8000 routers.

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00

SRC 7500 M-Core Ethernet Switch License

Order one upgrade option per zone to upgrade HP Ethernet switches (including HP Backhaul

switches purchased through Motorola).

Description	Full Description	Nomenclature	APC	Price
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00

SRC 7500 M-Core Additional Media CDs

If additional Router, GGSN, Ethernet Switch or Firewall media CDs are required due to equipment installed in multiple locations or other reason, order the additional quantity needed (CA03226AA is required on the order).

Description	Full Description	Nomenclature	APC	Price
MNR SOFTWARE UPGRADE 7.17	-	CA03227AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA03231AA	358	\$50.00

SRC 7500 Expansions FRU Kits

Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
SRC 24 PORT T1/E1EXP II	Intent to Cancel Date:t31-Dec-2019	ST6202	147	\$75,000.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00

FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date:t31-Dec-2019	T7380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.00
SRC SPARE KIT	Intent to Cancel Date:t31-Dec-2019	CLN8356	147	\$40,000.00
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date:t31-Dec-2019	ST6011	454	\$3,000.00
S6000 4 PORT ULTRAWAN II MODULE	Intent to Cancel Date:t31-Dec-2019	ST6017B	454	\$3,000.00
S6000 12 PORT T1/E1 II MODULE	Intent to Cancel Date:t31-Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Intent to Cancel Date:t31-Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date:t31-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	454	\$500.00
JUNIPER/FIREWALL GATEWAY	Intent to Cancel Date:t01-Nov-2016	T7376	147	\$1,200.00
SSG5 FIREWALL WITH HA	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00

DATA LICENSE KEY				
SSG5 HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00

SRC 7500 Upgrades FRU Kits

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	CKN6906A	FRU: FIBER CABLE	454	5
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1856	2620-24 ETHERNET SWITCH	454	22
FIXEDSTN	SCB	CLN1857	HP X311 REDUNDANT POWER SUPPLY	454	11
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
FIXEDSTN	SCB	CLN8356	SRC SPARE KIT	147	7

FIXEDSTN	SCB	CLN8489	48 PORT TERMINAL SERVER	147	11
PARTS	SCB	CLN8490A	FRU: MINI GBIC (J4858B)	454	23
FIXEDSTN	SCB	CLN8874	SSG5 FIREWALL WITH HA DATA LICENSE KEY	147	14
FIXEDSTN	SCB	CLN8875	SSG5 HA DATA LICENSE KEY	147	14
PARTS	CDP	DKN6129B	ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	454	9
PARTS	CDP	DKN6144A	ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	454	4
FIXEDSTN	SCB	SQM01SUM0294	SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	147	2
FIXEDSTN	SHB	ST5140A	HP PROCURVE OS UPGRADE	147	5
FIXEDSTN	SCB	ST6000	S6000 MNR MULTI-PROTOCOL ROUTER	147	55
FIXEDSTN	SCG	ST6011	S6000 4-PORT FLEXWAN MODULE	454	9
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6017B	S6000 4 PORT ULTRAWAN II MODULE	454	9
FIXEDSTN	SCB	ST6018	S6000 12 PORT T1/E1 II MODULE	454	9
FIXEDSTN	SCB	ST6202	SRC 24 PORT T1/E1EXP II	147	27
FIXEDSTN	SCB	T7336	LX TERMINAL SERVER SW UPGRADE	147	3
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20

FIXEDSTN	SCB	T7380	CO-OP WAN ROUTER RELAY PANEL	147	24
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4
FIXEDSTN	SCB	T7413	JUNIPER FIREWALL RECOVERY MEDIA	877	3
FIXEDSTN	SCB	T8125	FORTINET HIGH TIER FIREWALL APPLIANCE	147	20
CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
CNTLPATH	SCB	T8128	FORTINET FIREWALL RECOVERY MEDIA	147	32
FIXEDSTN	SCB	TYN4008	FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	454	5

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Model

Switching and Routing Center (SRC 7500)

ASTRO 25 7.17 (Updated for A7.17.2) New Systems

Configuration

SRC 7500 ALL M-CORE CONFIGURATIONS

Please refer to the current SRC 7500 Ordering Guide for detailed ordering instructions - [SRC 7500 7.17.2 Ordering Guide](#)

Refer to K-Core & L-Core price pages to order Networking Transport equipment.

SRC 7500 Main Model (Mandatory)

Hardware required for Integrated Data will ship standard (GGSN, Border Gateway, and CEN Switch)

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER (7.13 AND BEYOND)	-	SQM01SUM0238	147	\$1,200.00

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.17.2	-	CA03332AA	147	\$0.00

SRC 7500 M1 CONFIGURATIONS

SRC 7500 M1 Core LAN Switch Option (Mandatory)

CA03323AA includes one 48 Ethernet port core LAN switch, one GGSN, one Border Router, one CEN Switch, one 16 port terminal server, and one VPN/Firewall. CA03328AA includes two 48 Ethernet port core LAN switches, one 16 port terminal server, and one VPN/Firewall.

Description	Full Description	Nomenclature	APC	Price

ADD: SINGLE CORE LAN SWITCH	-	CA03323AA	147	\$14,300.00
ADD: SRC FOR M1 ADDITIONAL CORE CAPACITY	-	CA03328AA	147	\$22,400.00

SRC 7500 M1 Gateway Router Option (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M1 Core Router Option (Ethernet)

One Core Router Option is mandatory (Ethernet or CWR.) Systems may support up to four core Routers per location with added capacity and there may be a mix of CWR or Ethernet (Non-DSR Only).

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: THREE SINGLE CORE ROUTERS ETHERNET	-	CA02862AA	147	\$62,100.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00

SRC 7500 M1 Core Router Option (CWR)

One Core Router Option is mandatory (Ethernet or CWR.) Systems may support up to four core Routers per location and there may be a mix of CWR or Ethernet (Non-DSR Only)

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER CWR	Provides a core router & relay panel for use in systems with T1/E1 or FT1/FE1 site links Intent to Cancel Date: 31-Dec-2019	CA01422AA	147	\$40,000.00
ADD: TWO CORE ROUTERS CWR (1 PAIR)	Intent to Cancel Date: 31-Dec-2019	CA02859AA	147	\$80,000.00
ADD: THREE CORE ROUTERS CWR	Intent to Cancel Date: 31-Dec-2019	CA02860AA	147	\$120,000.00
ADD: FOUR CORE ROUTERS CWR (2 PAIR)	Intent to Cancel Date: 31-Dec-2019	CA02861AA	147	\$160,000.00

SRC 7500 M1 Interzone Options (Required for DSR)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date: 31-Dec-2019	CA02653AA	147	\$40,000.00

SRC 7500 M1 Encryption/FIPS (GGM 8000 Only)

These options add encryption and/or FIPS to GGM 8000s only. Refer to the FRU section to order the appropriate S6000 options. Order one option for each GGM 8000 router in SRC, i.e. If SRC contains one Core router (Ethernet), one Gateway, and one GGSN, order 3 CA02087AA, if FIPS is also required, then include 3 CA02134AA as well. All routers must have encryption including GGSN when choosing this option. If FIPS 140-2 Level 2 encryption is required, both options must be ordered.

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Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Note: Please make sure to count the GGSN and Border routers that come with the options above to order the correct quantity of encryption on the routers.

SRC 7500 M1 Core Backhaul Switch Option

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH FOR M1	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network.	CA03333AA	147	\$2,500.00

SRC 7500 M1 Fiber Connectivity Option

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00

SRC 7500 M2 CONFIGURATION

SRC 7500 M2 Core LAN Switch Option (Mandatory)

CA03322AA includes two 48 Ethernet port core LAN switches, one GGSN, one Border Router, one CEN Switch, one 16 port terminal server, and one VPN/Firewall. CA03329AA includes two 48 Ethernet port core LAN switches, one 48 port terminal server, and one VPN/Firewall.

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL CORE LAN SWITCHES	-	CA03322AA	147	\$22,300.00

ADD: SRC FOR M2 ADDITIONAL CORE CAPACITY	-	CA03329AA	147	\$25,600.00
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SRC 7500 M2 Gateway Router (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.00

SRC 7500 M2 Core Router Option (Ethernet)

One Core Router Option is mandatory (Ethernet or CWR). Systems may support up to eight core Routers per location with added capacity and they may be a mix of CWR or Ethernet (Non-DSR Only).

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.00
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not	CA01353AA	147	\$165,600.00

	support the use of T1/E1 or FT1/FE1 site links.			
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SRC 7500 M2 Core Router Option (CWR)

One Core Router Option is mandatory (Ethernet or CWR). Systems may support up to eight core Routers per location with added capacity and they may be a mix of CWR or Ethernet (Non-DSR Only).

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS CWR	Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01346AA	147	\$70,000.00
ADD: QTY 2 PAIRS CORE ROUTERS CWR	Provides two redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01347AA	147	\$140,000.00
ADD: QTY 3 PAIRS CORE ROUTERS CWR	Provides three redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01348AA	147	\$210,000.00
ADD: QTY 4 PAIRS CORE ROUTERS CWR	Provides four redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01349AA	147	\$280,000.00

SRC 7500 M2 Dual T1/E1 or FT1/FE1 Site Links Option

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
	Adds dual T1/E1 or FT1/FE1 site			

ADD: DUAL LINK 2 PAIRS CWR	link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00
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SRC 7500 M2 High Availability Data Option

The GGSN and VPN/Firewall are included standard for the primary and backup SRC 7500. High Availability Data requires a second GGSN and a second firewall. Both options must be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M2 Encryption Option (GGM 8000 Only)

These options add encryption and/or FIPS to GGM 8000s only. Refer to the FRU section to order the appropriate S6000 options. Order one option for each GGM 8000 router in SRC, i.e. If SRC contains two Core routers (Ethernet), two Gateways, and one GGSN, order 5 CA02087AA; if FIPS is also required, then include 5 CA02134AA as well. All routers must have encryption including GGSN when choosing this option. If FIPS 140-2 Level 2 encryption is required both options must be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Note: Please make sure to count the GGSN and Border routers that come with the options above to order the correct quantity of encryption on the routers.

SRC 7500 M2 Core Backhaul Switch Option

This option provides a pair of redundant backhaul switches.

Description	Full Description	Nomenclature	APC	Price
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ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00
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SRC 7500 M2 Fiber Connectivity Options

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00

SRC 7500 M3 CONFIGURATION

SRC 7500 M3 Mounting Options (Mandatory)

SRC's for M3's must choose one mounting option.

Description	Full Description	Nomenclature	APC	Price
ADD: MOUNT SRC IN 7.5FT OPEN RACK	-	CA02873AA	147	\$495.00
ADD: MOUNT SRC IN 42 RU CABINET	-	CA02874AA	147	\$3,000.00

SRC 7500 M3 Core LAN Switch Options (Mandatory)

CA03324AA includes two 48 Ethernet port core LAN switches, one GGSN, one Border Router, one CEN Switch, one 48 port terminal server, and one VPN/Firewall. CA03325AA includes three 48 Ethernet port core LAN switches, one 48 port terminal server, and one VPN/Firewall.

DSR: Include the same option for the primary and backup SRC 7500

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH TIER CORE LAN SWITCHES (96 PORTS)	-	CA03324AA	147	\$24,100.00
ADD: HIGH TIER CORE LAN SWITCHES (144 PORTS)	-	CA03325AA	147	\$29,100.00

SRC 7500 M3 Gateway Router Option (Mandatory)

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Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.00

SRC 7500 M3 Core Router Options (Ethernet)

At least one Core Router Option is mandatory (Ethernet or CWR.) Systems may support up to eight core Routers per location with added capacity and they may be a mix of CWR or Ethernet (Non-DSR Only)

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.00
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01353AA	147	\$165,600.00

SRC 7500 M3 Core Router Options (CWR)

At least one Core Router Option is mandatory (Ethernet or CWR.) Systems may support up to eight core Routers per location with added capacity and they may be a mix of CWR or Ethernet

(Non-DSR Only)

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS CWR	Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01346AA	147	\$70,000.00
ADD: QTY 2 PAIRS CORE ROUTERS CWR	Provides two redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01347AA	147	\$140,000.00
ADD: QTY 3 PAIRS CORE ROUTERS CWR	Provides three redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01348AA	147	\$210,000.00
ADD: QTY 4 PAIRS CORE ROUTERS CWR	Provides four redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01349AA	147	\$280,000.00

SRC 7500 M3 Dual T1/E1 or FT1/FE1 Site Links Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
ADD: DUAL LINK 2 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00
ADD: DUAL LINK 3 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to	CA01356AA	147	\$22,500.00

	Cancel Date: 31-Dec-2019			
ADD: DUAL LINK 4 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01357AA	147	\$30,000.00

SRC 7500 M3 Interzone Options (Required for DSR)

A combined Core-Exit Router may be ordered to consolidate the number of Routers in the SRC. Multizone may have a different Interzone Connectivity option in each zone.

Description	Full Description	Nomenclature	APC	Price
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	-	CA02867AA	147	\$66,420.00
ADD: INTERZONE CAPABILITY CWR	Provides router gear for Interzone connectivity via T1/E1 Intent to Cancel Date: 31-Dec-2019	CA01358AA	147	\$70,000.00

SRC 7500 M3 High Availability Data Option

The GGSN and VPN/Firewall are included standard for the primary and backup SRC 7500. High Availability Data requires a second GGSN and a second firewall. Both options must be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M3 Encryption/FIPS Options (GGM 8000 Only)

These options add encryption and/or FIPS to GGM 8000s only. Refer to the FRU section to order the appropriate S6000 options. Order one option for each GGM 8000 router in SRC, i.e. If

SRC contains two Core routers (Ethernet), two Gateways, and one GGSN, order 5 CA02087AA; if FIPS is also required then include 5 CA02134AA as well. All routers must have encryption including GGSN when choosing this option. If FIPS 140-2 Level 2 encryption is required both options must be ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

Note: Please make sure to count the GGSN and Border routers that come with the options above to order the correct quantity of encryption on the routers.

SRC 7500 M3 Zone Core Protection (ZCP) bundle

This option contains 2 firewalls with ZCP licenses, 2 mediation switches required for each zone, and 2 DAC cables.. If IDS is needed, order one additional switch CLN1856A, and 2 more DAC cables (CLN1866A) as a separate line item.

Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	-	CA03129AA	147	\$19,500.00

SRC 7500 M3 Core Backhaul Switch Option

This option provides a pair of redundant backhaul switches.

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00

SRC 7500 M3 Fiber Connectivity Options

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2	Provides fiber connectivity for two core LAN switches;			

SWITCHES	replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTY BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00

FRU Kits

Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date: 31-Dec-2019	T7380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
JUNIPER/FIREWALL GATEWAY	(For A7.13/A7.14 M1/M2 Firewall. Use DDN9590 for M3) Intent to Cancel Date: 31-Dec-2019	T7376	147	\$1,200.00
SSG5 FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00

SSG5 HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00
SRC SPARE KIT	Intent to Cancel Date: 31-Dec-2019	CLN8356	147	\$40,000.00
S6000 4 PORT ULTRAWAN II MODULE	For ASTRO 7.6 or later systems releases; Order one per each S6000. (Replaces ST6010) Intent to Cancel Date: 31-Dec-2019	ST6017B	454	\$3,000.00
SRC 24 PORT T1/E1EXP II	For 7.6 and later systems utilizes new EOS and ST6017 and ST6018 modules, replaces the ST6201 Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links, including one relay panel and four cables. This kit is also used as the Simulcast Subsite Access Routers deployed at the Prime site within an IP Simulcast Subsystem. Intent to Cancel Date: 31-Dec-2019	ST6202	147	\$75,000.00
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date: 31-Dec-2019	ST6011	454	\$3,000.00
S6000 4-PORT ULTRAWAN MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6010	454	\$3,000.00
S6000 12 PORT T1/E1 MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6015	147	\$9,000.00
S6000 12 PORT T1/E1 II MODULE	For ASTRO 7.6 and later system releases; this replaces ST6015 module Intent to Cancel Date: 31-Dec-2019	ST6018	454	\$9,000.00

S6000 MNR MULTI-PROTOCOL ROUTER	Base MNR S6000 unit is a stand alone router with three ethernet ports, single power supply, 1 console port, and two I/O module slots. Intent to Cancel Date: 31-Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date: 31-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	454	\$500.00

Software & Services

Software

Please refer to the current SRC 7500 Upgrades Ordering Guide for detailed ordering instructions-[SRC 7500 7.17.2 Upgrades Ordering Guide](#)

Refer to K-Core & L-Core price pages to upgrade Networking Transport equipment.

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	CLN1857	HP X311 REDUNDANT POWER SUPPLY	454	11
FIXEDSTN	SCB	CLN1858	3800-48 ETHERNET SWITCH	454	11
CNTLPATH	SCB	CLN1866	FRU: 1M DAC CABLE	147	23
CNTLPATH	SCB	CLN1868	2930F 24-PORT SWITCH	147	18

FIXEDSTN	SCB	CLN8356	SRC SPARE KIT	147	7
FIXEDSTN	SCB	CLN8489	48 PORT TERMINAL SERVER	147	11
FIXEDSTN	SCB	CLN8874	SSG5 FIREWALL WITH HA DATA LICENSE KEY	147	14
FIXEDSTN	SCB	CLN8875	SSG5 HA DATA LICENSE KEY	147	14
PARTS	CDP	DKN6129B	ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	454	9
PARTS	CDP	DKN6144A	ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	454	4
FIXEDSTN	SCB	SQM01SUM0238	SRC7500 SWITCHING ROUTING CENTER (7.13 AND BEYOND)	147	9
FIXEDSTN	SCB	ST6000	S6000 MNR MULTI-PROTOCOL ROUTER	147	55
FIXEDSTN	SCG	ST6010	S6000 4-PORT ULTRAWAN MODULE	454	20
FIXEDSTN	SCG	ST6011	S6000 4-PORT FLEXWAN MODULE	454	9
FIXEDSTN	SCB	ST6015	S6000 12 PORT T1/E1 MODULE	147	70
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6016	S6000 ENCRYPTION MODULE	454	38
FIXEDSTN	SCB	ST6017B	S6000 4 PORT ULTRAWAN II MODULE	454	9
FIXEDSTN	SCB	ST6018	S6000 12 PORT T1/E1 II MODULE	454	9
FIXEDSTN	SCB	ST6202	SRC 24 PORT T1/E1EXP II	147	27
FIXEDSTN	SCB	T7376	JUNIPER/FIREWALL GATEWAY	147	20
FIXEDSTN	SCB	T7380	CO-OP WAN ROUTER RELAY PANEL	147	24
FIXEDSTN	SCB	T7385	TERMINAL SERVER	147	4

CNTLPATH	SCB	T8126	FORTINET FIREWALL APPLIANCE	147	8
FIXEDSTN	SCB	TYN4008	FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	454	5

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Model



SRX™ 2200 P25 Portable Radio Series

P25 Phase 2 Single Band Capable Radio

Updates

Announcements

Effective March, 2018:

- **PMNN4547 IMPRES 2 LIION 3100 MAH** will be available as an option, **QA07577**, on the SRX 2200. This battery is slightly larger and will require a new holster, **PMLN7901**. This holster is now the standard carry holster for the Models 2.5 and Models 3.5 and will fit all of the current batteries in the portfolio. The legacy holster, **PMLN5709** is no longer available
- Battery option **QA05574**, which provided for **NNTN8930**, will no longer be available.
- The new standard 7/800 MHz whip antenna on the SRX 2200 will be **PMAF4040** instead of **NAF5085**. **PMAF4040** is has a slightly thinner and more flexible form factor. **PMAF4040** supports GPS operation.
- High Cap Battery **NNTN8921 (QA05575 & QA06304)** has been replaced by **NNTN4753 (QA07576 & QA07739)**

Ordering Information

Standard Features

All SRX 2200 models include the following features:

- Mission Critical Wireless Bluetooth® 4.0 (LE) (QA00583)
- ADP Privacy - Single Key
- Software Key (QA01749)
- 3 Programmable Side Buttons
- Orange Programmable Button
- 16 Position Mode Rotary Select Switch
- Angled On/Off Volume Knob
- 1 Top Mounted Programmable 3 Position Toggle Switch
- Top Display: 1 line of text, 1 line of icons, 0 menu lines
- Dual Microphone
- 3 Watt Rated Audio (Requires QA09006 to enable)
- Carry Holder (Models 2.5 & 3.5)
- Coyote Brown Delta-T, Saltwater Battery (NNTN8182)
- Single-Band Antenna (dependent on model/frequency selected)
- Models 2.5 & 3.5:
 - Unified Call List
 - Front Color Display: 4 Lines of Text, 2 Lines of Icons
 - Radio Profiles
 - 3 Programmable Buttons
 - 4-Way Navigation
 - Home & Data Buttons
- Model 3.5: 4 X 3 Alpha-Numeric Keypad

Configuration

Models

1: Main Model (*Must Select One*)

Description	Full Description	Nomenclature	APC	Price
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SRX2200 PLUS 7/800 MODEL 3.5 PORTABLE	-	H99UCH9PW7BN	470	\$2,563.00
SRX2200 PLUS 7/800 MODEL 1.5 PORTABLE	-	H99UCD9PW5BN	470	\$2,241.00
SRX2200 PLUS VHF MODEL 1.5 PORTABLE	-	H99KGD9PW5BN	470	\$2,241.00
SRX2200 PLUS VHF MODEL 3.5 PORTABLE	-	H99KGH9PW7BN	470	\$2,563.00
SRX2200 UHFR1 MODEL 1.5 PORTABLE	-	H99QDD9PW5BN	470	\$2,241.00
SRX2200 PLUS UHFR1 MODEL 3.5 PORTABLE	-	H99QDH9PW7BN	470	\$2,563.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00580AG: TMDA Oper., QA00583AH: BlueTooth Oper.)	QA02591	470	\$2,565.00
ENH: SOFTWARE P25 CONVENTIONAL	(Includes H35BX: Conventional Oper., Q806BT: ASTRO Digital CAI Oper., & QA00583AH: BlueTooth Oper.)Requires AES when ordering the Military Package.	QA02593	470	\$1,165.00
	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud			

ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00583AH: BlueTooth Oper.)	QA02592	470	\$2,165.00
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Military Data Package (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Required to order AES encryption when using the Military Package with Conventional operation.	QA02590	470	\$575.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	470	\$200.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$150.00

ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$150.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	470	\$150.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$300.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$150.00
	Adaptive Noise Suppression is available on APX6000/XE and			

ADD: ADAPTIVE NOISE SUPPRESSION	SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000Li models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$150.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$150.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$150.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5	QA01768	470	\$0.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	-	QA01833	470	\$25.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$100.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	470	\$100.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
	The SOFTWARE KEY is the default Advance System Key option that ships standard on all			

ADD: HW KEY SUPPLEMENTAL DATA	APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648AA	0655	\$5.00
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Algorithm Types (Optional)

All APX 8000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ENH: AES ENCRYPTION	Requires digital operation. P25 CAP Compliant option. Includes ADP. Multikey is required for use of more than one key.	Q629	470	\$475.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	470	\$799.00
ENH: DVP-XL ENCRYPTION	Compatible with Digital and Analog (25kHz Only) operations. Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option.	H797	470	\$487.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION	Compatible with Analog 25kHz/DES-OFB Digital 12.5kHz Only. Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	470	\$599.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR (H04). Tactical OTAR (H04) can only be utilized when IV&D (Q947) is purchased.	Q498	470	\$740.00
ENH: MULTIKEY	-	H869	470	\$330.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$150.00

Antenna (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA (NAF5085A)	For SRX2200, deletes standard antenna. NAF5085 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	470	(\$10.00)
ALT: 1/4 WAVE 7/8 STUBBY (NAR6595)	-	H122	470	\$24.00
ALT: UHFR1 GPS STUBBY ANTENNA (FAF5259A)	ALT: UHRF1 GPS STUBBY ANTENNA (FAF5259A)	QA02017	481	\$24.00
ALT: GPS STUBBY ANTENNA (NAG4000A)	GPS Only	QA00785	655	\$18.00

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with (PMNN4573) BATT IMPRES 2 LIION TIA4950 R IP68 4600T	QA07576	673	\$165.00

Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/Li & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$100.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$135.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$115.00
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/Li AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$75.00

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
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ADD: SRX2200 SINGLE UNIT PACKAGING	-	H842	470	\$0.00
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Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$162.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$360.00
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service.	H885BK	185	\$90.00

	<p>Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>			
<p>ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE</p>	<p>Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	<p>HA00022AB</p>	<p>185</p>	<p>\$234.00</p>
<p>ADD: 5Y ESSENTIAL SERVICE</p>	<p>Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.</p>	<p>Q887</p>	<p>185</p>	<p>\$162.00</p>
<p>ADD: 5Y ESSENTIAL SVC CANADA</p>	<p>Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No</p>	<p>HA00049</p>	<p>185</p>	<p>\$222.00</p>

	discounts are allowed on this option.			
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Documentation (*Optional*)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,SRX2200 CD UG & SAFETY	-	H88	470	\$25.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS PRINTOUT	-	H799	470	\$10.00

Software & Services

Wi-Fi

SRX 2200 supports Wi-Fi 802.11 b/g/n with WPA2/WPA (PSK), and WEP security protocols. Wi-Fi can be used with the Radio Management SW in order to do codeplug updates, firmware refreshes, and FLASHport upgrades over a Wireless Network (WLAN). The radio will only connect to available Wi-Fi networks which have been pre-provisioned in the radio codeplug via CPS. The radio can be pre-provisioned with up to 20 SSIDs.

The Wi-Fi feature requires ordering option QA09001. The Wi-Fi feature is also available aftermarket as a FLASHport upgrade if not ordered out of the factory.

Radio Management (RM) is required in order to take advantage of the Wi-Fi capabilities on SRX 2200.

Out of the Box WiFi Provisioning

If a radio is ordered the Wi-Fi option (QA09001) and the customer wishes to provision the radios out of the box using Wi-Fi, the radio must also be ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option

will come with the following default codeplug configuration relative to Wi-Fi:

- a. Wi-Fi will be enabled.
- b. There will be one pre-configured network with the Network SSID set to “MyNetwork” and security type will be set to “None”.
- c. The default state of Wi-Fi will be “on”.

A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to “MyNetwork” (case sensitive) with no password enabled.

For more details regarding the Out of the Box Wi-Fi Provisioning process, please refer to the [Out of the Box Wi-Fi Provisioning Leaflet](#)

Bluetooth 4.0 & Emergency Find Me

With Bluetooth 4.0 wireless technology and our APX™ Mission Critical Wireless portfolio, users can now connect a variety of Bluetooth audio accessories and data devices with their APX™ radio.

Bluetooth 4.0 also enables Emergency Find Me, a feature providing personnel with an added level of security by improving response time in emergencies. Once an emergency is activated on the APX 6000, a Bluetooth beacon signals other Bluetooth-enabled APX radios within range. Based on bluetooth signal strength, nearby APX radios will receive an emergency alert via intelligent lighting and a text message with users Radio ID along with signal strength status (excellent, poor, fair) to determine proximity, and will guide the nearest personnel to the user in distress.

Self-Quieting Spurs

7/800 Frequencies	VHF Frequencies	UHF R1 Frequencies
768	136.8	384
775.2	144	396.8
866.4	153.6	403.2
	156	410.4
	160	422.4
	164.515	438.68
	168	441.6
	172.8	443.52

		444.8
		448
		456
		460.8
		469.12

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	H99KGD9PW5BN	SRX2200 PLUS VHF MODEL 1.5 PORTABLE	470	2
PORTABLES	FSC	H99KGH9PW7BN	SRX2200 PLUS VHF MODEL 3.5 PORTABLE	470	2
PORTABLES	FSC	H99QDD9PW5BN	SRX2200 UHFR1 MODEL 1.5 PORTABLE	470	31
PORTABLES	FSC	H99QDH9PW7BN	SRX2200 PLUS UHFR1 MODEL 3.5 PORTABLE	470	70
PORTABLES	FSC	H99UCD9PW5BN	SRX2200 PLUS 7/800 MODEL 1.5 PORTABLE	470	15
PORTABLES	FSC	H99UCH9PW7BN	SRX2200 PLUS 7/800 MODEL 3.5 PORTABLE	470	23
APX_PORTABLE	US1	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	0655	

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JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model



ASTRO® Digital SRX 2200
FLASHport® Aftermarket Upgrades
Secure and Trunked Radio Systems

Ordering Information

GENERAL INFORMATION

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital SRX 2200 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

There is a new way to upgrade radios in the field. The current method, which makes use of the FLASHport USB dongle, will be supported, but for those looking for a more convenient way, the new online method supported in Radio Management (RM) offers the following advantages:

- **Reduce wait time by retrieving the order electronically, rather than via the FLASHport USB dongle**
- **Work more efficiently by using RM to automatically filter for those radios to which the upgrade order can be applied**
- **Work in parallel because you are no longer limited by the number of physical FLASHort USB dongles you have**

NOTE: Radio Management must be deployed to manage your fleet of APX radios before you can use the online FLASHport method in Radio Management to upgrade radios. For more information on Radio Management please refer to the [ASTRO Radio Management](#) page.

Ordering Requirements

1. **Specify** the current System Enhancement Software Package that represents the software in the radio as the main line item (T7985A, T8013A, T7989A)
2. If you choose to use Radio Management to perform the upgrade, enter the online delivery method (UA00083AA) as a sub-item, quantity of 1 only. No selection is needed if using the traditional USB dongle.
3. **Select** the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.
4. **IMPORTANT:** If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
5. **ALL** sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
6. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.
7. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using a USB cable.

	T7985A	T8013A	T7989A
	DIGITAL CONVENTIONAL	9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	TDMA®
OPERATION MODES (List as sub items)			
ENH: DIGITAL CONVENTIONAL TO P25 TRUNKING W/ INTEROP	X	N/A	N/A
ENH: DIGITAL CONVENTIONAL TO TDMA	X	N/A	N/A
ENH: P25 TRUNKING WITH INTEROP TO TDMA	N/A	X	N/A
SYSTEM ENHANCEMENT			

SOFTWARE			
ENH: MILITARY DATA PACKAGE	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)			
ENH: Conventional Vote Scan Q387	X	X	X
ENCRYPTION ENHANCEMENT OPTIONS (List as sub items)			
ADD: Multikey Operation H869	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the SRX 2200 price page.

A Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital SRX 2200 radios.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL	-	T7985	430	\$0.00
TDMA	-	T7989	430	\$0.00
9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T8013	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO TDMA	-	QA04018AA	430	\$2,024.00

ENH: DIGITAL CONVENTIONAL TO P25 TRUNKING W/ INTEROP	-	QA04019AA	430	\$1,507.00
ENH: P25 TRUNKING WITH INTEROP TO TDMA	-	QA04020AA	430	\$518.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$173.00
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Required to order AES encryption when using the Military Package with Conventional operation.	QA02590AC	430	\$661.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$173.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware	QA09008	430	\$173.00

	Updates with this feature. (Requires Digital.			
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$173.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011AB	430	\$115.00
ENH: WI-FI CAPABILITY FLP	-	QA09001AC	430	\$345.00
ADD: Adaptive Noise Suppression	-	QA09006	430	\$173.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$230.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$115.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX	QA01749AE	430	\$0.00

	Radio operating in trunking.			
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$115.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$86.25
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$28.75
ADD: MANDOWN OPERATION	-	QA01843	426	\$150.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$173.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	430	\$0.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869CC	430	\$380.00

ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$851.00
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UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	0430	\$0.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7985	DIGITAL CONVENTIONAL	430	15
PORTABLES	SCB	T7989	TDMA	430	15
PORTABLES	SCB	T8013	9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	430	15
ASTRO_SUBS_SOFTWARE	US1	UA00083AA	ADD: SOFTWARE LICENSE ONLINE DELIVERY	0430	

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Standard Definitions for Service Products


1.0 Definitions

These defined terms might not apply to every Statement of Work. Capitalized terms below and not otherwise defined within the Statement of Work, or in the Communications System Agreement or other applicable agreement (collectively, "Agreement") have the following meanings:

- 1.1 **Box Unit Test:** Unit is tested in a fixture that simulates the functions for which it was designed, engineered, or manufactured to insure that it meets manufacturer specifications.
- 1.2 **Case:** Electronic tracking document for requests for service through the Motorola System Support Center.
- 1.3 **Case Status:** Identifier of the status of a Case from beginning to end.
- 1.4 **Component(s):** Motorola new or refurbished parts of equal quality.
- 1.5 **Configuration Change Support:** A change in a user-defined parameter, which may include a change in the placement of a dispatch console talkgroup window. Fleetmapping is not included in Configuration Change Support.
- 1.6 **Connectivity:** Establishment of remote access to the System via dial up or fixed dedicated links.
- 1.7 **Continuously/Continuous:** Seven (7) days per week, twenty-four (24) hours a day, including holidays.
- 1.8 **Customer:** The end-user Customer as identified in the Agreement.
- 1.9 **Customer Support Plan:** A document mutually developed by Motorola and the Customer that provides information about the Customer and the System and describes the specific processes by which Motorola will deliver and the Customer will receive the services described in this Statement of Work.
- 1.10 **Elements:** Those device types present on the Customer's System whose status may be communicated to the SSC.
- 1.11 **Equipment:** The equipment specified in the Equipment List as set forth in the Agreement, including any additions to the Equipment List during the Warranty Period.
- 1.12 **Enhanced System Support (ESS) Period:** The 12 month period commencing at the start of the Warranty Period for Equipment and Software as defined by the Agreement.
- 1.13 **Event:** An alarm or informational notification received by Motorola through the Network Management tools.
- 1.14 **Feature:** A Software functionality.

- 1.15 Federal Technical Center: A Motorola facility, the purpose which serves as Motorola's centralized location for radio repair for United States Federal Government Customers.
- 1.16 Firmware: Software in object code form that is implanted or embedded in hardware.
- 1.17 FRU: Field Replaceable Unit, typically a board or module, contained within the Infrastructure.
- 1.18 Infrastructure: The fixed Equipment excluding mobiles, portables, and accessories.
- 1.19 Infrastructure Depot Operations (IDO): A Motorola facility which serves as Motorola's centralized location for infrastructure repair.
- 1.20 Loaner: Infrastructure that is owned by Motorola and serves as a temporary replacement while the Customer's Infrastructure is being repaired.
- 1.21 Maintenance: The process for determining the cause of Equipment failure, removing, repairing, or replacing Components necessary to conform the Equipment with the manufacturer's specifications along with system-specific specifications, delivering and reinstalling the Components, and placing the Equipment back into operation.
- 1.22 MCNS: Mission Critical Network Services.
- 1.23 Motorola Software: Software whose copyright is owned by Motorola or its affiliated company.
- 1.24 Non-Motorola Software: Software whose copyright is owned by a party other than Motorola or its affiliated company.
- 1.25 Notification: The point in time when the Customer contacts Motorola and requests service.
- 1.26 Optional Feature: An additional Feature issued with a System Release that is available to Customer at additional cost.
- 1.27 Radio Support Center (RSC): A Motorola facility which serves as Motorola's centralized location for radio repair.
- 1.28 Response: The event when a technician, a remote systems technologist or a remote network specialist begins actively to work on the technical issue, remotely or on-site, as determined by Motorola.
- 1.29 Restore/Restoration/Restoral: The effort required to bring Equipment to the level for which it was designed, engineered and adjusted for performance in accordance with the manufacturer's published specifications, although such Equipment may not necessarily be malfunctioning.
- 1.30 Servicer: A Motorola Authorized Service Station or Motorola Field Service personnel.
- 1.31 Severity Level: The degree of adverse impact of an issue or Event.
- 1.32 Software: The software furnished with the System, including any Motorola Software and Non-Motorola Software.

- 1.33 Software License Agreement: The agreement or portion of an agreement pursuant to which Motorola licenses Software to Customer, including System Releases.
- 1.34 Special Product Feature: A Feature that is specially developed for Customer and which contains a functionality that is unique to Customer.
- 1.35 Standard Business Day: Monday through Friday, 8:30 a.m. to 4:30 p.m., local time, excluding Motorola holidays.
- 1.36 Standard Feature: A software functionality for components of Customer's System that is available to Customer in the standard software release.
- 1.37 Start Date: Effective start date as listed on the Agreement.
- 1.38 System: The communications system as defined in the Communications System Agreement or other applicable Agreement.
- 1.39 System Acceptance: Unless otherwise defined in the Communications System Agreement, the date upon which Motorola has successfully completed all of the System Tests as described in the acceptance test plan.
- 1.40 System Support Center (SSC): A Motorola facility which serves as Motorola's centralized system support facility to compliment the field support resources.
- 1.41 System Release: One software version release on a particular platform. ASTRO 25 6.3 example is where 6 is the platform indicator and .3 is software version release indicator.
- 1.42 System Test: Unit is tested in a Motorola manufactured system of similar type from which the unit was designed to test all functionality of the unit to insure that it meets manufacturer specifications.
- 1.43 Systemic: A recurring Software or hardware defect that significantly affects the operation of the System.
- 1.44 Technical Support Operations (TSO): A centralized telephone support help desk that provides technical support for Motorola customers who have purchased products from Motorola (Networks & Enterprise) or who have a contract for technical support services.
- 1.45 Vendor: Any manufacturer (other than Motorola) or third party that services or repairs Infrastructure or subscriber equipment.
- 1.46 Verification: Contacting the appropriate designated person to verify the System is operational (original problem resolved) and closing the Case.
- 1.47 Work-around: A change in the followed procedures or data supplied by Vendor to avoid error without substantially impairing use of the Equipment.
- 1.48 Work Flow: A step-by-step process including instruction or direction for routing, handling, and processing information at a given agency.



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JUMP TO ...

MODEL

CONFIGURATION

Model

Quarterly Standard Technical Implementation Guidelines (STIGs) Update

Quarterly STIGs (Standard Technical Implementation Guidelines) Updates for Microsoft Windows, RedHat Linux (RHEL), and ESXi.

The Defense Information Systems Agency (DISA) creates Information Assurance configuration standards for DOD IT systems and devices. These standards are known as Standard Technical Implementation Guides (STIGs).

Once tested, Motorola will post the updates to a secured extranet website and send an email notification to the customer. If there are any recommended configuration changes, warnings, or workarounds, Motorola will provide detailed documentation along with the updates on the website. Customer will be responsible for the download and deployment of these updates to their ASTRO System.

For more information, contact your Motorola representative.

Ordering Information

Quarterly STIGs Update Service number LSV01S01362A

The Defense Information Systems Agency (DISA) creates Information Assurance configuration standards for DOD IT systems and devices. These standards are known as Standard Technical Implementation Guides (STIGs).

Once tested, Motorola will post the updates to a secured extranet website and send an email notification to the customer. If there are any recommended configuration changes, warnings, or workarounds, Motorola will provide detailed documentation along with the updates on the website. Customer will be responsible for the download and deployment of these updates to their ASTRO System.

For more information, contact your Motorola representative.

Ordering Requirements

Applicable to an ASTRO 7.17.3 system. Complete the Quote Tool for pricing.

Benefits

- DHS/Dod compliance

Statement of Work

Configuration

Pricing is based on system configuration and number of the below devices:

Windows	RHEL	ESXi	Switch	Router (includes CCGW)	RF/VPM/Misc/anything with an IP Address not listed elsewhere
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NOTE: If Edge Availability is used, Edge includes: Qty-1 Windows Domain Controller, Qty-2 RHEL (IPCAP & Zone Controller), Qty-1 ESXi VM Host. Don't forget to add these devices to counts.

NOTE: The GGM8000 box is part of the router count, not the CCGW module. A CCGW counts as a router. A site router with CCGW module would only count as 1 router.

NOTE: Verint Logging solution typically includes a Windows TLR server and a Windows Central Archive Server

NOTE: Verint Logging solution also uses a Windows AIS and a VPM.

JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SHIP CARD](#)

Model

**STR 3000 Base Radio sub-system
FLASHport® Aftermarket Upgrades**

Ordering Information

Ordering Requirements

FLASHport Aftermarket Upgrades are used to upgrade an STR 3000 Base Radio to the latest version of the Astro 25 system software.

800 MHz STR 3000

1. Order the T6759A (STR 3000 Software Migration) as the Main Model
 - This model quantity cannot exceed one. If more than one CD is desired, divide the number of stations being upgraded into several line items.
2. Order the X870AA in the same quantity as the number of base radios being upgraded.
 - Example: You are upgrading 200 radios then you will need to order 200 X870AA.

700 MHz STR 3000

1. Order the T6956A, T6957A or T6958A (STR 3000 Software Migration) as the Main Model.
 - This model quantity cannot exceed one. If more than one CD is desired, divide the number of stations being upgraded into several line items.
2. Order the X870AA in the same quantity as the number of base radios being upgraded.
 - Example: You are upgrading 200 radios then you will need to order 200 X870AA.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
800 MHZ SIMULCAST SW MIGRATION	-	T6759	729	\$0.00

700 MHZ SIMULCAST SW MIGRATION	-	T6956	729	\$0.00
700 MHZ SITE REPEATER SW MIGRATION	-	T6957	729	\$0.00

Options

Software

Description	Full Description	Nomenclature	APC	Price
ENH: STR 3000 LATEST SHIPPING SOFTWARE	-	X870AA	729	\$2,300.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
FIXEDSTN	SCB	T6759	800 MHZ SIMULCAST SW MIGRATION	729	65
NEWPROD	SCB	T6956	700 MHZ SIMULCAST SW MIGRATION	729	20
NEWPROD	SCB	T6957	700 MHZ SITE REPEATER SW MIGRATION	729	20

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



Subscriber Diagnostics Service

Updates

NOTE: No pricing discounts allowed on any of the products or services listed on this site.

If you have any questions please contact [Alex Cordova](#)

Ordering Information

Executive Summary

Keeping existing equipment operating at peak performance is now more critical to help control costs. Motorola Solutions now offers a Subscriber Diagnostics Service to trunked system users. This service provides an over-the-air radio waveform analyzer that monitors frequency performance to determine if individual subscribers are functioning properly and meeting FCC performance requirements. This service proactively identifies problems before they become an issue thus saving time and money associated with subscriber downtime and maintenance.

Features

- Minimizes subscriber downtime by identifying and only taking down subscribers that fail

while leaving functioning subscribers in the field.

- Lower costs as technicians will not waste time checking good subscribers and can focus on the out of spec subscribers.
- Proactively obtain diagnostics that are quick and concise, which will increase operational readiness.

Statement of Work

The customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

[Exhibit C: Statement of Work](#)

Ordering Requirements

Subscriber Diagnostic "Box" Order:

This product must be ordered using an internal Installation Agreement (IA).

[IA Form](#)

The documents below will outline both the Implementation process and the ongoing maintenance order process which begins in year two.

1. [Subscriber Diagnostics Ordering Guide](#)
2. [Subscriber Diagnostics Communications Products Agreement \(CPA\) - includes Exhibit A: "Software License Agreement"](#)
3. [Subscriber Diagnostics Exhibit B: "IA Cost Analysis"](#)
4. [Subscriber Diagnostics Exhibit C: "Statement of Work"](#)

Subscriber Diagnostic "Extended Warranty" Order:

Extended Warranty must be ordered by using the Install Base Template (IB).

[IB Template](#)

Configuration

Description	Full Description	Nomenclature	APC	Price
DiagX Overair Wave Form Analyzer		SVC03SVC0319A	293	\$54,900.00
Single Protocol/Dual Band		SVC03SVC0321A	293	\$57,900.00
Dual Protocol/Sngle Freq Band		SVC03SVC0322A	293	\$69,500.00
Dual Protocol/Dual Freq Band		SVC03SVC0323A	293	\$72,500.00

Subscriber Diag Protocol Upgrade		SVC01SVC0228A	293	\$19,900.00
Subscriber Diag Extended Warranty		SVC01SVC0229A	293	\$4,900.00
Subscriber Diag 3 Yr Ext Serv Plus Prtcl Upgrade		SVC01SVC0214A	293	\$19,000.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0228A	SUBSCBR DIAG PROTOCOL UPGRADE	0293	
HW_MAINTENANCE	US1	SVC01SVC0229A	SUBSCBR DIAG EXTENDED WARRANTY	0293	
HW_MAINTENANCE	US1	SVC01SVC0314A	SUB DIAG 3 YR EXT SERV PLUS PRCL UPGRADE	0293	
SERVICES	SIB	SVC03SVC0319	DIAGX OVERAIR WAVEFORMANALYZER	293	1
SERVICES	SIB	SVC03SVC0321	SINGLE PROTOCOL / DUAL BAND	293	1
SERVICES	SIB	SVC03SVC0322	DUAL PROTOCOL/SINGLE FREQ BAND	293	1
SERVICES	SIB	SVC03SVC0323	DUAL PROTOCOL / DUAL FREQ BAND	293	1

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Support Service Packages

Ordering Information

General

Motorola offers Support Service Packages during customers' warranty period that can help keep their network operational and lower their costs, including monitoring, managing and securing their solutions or obtaining day-to-day technical and repair support. We recognize agency needs vary; therefore, we have designed three Support Service Packages which combine Motorola's primary network services to provide a consistent, integrated support process that will help to protect their communication's investment.

Note: ESS was discontinued August 8th. These materials are to be used as a reference for existing ESS contracts or for customer quotes that included ESS prior to discontinuing.

Benefits

In purchasing a communications system, a sizeable resource investment is required – i.e. people, time and money. Customers who purchase these systems want to ensure they are always available, maximize efficiency and extend the life of their equipment while adhering to an established budget. Some of the specific needs of our customers are:

- Network availability and increased capacity
- Optimized performance
- Timely response
- Consistent support and resolution
- Budgeted repairs
- Replacement units in exchange for malfunctioning units
- Improved security and reliability
- Improved patch compatibility
- Lower total cost of ownership

Statement of Work

Please refer to the corresponding wiki page for the services as applicable to the desired Support Service Package (Bronze, Silver or Gold).

Ordering Requirements

1. This product must be ordered using the Services Lifecycle (SLC) contract system. Please contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system.
3. Enter the main line item as quantity one.
4. Options are required as sub-items, with the quantity equal to the option description.
5. All dollar amounts reflect an annual one year pricing.
6. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
HW_MAINTENANCE	US1	SVC01SVC0208A	ONSITE PREMIER RESPONSE WARRANTY UPLIFT	0882	

HW_MAINTENANCE	US1	SVC01SVC0209A	ASTRO INFRA REPAIR W/ADV REPL WARR UPLIFT	0929	
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JUMP TO ...

MODEL

ORDERING
INFORMATION

CONFIGURATION

SHIP CARD

Model

SURGE PROTECTION DEVICES (SPDs)

Ordering Information

General Information

All surge protection devices are R56 compliant. Please refer to the [3rd Party Drop Ship Wiki](#) for vendor information and more specific product detail.

For more information on Transtector products, please see the [Transtector web-site](#).

For more information on Raycap products, please see the [Raycap web-site](#).

For more information on Liebert products, please see the [Liebert web-site](#).

Configuration

Models

Type 1 SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 2A, 120/240VAC 1-PHASE NEMA 4X ENCLOSURE, SAD/MOV	Robust, modular, 160 kA per phase, high surge current capacity, AC panel surge protection with visual and remote status indication in an outdoor enclosure.	DSAPEXIMAX808	207	\$2,266.00
SPD, TYPE 2A, 120/208VAC, 3 PHASE NEMA 4X ENCLOSURE, SAD/MOV	Robust, modular, 160 kA per phase, high surge current capacity, AC panel surge protection with visual and remote status indication in an	DSAPEXIMAX809	207	\$2,678.00

	outdoor enclosure.			
SPD, TYPE 1, SAD/MOV, 120/240 VAC 1-PHASE	-	DS570SA16FNRJ1S	207	\$2,320.00
SPD, TYPE 1, SAD/MOV, 120/208 VAC 3-PHASE	-	DS570YA16FNRJ1S	207	\$2,930.00
SPD, TYPE 1A HYBRID, SAD/MOV, 277/480 VAC 3- PHASE	-	DS570YC16FNRJ1S	207	\$2,930.00
SPD, TYPE 1, 120/240VAC 1- PH (MNT BELOW PANEL)	-	DSB82XPRBP	207	\$2,598.00
SPD, TYPE 1, 120/240VAC 1- PH (MNT ABOVE PANEL)	-	DSBT2XPRAP	207	\$2,598.00
SPD, TYPE 1, 208/120VAC 3- PH (MNT ABOVE PANEL)	-	DSBT4XPRAP	207	\$3,398.00

Type 2 SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 2B, 120/240VAC, 1-PHASE, NEMA 4X ENCLOSURE, MOV	Robust, modular, 160 kA per phase, high surge current capacity, AC panel surge protection with visual and remote status indication in an outdoor enclosure.	DSAPEXIMAX808MM	207	\$1,339.00
SPD, TYPE 2B, 120/208VAC, 3-PHASE, NEMA 4X ENCLOSURE, MOV	Robust, modular, 160 kA per phase, high surge current capacity, AC panel surge protection with visual and remote status indication in an outdoor enclosure.	DSAPEXIMAX809MM	207	\$1,926.00
SPD, TYPE 2, MOV, 120/240 VAC 1-PHASE	-	DS560SA16FNRJ1S	207	\$1,740.00

SPD, TYPE 2, MOV, 120/208VAC 3-PHASE	-	DS560YA16FNRJ1S	207	\$2,100.00
SPD, TYPE 2, MOV, 277/480 VAC 3-PHASE	-	DS560YC16FNRJ1S	207	\$2,100.00
SPD, TYPE 2, 120/240VAC 1-PH (MNT BELOW PANEL)	-	DSB82XRRBP	207	\$1,475.00
SPD, TYPE 2, 208/120VAC 3-PH (MNT BELOW PANEL)	-	DSB84XRRBP	207	\$1,900.00
SPD, TYPE 2, 120/240VAC 1-PH (MNT ABOVE PANEL)	-	DSBT2XRRAP	207	\$1,475.00
SPD, TYPE 2, 208/120VAC 3-PH (MNT ABOVE PANEL)	-	DSBT4XRRAP	207	\$1,892.00

Type 3 120V Hard Wire SPDs

Description	Full Description	Nomenclature	APC	Price
PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	19 in. Rack Mountable, 120V, Eight (8) individually protected NEMA 5-15 outlets, 15A (Fused), silicon diode surge protector	DSOP820B	207	\$938.00

Type 3 120V Plug-In SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 3, 120VAC, 15A PLUG-IN WITH 15A SIMPLEX OUTLET	One (1) single 120V Nema 5-15 recepticle, 15A (Fused), silicon diode surge protector	DSSL120	207	\$117.00
SPD, TYPE 3, 120V RACK MOUNT, 20A TWIST LOCK DUAL FEED INPUT W/4 PER	1 U -19 in. rack-mount, 120 VAC -Eight (8) 20 A receptacles, (2) 5-20L Twist Lock Plugs/Cords, N + 1 , silicon diode surge protection	DS1400	207	\$1,000.00

SPD, TYPE 3, 120V RACK MOUNT, 20A STD PLUG-IN INPUT W/ 4 OUTLETS PER	1 U -19 in. rack-mount, 120 VAC - Eight (8) 20 A receptacles, (2) 5-20 Plugs/Cords, N + 1 , silicon diode surge protection.	DSRMP420B	207	\$1,007.00
SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS	1 U -19 in. rack-mount, 120 VAC - Six (6) 15 A receptacles (1) 5-15 Plugs/Cords, N + 1 , silicon diode surge protection.	DSRMP615A	207	\$258.00

Data and Telephony SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, RJ-11 CONNECTED FOR DIAL-UP, POTS, FAX, MODEM LINES	Telephone, modem and data surge protection, RJ 11	DSCP2278	207	\$85.00
SPD, SHIELDED RJ-45 JACK, SINGLE LINE GBE (1000MBPS) R56 COMPLIANT	Shielded RJ45 Jack, suitable for Site Link, Compact data line, GbE and Ethernet, silicon diode technology	DS1101990	207	\$140.00
SPD, RJ-45 OR HARDWIRE CONNECTED FOR T1/E1, PROTECTS 4 WIRES	RJ 45 and terminals for hard wired connections, T1/E1, silicon diode protection	DSTSJ48CLT	207	\$121.00
PROTECTION MODULE, OPERATOR STATIC EME PROTECTOR W/ DB15 MF CONNECTOR	Headset Protector, MCC 5500-7500, grounding	DSVPR3MCC	207	\$183.00
SPD, HPD GPS DATA LINE, 48VDC, HARD WIRE WITH ISOLATED GROUNDING	Metal Outdoor Enclosure, IP 67, 2 data lines protected 12 V plus 1 DC Line 31V 1 line 48 V, Iso Ground	DSIX2L1M1DC48IG	207	\$247.00

SPD, PUNCH DOWN FOR M66 BLOCK, PAIR PROTECTION 40V FOR ALARM CIRCUITS	Punchdown block module, 45 VMCOV data, signaling, alarms, silicon diode protection	DSPBM6607	207	\$65.00
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Data and Telephony Rack Mount SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, RJ-45 CONN (16) LINE 10/100BT ETHERNET 11VPL PINS (1,2) & (3,6)	19 in. Rack, 16 port, fully populated RJ 45, 10/100 BT, silicon diode protection	DSCPX1101984	207	\$1,152.00
SPD, RJ-45 CONNECTED (16) LINE GIGE ETHERNET, 11VPL ON ALL PINS	19 in. Rack, 16 port, fully populated RJ 45, GbE, silicon diode protection	DSCPX1101985	207	\$1,627.00
SPD, RJ-45 CONNECTED (16) LINE T1/E1, 11VPL ON PINS (1,2) & (4,5)	19 in. Rack, 16 port, fully populated RJ 45, T1/E1, silicon diode protection	DSCPX1101986	207	\$1,118.00

Adapter Plates

Description	Full Description	Nomenclature	APC	Price
RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	19 in. Rack mount adapter plate	DS1101378	207	\$62.00
RACK MT ADAPTER PLATE, 19 IN SCH FOR DSOP820B, DSOP820B2 & DSNSOP820B	19 in. Rack mount adapter plate for Schroff Cabinets	DS11013781	207	\$73.00
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	Accommodates six (6) TSJ and WPH series, ground terminal attaches directly to ground bar	DSTSJADP	207	\$85.00

International Hard Wire Applications

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Description	Full Description	Nomenclature	APC	Price
PDU, 240V HW (8) IEC 320 OUTLET PDU W/TYPE 3 SAD PROTECTION	19 in. Rack Mountable, 220-240V, Eight (8) individually protected IEC 320-C 14 outlets, 15A (Fused), silicon diode surge protector	DSOP820B2	207	\$1,479.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
PDU, 120/240 SPLIT PH OR N+1 REDUNDANT, 60A MAX PER PHASE, SIX DEDICAT	AC EDGE II, 19 in. or 23 in. Rack Mount Power Distribution Unit. 120/240 V, to 60 A per side, six (6)-5-15 receptacles, dedicated breakers for outlet and dedicated silicon protection each side	DS11011188	207	\$2,790.00
BREAKER, 5 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	5 A Circuit Breaker for AC Edge II, Bullet Terminals, rocker style, removable, upgradeable	DS3750295	207	\$64.00
BREAKER, 10 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	10 A Circuit Breaker for AC Edge II, Bullet Terminals, rocker style, removable, upgradeable	DS3750296	207	\$64.00
BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	15 A Circuit Breaker for AC Edge II, Bullet Terminals, rocker style, removable, upgradeable	DS3750297	207	\$62.00

RF SPDs and Filters

Description	Full Description	Nomenclature	APC	Price
	Hybrid DC Pass Protector; bulkhead			

RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG	or bracket mounting; N-Type Female-Female; 2.176Mhz Telemetry Capable, Max continuous current 4A; IP67 Rated	DS1090501WA	207	\$168.00
RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NM ANTENNA, NF EQUIPMENT SIDE	DC Block Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Male; High RF Power (VHF 500W); non- weatherized	DSISB50HNC2MA	207	\$96.00
RF SPD, 125-1000MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	DC Block Lightning Arrestor; bracket (flange) mounting; N-Type Female- Male; non- weatherized	DSIS50NXC2MA	207	\$73.00
RF SPD, 698-2700MHZ DC BLOCK HI PWR, DIN FEM/FEM BI-DIR W/ BRACKET	DC Short SX Filter Lightning Arrestor: bulkhead mount with mounting hardware; 7/16 in. DIN Female- Female; IP67 Rated	DSTSXDFFBF	207	\$142.00
RF SPD, 1.5-700MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	Hybrid DC Pass Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Male; Max continuous current 4A; IP67 Rated	DSIS50NXC0MA	207	\$80.00
RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	DC Block Lightning Arrestor; bulkhead or bracket mounting; 7/16 in. DIN Female- Memale; High RF Power (750W); IP67 Rated	DSVHF50DMAPGR	207	\$166.00

RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN FEMALE/FEMALE BI- DIRECTIONA	DC Short SX Filter Lightning Arrestor: bulkhead mount with mounting hardware; 7/16 in. DIN Female- Female; IP67 Rated	DSTUSXDFF	207	\$161.00
RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NF ANTENNA, NF EQUIPMENT SIDE	DC Block Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Female; High RF Power (VHF 500W); non- weatherized	DSISB50HNC2	207	\$96.00
RF SPD, 400-1200MHZ HYBRID +36 VDC PASS NM ANTENNA, NF EQUIPMENT	Hybrid DC Pass Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Male; Max continuous current 4A; IP67 Rated	DSCGXZ36NMNFA	207	\$127.00
RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP	DC Block Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Male; non- weatherized	DSISB50LNC2MA	207	\$84.00
RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN MALE/FEMALE BI-DIRECTIONAL	DC Short SX Filter Lightning Arrestor: bulkhead mount with mounting hardware; 7/16 in. DIN Female-Male; IP67 Rated	DSTUSXDFM	207	\$161.00
RF SPD, 698 MHZ-2.7 GHZ, 60VDC PASS, DIN, MALE/FEM PIM/PIP RATED, ASIG	DC Pass SX Filter Lightning Arrestor: bulkhead mount with mounting hardware; 7/16 in. DIN Female-Male; Max continuous current 6A; IP67 Rated	DSTSXDCEM	207	\$166.00

RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, DIN FEM/MALE BI-DIR W/ BRACKET	DC Short SX Filter Lightning Arrestor: bulkhead mount with mounting hardware; 7/16 in. DIN Female-Male; IP67 Rated	DSTSXD FMBF	207	\$130.00
RF SPD, 2-6GHZ DC BLOCK FILTER 10W, NF ANTENNA SIDE, NF EQUIPMENT SIDE	DC Short SX Filter Lightning Arrestor: bulkhead mounting: N-Type Female-Female; IP67 Rated	DSALLSXM	207	\$62.00
RF SPD, 700-1000MHZ BROADBAND 12 VDC PASS NF ANT, NF EQUIP PIP, ASIG	Hybrid DC Pass Lightning Arrestor; bulkhead or bracket mounting; N-Type Female-Female; Max continuous current 4A;P67 Rated	DS1090501WD	207	\$158.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TNS	DS1090501WA	RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG	207	65
QUOTEDS	TNS	DS1090501WD	RF SPD, 700-1000MHZ BROADBAND 12 VDC PASS NF ANT, NF EQUIP PIP, ASIG	207	21
QUOTEDS	TNS	DS1101188	PDU, 120/240 SPLIT PH OR N+1 REDUNDANT, 60A MAX PER PHASE, SIX DEDICAT	207	40

QUOTEDS	TNS	DS1101378	RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	207	15
QUOTEDS	TNS	DS11013781	RACK MT ADAPTER PLATE, 19 IN SCH FOR DSOP820B, DSOP820B2 & DSNSOP820B	207	16
QUOTEDS	TNS	DS1101990	SPD, SHIELDED RJ-45 JACK, SINGLE LINE GBE (1000MBPS) R56 COMPLIANT	207	56
QUOTEDS	TNS	DS1400	SPD, TYPE 3, 120V RACK MOUNT, 20A TWIST LOCK DUAL FEED INPUT W/4 PER	207	27
QUOTEDS	TNS	DS3750295	BREAKER, 5 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	207	21
QUOTEDS	TNS	DS3750296	BREAKER, 10 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	207	21
QUOTEDS	TNS	DS3750297	BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	207	30
QUOTEDS	CLU	DS560SA16FNRJ1S	SPD, TYPE 2, MOV, 120/240 VAC 1-PHASE	207	15
QUOTEDS	CLU	DS560YA16FNRJ1S	SPD, TYPE 2, MOV, 120/208VAC 3-PHASE	207	10
QUOTEDS	CLU	DS560YC16FNRJ1S	SPD, TYPE 2, MOV, 277/480 VAC 3-PHASE	207	15
QUOTEDS	CLU	DS570SA16FNRJ1S	SPD, TYPE 1, SAD/MOV, 120/240 VAC 1-PHASE	207	15
QUOTEDS	CLU	DS570YA16FNRJ1S	SPD, TYPE 1, SAD/MOV, 120/208 VAC 3-PHASE	207	10
QUOTEDS	CLU	DS570YC16FNRJ1S	SPD, TYPE 1A HYBRID, SAD/MOV, 277/480 VAC 3-PHASE	207	18

QUOTEDS	TNS	DSALLSXM	RF SPD, 2-6GHZ DC BLOCK FILTER 10W, NF ANTENNA SIDE, NF EQUIPMENT SIDE	207	20
QUOTEDS	TNS	DSAPEXIMAX808	SPD, TYPE 2A, 120/240VAC 1- PHASE NEMA 4X ENCLOSURE, SAD/MOV	207	2
QUOTEDS	TNS	DSAPEXIMAX808MM	SPD, TYPE 2B, 120/240VAC, 1- PHASE, NEMA 4X ENCLOSURE, MOV	207	5
QUOTEDS	TNS	DSAPEXIMAX809	SPD, TYPE 2A, 120/208VAC, 3 PHASE NEMA 4X ENCLOSURE, SAD/MOV	207	40
QUOTEDS	TNS	DSAPEXIMAX809MM	SPD, TYPE 2B, 120/208VAC, 3- PHASE, NEMA 4X ENCLOSURE, MOV	207	4
QUOTEDS	ACA	DSB82XPRBP	SPD, TYPE 1, 120/240VAC 1-PH (MNT BELOW PANEL)	207	6
QUOTEDS	ACA	DSB82XRRBP	SPD, TYPE 2, 120/240VAC 1-PH (MNT BELOW PANEL)	207	6
QUOTEDS	ACA	DSB84XRRBP	SPD, TYPE 2, 208/120VAC 3-PH (MNT BELOW PANEL)	207	10
QUOTEDS	ACA	DSBT2XPRAP	SPD, TYPE 1, 120/240VAC 1-PH (MNT ABOVE PANEL)	207	8
QUOTEDS	ACA	DSBT2XRRAP	SPD, TYPE 2, 120/240VAC 1-PH (MNT ABOVE PANEL)	207	20
QUOTEDS	ACA	DSBT4XPRAP	SPD, TYPE 1, 208/120VAC 3-PH (MNT ABOVE PANEL)	207	13
QUOTEDS	ACA	DSBT4XRRAP	SPD, TYPE 2, 208/120VAC 3-PH (MNT ABOVE PANEL)	207	15
QUOTEDS	TNS	DSCGXZ36NMFA	RF SPD, 400-1200MHZ HYBRID +36 VDC PASS NM ANTENNA, NF EQUIPMENT	207	21

QUOTEDS	TNS	DSCP2278	SPD, RJ-11 CONNECTED FOR DIAL-UP, POTS, FAX, MODEM LINES	207	15
QUOTEDS	TNS	DSCPX1101984	SPD, RJ-45 CONN (16) LINE 10/100BT ETHERNET 11VPL PINS (1,2) & (3,6)	207	2
QUOTEDS	TNS	DSCPX1101985	SPD, RJ-45 CONNECTED (16) LINE GIGE ETHERNET, 11VPL ON ALL PINS	207	1
QUOTEDS	TNS	DSCPX1101986	SPD, RJ-45 CONNECTED (16) LINE T1/E1, 11VPL ON PINS (1,2) & (4,5)	207	5
QUOTEDS	TNS	DSIS50NXC0MA	RF SPD, 1.5-700MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	207	21
QUOTEDS	TNS	DSIS50NXC2MA	RF SPD, 125-1000MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	207	15
QUOTEDS	TNS	DSISB50HNC2	RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NF ANTENNA, NF EQUIPMENT SIDE	207	15
QUOTEDS	TNS	DSISB50HNC2MA	RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NM ANTENNA, NF EQUIPMENT SIDE	207	16
QUOTEDS	TNS	DSISB50LNC2	RF SPD, 10-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NF ANT, NF EQUIP	207	15
QUOTEDS	TNS	DSISB50LNC2MA	RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP	207	49
QUOTEDS	TNS	DSIX2L1M1DC48IG	SPD, HPD GPS DATA LINE, 48VDC, HARD WIRE WITH ISOLATED GROUNDING	207	98
QUOTEDS	TNS	DSOP820B	PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	207	56

QUOTEDS	TNS	DSOP820B2	PDU, 240V HW (8) IEC 320 OUTLET PDU W/TYPE 3 SAD PROTECTION	207	15
QUOTEDS	TNS	DSPBM6607	SPD, PUNCH DOWN FOR M66 BLOCK, PAIR PROTECTION 40V FOR ALARM CIRCUITS	207	15
QUOTEDS	TNS	DSRMP420B	SPD, TYPE 3, 120V RACK MOUNT, 20A STD PLUG-IN INPUT W/ 4 OUTLETS PER	207	95
QUOTEDS	TNS	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5- 15 OUTLETS	207	40
QUOTEDS	TNS	DSSL120	SPD, TYPE 3, 120VAC, 15A PLUG- IN WITH 15A SIMPLEX OUTLET	207	30
QUOTEDS	TNS	DSTSJ48CLT	SPD, RJ-45 OR HARDWIRE CONNECTED FOR T1/E1, PROTECTS 4 WIRES	207	18
QUOTEDS	TNS	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	207	56
QUOTEDS	TNS	DSTSXDCDFM	RF SPD, 698 MHZ-2.7 GHZ, 60VDC PASS, DIN, MALE/FEM PIM/PIP RATED, ASIG	207	21
QUOTEDS	TNS	DSTSXDFFBF	RF SPD, 698-2700MHZ DC BLOCK HI PWR, DIN FEM/FEM BI-DIR W/ BRACKET	207	15
QUOTEDS	TNS	DSTSXDFFMBF	RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, DIN FEM/MALE BI-DIR W/ BRACKET	207	56
QUOTEDS	TNS	DSTUSXDFF	RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN FEMALE/FEMALE BI-DIRECTIONA	207	20
QUOTEDS	TNS	DSTUSXDFFM	RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN MALE/FEMALE BI-	207	21

			DIRECTIONAL		
QUOTEDS	TNS	DSVHF50DMAPGR	RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	207	56
QUOTEDS	TNS	DSVPR3MCC	PROTECTION MODULE, OPERATOR STATIC EME PROTECTOR W/ DB15 MF CONNECTOR	207	20
QUOTEDS	TNS	DSWPH01	SPD, HARDWIRE 4-WIRE FOR RS232, RS-485, DC BALANCED PAIRS (12V)	207	15

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

System Manager

Ordering Information

Executive Summary

- Your Motorola System Manager is dedicated to your network and coordinates all aspects related to the support, monitoring, and maintenance of your network, from day-to-day routine upkeep of the system to managing quick response for emergency service calls, coordinating additional technical support and following up on repairs. System Managers can assist with database management, oversee the implementation of system upgrades, and coordinate user training.
- Interfacing with your user groups and conducting regular meetings to review system performance are routine parts of the job. The review includes a portfolio of reports that System Managers create from raw system data that will help you make informed daily operational and critical planning decisions relative to future network expansion and technology migration.

Features

A dedicated System Manager plays a key role in maintaining your system, enabling you to focus on your organization's goals, reduce the customer's investment risk, and shifts accountability of system performance to Motorola. Just some of the benefits of an on-site Motorola System Manager include:

- **Single point of contact:** Responsible for total, end-to-end network support
- **Rapid restoration:** Direct access to all Motorola support teams to resolve complex network issues
- **Reduced risk:** Significantly reduced Mean Time to Repair
- **Increased network availability:** Monitored compliance to Service Level Agreement
- **Reduced inventory costs:** Accurate, up-to-date asset inventory management
- **Leveraged system capability:** Providing expertise in feature operation and implementation
- **Tailored skill sets:** Specifically to meet individual customer needs and requirements

Statement of Work

One of the primary business objectives of the North American Group (NAG) is to promote the sales of STANDARD service products. Standards help to ensure consistent and profitable delivery of our service products to our customers. To that end, the customer Statement of Work for this Standard Service Product **CANNOT** be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

System Manager **SOW** and Addendum:

Ordering Requirements

1. This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service Manager (TSM) or Customer Support Manager (CSM) if you are interested in ordering this product.
2. Options for this product are based on the component parts of the complete system. Pricing is based on the number of sites
3. Enter the main line item as quantity one.
4. Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.
5. Committed System Manager, Level I may not be discounted.
6. Committed System Manager, Level I is for customers who have 0 to 2 remote sites.
7. Committed System Manager, Level II is for customers who have 3 or more remote sites.
8. Shared System Manager is for any customer who would like to obtain the services of a Shared System Manager, regardless of the number of remote sites.
9. The pricing listed on this page is applicable to services being performed only in the 48 continental states in the United States. Pricing for customers in Hawaii, Alaska, or international customers may contain an additional SP equating to add additional funds for international travel needs, higher cost of goods, etc...

Configuration

Description	Nomenclature	APC	Price
System Manager	SVC01SVC0131A	390	\$0.00
Committed System Manager Level II			\$285,000.00
Description	Nomenclature	APC	Price
Shared System Manager	SVC01SVC0132A	390	\$0.00
Shared System Manager			\$285,000.00

Description	Nomenclature	APC	Price
Committed System Manager Level I	SVC01SVC0133A	390	\$0.00
Committed System Manager Level I			\$150,221.00

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JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

Technical Support Service

Ordering Information

General Information

Motorola centralized Technical Support service provides an additional layer of support through centralized, telephone consultation for technical issues that require a high level of communications network expertise and troubleshooting capabilities. Technical Support is delivered by the Motorola System Support Center (SSC) and staffed with trained, skilled technologists specializing in the diagnosis and swift resolution of network performance issues. With access to a solutions database, as well as access to in house test labs and Motorola development engineers, Technical Support helps solve even the most challenging network issues. Support is just a phone call away and ensures that any network issue is professionally and consistently handled in the shortest possible timeframe. Continuously monitored against stringent inbound call management and case management standards recognized as industry best-in-class, Technical Support service translates into measurable, customer-specific metrics for assured network performance and system availability.

Features

- Remote Diagnostic & Troubleshooting
- Laboratory Simulation of System Issues
- Access to Motorola Technical Expertise
- 24 Hour/365 Day Service Availability

Statement of Work

The customer Statement of Work for this Standard Service Product *CANNOT* be modified. All requests for modifications to STANDARD service products or the development of "custom" service products should be routed through the Solutions Planning process. Your first point of contact for these requests is your local Area Service Manager.

Statement of Work

Technical Support [SOW](#)

Ordering and Contractual Documents

Initial Purchase & Ongoing Maintenance Orders use model **SVC01SVC1104**

This product cannot be ordered directly through COF at this time. This product must be ordered using the Service Lifecycle Application. Please contact your local Territory Service

Lead (TSL), Customer Support Manager (CSM) or System Manager (SM) if you are interested in ordering this product. For a listing of TSLs, CSMs and SMs [click here](#).

1. Technical Support can be supported and configured **only** on a complete system basis. Please include all sites when quoting a system for Technical Support. Technical Support cannot be ordered on standalone components or selected sites. Options for this product are based on the component parts of the complete system. Pricing is based on the size and complexity of the customer's system configuration such as the type of system, number of sites and number of base stations. **To ensure accurate pricing, orders will not be processed or accepted if they do not include all system components.**
2. Enter the main line item as quantity one.
3. Options are required as sub-items, with the quantity equal to the option description.
4. All dollar amounts reflect an annual one year pricing.
5. A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

Description	Nomenclature	APC	Price
ASTRO System Technical Support	SVC01SVC1104C	0772	
ASTRO25 K-Core	K1 Master Site		\$2,427.70
	K2 Master Site		\$2,427.70
	Prime Site		\$2,427.70
	Remote Site		\$364.10
	Dispatch Site		\$728.20
ASTRO25 L-Core	L1 Master Site		\$7,283.10
	L2 Master Site		\$7,283.10

	Prime Site		\$3,213.10
	Remote Site		\$364.10
	Dispatch Site		\$728.20
	ISSI Network Gateway		\$8,169.70
	SmartX Site Converter		\$264.00
ASTRO25 M-Core	M1 Master Site		\$16,995.00
	M2 Master Site		\$16,995.00
	M3 Master Site (First Zone)		\$16,995.00
	M3 Master Site (Add'l Zones)		\$16,995.00
	DSR Site		\$4,855.40
	Prime Site		\$7,502.00
	Remote Site		\$364.10
	Dispatch Site		\$728.20
	ISSI Network Gateway		\$8,169.70
	SmartX Site Converter		\$264.00



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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

Test Equipment Rental Service

Ordering Information

General Information

Test Equipment Rental rents Motorola manufacturing test equipment for short or long-term periods. For more information, please review the [Solution Resource Guide](#).

Test Equipment Rental is covered in the Technical Services brochure (RC-110-2000) available through [Literature Distribution Center \(LDC\)](#).

Features

- Rental assistance on an emergency basis within 24 hours of request
- Technical assistance if needed
- Unique test equipment available as needed

Ordering Requirements

- This product requires an authorized quotation from the service delivery organization. Contact your local Area Service Manager (ASM) or Customer Support Manager (CSM) for more details.
- **This product CANNOT be ordered directly through COF at this time.** This product must be ordered using the Services Pricing Configurator. Please contact your local ASM or CSM if you are interested in ordering this product. For a listing of ASMs/CSMs [click here](#).
- A Customer Support Plan must be created to provide detailed information to the customer regarding delivery of this service.

Configuration

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SERVICES	SSSC	SVC01SVC1501	TEST EQUIPMENT RENTAL SERVICE	964	15

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JUMP TO ...

[GENERAL INFORMATION](#)

[SHIP CARD](#)

General Information

Towers

Motorola competitively bids every tower quote with two suppliers to obtain the best cost. Additional suppliers are currently being evaluated.

What Influences the Price of a Tower:

- Tower Height
- Wind Speed
- Soil Type
- Foundation
- Importance Factors: Rating the hazard to human life or property level
- Exposure Factors: Location of the tower
- Topographical Factors: Terrain and wind speed
- Antenna/ Dish Loading & position
- Steel price

Preferred Suppliers:

[Valmont](#)

[Sabre](#)

How to obtain a quote

You will need the following information: Tower Type, Tower Height, Antenna, Feed line, & Mount Loading (size, quantity, and location on tower), Site location/Coordinates, any additional customer requirements

Fill out the [Tower Request Form](#) and send to the product planner

Please refer to the [SIO Drop Ship Contact List](#) for product planner contact information.

Representative Part Numbers

PART NUMBER: DQ190S40533003

DESCRIPTION: U22X190FT SELF SUPP TWR W/SOLID STEEL + 2 BEACON FTS370D

APC: 262

MSI LIST PRICE (does not include freight charges): \$109,840.00

PART NUMBER: DQ300S38810306

DESCRIPTION: U28X300FT SELF SUPP TWR + D1CWKITMPSE1AN W/2 BEACON

APC: 262

MSI LIST PRICE (does not include freight charges): \$166,456.00

** THE ABOVE IS REPRESENTATIVE PRICING ONLY. Pricing for specific project requirements will be provided upon request.

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

TOWER TOP AMPLIFIERS 700/800 MHZ

This page contains parts information for MSI preferred vendors including RFI and TXRX.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For technical questions, please contact [Gary Owens](#).

For ordering/pricing questions, please contact the product planner [Tim Martin](#).

For more information on Filtronic products, please see the [Filtronic portal](#) (PW IS MSI2020) or contact Walter Magiera at walter.magiera@filtronic.com (407-399-3630).

For more information on TXRX products, please see the [TXRX portal](#) or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For more information on RFI products, please see the [RFI portal](#) or contact [Sean Johnson](#) at 330-486-0706 x 302.

Note: For every configuration, you must order the correct corresponding part number for the same supplier. Refer to the notes below the part number.

TXRX TTA COMPATIBLITY MATRIX

TXRX has published (8/28/2019) a spreadsheet with a TTA product matrix. This matrix is designed to help guide users to the proper TTA as older models become obsolete. If you have questions, contact the TXRX account manager (details above).

Below is a link to the matrix document.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/TX%20RX%20TTA%20Compatibility%20Matrix%20for%20Customers%2007%2029%2019.pdf

TXRX WHITE PAPER ON TOWER TOP AMPLIFIERS - see link below.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Tower-Top-Amplifier-Advantages-and-Limitations.pdf

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

RFI TTA APPLICATIONS GUIDE

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/RFI%20Tower%20Top%20Amplifiers%20-%20Features%20%26%20Applications.pdf.

In 2020 Motorola has generated new specifications for TTAs and new models from our preferred manufacturers. CURRENTLY, ONLY THE FILTRONIC TTA AND CU MEET OUR NEW SPECIFICATIONS. We are currently evaluating DBSPECTRA, RFI and TXRX new TTAs, CUs and CDUs.

Configuration

FILTRONIC ESS FULLY REDUNDANT TTA

Description	Full Description	Nomenclature	APC	Price
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, N-CONNECTORS	FILTRONIC PART#: SAC001-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSAC001V1P	457	\$5,157.00
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, 4.3-10 CONNECTORS	FILTRONIC PART#: SAC001-V2-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSAC001V2P	457	\$5,157.00
CONTROL UNIT, ESS, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG001-F1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSEG001F1P	457	\$2,815.00
CONTROL UNIT, ESS, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG001-F2-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSEG001F2P	457	\$3,089.00
POWER SUPPLY ADAPTER, 110V AC TO 48V DC, SINGLE OUTPUT	FILTRONIC PART#: PSU-000001-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSPSU000001P	457	\$97.00
TERMINATOR, 50 OHM, BNC	FILTRONIC PART#: CON-000460-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSCON000460P	457	\$6.00
MOUNTING KIT, TTA, SINGLE UNIT	FILTRONIC PART#: KIT-000044-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSKIT000044P	457	\$70.00
MOUNTING KIT, TTA, DUAL, N-TYPE CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSKIT000045V1P	457	\$350.00
MOUNTING KIT, TTA, DUAL, 4.3-10 CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V2-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSKIT000045V2P	457	\$350.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG001-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG001P	457	\$8,519.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG002-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG002P	457	\$8,149.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG003-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG003P	457	\$16,877.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG004-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG004P	457	\$16,137.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG005-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG005P	457	\$8,326.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG006-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG006P	457	\$8,052.00

700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY, -48	FILTRONI PART#: SGG007-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG007P	457	\$16,491.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONI PART#: SGG008-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG008P	457	\$15,944.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONI PART#: SGG009-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG009P	457	\$8,519.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONI PART#: SGG010-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG010P	457	\$7,942.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG011-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG011P	457	\$16,877.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG012-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG012P	457	\$16,137.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG013-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG013P	457	\$8,326.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG014-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG014P	457	\$8,052.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG015-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG015P	457	\$16,491.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG016-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_ESS-US_Rev2-2020-04.pdf	DSSGG016P	457	\$15,944.00

RFI TTA01 Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI PART#: RX6996-3001-36-48N SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/TTA01-RMC03-Product-Brief-r01.pdf	DSRX699630013648N	457	\$2,989.00
RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI PART#: RX6996-3001-36-ACN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/TTA01-RMC03-Product-Brief-r01.pdf	DSRX6996300136ACN	457	\$3,119.00
RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI PART#: RX6996-3416-34-ACB SPEC SHEET LINK: TBD	DSRX6996341634ACB	351	\$5,154.00
RMC01, 8 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI Part#: RX6996-3408-34-48B SPEC SHEET LINK: TBD	DSRX699634083448B	457	\$3,547.00

RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI PART#: RX6996-3408-38-ACB SPEC SHEET LINK: TBD	DSRX6996340838ACB	457	\$3,676.00
RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI PART#: RX6996-3416-34-48B SPEC SHEET LINK: TBD	DSRX699634163448B	457	\$5,025.00
TTA01, FULLY REDUNDANT AMP, 796-824 MHZ (TTA ONLY)	RFI PART#: TA8990-0100-10-00 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/TTA01-RMC03-Product-Brief-r01.pdf	DSTA798201001000	457	\$3,272.00
BANDPASS FILTER, RX, 6 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 6MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100631N	457	\$1,139.00
MULTICOUPLER EXPANSION, 8 PORT, 66-960 MHZ BNC (F)	RFI PART#: RX0696-3008-31B SPEC SHEET LINK: TBD	DSRX0696300831B	457	\$1,478.00
BANDPASS FILTER, RX, 15 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 15MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101531N	457	\$1,139.00
BANDPASS FILTER, RX, 3 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 3MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100331N	457	\$891.00
BANDPASS FILTER, RX, 18 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 18MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101831N	457	\$1,139.00
BANDPASS FILTER, RX, 10 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 10MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101031N	457	\$1,139.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3001-55-48N	DSRX699630015548N	457	\$5,518.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	RFI PART#: RX6996-3001-55-ACN	DSRX6996300155ACN	457	\$5,665.00
RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3001-57-48N	DSRX699630015748N	457	\$11,072.00

RFI TTA02 Dual Diversity Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
TTA01, FULLY REDUNDANT AMP, 796-824 MHZ (TTA ONLY)	RFI PART#: TA8990-0100-10-00 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/TTA01-RMC03-Product-Brief-r01.pdf	DSTA798201001000	457	\$3,272.00
TTA02 FULLY REDUNDANT DIVERSITY, 796-824 MHZ (TTA'S ONLY)	RFI PART#: TA7982-0200-20-00 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/P-43197-2-TTA02-Series-TTA-System-Product-Brief1.pdf	DSTA798202002000	457	\$7,350.00
RMC04, DUAL 2 PORT CMU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	RFI PART#: RX6996-3001-37-48N SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/P-43197-2-TTA02-Series-TTA-System-Product-Brief1.pdf	DSRX699630013748N	457	\$6,065.00
RMC04, DUAL 2 PORT CMU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	RFI PART#: RX6996-3001-37-ACN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/P-43197-2-TTA02-Series-TTA-System-Product-Brief1.pdf	DSRX6996300137ACN	457	\$6,324.00
RMC02, DUAL 8 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	RFI PART#: RX6996-3408-35-ACB SPEC SHEET LINK: TBD	DSRX6996340835ACB	457	\$7,438.00
	RFI PART#: RX6996-3408-35-48B SPEC SHEET LINK:			

RMC02, DUAL 8 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	TBD	DSRX699634083548B	457	\$7,179.00
RMC02, DUAL 16 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	RFI PART#: RX6996-3416-35-48B SPEC SHEET LINK: TBD	DSRX699634163548B	457	\$10,136.00
RMC02, DUAL 16 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	RFI PART#: RX6996-3416-35-ACB SPEC SHEET LINK: TBD	DSRX6996341635ACB	457	\$10,395.00
BANDPASS FILTER, RX, 3 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 3MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100331N	457	\$891.00
BANDPASS FILTER, RX, 18 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 18MHZ PASSBAND WITHIN 796- 824MHZ RANGE	DSPF7982101831N	457	\$1,139.00
BANDPASS FILTER, RX, 10 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 10MHZ PASSBAND WITHIN 796- 824MHZ RANGE	DSPF7982101031N	457	\$1,139.00
BANDPASS FILTER, RX, 6 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 6MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100631N	457	\$1,139.00
BANDPASS FILTER, RX, 15 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 15MHZ PASSBAND WITHIN 796- 824MHZ RANGE	DSPF7982101531N	457	\$1,139.00
BANDPASS FILTER, RX, 6MHZ BW, RANGE 896-902MHZ	RFI PART#: PF8990-1006-31N	DSPF8990100631N	457	\$1,722.00

RFI TTA03 Non-Redundant Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI PART#: RX6996-3408-38-48B SPEC SHEET LINK: TBD	DSRX699634083848B	457	\$3,547.00
RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI PART#: RX6996-3408-38-ACB SPEC SHEET LINK: TBD	DSRX6996340838ACB	457	\$3,676.00
TTA03, SINGLE HIGH GAIN AMP, 796-824 MHZ (TTA ONLY)	RFI PART#: TA7982-0300-10-00 SPEC SHEET LINK: TBD	DSTA798203001000	351	\$3,272.00
BANDPASS FILTER, RX, 6 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 6MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100631N	457	\$1,139.00
MULTICOUPLER EXPANSION, 8 PORT, 66-960 MHZ BNC (F)	RFI PART#: RX0696-3008-31B SPEC SHEET LINK: TBD	DSRX0696300831B	457	\$1,478.00
RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI PART#: RX6996-3001-36-ACN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/TTA01-RMC03-Product-Brief-r01.pdf	DSRX6996300136ACN	457	\$3,119.00
BANDPASS FILTER, RX, 15 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 15MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101531N	457	\$1,139.00
BANDPASS FILTER, RX, 3 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 3MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982100331N	457	\$891.00
BANDPASS FILTER, RX, 18 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 18MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101831N	457	\$1,139.00
BANDPASS FILTER, RX, 10 MHZ BW, RANGE 796-824 MHZ	MUST SPECIFY 10MHZ PASSBAND WITHIN 796-824MHZ RANGE	DSPF7982101031N	457	\$1,139.00
MULTICOUPLER EXPANSION, 16 PORT, 66-960 MHZ BNC (F)	RFI PART#: RX0696-3016-31B SPEC SHEET LINK: TBD	DSRX0696301631B	457	\$3,792.00

Models

TOWER TOP AMPLIFILERS

TXRX TTA01 Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
CONTROL MONITORING UNIT, NON-DIVERSITY,796-824 MHZ, SNMP, 48 VDC	-	DS428E83I01C48	457	\$2,808.00
FILTER, 798-824 MHZ, BP, BW 15 MHZ	-	DS8983N0115	457	\$1,413.00
EXPANSION KIT 16-32 PORT 792-902 MHZ TTA01	-	DS7583K01	457	\$2,238.00
FILTER, 798-824 MHZ, BP, BW 6 MHZ	-	DS8983N0106	457	\$1,409.00
TTA, NON-DIVERSITY, 796-824 MHZ, REDUNDANT LNA, TEST PORT, BYPASS	-	DS428E83I01T	457	\$5,420.00
MULTICOUPLER UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP, 48 VDC	-	DS428E83I01M48	457	\$4,016.00
MULTICOUPLER UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP, 110 VAC	-	DS428E83I01M110	457	\$3,498.00
FILTER, 798-824 MHZ, BP, BW 3 MHZ	-	DS8983N0103	457	\$1,270.00
CONTROL MONITORING UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP,110 VAC	-	DS428E83I01C110	457	\$2,321.00
EXPANSION KIT 16-48 PORT 792-902 MHZ TTA01	-	DS7583K03	457	\$3,021.00
FILTER, 798-824 MHZ, BP, BW 9 MHZ	-	DS8983N0109	457	\$1,413.00
EXPANSION KIT 16-40 PORT 792-902 MHZ TTA01	-	DS7583K02	457	\$2,795.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01C110	457	\$3,705.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC	TXRX PART#: 432F-83W-01-C-48 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01C48	457	\$4,137.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT,SNMP,	TXRX PART#: 432F-83W-01-M-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01M110	457	\$5,451.00
MULTICOUPLER UNIT, DUAL DIVERSITY,796- 824 MHZ, SNMP, 48VDC	TXRX PART#: 432F-83W-01-M-48 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01M48	457	\$6,477.00
TTA, DUAL DIVERSITY, 794-824MHZ,DUAL DIVERSITY,TOWER BOX,	TXRX PART#: 432F-83W-01-T SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01T	457	\$9,522.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01C110R	457	\$4,398.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC,	TXRX PART#: 432F-83W-01-C-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01C48R	457	\$4,830.00

	https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing			
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01M110R	457	\$6,144.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLINsg6pwn3YrCP4BQ2zThpMYTTYgey/view?usp=sharing	DS432F83W01M48R	457	\$7,167.00

TXRX TTA03 Non-Redundant Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER UNIT, 796-824 MHZ, 48 VDC	The TXRX RMC05 (DS43383I01M48) should be ordered with the TXRX TTA03 (DS43383I01T).	DS43383I01M48	457	\$4,160.00
TTA, MINI SINGLE AMP, 796-824 MHZ, SINGLE NETWORK, TOWER BOX	The TXRX TTA03 (DS43383I01T) should be ordered with the TXRX RMC05 (DS43383I01M110 for 110VAC or DS43383I01M48 for 48VDC)	DS43383I01T	457	\$3,312.00
MULTICOUPLER UNIT, 796-824 MHZ, 110 VAC	The TXRX RMC05 (DS43383I01M110) should be ordered with the TXRX TTA03 (DS43383I01T).	DS43383I01M110	457	\$2,783.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS428E83I01C110	CONTROL MONITORING UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP,110 VAC	457	20
QUOTEDS	TXR	DS428E83I01C48	CONTROL MONITORING UNIT, NON-DIVERSITY,796-824 MHZ, SNMP, 48 VDC	457	20
QUOTEDS	TXR	DS428E83I01M110	MULTICOUPLER UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP, 110 VAC	457	40
QUOTEDS	TXR	DS428E83I01M48	MULTICOUPLER UNIT, NON-DIVERSITY, 796-824 MHZ, SNMP, 48 VDC	457	20
QUOTEDS	TXR	DS428E83I01T	TTA, NON-DIVERSITY, 796-824 MHZ, REDUNDANT LNA, TEST PORT, BYPASS	457	20
QUOTEDS	TXR	DS432F83W01C110	ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	457	30
QUOTEDS	TXR	DS432F83W01C110R	ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	457	30
QUOTEDS	TXR	DS432F83W01C48	ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC	457	40
QUOTEDS	TXR	DS432F83W01C48R	ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC,	457	40
			SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL		

QUOTEDS	TXR	DS432F83W01M110	DIVERSITY, 16PORT, SNMP,	457	40
QUOTEDS	TXR	DS432F83W01M110R	SA DUAL BRANCH MONITORING UNIT, 794-824MHZ, DUAL DIVERSITY, 16PORT	457	40
QUOTEDS	TXR	DS432F83W01M48	MULTICOUPLER UNIT, DUAL DIVERSITY, 796- 824 MHZ, SNMP, 48VDC	457	40
QUOTEDS	TXR	DS432F83W01M48R	SA DUAL BRANCH MONITORING UNIT, 794-824MHZ, DUAL DIVERSITY, 16PORT	457	30
QUOTEDS	TXR	DS432F83W01T	TTA, DUAL DIVERSITY, 794-824MHZ, DUAL DIVERSITY, TOWER BOX,	457	30
QUOTEDS	TXR	DS43383I01M110	MULTICOUPLER UNIT, 796-824 MHZ, 110 VAC	457	20
QUOTEDS	TXR	DS43383I01M48	MULTICOUPLER UNIT, 796-824 MHZ, 48 VDC	457	40
QUOTEDS	TXR	DS43383I01T	TTA, MINI SINGLE AMP, 796-824 MHZ, SINGLE NETWORK, TOWER BOX	457	20
QUOTEDS	TXR	DS7583K01	EXPANSION KIT 16-32 PORT 792-902 MHZ TTA01	457	21
QUOTEDS	TXR	DS7583K02	EXPANSION KIT 16-40 PORT 792-902 MHZ TTA01	457	40
QUOTEDS	TXR	DS7583K03	EXPANSION KIT 16-48 PORT 792-902 MHZ TTA01	457	40
QUOTEDS	TXR	DS7583K04	EXPANSION KIT, 16-32 PORT, 792-902MHZ, DUAL	351	30
QUOTEDS	TXR	DS7583K05	EXPANSION KIT, 16-40 PORT, 792-902MHZ, DUAL	457	30
QUOTEDS	TXR	DS7583K06	EXPANSION KIT, 16-48 PORT, 792-902MHZ, DUAL	457	30
QUOTEDS	TXR	DS8983N0103	FILTER, 798-824 MHZ, BP, BW 3 MHZ	457	20
QUOTEDS	TXR	DS8983N0106	FILTER, 798-824 MHZ, BP, BW 6 MHZ	457	20
QUOTEDS	TXR	DS8983N0109	FILTER, 798-824 MHZ, BP, BW 9 MHZ	457	20
QUOTEDS	TXR	DS8983N0115	FILTER, 798-824 MHZ, BP, BW 15 MHZ	457	20
QUOTEDS	TXR	DS8983N01D03	FILTER, 798-824 MHZ, BP, BW 3 MHZ, DUAL DIVERSITY	351	20
QUOTEDS	TXR	DS8983N01D06	FILTER, 798-824 MHZ, BP, BW 6 MHZ, DUAL DIVERSITY	457	20
QUOTEDS	TXR	DS8983N01D09	FILTER, 798-824 MHZ, BP, BW 9 MHZ, DUAL DIVERSITY	457	20
QUOTEDS	TXR	DS8983N01D15	FILTER, 798-824 MHZ, BP, BW 15 MHZ, DUAL DIVERSITY	457	20
QUOTEDS	FLR	DSCON000460P	TERMINATOR, 50 OHM, BNC	457	20
QUOTEDS	CBN	DSCP00737	TTA03, 806-824 MHZ TTA MUST BE USED W RMC05 PART NUMBERS	457	30
QUOTEDS	CBN	DSCP00743	TTA01 796-824 MHZ TTA MUST BE USED W RMC01 OR RMC03 PART NUMBERS	457	30
QUOTEDS	CBN	DSCP00919	RMC01 796-824 MHZ AC ETH INTERFACE RMC, MUST BE USED W DSCP100743	457	30
QUOTEDS	CBN	DSCP00925	RMC03 796-824 MHZ AC ETH INTERFACE RMC, MUST BE USED W DSCP100743	457	30
QUOTEDS	CBN	DSCP00941	RMC05, 806-824 MHZ, AC ETH INTERFACE RMC, MUST BE USED W DSCP00737	457	30
QUOTEDS	FLR	DSKIT000044P	MOUNTING KIT, TTA, SINGLE UNIT	457	20

QUOTEDS	FLR	DSKIT000045V1P	MOUNTING KIT, TTA, DUAL, N-TYPE CONNCTR, W/TEST PORT POWER SPLITR	457	20
QUOTEDS	FLR	DSKIT000045V2P	MOUNTING KIT, TTA, DUAL, 4.3-10 CONNCTR, W/TEST PORT POWER SPLITR	457	20
QUOTEDS	RFA	DSPF7982100331N	BANDPASS FILTER, RX, 3 MHZ BW, RANGE 796-824 MHZ	457	40
QUOTEDS	RFA	DSPF7982100631N	BANDPASS FILTER, RX, 6 MHZ BW, RANGE 796-824 MHZ	457	30
QUOTEDS	RFA	DSPF7982101031N	BANDPASS FILTER, RX, 10 MHZ BW, RANGE 796-824 MHZ	457	30
QUOTEDS	RFA	DSPF7982101531N	BANDPASS FILTER, RX, 15 MHZ BW, RANGE 796-824 MHZ	457	30
QUOTEDS	RFA	DSPF7982101831N	BANDPASS FILTER, RX, 18 MHZ BW, RANGE 796-824 MHZ	457	30
QUOTEDS	RFA	DSPF8990100631N	BANDPASS FILTER, RX, 6MHZ BW, RANGE 896-902MHZ	457	40
QUOTEDS	FLR	DSPSU000001P	POWER SUPPLY ADAPTER, 110V AC TO 48V DC, SINGLE OUTPUT	457	20
QUOTEDS	RFA	DSRX0696300831B	MULTICOUPLER EXPANSION, 8 PORT, 66-960 MHZ BNC (F)	457	20
QUOTEDS	RFA	DSRX0696301631B	MULTICOUPLER EXPANSION, 16 PORT, 66-960 MHZ BNC (F)	457	5
QUOTEDS	RFA	DSRX699630013648N	RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	457	30
QUOTEDS	RFA	DSRX6996300136ACN	RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	457	20
QUOTEDS	RFA	DSRX699630013748N	RMC04, DUAL 2 PORT CMU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	457	30
QUOTEDS	RFA	DSRX6996300137ACN	RMC04, DUAL 2 PORT CMU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	457	20
QUOTEDS	RFA	DSRX699630015548N	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	457	30
QUOTEDS	RFA	DSRX6996300155ACN	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	457	30
QUOTEDS	RFA	DSRX699630015748N	RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	457	30
QUOTEDS	RFA	DSRX699634083448B	RMC01, 8 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	457	30
QUOTEDS	RFA	DSRX699634083548B	RMC02, DUAL 8 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	457	60
QUOTEDS	RFA	DSRX6996340835ACB	RMC02, DUAL 8 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	457	30
QUOTEDS	RFA	DSRX699634083848B	RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, -48 VDC	457	30
QUOTEDS	RFA	DSRX6996340838ACB	RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	457	20
QUOTEDS	RFA	DSRX699634163448B	RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	457	30
QUOTEDS	RFA	DSRX6996341634ACB	RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	351	60
QUOTEDS	RFA	DSRX699634163548B	RMC02, DUAL 16 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, -48VDC	457	30
QUOTEDS	RFA	DSRX6996341635ACB	RMC02, DUAL 16 PORT MCU'S WITH TTA CONTROL, 698-960 MHZ, 110-240VAC	457	20
QUOTEDS	FLR	DSSAC001V1P	TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, N-CONNECTORS	457	20
QUOTEDS	FLR	DSSAC001V2P	TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, 4.3-10 CONNECTORS	457	20

QUOTEDS	FLR	DSSEG001F1P	CONTROL UNIT, ESS, SINGLE -48 VDC INPUT	457	20
QUOTEDS	FLR	DSSEG001F2P	CONTROL UNIT, ESS, REDUNDANT -48 VDC INPUT	457	20
QUOTEDS	FLR	DSSGG001P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG002P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY	457	20
QUOTEDS	FLR	DSSGG003P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG004P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG005P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG006P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY	457	20
QUOTEDS	FLR	DSSGG007P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY, -48	457	20
QUOTEDS	FLR	DSSGG008P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG009P	700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG010P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	457	20
QUOTEDS	FLR	DSSGG011P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG012P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG013P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG014P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	457	20
QUOTEDS	FLR	DSSGG015P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY,	457	20
QUOTEDS	FLR	DSSGG016P	700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	457	20
QUOTEDS	RFA	DSTA798201001000	TTA01, FULLY REDUNDANT AMP, 796-824 MHZ (TTA ONLY)	457	20
QUOTEDS	RFA	DSTA798202002000	TTA02 FULLY REDUNDANT DIVERSITY, 796-824 MHZ (TTA'S ONLY)	457	20
QUOTEDS	RFA	DSTA798203001000	TTA03, SINGLE HIGH GAIN AMP, 796-824 MHZ (TTA ONLY)	351	20

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

TOWER TOP AMPLIFIERS 900 MHZ

This page contains parts information for MSI preferred vendors including RFI, TXRX.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For technical questions, please contact [Gary Owens](#)

For ordering/pricing questions, please contact the product planner [Tim Martin](#)

For more information on TXRX products, please see the [TXRX portal](#) or contact Mike Ryan at MRyan@txrx.com (312-632-9620).

For more information on RFI products, please see the [RFI portal](#) or contact Sean Johnson at 330-486-0706 x 302.

TXRX TTA COMPATIBILIY MATRIX

TXRX has published (8/28/2019) a spreadsheet with a TTA product matrix. This matrix is designed to help guide users to the proper TTA as older models become obsolete. If you have questions, contact the TXRX account manager (details above).

Below is a link to the matrix document.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/TX%20RX%20TTA%20Compatibility%20Matrix%20for%20Customers%2007%2029%2019.pdf

TXRX WHITE PAPER ON TOWER TOP AMPLIFIERS - see link below.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Tower-Top-Amplifier-Advantages-and-Limitations.pdf

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

RFI TTA APLICATIONS GUIDE

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/RFI%20Tower%20Top%20Amplifiers%20-%20Features%20%26%20Applications.pdf

Configuration

RFI TTA01 Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price

RMC01, 8 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3408-54-48B SPEC SHEET LINK: TBD	DSRX699634085448B	351	\$5,736.00
RMC01, 8 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	RFI PART#: RX6996-3408-54-ACB SPEC SHEET LINK: TBD	DSRX6996340854ACB	351	\$5,882.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3001-56-48N SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2016/10/TA8990-RMC01-MCU-RMC03-CMU.pdf	DSRX699630015648N	457	\$5,518.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	RFI PART#: RX6996-3001-56-ACN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2016/10/TA8990-RMC01-MCU-RMC03-CMU.pdf	DSRX6996300156ACN	457	\$5,665.00
RMC01, 16 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3416-54-48B SPEC SHEET LINK: TBD	DSRX699634165448B	351	\$6,903.00
RMC01, 16 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	RFI PART#: RX6996-3416-54-ACB SPEC SHEET LINK: TBD	DSRX6996341654ACB	457	\$7,043.00
TTA01, FULLY REDUNDANT AMP, 896-902 MHZ (TTA ONLY)	RFI PART#: TA8990-0100-10-00 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2016/10/TA8990-RMC01-MCU-RMC03-CMU.pdf	DSTA899001001000	351	\$4,035.00
TTA03, SINGLE HIGH GAIN AMP, 896-902 MHZ (TTA ONLY)	RFI PART#: TA8990-0300-10-00 SPEC SHEET LINK: TBD	DSTA899003001000	351	\$4,035.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3001-55-48N SPEC SHEET LINK:	DSRX699630015548N	457	\$5,518.00
RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240V	RFI PART#: RX6996-3001-57-ACN SPEC SHEET LINK:	DSRX6996300157ACN	457	\$11,330.00
RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	RFI PART#: RX6996-3001-55-ACN SPEC SHEET LINK:	DSRX6996300155ACN	457	\$5,665.00
RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	RFI PART#: RX6996-3001-57-48N SPEC SHEET LINK:	DSRX699630015748N	457	\$11,072.00
TTA02 FULLY REDUNDANT DIVERSITY, 896-902 MHZ (TTA'S ONLY)	RFI PART#: TA8990-0200-20-00 SPEC SHEET LINK:	DSTA899002002000	457	\$8,875.00

RFI TTA03 Non-Redundant Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
TTA03, SINGLE HIGH GAIN AMP, 896-902 MHZ (TTA ONLY)	RFI PART#: TA8990-0300-10-00 SPEC SHEET LINK: TBD	DSTA899003001000	351	\$4,035.00

Models

TOWER TOP AMPLIFIERS

TXRX TTA01 Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER UNIT, 896-902MHZ, 16 PORT, BYPASS TEST, SNMP, 110VAC	TXRX PART#: DS428E94D01M110 SPEC SHEET LINK: https://drive.google.com/file/d/1VnicBXsb1QqisczmDgKcOFMJEsgZPN6u/view?usp=sharing	DS428E94D01M110	457	\$5,244.00

MULTICOUPLER UNIT, 896-902MHZ,16 PORT, BYPASS TEST, SNMP,-48V	TXRX PART#: DS428E94D01M48 SPEC SHEET LINK: https://drive.google.com/file/d/1VnlcBXsb1QqlsczmDgKcOFMJEsgZPN6u/view?usp=sharing	DS428E94D01M48	457	\$5,934.00
CONTROL MONITORING UNIT, 896-902 MHZ, BYPASS TEST, 110VAC	TXRX PART#: 428E-94D-01-C-110 SPEC SHEET LINK: https://drive.google.com/file/d/1VnlcBXsb1QqlsczmDgKcOFMJEsgZPN6u/view?usp=sharing	DS428E94D01C110	457	\$4,347.00
CONTROL MONITORING UNIT, 896-902MHZ, BYPASS TEST, SNMP, 48VDC	TXRX PART#: 428E-94D-01-C-48 SPEC SHEET LINK: https://drive.google.com/file/d/1VnlcBXsb1QqlsczmDgKcOFMJEsgZPN6u/view?usp=sharing	DS428E94D01C48	457	\$4,899.00
MINI AUTO QUAD, 896-902MHZ,TTA	TXRX PART#: DS428E94D01T SPEC SHEET LINK: https://drive.google.com/file/d/1VnlcBXsb1QqlsczmDgKcOFMJEsgZPN6u/view?usp=sharing	DS428E94D01T	457	\$8,625.00

TXRX TTA03 Non-Redundant Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
SINGLE HIGH GAIN AMPLIFIER TTA, 900 MHZ	TXRX PART#: 433-94D-01-T SPEC SHEET LINK: https://drive.google.com/file/d/1YRgCaQQbwqCuZxaTMB2dYfgcs-FrhrxY/view?usp=sharing	DS43394D01T	457	\$4,485.00
SINGLE HIGH GAIN AMPLIFIER TTA MCU, 900 MHZ, 48V DC	TXRX PART#: 433-94D-01-M-48 SPEC SHEET LINK: https://drive.google.com/file/d/1YRgCaQQbwqCuZxaTMB2dYfgcs-FrhrxY/view?usp=sharing	DS43394D01M48	457	\$4,922.00
SINGLE HIGH GAIN AMPLIFIER TTA MCU, 900 MHZ, 110V AC	TXRX PART#: 433-94D-01-M-110 SPEC SHEET LINK: https://drive.google.com/file/d/1YRgCaQQbwqCuZxaTMB2dYfgcs-FrhrxY/view?usp=sharing	DS43394D01M110	457	\$4,255.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS428E94D01C110	CONTROL MONITORING UNIT, 896-902 MHZ, BYPASS TEST, 110VAC	457	20
QUOTEDS	TXR	DS428E94D01C48	CONTROL MONITORING UNIT, 896-902MHZ, BYPASS TEST, SNMP, 48VDC	457	20
QUOTEDS	TXR	DS428E94D01M110	MULTICOUPLER UNIT, 896-902MHZ,16 PORT, BYPASS TEST, SNMP, 110VAC	457	20
QUOTEDS	TXR	DS428E94D01M48	MULTICOUPLER UNIT, 896-902MHZ,16 PORT, BYPASS TEST, SNMP,-48V	457	20
QUOTEDS	TXR	DS428E94D01T	MINI AUTO QUAD, 896-902MHZ,TTA	457	50
QUOTEDS	TXR	DS43394D01M110	SINGLE HIGH GAIN AMPLIFIER TTA MCU, 900 MHZ, 110V AC	457	40
QUOTEDS	TXR	DS43394D01M48	SINGLE HIGH GAIN AMPLIFIER TTA MCU, 900 MHZ, 48V DC	457	20
QUOTEDS	TXR	DS43394D01T	SINGLE HIGH GAIN AMPLIFIER TTA, 900 MHZ	457	40
QUOTEDS	RFA	DSRX0696300831B	MULTICOUPLER EXPANSION, 8 PORT, 66-960 MHZ BNC (F)	457	20

QUOTEDS	RFA	DSRX0696301631B	MULTICOUPLER EXPANSION, 16 PORT, 66-960 MHZ BNC (F)	457	5
QUOTEDS	RFA	DSRX699630015548N	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	457	30
QUOTEDS	RFA	DSRX699630015548N	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	457	30
QUOTEDS	RFA	DSRX699630015648N	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	457	30
QUOTEDS	RFA	DSRX699630015648N	RMC03, 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	457	30
QUOTEDS	RFA	DSRX699630015748N	RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	457	30
QUOTEDS	RFA	DSRX699630015748N	RMC04, DUAL 2 PORT CMU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240V	457	30
QUOTEDS	RFA	DSRX699634085448B	RMC01, 8 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	351	30
QUOTEDS	RFA	DSRX699634085448B	RMC01, 8 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	351	30
QUOTEDS	RFA	DSRX699634165448B	RMC01, 16 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, -48VDC	351	30
QUOTEDS	RFA	DSRX699634165448B	RMC01, 16 PORT MCU WITH TTA CONTROL & 896-902 MHZ FILTER, 110-240VAC	457	30
QUOTEDS	RFA	DSTA899001001000	TTA01, FULLY REDUNDANT AMP, 896-902 MHZ (TTA ONLY)	351	30
QUOTEDS	RFA	DSTA899002002000	TTA02 FULLY REDUNDANT DIVERSITY, 896-902 MHZ (TTA'S ONLY)	457	30
QUOTEDS	RFA	DSTA899003001000	TTA03, SINGLE HIGH GAIN AMP, 896-902 MHZ (TTA ONLY)	351	30

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model

Training Bank

Ordering Information

Overview

The Motorola Training Bank is a pre-paid, non-expiring account allocated to the portfolio of educational products and services provided by Motorola Solutions North America Learning Organization. It is discounted up front and may be rolled over to the following year. Motorola's Training programs are designed to build technical product and systems knowledge, as well as skills and expertise of your Motorola mission or business critical communication network. The dollars in a Training Bank may be used toward most training provided by Motorola Solutions North America Learning Organization, including but not limited to:

- Self Paced Online
- Virtual Instructor-Led
- Instructor-Led Resident Lab Courses
- Instructor-Led Tailored Field Courses
- Interactive End User Tool Kits

Features

MAXIMUM SYSTEM VALUE Educated technicians and systems managers can minimize downtime and leverage the system's full set of capabilities.

FLEXIBLE DELIVERY OPTIONS Classes are available at your location or ours; they are also available as instructor-led, on-line or self-paced on-line courses.

SPEED TO LEARNING Experiential, hands-on learning reduces the time it takes to come up to speed, and increases retention after the class is over.

WORLD-CLASS INSTRUCTORS Facilitators are experienced with backgrounds on the latest technologies and receive over 100 hours of annual training.

INCREASED KNOWLEDGE RETENTION Actual system documentation and hands-on learning helps technicians learn faster and increase retention.

COST EFFECTIVE Training Banks provide discounted prices and help budget for training costs.

Training Bank Features

Up-front discount on training products and

User Benefits

Savings on your operator and technical

services	training needs
Pre-paid account used as debit	No hassle with multiple approvals and budgeting
No term limit; account does not expire	Ability to use funds year after year
E-mail notification when account funds are low	Ensures funding is available when you need training

Ordering Requirements

This product cannot be ordered directly through COF at this time.

There are 2 ways Training Banks can be purchased:

1. Contact the Call Center at 800-422-4210 and place an order for the applicable part number. Once the order is processed, the customer will receive an email with the Training Bank account number
2. If monies are left over from a project, the Customer Support Manager can roll funds into a Training Bank for future use. Contact the CSM for more details

Terms & Conditions

Training Bank Terms & Conditions - need to add link

Note: The Training Bank is non-transferable and non-refundable. Training Bank funds can not be used for travel & expenses

How to Utilize

1. Log into the [Learning Management System](#)
2. Search for a Course
3. Add to Cart
4. Select "TRAINING BANK" as the payment method
5. Check out
6. A training representative will verify the training bank account
7. After training is delivered, funds are debited from the account

Contact the help desk at 855-619-9714 if there are any questions

Configuration

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

Model



NEON Indoor Location Increases Situational Awareness and Enhances User Safety By Providing Location Indoors

Ordering Information

Features

Motorola has partnered up with TRX Systems to provide an Indoor Location system compatible with the Motorola LEX L10 and LEX L10G

Real-time Location of Personnel

2D and 3D location and tracking of all personnel both indoors and out

Centralized 3D mapping and visualization

Cloud connected Command software provides remote, real-time situational awareness

Precise Detail on Personnel Movement and Activity

Clear views of personnel activity and status (moving, motionless, prone)

Effective After-Action Review

Location and track storage in Cloud for all personnel supports training and after action reviews

Scalable and Easy to Use

Cloud connected solution allows fast building rendering and rapid on-scene initialization

The TRX NEON Indoor Location System locates and tracks personnel operating indoors where GPS is unavailable and in urban areas where GPS is unreliable. Wearing NEON Tracking Units in conjunction with the LEX L10, personnel can be located and tracked real time in both 2D and 3D.

NEON fuses gyroscope, accelerometer, pressure, compass, Wi-Fi, and ranging sensor information along with inferred map and building data to deliver reliable GPS-denied location. Rapidly deployable BLE beacons and floor plan information may be used in fixed site applications to enhance precision.

Enhanced Tracking Performance

NEON sensor fusion and mapping algorithms deliver accurate location within buildings even where ranging, inertial, magnetic and pressure sensors can provide erroneous measurements due to interference from building infrastructure or from sensor drift. Operating without GPS coverage, NEON provides differential location (position relative to a starting point) in real time. Starting point initialization can be obtained via GPS, BLE Beacons, manually check-ins, waypoint selection, and NFC Check-Ins. Overall location accuracy is affected by accuracy of the start location, sensor integrity and map information. For fixed sites, location integrity can be enhanced with pre-planning and use of beacons in choke points and other strategic locations.

NEON Markets

- Industrial Personnel Tracking
- Security Officers and VIPs
- Police and Public Safety
- Corrections Officers and Employees
- Training Applications

Product Information

Neon Location Service

- Android based software providing 3D location data to UI and Cloud Service
- NEON Location Engine uses check-ins, inertial and magnetic data, BT and Wi-Fi signals and learned building constraints to compute location

Neon Command Software

- Map Editor Tool for user input of building outlines and floor plans
- UI for remote real-time viewing, instant replay, and after action review of location
- Centralized access to the NEON Cloud Service to access logged location info

NEON Cloud Service

- Cloud-based location data and 3D map database

System Components

INU-8B Specifications:

Dimensions (H x W x D) 60 x50 x15mm (2.4 x 2.0 x 0.6in)

Operating Temperature -20 to 60 °C (-4 to 140 °F)

Battery *Lithium Polymer, 8+ hours*

Android connection *Bluetooth*

Configuration

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

TX Application Software

Ordering Information

General Information

The TX Application is a mobile, portable, or laptop application which allows receipt of dispatches, query of databases, and entry of data into a host computer. TX offers several types of messages. Status conditions and routine text messages can be programmed. Free-format text provides a facility like electronic mail, while data entry forms provide fill-in the blank templates for most interactions with host computers. Pre-defined forms can be resident in the memory of the terminal/PC, while more frequently changed forms can be downloaded over the radio channel from the host computer. Received messages are divided into two logical types: waiting and stored. The TX application offers several levels of support for composing messages for transmission. Software operates in a Microsoft DOS/Windows operating environment, unless otherwise indicated.

"Application TX" is intended for customers having a device on which TX was not pre-loaded. Each user receives a User's Manual and Shrink-wrap Software License Agreement.

"Upgrade TX" is intended for customers having a device with a version of TX prior to TX0.33, TX1.14 or TX1.6. The Upgrade Kit includes Supplemental Notes outlining enhancements from the previous version(s), diskette, Installation Instructions and Shrink-wrap Software License Agreement

The TX Application is compatible with the Windows 3.1x (non-international) or Windows for Pen computing 1.0 operating systems. TX is not supported on Win 95 or Win NT operating systems. For Customers with Win 95 operating system, please see the WaveSoft-Link product.

TX CONFIGURATOR: One copy of the TX Configuration Software must be ordered at the same time as the INITIAL TX customer order. It is not necessary to re-order the Configurator software when placing TX add-on orders UNLESS it is the INITIAL MW520 add-on.

DATA TERMINAL SYSTEM CONFIGURATOR: One copy of the Data Terminal System Configuration Software must be ordered at the same time as the INITIAL customer order. It is not necessary to re-order the System Configurator software when placing add-on orders UNLESS it is the INITIAL MW520 add-on.

FORMGEN: One copy of the FormGen Software and Manual must be ordered at the same time as the INITIAL customer order. It is not necessary to re-order FormGen when placing TX add-on orders.

LICENSE AGREEMENT: When using this software, Licensee is subject to the terms of the

Motorola Software License Agreement.

FIELD PROGRAMMING: Software prices **DO NOT** include field programming.

WARRANTY: Operational warranty is limited to the cost of the software.

Ordering Requirements

ORDERING REQUIREMENT FOR FORTE AND LAPTOPS:

1. Specify the TX Application that is specific to the device it is to run on (F2190, F2195, F2191 or F2196) and enter as main line item and order quantity 1 at \$25.
2. Choose the appropriate TX License (Z255 or Z624) if ordering an Install (F2190 or F2191) or an Upgrade (F2195 or F2196). Enter as a sub-item. All sub-items must have a quantity listed that equals the number of devices that TX will be installed or upgraded on even though the main line item is ALWAYS 1.
3. MWCS (T5747) software is required for TX1.6 for Forte' and laptops. Order quantity one (1) of main model (T5747) for \$50 along with the software license option (Z254) for \$65. The quantity for the software license option (Z254) should equal the number of devices being installed. There is a maximum quantity of 100 licenses allowed per main line item (T5747). Contact MWCS Product Marketing with questions.
4. Choose Software Enhancement(s) for the device (Z167 and/or J654). Enter as a sub-item. All sub-items must have a quantity listed that equals the number of devices the Enhancement(s) will be installed on.
5. GPS option (Z167) is not compatible with radioless Forte' (F2160).

MINIMUM HARDWARE REQUIREMENTS FOR TX1.6 ON LAPTOPS:

OS: Windows 3.1x (non-international version) CPU: 386 ,486 or Pentium. Display: VGA, 640x480, 16 colors/gray levels.

RAM: 4 Mbyte free. DISK: 2 Mbyte free. COM port: Available COM port-connected to RF-modem.

RF-modem: Native mode 1.1 with MDC compatibility services.

ORDERING REQUIREMENT FOR 9100-T AND 9100-WS

6. Specify the TX Application upgrade (F2199, F3190 or F2194). Enter as the main line item with a quantity that equals the number of devices TX will be upgraded on.

7. Choose Software Enhancement(s), if applicable, for the device (Z167 and/or J654). Enter as a sub-item. All sub-items must have a quantity listed that equals the number of devices the Enhancement(s) will be installed on.
ORDERING REQUIREMENT FOR MW520:
8. Specify the TX Application as a Install (F3192) or an Upgrade (F3193) and enter as main line item and order quantity one (1) at \$25.
9. Choose the appropriate TX License (Z255 or Z624). Enter as a sub-item. All sub-items must have a quantity listed that equals the number of devices that TX will be installed or upgraded on even though the main line item is ALWAYS 1.
10. MWCS (T5747) software is required for TX1.6 for Forte' and laptops. Order quantity one (1) of main model (T5747) for \$50 along with the software license option (Z254) for \$65. The quantity for the software license option (Z254) should equal the number of devices being installed. There is a maximum quantity of 100 licenses allowed per main line item (T5747). Contact MWCS Product Marketing with questions.
11. Choose Software Enhancement (s) of the device (Z167 and/or J654). Enter as a sub-item. All sub-items must have a quantity listed that equals the number of devices the Enhancement(s) will be installed on.
INSTALLATION PROCEDURE:
12. For the Forte', 9100-WS and 9100-T, the diskette provided must be copied to a 2MB SRAM card.
13. Installation of TX1.65 on the MW520 can be done by either using the external floppy disk drive (CDN1280) or an SRAM PCMCIA card. Ordering instructions for the external floppy disk drive (CDN1280) are available on the MW520 price page.

Configuration

Models

Options

Software Licenses

Accessories

Manual(s)

Data Not Available

Ship Card

Data Not Available

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

UHF Band Antennas

This page contains parts information for MSI preferred vendors including Alive Telecom, Amphenol Procom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com or 847-979-0413.

For technical assistance contact Gary Owens garyowens@motorolasolutions.com.

For Alive information, go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com or at 708-603-6836.

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com or at (815-218-8000).

For RFI information, go to the [RFI website](#) or contact Sean Johnson at sean.johnson@rfi.com.au or (330-541-6585).

For DBSPECTRA information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL PROCOM PRODUCT LITERATURE - CLICK ON/COPY LINK BELOW

https://www.motorolasolutions.com/content/dam/msi/docs/product_catalog/amphenol_procom_preferred_supplier_for_base_station_antennas.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

ALIVE TELECOM ANTENNA PARTS GUIDE - this document is a decoder for Alive antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
DIPOLE ANTENNA, OFFSET, 5 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE, HD	ALIVE PART#: ATC-GD4V2C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V2C.pdf	DSATCGD4V2CD7	351	\$1,058.00
DIPOLE ANTENNA, OFFSET, 9 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GD4V4C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V4C.pdf	DSATCGD4V4CD7	351	\$1,932.00
DIPOLE ANTENNA, OFFSET, 11 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GD4V8C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V8C.pdf	DSATCGD4V8CD7	351	\$2,760.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	AMPHENOL PART#: 4220.03-405-T0. BRACKETS ORDER SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2009-4220-03-405-txx	DS422003405T0	351	\$854.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	AMPHENOL PART#: 4220.03-445-T0. BRackets ordered separately. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2010-4220-03-445-txx	DS422003445T0	351	\$752.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ,	AMPHENOL PART#: 4220.03-445-T6. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2010-4220-03-445-txx	DS422003445T6	351	\$752.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ, 8	AMPHENOL PART#: 4220.03-445-T8 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2010-4220-03-445-Txx?generate=1	DS422003445T8	351	\$834.00

COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ,	AMPHENOL PART#: 4220.03-445-T12 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2010-4220-03-445-Txx?generate=1	DS422003445T12	351	\$834.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	AMPHENOL PART#: 4220.06-445-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2014-4220-06-445-txx	DS422006445T0	351	\$1,171.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	AMPHENOL PART#: 4220.06-445-T6. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2014-4220-06-445-txx	DS422006445T6	351	\$1,171.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ, 8	AMPHENOLPART#: 4220.06-445-T8 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2014-4220-06-445-Txx?generate=1	DS422006445T8	351	\$1,171.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	AMPHENOL PART#: 4220.06-405-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-txx	DS422006405T0	351	\$1,209.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	AMPHENOL PART#: 4220.06-405-T3. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-txx	DS422006405T3	351	\$1,209.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 4	AMPHENOL PART#: 4220.06-405-T4 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-Txx?generate=1	DS422006405T4	351	\$1,209.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 5	AMPHENOL PART#: 4220.06-405-T5 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-Txx?generate=1	DS422006405T5	351	\$1,209.00
	AMPHENOL PART#: 4220.06-405-T6.			

COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-txx	DS422006405T6	351	\$1,209.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	AMPHENOL PART#: 4220.06-405-T8 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-Txx?generate=1	DS422006405T8	351	\$1,209.00
COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ,	AMPHENOL PART#: 4220.06-405-T10 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2012-4220-06-405-Txx?generate=1	DS422006405T10	351	\$1,209.00
LOW PIM 4 DIPOLE ANT, 7.5 DBD, 370-430 MHZ, OFFSET, HEAVY -DUTY DIN	AMPHENOL PART#: 414.04-405-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2007-414-04-405-txx	DS41404405T0	351	\$10,914.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 6	AMPHENOL PART#: 4220.03-405-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2009-4220-03-405-Txx?generate=1	DS422003405T6	351	\$854.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	AMPHENOL PART#: 4220.03-405-T8 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2009-4220-03-405-Txx?generate=1	DS422003405T8	351	\$854.00
COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ,	AMPHENOL PART#: 4220.03-405-T12 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2009-4220-03-405-Txx?generate=1	DS422003405T12	351	\$854.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	AMPHENOL PART#: 4220.09-405-T0. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-txx	DS422009405T0	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 2	AMPHENOL PART#: 4220.09-405-T2 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T2	351	\$2,019.00

COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ, 3 D	AMPHENOL PART#: 4220.09-405-T3 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T3	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 4	AMPHENOL PART#: 4220.09-405-T4 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T4	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 5	AMPHENOL PART#: 4220.09-405-T5 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T5	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 6	AMPHENOL PART#: 4220.09-405-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T6	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	AMPHENOL PART#: 4220.09-405-T8 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2016-4220-09-405-Txx?generate=1	DS422009405T8	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ	AMPHENOL PART#: 4220.09-445-T0 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2017-4220-09-445-Txx?generate=1	DS422009445T0	351	\$2,019.00
COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ 6	AMPHENOL PART#: 4220.09-445-T6 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2017-4220-09-445-Txx?generate=1	DS422009445T6	351	\$2,019.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 5.9 DBD GAIN, 120? BEAMWIDTH,	AMPHENOL PART#: 760.12.08.00 SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/2327-760-12-08-00?generate=1	DS760120800	351	\$1,033.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 8.9 DBD GAIN, 120? BEAMWIDTH,	AMPHENOL PART#: 760.12.11.00 SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/2328-760-12-11-00?generate=1	DS760121100	351	\$1,306.00

VERTICALLY POLARIZED UHF PANEL ANTENNA, 9.9 DBD GAIN, 65° BEAMWIDTH,	AMPHENOL PART#: 760.65.12.00. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2329-760-65-12-00	DS760651200	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	AMPHENOL PART#: 760.65.15.00. BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2330-760-65-15-00	DS760651500	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	AMPHENOL PART#: 760.65.15.05 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2330-760-65-15-00?generate=1	DS760651505	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	AMPHENOL PART#: 760.65.15.10 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2330-760-65-15-00?generate=1	DS760651510	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	AMPHENOL PART#: 760.65.15.15 SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2330-760-65-15-00?generate=1	DS760651515	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 7.9 DBD GAIN, 90° BEAMWIDTH, L	AMPHENOL PART#: 760.90.10.00 SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/2331-760-90-10-00?generate=1	DS760901000	351	\$1,033.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 10.9 DBD GAIN, 90° BEAMWIDTH,	AMPHENOL PART#: 760.90.13.00 SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/2332-760-90-13-00?generate=1	DS760901300	351	\$1,306.00
VERTICALLY POLARIZED UHF PANEL ANTENNA, 10.9 DBD GAIN, 90° BEAMWIDTH,	AMPHENOL PART#: 760.90.13.10 SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/2332-760-90-13-00?generate=1	DS760901310	351	\$1,306.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
406-512MHZ, 6DB GAIN DIRECTIONAL PANEL ANTENNA, DIN	MSI PART#: DS4E06P18U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E06P18U-D.pdf	DSDS4E06P18UD	351	\$2,279.00
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 8 DBD , 7/16 DIN	DBSPECTRA# DS4E08P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E08P12U-	DSDS4E08P12UD	351	\$2,361.00

	D.pdf			
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 10 DBD , 7/16 DIN	DBSPECTRA# DS4E10P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E10P12U-D.pdf	DSDS4E10P12UD	351	\$2,979.00
DS4F03P36D-D: DUAL,3DB GAIN LOW PIM,PIP,DIN	DBSPECTRA# DS4F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36D-D.pdf	DSDS4F03P36DD	351	\$3,433.00
OMNI,3DB GAIN LOW PIM,DIN	DBSPECTRA# DS4F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DSDS4F03P36UD	351	\$2,134.00
450-470MHZ DUAL FEED 5.9DB GAIN, LOW-PIM, PIP RATED ANT, DIN	DBSPECTRA# DS4F06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36D-D_(ID-D).pdf	DSDS4F06P36DD	351	\$4,169.00
ANTENNA,6DBD OMNI,LOW-PIM,DIN	DBSPECTRA# DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D_(U-D).pdf	DSDS4F06P36UD	351	\$2,904.00
450-470MHZ, DUAL FEED OMNI ,INVERTED, 6DB GAIN, LOW PIM,HI PIP, 7/16 D	DBSPECTRA# DS4F06P3ID-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P3ID-D_(ID-D).pdf	DSDS4F06P3IDD	351	\$4,554.00
450-470MHZ, SINGLE FEED OMNI ,9DB GAIN, LOW PIM,HI PIP, 7/16 DIN	DBSPECTRA# DS4F09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F09P36UxD.pdf	DSDS4F09P36UD	351	\$4,203.00
ANTENNA, YAGI, 450-512 MHZ	DBSPECTRA# DS4K07Y85U-N SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K07Y85U-N.pdf	DSDS4K07Y85UN	351	\$518.00
406-420MHZ OMNI ANTENNA, 6DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36UxD.pdf	DSDS4A06P36UD	351	\$2,615.00
450-470MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	DBSPECTRA PART#: DS4F06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D.pdf	DSDS4F06P36U6D	351	\$3,191.00

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406-420MHZ DUAL FEED OMNI ANTENNA,5.9DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36D-D.pdf	DSDS4A06P36DD	351	\$4,485.00
380-410 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS3A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36DxD.pdf	DSDS3A03P36DD	351	\$3,433.00
3 DB GAIN TRIPLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36T6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36TxD.pdf	DSDS3A03P36T6D	351	\$4,399.00
380-410 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	DBSPECTRA PART#: DS3A03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36TxD.pdf	DSDS3A03P36TD	351	\$3,939.00
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS,	DBSPECTRA PART#: DS3X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00L36UxD.pdf	DSDS3X00L36UD	351	\$1,121.00
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS3X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00P36UxD.pdf	DSDS3X00P36UD	351	\$1,317.00
406-436 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS4A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36UxD.pdf	DSDS4A03P36UD	351	\$1,833.00
450-470 MHZ, UHF INVERTED ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN LOW-PIM/	DBSPECTRA PART#: DS4F06P3IU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D_(IU-D).pdf	DSDS4F06P3IUD	351	\$3,076.00
450-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 8 DB GAIN,LOW-PIM/HI-PIP, D	DBSPECTRA PART#: DS4F08P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F08P36UxD.pdf	DSDS4F08P36UD	351	\$4,111.00
450-512 MHZ,UHF ANTENNA-DIRECTIONAL PANEL, LOW PIM/HI-PIP, 9.7 DB GAIN	DBSPECTRA PART#: DS4K10PP65U SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K10PP65U	DSDS4K10PP65UD	351	\$3,105.00

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450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	DBSPECTRA PART#: DS4X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00L36UxD.pdf	DSDS4X00L36UD	351	\$1,121.00
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS4X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00P36UxD.pdf	DSDS4X00P36UD	351	\$1,317.00
380-410MHZ OMNIDIRECTIONAL 2.9 DBD GAIN, LOW-PIM, DAS RATED ANTENNA	DBSPECTRA PART#: DS3A03L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03L36U-D.pdf	DSDS3A03L36UD	351	\$1,640.00
406-430 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS4A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36DxD.pdf	DSDS4A03P36DD	351	\$3,433.00
450-470 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	MSI PART#: DS4F03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36Tx D.pdf	DSDS4F03P36TD	351	\$3,939.00
406-430 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	DBSPECTRA PART#: DS4A03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36Tx D.pdf	DSDS4A03P36TD	351	\$4,135.00
ANTENNA - 380-410MHZ, 3DB GAIN SINGLE OMNI, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36UxD.pdf	DSDS3A03P36UD	351	\$1,833.00
380-410MHZ, 6DB GAIN DUAL FEED OMNI DIRECTIONAL, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36DxD.pdf	DSDS3A06P36DD	351	\$4,253.00
SINGLE 6 DB GAIN OMNI , 380-410 MHZ, DIN CONNECTOR PIM & PIP RATED	DBSPECTRA PART#: DS3A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36UxD.pdf	DSDS3A06P36UD	351	\$3,128.00
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A06P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U3D.pdf	DSDS3A06P36U3D	351	\$3,191.00

380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS4A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A09P36UxD.pdf	DSDS4A09P36UD	351	\$5,031.00
480-512MHZ 6DB GAIN DUAL FEED OMNI ANT, LOW PIM, HI PIP ANT	DBSPECTRA PART#: DS4D06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36DxD.pdf	DSDS4D06P36DD	351	\$4,253.00
UHF DUAL ANTENNA, OMNI, LOW PIM, HI-PIP, 3DB, BEAM TILT 6 DEG	DBSPECTRA PART#: DS4A03P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36D6DxD.pdf	DSDS4A03P36D6D	351	\$3,664.00
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/HI-PIP, DIN	MSI PART#: DS3A09P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U3DxD.pdf	DSDS3A09P36U3D	351	\$5,319.00
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	MSI PART#: DS3A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36UxD.pdf	DSDS3A09P36UD	351	\$5,031.00
ANT 450-512MHZ, 5.8DB GAIN DIRECTIONAL PANEL, LOW-PIM/HI-PIP W DIN CON	MSI PART#: DS4K06PP18UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K06PP18UDxD.pdf	DSDS4K06PP18UD	351	\$2,616.00
480-512 MHZ,3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEGREE D	MSI PART#: DS4D03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36UxD.pdf	DSDS4D03P36UD	351	\$1,833.00
480-512 MHZ,3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36DxD.pdf	DSDS4D03P36DD	351	\$3,433.00
480-512 MHZ,6 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36UxD.pdf	DSDS4D06P36UD	351	\$2,904.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
	RFI PART#: BA160-67-DIN SPEC SHEET LINK: https://rfi-motorola.com/wp-			

OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf It is important to be certain that this file is from a trustworthy source. Would you like to open this file? ----- OK Cancel ----- -----	DSBA16067DIN	351	\$6,219.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 330-420MHZ, PIM RATED	RFI PART#: BA4040-57-DIN SPEC SHEET LINK: TBD	DSBA404057DIN	351	\$3,240.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 400-520 MHZ, PIM RATED	RFI#BA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/Sales-Aid-400-520MHz2.pdf	DSBA404067DIN	351	\$3,240.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 330-420 MHZ, PIM RATED	RFI#BA40-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA4057DIN	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 400-520 MHZ, PIM RATED	RFI# BA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA4067DIN	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 330-420 MHZ, PIM RATED	RFI# BA80-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA8057DIN	351	\$3,048.00
OMNI. EXPOSED DIPOLE ARRAY, 6 DBD, 400-520 MHZ, PIM RATED	RFI# BA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DIN	351	\$2,918.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3DEG DT, PIM RA	RFI# BA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DINT3	351	\$2,919.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520 MHZ, PIM RATED	RFI# BA8080-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA808067DIN	351	\$5,458.00
OMNI, CORPORATE COLLINEAR, 6DBD, 380-430MHZ, PIM RATED	RFI# CC380-06 FOR CLAMPS USE DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/P-42438-4-CC-380-Series.pdf	DSCC38006	351	\$3,386.00
	RFI# CC450-06 FOR CLAMPS ORDER			

OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED	DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006	351	\$2,743.00
OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 3DT	RFI# CC450-06-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T3	351	\$2,880.00
OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 6DT	RFI # CC450-06-T6 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T6	351	\$2,880.00
OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520MHZ, PIM RATED	RFI# CC450-09 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009	351	\$3,864.00
OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520M 3DT, PIM RATED	RFI# CC450-09-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T3	351	\$3,942.00
OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520M 6DT, PIM RATED	RFI# CC450-09-T6 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T6	351	\$3,942.00
OMNI, MEANDER COLLINEAR, 9DBD, 380-400MHZ, PIM RATED	RFI# COL410-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41058	351	\$2,018.00
OMNI, MEANDER COLLINEAR, 9DBD, 400-420MHZ, PIM RATED	RFI# COL410-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41065	351	\$2,018.00
OMNI, MEANDER COLLINEAR, 9DBD, 410-430MHZ, PIM RATED	RFI# COL410-66 FOR CLAMPS USE DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41066	351	\$2,018.00

OMNI. MEANDER COLLINEAR, 9 DBD, 450-470 MHZ, PIM RATED	RFI# COL410-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41070	351	\$2,018.00
OMNI, MEANDER COLLINEAR, 9 DBD, 470-490 MHZ, PIM RATED	RFI# COL410-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41071	351	\$2,018.00
OMNI. MEANDER COLLINEAR, 9 DBD, 490-520 MHZ, PIM RATED	RFI# COL410-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41072	351	\$2,018.00
OMNI, MEANDER COLLINEAR, 0DBD, 380-400MHZ, PIM RATED	RFI# COL41-58 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4158	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 0DBD, 400-420MHZ, PIM RATED	RFI# COL41-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4165	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 0 DBD, 450-470 MHZ, PIM RATED	RFI# COL41-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4170	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 0 DBD, 470-490 MHZ, PIM RATED	RFI# COL41-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4171	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 0DBD, 490-520MHZ, PIM RATED	RFI# COL41-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4172	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 5DBD, 380-400MHZ, PIM RATED	RFI# COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4358	351	\$852.00
OMNI, MEANDER COLLINEAR, 5DBD, 400-420MHZ, PIM RATED	RFI# COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4365	351	\$852.00
OMNI, MEANDER COLLINEAR, 5DBD, 410-430MHZ, PIM	RFI# COL43-66 FOR CLAMPS ORDER COL43-66 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4366	351	\$852.00

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OMNI, MEANDER COLLINEAR, 5 DBD, 450-470 MHZ, PIM RATED	RFI#COL43-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4370	351	\$852.00
OMNI, MEANDER COLLINEAR, 5 DBD, 490-520MHZ, PIM RATED	RFI# COL43-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4372	351	\$852.00
OMNI, MEANDER COLLINEAR,7 DBD, 380-400 MHZ, PIM RATED	RFI# COL45-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4558	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 400-420 MHZ, PIM RATED	RFI# COL45-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4565	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7DBD, 410-430MHZ, PIM RATED	RFI# COL45-66 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4566	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 450-470MHZ PIM RATED	RFI# COL45-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4570	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 470-490MHZ PIM RATED	RFI# COL45-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4571	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 490-520 MHZ, PIM RATED	RFI# COL45-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4572	351	\$1,165.00
VERTICAL COLLINEAR ANTENNA, 3DBD GAIN, 380-530MHZ, 4%BW	RFI PART#: COL7 SPEC SHEET LINK: spec sheet link	DSCOL7	351	\$602.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 70 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA10-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA1067DIN	351	\$1,541.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA20-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA2067DIN	351	\$2,907.00
	RFI# CSA40-67-DIN CLAMPS INCLUDED SPEC			

DIRECTIONAL DIPOLE ARRAY, 11 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA4067DIN	351	\$3,952.00
UHF ELLIPTICAL DIPOLE, BI-DIRECTINAL PAT, 2X 5 DBD ARRAY, 400-520MHZ	RFI# EA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA404067DIN	351	\$2,760.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI# EA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA4067DIN	351	\$2,200.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD, 400-520 MHZ, PIM RATED	RFI# EA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-80.pdf	DSEA8067DIN	351	\$2,681.00
DIRECTIONAL DIPOLE ARRAY 5DBD, 130 DEG BW, 406-512MHZ, PIM RATED	RFI# FSA10-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA1067DIN	351	\$1,117.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 130 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA2067DIN	351	\$2,355.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 132 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA4067DIN	351	\$3,093.00
LOW PIM, 400-520MHZ, EXP DIPOLE, DUAL, OFFSET, 5/5DBD, DIN, 500W, 14LB	RFI# OA2020-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - http://www.rfiwireless.com.au/media/downloads/pdfs/multiple_array_combinations.pdf	DSOA202067DIN	351	\$2,571.00
OFFSET, EXPOSED DIPOLE ARRARRAY, 5 DBD, 330-420 MHZ, PIM RATED	RFI# OA20-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-4_oa-series_uhf420MHz-40.pdf	DSOA2057DIN	351	\$1,554.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI# OA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA2067DIN	351	\$1,554.00
	RFI# OA40-57-DIN FOR CLAMPS ORDER			

OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 330-420 MHZ, PIM RATED	DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-4_oa-series_uhf420MHz-40.pdf	DSOA4057DIN	351	\$2,127.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DIN	351	\$2,108.00
CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED	RFI# OA40-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DINT3	351	\$1,650.00
OFFSET, EXPOSED DIPOLE ARRAY, 11 DBD, 400-520 MHZ, PIM RATED	RFI# OA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA8067DIN	351	\$4,451.00
OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI# OA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA8067DINT3	351	\$4,451.00
YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 480-520MHZ, N FEMALE	RFI PART#: RDA6-62 SPEC SHEET LINK: spec sheet link	DSRDA662	351	\$295.00
STABILIZER ARM FOR COL45/410 ANTENNA SERIES	RFI PART#: COLBRACE-65 SPEC SHEET LINK: TBD	DSCOLBRACE65	351	\$570.00
YAGI ANTENNA, 2 ELEMENT, 3DBD GAIN, 300-600MHZ 5% BW	RFI PART#: YB02-99 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0299	351	\$238.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00

PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
YAGI 3 ELEMENT, 6DBD, 350-600MHZ, 5%BW, N FEMALE	RFI PART#: YB03-99 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0399	351	\$298.00
YAGI ELEMENT 9 DBD 450-480 MHZ N FEMALE	RFI PART#: YB6-61 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/04/YB6-series-UHF-9dBd.pdf	DSYB661	351	\$224.00
UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	DBSPECTRA PART#: BPA3843-65-8 APEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8_P-42286-3.pdf	DSBPA3843658	351	\$1,743.00

Ship Card

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	APP	DS41404405T0	LOW PIM 4 DIPOLE ANT, 7.5 DBD, 370-430 MHZ, OFFSET, HEAVY -DUTY DIN	351	30
QUOTEDS	APP	DS422003405T0	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	351	30
QUOTEDS	APP	DS422003405T12	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ,	351	30
QUOTEDS	APP	DS422003405T6	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 6	351	30
QUOTEDS	APP	DS422003405T8	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	351	30
QUOTEDS	APP	DS422003445T0	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	351	30
QUOTEDS	APP	DS422003445T12	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ,	351	30
QUOTEDS	APP	DS422003445T6	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ,	351	30
QUOTEDS	APP	DS422003445T8	COLLINEAR OMNI, LOW PIM, 3 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ, 8	351	30
QUOTEDS	APP	DS422006405T0	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	351	30
QUOTEDS	APP	DS422006405T10	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ,	351	30
QUOTEDS	APP	DS422006405T3	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	351	30
QUOTEDS	APP	DS422006405T4	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 4	351	30
QUOTEDS	APP	DS422006405T5	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 5	351	30

QUOTEDS	APP	DS422006405T6	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ	351	30
QUOTEDS	APP	DS422006405T8	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	351	30
QUOTEDS	APP	DS422006445T0	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	351	30
QUOTEDS	APP	DS422006445T6	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	351	30
QUOTEDS	APP	DS422006445T8	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ, 8	351	30
QUOTEDS	APP	DS422009405T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420-470 MHZ	351	30
QUOTEDS	APP	DS422009405T2	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 2	351	30
QUOTEDS	APP	DS422009405T3	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380-430 MHZ, 3 D	351	30
QUOTEDS	APP	DS422009405T4	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 4	351	30
QUOTEDS	APP	DS422009405T5	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 5	351	30
QUOTEDS	APP	DS422009405T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 6	351	30
QUOTEDS	APP	DS422009405T8	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 380 - 430 MHZ, 8	351	30
QUOTEDS	APP	DS422009445T0	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ	351	30
QUOTEDS	APP	DS422009445T6	COLLINEAR OMNI, LOW PIM, 9 DBD GAIN, HD, 7/16 DIN FE, 420 - 470 MHZ 6	351	30
QUOTEDS	APP	DS760120800	VERTICALLY POLARIZED UHF PANEL ANTENNA, 5.9 DBD GAIN, 120? BEAMWIDTH,	351	30
QUOTEDS	APP	DS760121100	VERTICALLY POLARIZED UHF PANEL ANTENNA, 8.9 DBD GAIN, 120? BEAMWIDTH,	351	30

QUOTEDS	APP	DS760651200	VERTICALLY POLARIZED UHF PANEL ANTENNA, 9.9 DBD GAIN, 65° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760651500	VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760651505	VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760651510	VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760651515	VERTICALLY POLARIZED UHF PANEL ANTENNA, 12.9 DBD GAIN, 65° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760901000	VERTICALLY POLARIZED UHF PANEL ANTENNA, 7.9 DBD GAIN, 90° BEAMWIDTH, L	351	30
QUOTEDS	APP	DS760901300	VERTICALLY POLARIZED UHF PANEL ANTENNA, 10.9 DBD GAIN, 90° BEAMWIDTH,	351	30
QUOTEDS	APP	DS760901310	VERTICALLY POLARIZED UHF PANEL ANTENNA, 10.9 DBD GAIN, 90° BEAMWIDTH,	351	30
QUOTEDS	ALO	DSATCGD4V2CD7	DIPOLE ANTENNA, OFFSET, 5 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE, HD	351	30
QUOTEDS	ALO	DSATCGD4V4CD7	DIPOLE ANTENNA, OFFSET, 9 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD4V8CD7	DIPOLE ANTENNA, OFFSET, 11 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	RFA	DSBA16067DIN	OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA404057DIN	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 330-420MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSBA404067DIN	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA4057DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 330-420 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA4067DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 400-520 MHZ, PIM	351	30

			RATED		
QUOTEDS	RFA	DSBA8057DIN	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 330-420 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA8067DIN	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA8067DINT3	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3DEG DT, PIM RA	351	60
QUOTEDS	RFA	DSBA808067DIN	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBPA3843658	UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	351	60
QUOTEDS	RFA	DSCC38006	OMNI, CORPORATE COLLINEAR, 6DBD, 380-430MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCC45006	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCC45006T3	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 3DT	351	60
QUOTEDS	RFA	DSCC45006T6	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 6DT	351	60
QUOTEDS	RFA	DSCC45009	OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCC45009T3	OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520M 3DT, PIM RATED	351	60
QUOTEDS	RFA	DSCC45009T6	OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520M 6DT, PIM RATED	351	60
QUOTEDS	RFA	DSCOL41058	OMNI, MEANDER COLLINEAR, 9DBD, 380-400MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL41065	OMNI, MEANDER COLLINEAR, 9DBD, 400-420MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL41066	OMNI, MEANDER COLLINEAR, 9DBD, 410-430MHZ, PIM RATED	351	40

QUOTEDS	RFA	DSCOL41070	OMNI. MEANDER COLLINEAR, 9 DBD, 450-470 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL41071	OMNI, MEANDER COLLINEAR, 9 DBD, 470-490 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL41072	OMNI. MEANDER COLLINEAR, 9 DBD, 490-520 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL4158	OMNI, MEANDER COLLINEAR, 0DBD, 380-400MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4165	OMNI, MEANDER COLLINEAR, 0DBD, 400-420MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4170	OMNI, MEANDER COLLINEAR, 0 DBD, 450-470 MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4171	OMNI, MEANDER COLLINEAR, 0 DBD, 470-490 MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4172	OMNI, MEANDER COLLINEAR, 0DBD, 490-520MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4358	OMNI, MEANDER COLLINEAR, 5DBD, 380-400MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4365	OMNI, MEANDER COLLINEAR, 5DBD, 400-420MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4366	OMNI, MEANDER COLLINEAR, 5DBD, 410-430MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4370	OMNI, MEANDER COLLINEAR, 5 DBD, 450-470 MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4372	OMNI, MEANDER COLLINEAR, 5 DBD, 490-520MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL4558	OMNI, MEANDER COLLINEAR,7 DBD, 380-400 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCOL4565	OMNI, MEANDER COLLINEAR, 7 DBD, 400-420 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL4566	OMNI, MEANDER COLLINEAR, 7DBD, 410-430MHZ, PIM RATED	351	30

QUOTEDS	RFA	DSCOL4570	OMNI, MEANDER COLLINEAR, 7 DBD, 450-470MHZ PIM RATED	351	30
QUOTEDS	RFA	DSCOL4571	OMNI, MEANDER COLLINEAR, 7 DBD, 470-490MHZ PIM RATED	351	330
QUOTEDS	RFA	DSCOL4572	OMNI, MEANDER COLLINEAR, 7 DBD, 490-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL7	VERTICAL COLLINEAR ANTENNA, 3DBD GAIN, 380-530MHZ, 4%BW	351	50
QUOTEDS	RFA	DSCOLBRACE65	STABILIZER ARM FOR COL45/410 ANTENNA SERIES	351	40
QUOTEDS	RFA	DSCSA1067DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 70 DEG BW, 406-512 MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSCSA2067DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCSA4067DIN	DIRECTIONAL DIPOLE ARRAY, 11 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	351	30
QUOTEDS	DBP	DSDS3A03L36UD	380-410MHZ OMNIDIRECTIONAL 2.9 DBD GAIN, LOW-PIM, DAS RATED ANTENNA	351	20
QUOTEDS	DBP	DSDS3A03P36DD	380-410 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	351	25
QUOTEDS	DBP	DSDS3A03P36T6D	3 DB GAIN TRIPLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	351	25
QUOTEDS	DBP	DSDS3A03P36TD	380-410 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	351	25
QUOTEDS	DBP	DSDS3A03P36UD	ANTENNA - 380-410MHZ, 3DB GAIN SINGLE OMNI, LOW PIM, HI PIP RATED	351	25
QUOTEDS	DBP	DSDS3A06P36DD	380-410MHZ, 6DB GAIN DUAL FEED OMNI DIRECTIONAL, LOW PIM, HI PIP RATED	351	30
QUOTEDS	DBJ	DSDS3A06P36U3D	380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	351	25
QUOTEDS	DBP	DSDS3A06P36UD	SINGLE 6 DB GAIN OMNI , 380-410 MHZ, DIN CONNECTOR PIM & PIP RATED	351	30

QUOTEDS	DBP	DSDS3A09P36U3D	380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/HI-PIP, DIN	351	25
QUOTEDS	DBP	DSDS3A09P36UD	380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	351	25
QUOTEDS	DBP	DSDS3X00L36UD	380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS,	351	25
QUOTEDS	DBP	DSDS3X00P36UD	380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	DBP	DSDS4A00P36DD	406-436 MHZ, DUAL ANTENNA, OMNIDIRECTIONAL, UNITY GAIN (0 DBD),	351	25
QUOTEDS	DBP	DSDS4A00P36UD	406-436MHZ UNITY GAIN OMNI ANTENNA, PIM AND PIP RATED WITH 7/16 DIN CO	351	25
QUOTEDS	DBP	DSDS4A03P36D6D	UHF DUAL ANTENNA, OMNI, LOW PIM, HI-PIP, 3DB, BEAM TILT 6 DEG	351	40
QUOTEDS	DBJ	DSDS4A03P36DD	406-430 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	351	25
QUOTEDS	DBJ	DSDS4A03P36TD	406-430 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	351	25
QUOTEDS	DBP	DSDS4A03P36U6D	406-436 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	351	25
QUOTEDS	DBP	DSDS4A03P36UD	406-436 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	DBP	DSDS4A06P36DD	406-420MHZ DUAL FEED OMNI ANTENNA,5.9DB,LOW-PIM, HI PIP,7/16 DIN	351	25
QUOTEDS	DBP	DSDS4A06P36UD	406-420MHZ OMNI ANTENNA, 6DB,LOW-PIM, HI PIP,7/16 DIN	351	25
QUOTEDS	DBJ	DSDS4A09P36UD	380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/H	351	25
QUOTEDS	DBJ	DSDS4D03P36DD	480-512 MHZ,3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA,	351	25
QUOTEDS	DBJ	DSDS4D03P36UD	480-512 MHZ,3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEGREE D	351	25

QUOTEDS	DBP	DSDS4D06P36DD	480-512MHZ 6DB GAIN DUAL FEED OMNI ANT, LOW PIM, HI PIP ANT	351	25
QUOTEDS	DBJ	DSDS4D06P36UD	480-512 MHZ,6 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA,	351	25
QUOTEDS	DBP	DSDS4E06P18UD	406-512MHZ, 6DB GAIN DIRECTIONAL PANEL ANTENNA, DIN	351	25
QUOTEDS	DBP	DSDS4E08P12UD	406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 8 DBD , 7/16 DIN	351	25
QUOTEDS	DBP	DSDS4E10P12UD	406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 10 DBD , 7/16 DIN	351	25
QUOTEDS	DBP	DSDS4F03P36DD	DS4F03P36D-D: DUAL,3DB GAIN LOW PIM,PIP,DIN	351	20
QUOTEDS	DBJ	DSDS4F03P36TD	450-470 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	351	25
QUOTEDS	DBP	DSDS4F03P36UD	OMNI,3DB GAIN LOW PIM,DIN	351	20
QUOTEDS	DBP	DSDS4F06P36DD	450-470MHZ DUAL FEED 5.9DB GAIN, LOW-PIM, PIP RATED ANT, DIN	351	20
QUOTEDS	DBP	DSDS4F06P36U6D	450-470MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	351	25
QUOTEDS	DBP	DSDS4F06P36UD	ANTENNA,6DBD OMNI,LOW-PIM,DIN	351	20
QUOTEDS	DBP	DSDS4F06P3IDD	450-470MHZ, DUAL FEED OMNI ,INVERTED, 6DB GAIN, LOW PIM,HI PIP, 7/16 D	351	25
QUOTEDS	DBP	DSDS4F06P3IUD	450-470 MHZ, UHF INVERTED ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN LOW-PIM/	351	25
QUOTEDS	DBP	DSDS4F08P36UD	450-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 8 DB GAIN,LOW-PIM/HI-PIP, D	351	25
QUOTEDS	DBP	DSDS4F09P36UD	450-470MHZ, SINGLE FEED OMNI ,9DB GAIN, LOW PIM,HI PIP, 7/16 DIN	351	25
QUOTEDS	DBP	DSDS4K06PP18UD	ANT 450-512MHZ, 5.8DB GAIN DIRECTIONAL PANEL, LOW-PIM/HI-PIP W DIN CON	351	30
QUOTEDS	DBP	DSDS4K07Y85UN	ANTENNA, YAGI, 450-512 MHZ	351	25

QUOTEDS	DBP	DSDS4K10PP65UD	450-512 MHZ,UHF ANTENNA-DIRECTIONAL PANEL, LOW PIM/HI-PIP, 9.7 DB GAIN	351	40
QUOTEDS	DBP	DSDS4X00L36UD	450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	351	25
QUOTEDS	DBP	DSDS4X00P36UD	450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	RFA	DSEA404067DIN	UHF ELLIPTICAL DIPOLE, BI-DIRECTINAL PAT, 2X 5 DBD ARRAY, 400-520MHZ	351	60
QUOTEDS	RFA	DSEA4067DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSEA8067DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD, 400-520 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSFSA1067DIN	DIRECTIONAL DIPOLE ARRAY 5DBD, 130 DEG BW, 406-512MHZ, PIM RATED	351	40
QUOTEDS	RFA	DSFSA2067DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 130 DEG BW, 406-512 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSFSA4067DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 132 DEG BW, 406-512 MHZ, PIM RATED	351	30
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	RFA	DSOA202067DIN	LOW PIM, 400-520MHZ, EXP DIPOLE, DUAL, OFFSET, 5/5DBD, DIN, 500W, 14LB	351	30
QUOTEDS	RFA	DSOA2057DIN	OFFSET, EXPOSED DIPOLE ARRARRAY, 5 DBD, 330-420 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA2067DIN	OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA4057DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 330-420 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSOA4067DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA4067DINT3	CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED	351	40

QUOTEDS	RFA	DSOA8067DIN	OFFSET, EXPOSED DIPOLE ARRAY, 11 DBD, 400-520 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA8067DINT3	OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	351	50
QUOTEDS	RFA	DSRDA662	YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 480-520MHZ, N FEMALE	351	40
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20
QUOTEDS	RFA	DSUC1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	351	20
QUOTEDS	RFA	DSUC114	ANTENNA CLAMP 60 TO 115MM	351	20
QUOTEDS	RFA	DSUC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	351	20
QUOTEDS	RFA	DSUC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	351	20
QUOTEDS	RFA	DSUC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	351	20
QUOTEDS	RFA	DSUCR1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUCR2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	351	20
QUOTEDS	RFA	DSYB0299	YAGI ANTENNA, 2 ELEMENT, 3DBD GAIN, 300-600MHZ 5% BW	351	30
QUOTEDS	RFA	DSYB0399	YAGI 3 ELEMENT, 6DBD, 350-600MHZ, 5%BW, N FEMALE	351	30
QUOTEDS	RFA	DSYB661	YAGI ELEMENT 9 DBD 450-480 MHZ N FEMALE	351	30

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

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Model

UHF Band Receiver Multicouplers

This page contains information from MSi preferred vendors, including RFI, DBSPECTRA, and TXRX.

If you want to use equipment from a non preferred vendor, you must go through the Exception Request process (see link to form below).

EXCEPTION REQUEST LINK

URL: https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For general ordering and vendor information, contact the product planner [Tim Martin](#).

For technical assistance contact the lead RF engineer, [Gary Owens](#).

For information on RFI products go to the [RFI website](#) or contact [Sean Johnson](#) at 330-541-6585.

For information on DBSPECTRA products, go to the [DBSPECTRA](#) portal or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (972 841-4893).

For information on TXRX products, go to the [TXRX](#) portal or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

TXRX TRAINING VIDEOS ON PRODUCTS AND SERVICES

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/receive-sensitivity-improvement-basics/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

RFI PARTS

Description	Full Description	Nomenclature	APC	
8 PORT ACTIVE QUADRATURE RECEIVER MULTICOUPLER, -48VDC, 200-550 MHZ	RFI PART#: RX3852-3408-31-48 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/RX3852-3408-31_P-41831-1.pdf	DSRX385234083148	457	\$3

TXRX AND COMBILENT PARTS

Description	Full Description	Nomenclature	APC	
MULTICOUPLER, 220-400 MHZ, RX, 16 PORTS, BNC CONNECTOR	TXRX PART#: 42-53-01 SPEC SHEET LINK: TBD	DS425301	457	:
MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR	TXRX PART#: 42-53-01-08 SPEC SHEET LINK: TBD	DS42530108	457	:
MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC	TXRX PART#: 42-53-01-08-48 SPEC SHEET LINK: TBD	DS4253010848	457	:
RX MULTICOUPLER, COMPACT, 380-520 MHZ, 16 PORT EMC	TXRX PART#: 42-57-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS425701	457	:
MULTICOUPLER RX COMPACT 380-520 MHZ 4 W 'N'	TXRX PART#: 42-57-01-04N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570104N	457	:
MULTICOUPLER RX COMPACT 380-520 MHZ	TXRX PART#: 42-57-01-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108	457	:
MULTICOUPLER,	TXRX PART#: 42-57-01-08-48 SPEC SHEET			

380-512 MHZ, RX, 8 PORTS, BNC CONNECTOR,-48VDC	LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS4257010848	457	:
MULTICOUPLER RX COMPACT 380-520 MHZ 8W N	TXRX PART#: 42-57-01-08N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N	457	:
MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, N CONNECTOR -48VDC	TXRX PART#: 42-57-01-08N-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N48	457	:
MULTICOUPLER, 380-512 MHZ, RX, 12 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-12N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570112N	457	:
MULTICOUPLER, 380-512 MHZ, RX, 16 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-16N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570116N	457	:
MULTICOUPLER, 380-512 MHZ, RX, 24 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-24N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570124N	457	:
QUAD RCVR MTCPLR 380-520 MHZ 16 PORT -48VDC	TXRX PART#: 42-57-02-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570248	457	:
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT	TXRX PART#: 42-57-03 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS425703	457	:
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT -48 VDC	TXRX PART#: 42-57-03-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570348	457	:
QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT	TXRX PART#: 42-57-04 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS425704	457	:

QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT -48 VDC	TXRX PART#: 42-57-04-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570448	457	:
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	TXRX PART#: 42-57D-05-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D0508	457	:
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	TXRX PART#: 42-57D-05-08-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D050848	457	:
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 110VAC	TXRX PART#: 42-U-05-1 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42U051	457	:
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 48VDC	TXRX PART#: 42-U-05-1-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42U05148	457	:
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 110VAC	TXRX PART#: 42-UU-05-2 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UU052	457	:
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 48VDC	TXRX PART#: 42-UU-05-2-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UU05248	457	:
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF 110VAC	TXRX PART#: 42-UUU-05-3 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUU053	457	:
RECEIVE MULTICOUPLER,	TXRX PART#: 42-UUU-05-3-48 SPEC SHEET			

TRIPLE PATH NETWORK UHF/UHF/UHF, 48VDC	LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUU05348	457	:
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF 110VAC	TXRX PART#: 42-UUUU-05-4 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUUU054	457	:
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF, 48VDC	TXRX PART#: 42-UUUU-05-4-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUUU05448	457	:
RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP00946 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00946	457	:
RMC 450 MHZ INCL. DUAL BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP00950 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00950	457	:
RMC UHF 420 MHZ RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP05444 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_Federal_DS18855_.pdf	DSCP05444	457	:

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	F
380-512MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA PART#: BCRMC08U SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/DSBCRMC08.pdf	DSBCRMC08U	457	\$6,
RMC06, 8 CH				

HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350- 512MHZ	DBSPECTRA PART#: DSRMC06-08BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608BA	457	\$3,
RMC06 8 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ, NO ALARM BOARD.	DBSPECTRA PART#: DSRMC0608BAN SPEC SHEET LINK: TBD	DSDSRMC0608BAN	457	\$2,
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-08BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608BD	457	\$4,
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350- 512MHZ	DBSPECTRA PART#: DSRMC0608BDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX _Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608BDN	457	\$2,
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350- 512MHZ	DBSPECTRA PART#: DSRMC06-16BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616BA	457	\$4,
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC0616BAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX _Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616BAN	457	\$3,
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-16BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/ 096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616BD	457	\$4,
RMC06 16 CH UNIVERSAL RMC SYSTEM,	DBSPECTRA PART#: DSRMC0616BDN SPEC SHEET LINK:	DSDSRMC0616BDN	457	\$3,

-48 VDC POWER, 350- 512MHZ	www.dbspectra.com/specifications/DSRMC06_RX _Multicoupler_096000-195_Rev_Gta.pdf			
380-512 MHZ, 16 CH RXMC , WITH PDU, WITH DIGITAL CURRENT METER,	DBSPECTRA PART#: DBSMCP116B41 SPEC SHEET LINK: <a href="http://www.dbspectra.com/specifications/DBSMCP
_Series.pdf">http://www.dbspectra.com/specifications/DBSMCP _Series.pdf	DSDBSMCP116B41	457	\$5,

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS425301	MULTICOUPLER, 220-400 MHZ, RX, 16 PORTS, BNC CONNECTOR	457	20
QUOTEDS	TXR	DS42530108	MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR	457	20
QUOTEDS	TXR	DS4253010848	MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC	457	20
QUOTEDS	TXR	DS425701	RX MULTICOUPLER, COMPACT, 380-520 MHZ, 16 PORT EMC	457	20
QUOTEDS	TXR	DS42570104N	MULTICOUPLER RX COMPACT 380-520 MHZ 4 W 'N'	457	20
QUOTEDS	TXR	DS42570108	MULTICOUPLER RX COMPACT 380-520 MHZ	457	20
QUOTEDS	TXR	DS4257010848	MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, BNC CONNECTOR,-48VDC	457	20
QUOTEDS	TXR	DS42570108N	MULTICOUPLER RX COMPACT 380-520 MHZ 8W N	457	20

QUOTEDS	TXR	DS42570108N48	MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, N CONNECTOR -48VDC	457	20
QUOTEDS	TXR	DS42570112N	MULTICOUPLER, 380-512 MHZ, RX, 12 PORTS, N CONNECTOR	457	20
QUOTEDS	TXR	DS42570116N	MULTICOUPLER, 380-512 MHZ, RX, 16 PORTS, N CONNECTOR	457	20
QUOTEDS	TXR	DS42570124N	MULTICOUPLER, 380-512 MHZ, RX, 24 PORTS, N CONNECTOR	457	20
QUOTEDS	TXR	DS42570248	QUAD RCVR MTCPLR 380-520 MHZ 16 PORT -48VDC	457	20
QUOTEDS	TXR	DS425703	QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT	457	20
QUOTEDS	TXR	DS42570348	QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT -48 VDC	457	20
QUOTEDS	TXR	DS425704	QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT	457	20
QUOTEDS	TXR	DS42570448	QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT -48 VDC	457	20
QUOTEDS	TXR	DS4257D0508	RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	457	20
QUOTEDS	TXR	DS4257D050848	RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	457	20
QUOTEDS	TXR	DS42U051	RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 110VAC	457	20
QUOTEDS	TXR	DS42U05148	RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 48VDC	457	20
QUOTEDS	TXR	DS42UU052	RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 110VAC	457	20
QUOTEDS	TXR	DS42UU05248	RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 48VDC	457	20

QUOTEDS	TXR	DS42UUU053	RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF 110VAC	457	20
QUOTEDS	TXR	DS42UUU05348	RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF, 48VDC	457	20
QUOTEDS	TXR	DS42UUUU054	RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF 110VAC	457	20
QUOTEDS	TXR	DS42UUUU05448	RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF, 48VDC	457	20
QUOTEDS	DBP	DSBCRMC08U	380-512MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	457	25
QUOTEDS	TXR	DSCP00946	RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	457	30
QUOTEDS	TXR	DSCP00950	RMC 450 MHZ INCL. DUAL BAND PRE-SELECTOR	457	30
QUOTEDS	TXR	DSCP05444	RMC UHF 420 MHZ RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	457	30
QUOTEDS	DBP	DSDBSMCP116B41	380-512 MHZ, 16 CH RXMC , WITH PDU, WITH DIGITAL CURRENT METER,	457	20
QUOTEDS	DBP	DSDSRMC0608BA	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608BAN	RMC06 8 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ, NO ALARM BOARD.	457	20
QUOTEDS	DBP	DSDSRMC0608BD	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608BDN	RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350-	457	20

			512MHZ		
QUOTEDS	DBP	DSDSRMC0616BA	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350- 512MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616BAN	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616BD	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350- 512MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616BDN	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350- 512MHZ	457	20
QUOTEDS	RFA	DSRX385234083148	8 PORT ACTIVE QUADRATURE RECEIVER MULTICOUPLER, -48VDC, 200-550 MHZ	457	20

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

UHF Duplexers

This page contains information from MSi preferred vendors, including DBSPECTRA, RFI, and TXRX.

If you want to use equipment from a non preferred vendor, you must go through the Exception Request process (see link to form below).

EXCEPTION REQUEST LINK

URL: https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzI0tA-wgtg/edit

Ordering Information

General Information

For general ordering and vendor information, contact the product planner [Tim Martin](#).

For technical assistance contact the lead RF engineer, [Gary Owens](#).

For information on RFI products go to the [RFI website](#) or contact [Sean Johnson](#) at sean.johnson@rfiamericas.com (330-541-6585).

For information on DBSPECTRA products, go to the [DBSPECTRA](#) portal or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (972 841-4893).

For information on TXRX products, go to the [TXRX](#) portal or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
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DUPLEXER SYSTEM, SINGLE CHANNEL, 450-470, TX WITH ISOLATORS	TXRX# - 26-70-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 456-469MHZ RX, 451-464MHZ TX, W/ ISOLATORS	TXRX# - 26-70-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700102	457	\$4,600.00
DUPLEXER SYSTEM, SINGLE CH, 386-419MHZ RX, 381-414MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 386-419 MHZ RX, 381-414 MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0102	457	\$4,600.00
DUPLEX01B-420 - DUAL CHANNEL DUPLEXER 420 MHZ	TXRX PART#: CP05445 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05445	457	\$5,750.00
DUPLEX01B-450 - DUAL CHANNEL DUPLEXER 450 MHZ	TXRX PART#: CP04491 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP04491	457	\$5,750.00
DUPLEX01B-480 - DUAL CHANNEL DUPLEXER	TXRX PART#: CP05446 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05446	457	\$5,750.00

480 MHZ				
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RFI PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER BANDPASS 380- 400MHZ, 5MHZ, BW, 5MHZ GB, 300W	RFI PART#: DP3840-0807-32 SPEC SHEET LINK: https://drive.google.com/file/d/1gGukQXF8oLRQclVZjHkrei4AFCIbcqAT/view	DSDP3840080732	351	\$3,415.00
DUPLEXER BANDPASS, 450- 470MHZ, 110W, 1.5MHZ BW	RFI PART#: DP4547-0811-32 SPEC SHEET LINK: TBD	DSDP4547081132	457	\$3,752.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC
DUPLEXER, 370-410MHZ BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-380 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404380	457
406-420MHZ DUPLEXER, BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404406	457
DSD404-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 3MHZ OR 5MHZ	DBSPECTRA # - DSD404-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404450	457
470-512MHZ DUPLEXER	DBSPECTRA # - DSD404-470 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404470	457
370-410MHZ DUPLEXER	DBSPECTRA # - DSD406-380 SPEC SHEET LINK:	DSDSD406380	457


ASSEMBLY	http://www.dbspectra.com/specifications/DSD404.pdf		
370-470MHZ DUPLEXER	DBSPECTRA # - DSD406-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406406	457
DSD406-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 5MHZ SEP	DBSPECTRA # - DSD406-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406450	457
UHF 450-512 MHZ MOBILE DUPLEXER TUNED	DBSPECTRA # - DSD406M SPEC SHEET LINK: www.dbspectra.com/specifications/VHF-UHF_DSD106M_DSD406M.pdf	DSDSD406M	457
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBPSECTRA # - BCDUP01BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01BA	457
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA # - BCDUP01AA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01AA	457
2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	DBSPECTRA # - BCDUP01BRCKT SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01BRCKT	457
450-470MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA PART#: BCDUP02BA SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02BA	457
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA PART#: BCDUP01BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197.A_(DSBCDUP01_02).pdf	DSBCDUP01BD	457
470-512MHZ, SINGLE CH DUPLEX SYSTEM AC POWER	DBSPECTRA PART#: BCDUP02CA SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02CA	457

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2656C0101	DUPLEXER SYSTEM, SINGLE CH, 386-419MHZ RX, 381-414MHZ TX, W/ ISOLATORS	457	15
QUOTEDS	TXR	DS2656C0102	DUPLEXER SYSTEM, TWO CH, 386-419 MHZ RX, 381-414 MHZ TX, W/ ISOLATORS	457	15
QUOTEDS	TXR	DS26700101	DUPLEXER SYSTEM, SINGLE CHANNEL, 450-470, TX WITH ISOLATORS	457	15
QUOTEDS	TXR	DS26700102	DUPLEXER SYSTEM, TWO CH, 456-469MHZ RX, 451-464MHZ TX, W/ ISOLATORS	457	15
QUOTEDS	DBP	DSBCDUP01AA	380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	457	20
QUOTEDS	DBP	DSBCDUP01BA	450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	457	20
QUOTEDS	DBP	DSBCDUP01BD	450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	457	20
QUOTEDS	DBP	DSBCDUP01BRCKT	2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	457	25
QUOTEDS	DBP	DSBCDUP02BA	450-470MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	457	20
QUOTEDS	DBP	DSBCDUP02CA	470-512MHZ, SINGLE CH DUPLEX SYSTEM AC POWER	457	20

QUOTEDS	CBN	DSCP01010	DUPLEXER 02B 1 CHANNEL UHF	457	30
QUOTEDS	TXR	DSCP04491	DUPLEX01B-450 - DUAL CHANNEL DUPLEXER 450 MHZ	457	30
QUOTEDS	TXR	DSCP05445	DUPLEX01B-420 - DUAL CHANNEL DUPLEXER 420 MHZ	457	30
QUOTEDS	TXR	DSCP05446	DUPLEX01B-480 - DUAL CHANNEL DUPLEXER 480 MHZ	457	30
QUOTEDS	COB	DSCP10725TUNED	UHF MOBILE DUPLEXER 406-500 MHZ	457	30
QUOTEDS	COB	DSCP10725UNTUNED	UHF MOBILE DUPLEXER 406-500 MHZ	457	30
QUOTEDS	RFA	DSDP3840080732	DUPLEXER BANDPASS 380- 400MHZ, 5MHZ, BW, 5MHZ GB, 300W	351	40
QUOTEDS	RFA	DSDP4547081132	DUPLEXER BANDPASS, 450- 470MHZ, 110W, 1.5MHZ BW	457	40
QUOTEDS	DBP	DSDSD404380	DUPLEXER, 370-410MHZ BANDPASS/BANDREJECT	457	25
QUOTEDS	DBP	DSDSD404406	406-420MHZ DUPLEXER, BANDPASS/BANDREJECT	457	25
QUOTEDS	DBP	DSDSD404450	DSD404-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 3MHZ OR 5MHZ	457	25
QUOTEDS	DBP	DSDSD404470	470-512MHZ DUPLEXER	457	25
QUOTEDS	DBP	DSDSD406380	370-410MHZ DUPLEXER ASSEMBLY	457	25
QUOTEDS	DBP	DSDSD406406	370-470MHZ DUPLEXER	457	25
QUOTEDS	DBP	DSDSD406450	DSD406-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 5MHZ SEP	457	25
QUOTEDS	DBP	DSDSD406M	UHF 450-512 MHZ MOBILE DUPLEXER TUNED	457	20



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JUMP TO ...

MODEL

ORDERING INFORMATION

CONFIGURATION

SHIP CARD

MODEL

UHF CONTROL STATION ANTENNAS

This page contains parts information for MSI preferred vendors including Alive Telecom, Amphenol Procom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

ORDERING INFORMATION

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Alive Telecom product information go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com (708-603-6836).

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com (815-218-8000).

For RFI product information, go to the RFI [website](#), or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL PROCOM ANTENNA PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

ALIVE TELECOM ANTENNA PARTS GUIDE - This document is a decoder for Alive Antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 3 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GC4V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC4V40.pdf	DSATCGC4VOD7	351	\$1,150.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00

PANEL ANTENNA, 450-512 MHZ, 6 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-4165 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-4165-2.pdf	DSATC4165	351	\$345.00
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AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 380-430 MHZ	AMPHENOL PART#: CXL70-1LW/I. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw	DSCXL701LWL	351	\$152.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 460-510 MHZ	AMPHENOL PART#: CXL70-1LW/hs. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw	DSCXL701LWHS	351	\$152.00
COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	AMPHENOL PART#: CXL 2/70C SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/446-cxl-2-70c?generate=1	DSCXL270C	351	\$545.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 420-470 MHZ	AMPHENOL, PART#: CXL 70-1LW/H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw?generate=1	DSCXL701LWH	351	\$152.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4C00CS36UN	351	\$1,006.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4C03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4C03CS36UN	351	\$1,811.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS3A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3A00CS36UN	351	\$1,122.00
380-410MHZ, UHF CONTROL STATION ANT 3 DBD GAIN, N-TYPE CONNECTOR	DBSPECTRA# DS3A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3A03CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4A00CS36UN	351	\$1,121.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4A03CS36UN	351	\$1,926.00

UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4D00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4D00CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4D03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4D03CS36UN	351	\$1,926.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS3A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS3A03CS36DN	351	\$2,859.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS4A03CS36DN	351	\$2,858.00
425-455MHZ 3 DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS4B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS4B03CS36DN	351	\$2,858.00
UHF CS ANTENNA 2.9DBD	DBSPECTRA PART#: DS4C03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS4C03CS36DN	351	\$2,858.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4D03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS4D03CS36DN	351	\$2,858.00
440-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4H03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4x03CS36DN.pdf	DSDS4H03CS36DN	351	\$2,858.00
340-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3X00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS3X00CS36DN	351	\$1,949.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS3A00CS36DN	351	\$1,903.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS4A00CS36DN	351	\$1,903.00
450-482 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4C00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS4C00CS36DN	351	\$1,903.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4D00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS4D00CS36DN	351	\$1,903.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 220 DEG BW, 400-520 MHZ	RFI# SMD4-67-U CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-7-83.pdf	DSSMD467U	351	\$243.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 450-520 MHZ	RFI# COD4-4552 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/05/COD4-4047-4552-P-43214-1.pdf	DSCOD44552	351	\$518.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 400-470 MHZ	RFI# COD4-4047 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/COD4-4047.pdf	DSCOD44047	351	\$517.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 380-470 MHZ	RFI PART#: COD4-3847 SPEC SHEET LINK: https://drive.google.com/file/d/1HMy5RIHx2CTLcgx31Wr5rS6mew6Xwctu/view	DSCOD43847	351	\$518.00

STI-CO TRI BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	STI CO PART#: IOAK-TB-V/U/C	DSIOAKTBVUC	291	\$2,172.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ALO	DSAGC4VO1D7	COLLINEAR OMNI ANTENNA, 450-470 MHZ, 6.3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSAGC4VO2D7	COLLINEAR OMNI ANTENNA, 450-470 MHZ, 6.3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATC4I65	PANEL ANTENNA, 450-512 MHZ, 6 DBD, N-FEMALE, MOUNT INCLUDED	351	30
QUOTEDS	ALO	DSATC4I65D7	PANEL ANTENNA, 450-512 MHZ, 6 DBD, 7-16 DIN FEMALE, MOUNT INCLUDED	351	30
QUOTEDS	ALO	DSATCGC3V4OD7	COLLINEAR OMNI ANTENNA, 6 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGC4V2O1D7	COLLINEAR OMNI ANTENNA, 3 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGC4VO1D7	COLLINEAR OMNI ANTENNA, 450-470 MHZ, 6.3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGC4VO2D7	COLLINEAR OMNI ANTENNA, 470-490 MHZ, 6.3DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGC4VOD7	COLLINEAR OMNI ANTENNA, 3 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30

QUOTEDS	ALO	DSATCGD4V2CD7	DIPOLE ANTENNA, OFFSET, 5 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE, HD	351	30
QUOTEDS	ALO	DSATCGD4V2OD7	EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 3 DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD4V4CD7	DIPOLE ANTENNA, OFFSET, 9 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD4V4OD7	EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 6 DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD4V8CD7	DIPOLE ANTENNA, OFFSET, 11 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD4V8OD7	EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 9 DBD, 7-16 DIN FEMALE	351	30
QUOTEDS	RFA	DSCOD43847	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 380-470 MHZ	351	15
QUOTEDS	RFA	DSCOD44047	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 400-470 MHZ	351	15
QUOTEDS	RFA	DSCOD44552	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 450-520 MHZ	351	40
QUOTEDS	APP	DSCXL270C	COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	351	30
QUOTEDS	APP	DSCXL701LWH	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 420-470 MHZ	351	30
QUOTEDS	APP	DSCXL701LWHS	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 460-510 MHZ	351	30
QUOTEDS	APP	DSCXL701LWL	OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 380-430 MHZ	351	30
QUOTEDS	DBJ	DSDS3A00CS36DN	380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS3A00CS36UN	UHF CONTROL STATION ANTENNA, UNITY	351	25
QUOTEDS	DBP	DSDS3A03CS36DN	380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS3A03CS36UN	380-410MHZ, UHF CONTROL STATION ANT 3 DBD GAIN, N-TYPE CONNECTOR	351	20
QUOTEDS	DBJ	DSDS3X00CS36DN	340-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBJ	DSDS4A00CS36DN	406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS4A00CS36UN	UHF CONTROL STATION ANTENNA, UNITY	351	25
QUOTEDS	DBP	DSDS4A03CS36DN	406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS4A03CS36UN	UHF CONTROL STATION ANTENNA, 3 DBD	351	25
QUOTEDS	DBP	DSDS4B03CS36DN	425-455MHZ 3 DB GAIN DUAL FEED CONTROL STATION	351	25

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QUOTEDS	DBJ	DSDS4C00CS36DN	450-482 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS4C00CS36UN	UHF CONTROL STATION ANTENNA, UNITY	351	25
QUOTEDS	DBP	DSDS4C03CS36DN	UHF CS ANTENNA 2.9DBD	351	20
QUOTEDS	DBP	DSDS4C03CS36UN	UHF CONTROL STATION ANTENNA, 3 DBD	351	25
QUOTEDS	DBJ	DSDS4D00CS36DN	480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS4D00CS36UN	UHF CONTROL STATION ANTENNA, UNITY	351	25
QUOTEDS	DBJ	DSDS4D03CS36DN	480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	DBP	DSDS4D03CS36UN	UHF CONTROL STATION ANTENNA, 3 DBD	351	20
QUOTEDS	DBJ	DSDS4H03CS36DN	440-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	351	25
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	ALO	DSPLMKIT	ANTENNA POLE MOUNT KIT	351	30
QUOTEDS	ALO	DSPLMKIT1	POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	351	15
QUOTEDS	RFA	DSSMD467U	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 220 DEG BW, 400-520 MHZ	351	30

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

UNINTERRUPTIBLE POWER SUPPLIES (UPS)

Ordering Information

General Information

Configuration

Models

On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Rackmount

Description	Full Description	Nomenclature	APC	Price
UPS, 9PX, 1800W, 120V, SOFTWIRED, 30 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR18001030S	207	\$4,199.00
UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR1800N008S	207	\$2,963.00
UPS, GXT RACKMOUNT 1000VA/900W, 7 MIN	Liebert GXT4. Includes two post rail mounting kit and two year depot	DSGXTR0900N007	207	\$1,320.00

RUNTIME 120V SOFTWIRED	warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.			
UPS, 9PX, 2700W, 120V, SOFTWIRED, 43 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27002043S	207	\$7,324.00
UPS, 9PX, 2700W, 120V, SOFTWIRED, 23 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27001023S	207	\$6,088.00
UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED	Liebert GXT4, Hardwired input and output. Includes two post rail mounting kit and two year depot warranty.	DSGXTR9000N005HW	207	\$13,510.00
UPS, GXT RACKMOUNT 1500VA/1350W, 6 MIN RUNTIME, 120V	Liebert GXT4. Includes two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR1350N006	207	\$1,666.00
UPS, GXT RACKMOUNT 2KVA/1.8KW, 120/120V, 20 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-20P plug, (6) NEMA 5-20 T Slot receptacles.	DSGXTR18001020	207	\$2,982.00

UPS, GXT RACKMOUNT 1000VA/900W,38 MIN RUNTIME 120V SOFTWIRED	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR09001038	207	\$2,166.00
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 20 MIN RUNTIME RACK MOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty.	DS9PXXR45001020H	207	\$10,852.00

On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Tower

Description	Full Description	Nomenclature	APC	Price
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 3 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty.	DS9PXXT4500N003H	207	\$7,830.00
UPS, GXT TOWER 500VA/450W, 120/120V, 92 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT04501092	207	\$1,388.00
UPS, GXT TOWER 1000VA/900W, 120V, 7 MIN RUNTIME SOFTWIRED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT0900N007	207	\$1,254.00
UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXT1800N008S	207	\$2,812.00

UPS, GXT TOWER 1500VA/1350W, 120V, 6 MINUTE RUNTIME, 120/120V, SOFTWARE	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT1350N006	207	\$1,564.00
UPS, GXT TOWER 500VA/450W, 17 MINUTE RUNTIME 120/120V SOFTWARED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles	DSGXTT0450N017	207	\$710.00

On-line double conversion, single phase scalable hardwired UPS

Description	Full Description	Nomenclature	APC	Price
UPS, 9170 12KVA/10KW, 16 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917010D4N0016	207	\$27,429.00
UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 7 MIN RUN AT FULL	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch, internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4200070512	207	\$33,730.00
UPS, 9170 9KVA/7.5KW, 27 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917007D4N0027	207	\$25,302.00
	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch,			

UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 5 MIN RUN AT FULL	internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4150050312	207	\$25,397.00
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Replacement Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY MODULE FOR LIEBERT NFINITY UPS	-	DSBATTERYMOD	207	\$766.00
BATTERY MODULE FOR 1 SLOT, 9170+ UPS (INCLUDES 2 BATTERY MODULES)	-	DS9170MBATTMODULES	207	\$1,368.00
BATTERY STRING FOR LIEBERT APS UPS (CONSISTING OF TWO BATTERIES)	-	DSAPSBATTERYSTRG	207	\$1,880.00

JUMP TO ...

[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE & SERVICES](#)

Model



NEN 2500 - VENDETTA

Ordering Information

General Information

YOUR MISSION KNOWS NO BOUNDARIES, YOUR EQUIPMENT SHOULD NOT EITHER

The **NEN 2500 - VENDETTA SDR** is a highly capable, secure Software Defined Radio (SDR) with built-in power amplifiers, receiver circuitry, and an integrated front end. It is a rapidly deployable dual carrier Base-Transceiver-Station (BTS) which provides the **technical agility** to process a variety of radio technologies from GSM to LTE with a single, compact piece of hardware.

Purpose-built solution. With its rugged chassis and IP67 certification, the NEN 2500 - VENDETTA SDR sets a new standard in SWaP without compromising performance. NEN 2500 - VENDETTA is ideal for maritime use.

Portable and compact solution. Weighing in at 16.4 lbs without fans and 19.8 lbs with fans, the NEN 2500 - VENDETTA SDR is light enough to be transported and rapidly-deployed at the targeted environment. The NEN 2500 - VENDETTA SDR ideally suited for manned aerial vehicle, marine vehicle, vehicular, and man-portable missions.

Features

- Gigabit Ethernet and Wi-Fi for command and control
- Status LEDs

- Power
 - Ethernet Link
 - Health
 - TX on/off
- RX Antenna (survey/High-Band/Low-Band)
 - TX Antenna (survey/High-Band/Low-Band)
 - Four port auxiliary RF (generic RX/TX)
 - DC Power (+9 to +36 VDC) with remote on/off
 - Single Cell Power Consumption 170W (typical)
 - Dual Cell Power Consumption <300W (typical), 350W (max)
 - eSATA port
 - Supported Bands
 - Tunable from 730 MHz thru 2 GHz (amplified); 70 MHz thru 6 GHz (unamplified)
 - 56 MHz instantaneous bandwidth per transceiver
- Freescale i.MX6 Quad-Core processor @1.0 GHz/core
 - Xilinx Virtex-7 VX485T-2
 - Size (with fans): 18.1"x 10.1"x 2.7" Weight: 19.8lbs
 - Size (without fans): 14.9"x 10.1"x 2.7" Weight: 16.4lbs

SUPPORTED APPLICATIONS

- Rapidly Deployable Base Station : LTE-FDD, UMTS, DUAL CELL GSM, Dual Cell CDMA2K
- RF spectrum record and playback : LTE-FDD, UMTS, GSM, CDMA2K
- TACTICAL LTE Network

CUSTOM APPLICATIONS AVAILABLE upon request

TARGET ENVIRONMENTS

- MANNED AERIAL VEHICLE
- VEHICULAR
- MARINE VEHICULE
- MAN PORTABLE
- FIXED SITE

Ordering Requirements

For ordering information please send an email to: BuyAT@MotorolaSolutions.com.

Configuration

Main Models

Description	Nomenclature	Price
VENDETTA RDBS Kit	FDKT00230	\$96,200

The NEN 2500 - VENDETTA unit consists of an advanced, state-of-the-art, small-form-factor Software Defined Radio, utilizing modern embedded microprocessor and FPGA technology suitable to handle complex radio applications in the 70-3000 MHz spectrum. Each NEN 2500 - VENDETTA kit provides the user with the following:

- (1) NEN 2500 - VENDETTA SDR unit
- (1) +9 to +36 VDC power brick with customer power cable
- (1) eSATA cable
- (1) Custom IP67 10/100/1000 Ethernet cable (RJ45)
- (1) GPS Magnetic Mount Antenna
- (1) Wi-Fi Magnetic Mount Antenna

Additional components in the NEN 2500 - VENDETTA SDR

- (1) Custom Auxiliary RF cable for use with (4) auxiliary RF ports(generic RX/TX)
- (1) CD containing the following applications w/ associated documentation: RF Recorder and HW Test Utilities

Additional components in the NEN 2500 - VENDETTA RDBS

- (1) RF to SMA Cable
- (3) Wide Band Antennas, 698-2500MHz (survey/RX/TX)
- (2) 10' Megaphase RF Cable
- (2) 20' Megaphase RF Cable
- (4) Adapter, SMA to N Plug
- (4) Adapter, SMA to N Jack
- (1) Ruggedized Laptop OR Ruggedized Tablet

One (1) CD containing the Rapidly Deployable Base Station software

NEN 2500 - VENDETTA SDR Product description: The RF Recorder application provides the end user with a capability to view and record RF spectrum. It provides an easy to use graphical interface that allows the user to select the center frequency and bandwidth of interest and save the captured digital base-band I/Q data. It also allows the user to play back saved files for later analysis.

NEN 2500 - VENDETTA RDBS Product description: The Rapidly Deployable Base Station provides the end user with a capability to rapidly deploy a fully integrated secure, multi-technology Cellular BTS solution. It provides an easy to use graphical interface that allows the user to select the BTS type / technology of interest and configure the BTS as needed using the

antennas provided.

Software & Services

Warranty

LIMITED WARRANTY

Motorola warrants the Product against significant defects in material and workmanship under normal use and service for a period of sixty (60) calendar days from the date of shipment from Motorola. Motorola, at its option, will at no charge, either repair the Product (with new or reconditioned parts), replace it with the same or equivalent Product (using new or reconditioned Product), or refund the purchase price of the Product for significant defects identified during the warranty period provided Motorola is notified of such significant defects no later than 14 calendar days after the expiration of the warranty period according to the terms of this warranty. Repaired or replaced Product is warranted for the balance of the original applicable warranty period. All replaced parts of the Product shall become the property of Motorola.

This warranty sets forth the full extent of Motorola's responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola's option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MOTOROLA BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR LOST SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

VERINT MEDIA RECORDER FOR PUBLIC SAFETY V5 - End of Sale (April 2019)

VERINT RECORDING FOR PUBLIC SAFETY V15.2 (FOR 7.17 OR LATER)

Audiolog 5000 series hardware not supported in A7.17 or later releases

Ordering Information

General Information

SERVICES ARE NOT INCLUDED IN THE MODELS BELOW. PRICE PAGE FOR **BUDGETARY QUOTES ONLY**

Verint Media Recorder for Public Safety is an advanced, digital multimedia recording, retrieval, and quality assurance solution designed to enhance the performance of public safety answering points (PSAPs), command and control centers, homeland security, transportation operations centers, correctional facilities, and emergency communication centers. It offers superior reliability in mission-critical environments, along with flexible, easy-to-use functionality that can help your organization meet the demands of Next Gen 9-1-1 and other evolving communications challenges by:

- Capturing audio, video, text, screen data, telematics, photos, and related data, such as telephone numbers and location, from a variety of sources
- Live monitoring of PSAP interactions to help ensure adherence to policies and procedures
- Reconstructing incident scenarios to understand the chain of events
- Protecting captured interactions from unauthorized access and tampering
- Evaluating and enhancing call taker, dispatcher, and manager performance
- Documenting and reporting results efficiently

The Verint solution set offers a broad range of functionality, including:

- **Robust Secure Architecture** - Verint Recorder for Public Safety is designed for use both as a stand-alone recorder/playback unit and as a specialized recording server within a networked environment. To promote superior reliability and availability and cost-effective operation, Verint Recorder for Public Safety is built on an open architecture and uses standard PC components, the Microsoft Windows platform, and the Microsoft SQL database.
- **Easy Upgrades** - The Verint Logging Solution does not require upgrade at the same time as an ASTRO upgrade. The Verint logger will keep recording through the upgrade and can be upgraded at a time conveniently after.
- **Talkgroup Pricing** - Verint prices systems by talkgroup, not by talk path.
- **Multimedia Call and Screen Recording** - Verint Recorder for Public Safety provides full-time recording, selective recording, recording on demand, and dial-in recording across digital and analog telephones, trunked and conventional radio systems, telephone lines and trunks, IP phones, short message service (SMS), and PC screens. In addition to

recording interactions, Verint Recorder for Public Safety can tag them with information from radio, ANI/ALI, CTI ICCS, CAD, SMS, and GIS systems to facilitate incident reconstruction.

- **Secure Storage and Retrieval** - Verint Recorder for Public Safety provides Insight Center, a powerful browser-based set of tools to search for and play recordings directly from the desktop. Captured interactions can be retrieved according to a wide variety of criteria, from date and time to caller ID, call taker name, DNIS, CAD incident number, radio ID, talkgroup or ANI/ALI. You can also reconstruct events and scenario by playing back multiple interactions simultaneously, all from a single workstation. Playback and monitoring rights help secure recordings from unauthorized access, and digital fingerprinting shows when a voice or radio recording has been tampered with. Optional AES-256 encryption protects voice and radio data. Audiolog can retain large volumes of calls online, as well as archive contacts to Blu-ray media, DVD-RAM, and network-based storage resources.
- **Quality Assurance Compliance** - Verint Recorder for Public Safety Interaction Quality is a quality assurance solution that simplifies the creation of evaluation forms and questions. Its intuitive, browser-based interaction assessment tool enables managers to play back and score calls easily, with only minimal training. A unique calibration feature can measure and compare quality evaluators' scores, showing how they deviate from averages or goals to foster more consistent scoring across your organization. Comprehensive reporting makes it easy to analyze the performance of call takers and managers.
- **Hardened RNI based solutions for Public Safety and Fed customers.**

The Verint audio portfolio is a certified solution for ASTRO versions 7.14 or later system releases. It can also be deployed with ASTRO versions 7.13 or earlier (see notes below), but on the CEN.

Ordering Requirements

Verint Recording for Public Safety V15.2 for 7.17 (or 7.17.3 for RNI deployments) or newer releases

The new Verint Recording for Public Safety V15.2 recorder delivers a significantly advanced architecture and feature set from the previous (original) V5 Media recorder. The Verint V5 recorder was formerly called the Trunked Logging Recorder (TLR).

Some enhancements include:

- Improved capacity and integration options
- Enhanced redundancy and resiliency options
- Better enterprise scalability
- New web based centralized system administration and monitor
- New web based Enterprise User Management
- Centralized database and search and replay application
- Same incident and quality mgmt. applications as used with the V5 Media Recorder

Specific features:

- Recording of up to 1000 channels per server
- Supports N+N and N+M failover options and various load balancing options
- 50+ adapters and 25+ telephony integrations and NG911 ready
- Windows 2016, SQL Server 2016

Verint Recording for Public Safety V15.2 requires 6000 series hardware. If the 6000 series hardware was originally sold with the V5 Media Recorder, the server will require component upgrades. Please see note below.

The Verint V5 and V15.2 Recorders require a Motorola Archiving Interface Server (AIS). The AIS model numbers can be found in **ECAT** under **Dispatch Solutions** in the **Motorola MCC 7500 Products** folder.

Key Information & Ordering Instructions:

Sales Support Process Includes

Verint Sales and Engineering resources are recommended to assist with the discovery and configuration process, and should be engaged to ensure proper design and sizing. Contacts are listed below and are available for discovery, conference calls, webinars, onsite demos, SOW's, and assistance with the procurement process as well as educational meetings with Motorola staff as requested. A Site Survey Questionnaire (SSQ) is required and can be found in the logging Wiki (link below) which contains the discovery questions that Verint needs to begin the quoting process. Step one to any successful sales process is to involve the appropriate channel manager. Quotes are available within 48 hours of a completed and finalized SSQ. Also, Verint must be engaged to provide a service and maintenance quotation for all equipment orders. ECAT models are for product only, services and maintenance must be quoted separately by Verint and ordered separately by the field team (equipment via COF, services via Tigers, maintenance via SLC).

Verint regional contacts are:

Bryan DeBarry - Account Manager - East (T3, T4)

bryan.debarry@verint.com

770-827-9640

Joe Mabbott - Strategic Account Manager - Feds (T1, T2, T5, Fed Gov't)

joe.mabbott@verint.com

847-344-3829

Matthew Varner - Director, Public Safety (T6, T7, T8, ROW)

matthew.varner@verint.com

512-656-9803

Solution Engineer

Larry Williston - Solutions Engineer

larry.williston@verint.com

203-893-3489

Verint Executive contacts are:

Clark Elmore - Public Safety Practice Leader

clark.elmore@verint.com

847-420-3840

Recorder Packages

Verint Recording for Public Safety V15.2 - Each recorder includes an Audiolog 6000-Series MAX-PRO/Quad-Core server, Intel-PRO/1000GT Dual Port Server Adapter, Server license for V15.2, Motorola P25 enabler, Mounting Rail Kits (4 Post), Insight Center license for replay (one per channel purchased), Internal Storage (up to 75,000 channel hours), dual Blu-ray backup drive, Software (Administrator, etc.). All specifications are subject to change.

General Notes:

1. The Verint V15.2 recorder is quoted by Verint.
2. The Verint solution is certified and hardened for use on the RNI starting with the ASTRO 7.14 release. Non-certified (supported & validated) configurations on CEN based deployments of one or more components is available as customer requirements dictate for pre-7.14 releases.
3. There is no additional charge for search and replay access. Incident Reconstruction software is bundled into the core package (Search & replay workstations are purchased separately).
4. Verint recorder specifics:
 1. Each Verint recorder requires an Archiving Interface Server (AIS)
 2. Verint recorders are priced/configured by talkgroup as opposed to talk path (V15.2 can be quoted as simultaneous calls)
 1. The Verint V15.2 recorder can support up to 650 simultaneous calls per recorder. When recording up to 650 simultaneous calls in one recorder a separate Data Center server is required.
 3. The Verint recorder is not generally used to record telephone inputs. If required, contact Verint to determine feasibility.
 4. If Encryption is required contact Verint for a quote for V15.2
7. UEM monitoring is not currently available for 7.15 or earlier releases. A firewall to the CEN will be required to port logging events outside for external monitoring.
 1. For 7.15 or earlier releases, Verint Audiolog Management Console application is

available for monitoring

2. For 7.16 or later releases, the UEM Toolkit can be used to allow monitoring of the Verint V5 logging recorder in the UEM. V15.2 support will be available in Q3 2019

8. CCSi staging for the solution is available and encouraged where possible.

9. SUA can be quoted by Verint. Solution does not include rack, KVM, UPS, or other environmental components.

10. Contact Verint for quoting of upgrades and expansions of existing systems. The Verint recorders and AIS are certified in Motorola's System Integration & Test (SIT) as part of the system release. The telephony solutions are not certified in ASTRO 25 releases.

11. Due to the size of the logging recorder(s), some customers may desire a cabinet for racking of the equipment. If mounting in a 2 post 19" rack, part number DDN9748A can be ordered. This is a black shelf.

Installation

1. Installation is ordered separately from the ECAT / DQ models. Verint cannot process the equipment order without the services PO (installation/training and maintenance).

2. Verint requests the PO for services / product 8 weeks prior to installation.

3. Equipment can be staged in CCSi, make sure that the Verint sales rep is aware of any staging requirements.

4. A trained Verint technician will install the recorder at the customer site. Installation occurs Monday-Friday 8-5 and includes:

1. Basic training

2. Rack and stack of hardware, installation, and testing

5. In North America, installation is coordinated through the appropriate Verint channel manager who will engage the proper resources to ensure a smooth installation. For geographies outside of North America, engage a Verint Executive contact above.

Warranty & Support

1. All Verint models in ECAT include 24x7 on-site 1st year warranty support.

2. Additional years of support must be ordered separately.

3. Verint requests remote access in order to provide optimal response.

4. Verint warranty starts at time of shipment. It is important to understand this and to work with Verint on any coverage that may be required to cover the delta between Verint shipment and system acceptance.

Upgrades & Expansion

1. Contact Verint for upgrade quotations. Verint does not require an upgrade of the logging recorder for releases 7.7 through 7.15. Verint does need to upgrade the thin client on the

AIS with each release.

2. Pre-7.14 systems can be migrated on the RNI, but additional installation fees may apply.
3. The Verint ASTRO recording system does not need to be upgraded at exactly the same time as the ASTRO release.

Fault Management

1. Verint recorders are not natively fault managed by the UEM. Verint recorders can be monitored via UEM if a customer has the UEM Toolkit for 7.16 or later releases. Please note that there is no NMO monitoring currently available, but it is planned for 2019.

Ordering Process

1. Motorola sales reps will forward the SSQ to Verint Presales
2. Verint presales will review the SSQ and assist in building the ECAT equipment list
3. Implementation services (installation and training) are ordered through iProcurement (formerly Tigers) and Verint will assist in building the SOW with the proper approved templates.
4. Service (Maintenance & Support) is available for order through SLC with a pre-approved SOW
5. DQ quoting process is available for special situations as needed

Lead Time

1. Verint published lead times are 8 weeks from the time the order is received by Verint.

Pricing Exceptions

1. Opportunities above \$500K require a P&L. Please contact Pricing and Profitability.
2. Opportunities \$500K or less require regional approval for all pricing exceptions.

Miscellaneous

1. KVM DSF1DC108H can be ordered. It is a Belkin 19" widescreen LCD rack console (only USB cable compatibility). USB KVM cables are DSF1D940106. The LCD drawer is 1 RU and 8 port KVM switch is 1 RU. The cable connects two PC's per cable. USB only, does not support PS/2 style.

Configuration

Base Verint Model

SERVICES ARE NOT INCLUDED IN ANY RECORDER PCAT MODEL NUMBERS.

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Description	Full Description	Nomenclature	APC	Price
VERINT V15 RECORDING SOLUTION	-	TT3610	229	\$0.00

Options - Primary

Description	Full Description	Nomenclature	APC	Price
VERINT RECORDER FOR USE ON 7.16 SYSTEMS	-	TT06078AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.17 SYSTEMS	-	TT06079AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06080AA	229	\$0.00
VERINT RECORDER FOR USE ON 2019.X SYSTEMS	-	TT06081AA	229	\$0.00
VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	TT06460AA	229	\$662.00
VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	TT06459AA	229	\$328.00
VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	TT06461AA	229	\$221.00
VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	TT06462AA	229	\$214.00
VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	TT06463AA	229	\$321.00
VERINT PUBLIC SAFETY N+N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	TT06464AA	229	\$158.00
VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	TT06465AA	229	\$158.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL				

ENCRYPT MGMT CHANNEL BASED	-	TT06466AA	229	\$164.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	TT06467AA	229	\$284.00
VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	TT06468AA	229	\$3,150.00
MSI RADIO P25 INTERFACE ENABLER	-	TT06469AA	229	\$20,160.00
PUBLIC SAFETY DOD HARDENING STIGS COMPLIANCE	-	TT06470AA	229	\$9,450.00
MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	TT06471AA	229	\$15,876.00
MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	TT06472AA	229	\$15,750.00
MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	TT06473AA	229	\$3,150.00

Accessories - Servers

Description	Full Description	Nomenclature	APC	Price
6000 PLATFORM STANDARD SERVER (SVR6KLE-STD)	-	DDN2909	229	\$10,104.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH1-CON-L0)	-	DDN2910	229	\$15,740.00
ADD ON MEDIA STORAGE 3X480GB SSD (RAID5, SSD-SD3R5)	-	DDN2911	229	\$2,484.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH2-CON-L0)	-	DDN2912	229	\$17,971.00
6000 PLATFORM CONSOLIDATED SERVER L1 (SVR6KH1-CON-L1)	-	DDN2913	229	\$18,943.00
6000 PLATFORM CONSOLIDATED SERVER	-	DDN2914	229	\$20,786.00

L1 (SVR6KH2-CON-L1)				
6000 PLATFORM RECORDER SERVER (SVR6KH1-REC)	-	DDN2915	229	\$12,850.00
6000 PLATFORM RECORDER SERVER (SVR6KH2-REC)	-	DDN2916	229	\$14,541.00
6000 PLATFORM DATA CENTER (SVR6KH1-DC)	-	DDN2917	229	\$18,891.00
6000 PLATFORM DATABASE SERVER (SVR6KH1-DB)	-	DDN2918	229	\$22,125.00
6000 PLATFORM APPLICATION SERVER (SVR6KH1-APP)	-	DDN2919	229	\$12,612.00

Accessories - Server Add Ons

Description	Full Description	Nomenclature	APC	Price
ADD ON MEDIA STORAGE 3X800GB SSD(RAID5, SSD-SD3R5)	-	DDN2920	229	\$4,234.00
ADD ON MEDIA STORAGE 3X1200GB SSD(RAID5, SSD-SD3R5)	-	DDN2921	229	\$6,521.00
ADD ON QUAD PORT INTEL I350-AE4 GBE I/O MODULE	-	DDN2922	229	\$948.00
ADD ON AUDIOCODES DP CARD DUAL SPAN PASSIVE (PCI-E)	-	DDN2923	229	\$7,344.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORTS (PCI-E)	-	DDN2924	229	\$4,439.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI-E)	-	DDN2925	229	\$7,484.00
ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI-E)	-	DDN2926	229	\$3,888.00
ADD ON AUDIOCODES NGX CARD 8				

DIGITAL PORTS (PCI-E)	-	DDN2927	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 8 ANALOG PORTS (PCI-E)	-	DDN2928	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORT (PCI)	-	DDN2929	229	\$4,458.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI)	-	DDN2930	229	\$6,834.00
ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI)	-	DDN2931	229	\$3,519.00
ADD ON 13 SLOT PCI EXPANSION CHASSIS FOR 6000 SERIES PLATFORM	-	DDN2932	229	\$7,085.00
ADD ON INTERNAL BLU-RAY DRIVE	-	DDN2933	229	\$335.00
ADD ON REMOTE MANAGEMENT MODULE	-	DDN2934	229	\$147.00
ADD ON RDX EXTERNAL DRIVE WITH 500GB CARTRIDGE	-	DDN2935	229	\$1,750.00
ADD ON DDR4 RDIMM 4GB 2100MT PER SEC	-	DDN2936	229	\$302.00

Accessories - OS / SQL

Description	Full Description	Nomenclature	APC	Price
WINDOWS SERVER 2012 R2 FOR EMBEDDED SYSTEMS	-	DDN2937	229	\$1,048.00
SQL SERVER 2012 R2 WITH 5 CALS	-	DDN2938	229	\$1,490.00

Accessories - Spares, HDD, etc.

Description	Full Description	Nomenclature	APC	Price

SPARE PARTS KIT FOR 6000 SERIES PLATFORM STD SVR (SVR6KLE-STD)	-	DDN2945	229	\$1,067.00
SPARE PARTS KIT 6000-SERIES CONSOLIDATED, RECORDER, APPL SVR, DC	-	DDN2946	229	\$2,402.00
HARD DISK - 240GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2947	229	\$456.00
HARD DISK - 480GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2948	229	\$827.00
HARD DISK - 800GB SSD SATA 6 GB PER SEC, 2.5-INCH	-	DDN2949	229	\$1,410.00
HARD DISK - 1200GB SSD SATA 6 GB PER SEC	-	DDN2950	229	\$2,173.00
INTEGRATED RAID MODULE RMS3CC080, 12GB PER S, 8 INTL PORT SAS SATA	-	DDN2951	229	\$1,540.00
INTEL SERVER RISER BOARD - A2UL8RISER	-	DDN2952	229	\$188.00
XONAR U3 MOBILE HEADPHONE AMP USB SOUNDCARD	-	DDN2953	229	\$175.00
SPARE FAN KIT REPLACEMENT 60X38MM FANS, HOT-SWAP CONNECTOR	-	DDN2954	229	\$175.00
SERVER BOARD SUPPORTING 2 INTEL XEON PROCESSOR E5-2600 V3 FAMILY	-	DDN2955	229	\$1,398.00
PCI EXPRESS HOST INTERFACE CARD FOR USE WITH PCI EXPAN CHASSIS	-	DDN2956	229	\$1,134.00
HARD DISK - 1TB DRIVE, 7200 SATA 3.5" EP	-	DDN2957	229	\$270.00
SATA SLIM-LINE OPTICAL DVD DRIVE AXXSATADVROM, SINGLE	-	DDN2958	229	\$166.00
2 POST RACK RAIL KIT FOR 6000 SERIES SERVERS	-	DDN2960	229	\$216.00

Accessories - Option Equivalents

Description	Full Description	Nomenclature	APC	Price
WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7449	877	\$50.00
WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	DDN2888	229	\$328.00
VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	DDN2889	229	\$662.00
VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	DDN2890	229	\$221.00
VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	DDN2891	229	\$214.00
VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	DDN2892	229	\$321.00
VERINT PUBLIC SAFETY N+N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	DDN2893	229	\$158.00
VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	DDN2894	229	\$158.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL ENCRYPT MGMT CHANNEL BASED	-	DDN2895	229	\$164.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	DDN2896	229	\$284.00
VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	DDN2897	229	\$3,150.00
MSI RADIO P25 INTERFACE ENABLER	-	DDN2898	229	\$20,160.00
PUBLIC SAFETY DOD HARDENING STIGS COMPLIANCE	-	DDN2899	229	\$9,450.00

MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	DDN2900	229	\$15,876.00
MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	DDN2901	229	\$15,750.00
MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	DDN2902	229	\$3,150.00

Replay Client

Description	Full Description	Nomenclature	APC	Price
Z2 G4 MINI WORKSTATION NON RETURNAB	-	TT3492	708	\$2,500.00

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

Model

VHF BAND ANTENNAS

This page contains parts information for MSI preferred vendors including Alive Telecom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Alive Telecom product information, go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com (708-603-6836).

For RFI product information, go to the RFI [website](#), or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972)-841-4893.

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

ALIVE TELECOM ANTENNA PARTS GUIDE - this document is a decoder for Alive antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V2O-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET INK: https://alivetele.com/wp-content/uploads/ATC-GD1V2O.pdf	DSATCGD1V2OD7	351	\$2,128.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT NOTE: Includes 2 Clamp Sets	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1 NOTE: Includes 3 Clamp Sets	DSPLMKIT1	351	\$160.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GC1V2O-2-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V2O-2-	DSATCGC1V2O2D7	351	\$978.00

	2.pdf			
EXPOSED DIPOLE ANTENNA, CARDIROID, 5DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V2C-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET INK: https://alivetele.com/wp-content/uploads/ATC-GD1V2C.pdf	DSATCGD1V2CD7	351	\$1,150.00
EXPOSED DIPOLE ANTENNA, CARDIROID, 9DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V4C-D7 NOTE: Mount Part Number DSPLMTKIT1 Required, ordered separately SPEC SHEET INK: https://alivetele.com/wp-content/uploads/ATC-GD1V4C.pdf	DSATCGD1V4CD7	351	\$2,415.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
OMNI QUAD EXPOSED DIPOLE ARRAY, 4 X 3 DBD, 400-520 MHZ, PIM RATED	RFI# BA40404040-67-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/12/BA-UHF-high-BA40404040-40945-1.pdf	DSBA40404067DIN	351	\$7,516.00
DUAL OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA4040-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA404041DIN	351	\$5,477.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA4041DIN	351	\$2,984.00
OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 136-174 MHZ, PIM RATED	RFI# BA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DIN	351	\$6,381.00
ANTENNA, SINGLE OMNI, EXPOSED DIPOLE, 136-174 MHZ, 6/6 DBD GAIN	RFI# BA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DINT3	351	\$6,381.00
VERTICAL COLLINEAR ANTENNA, 4.5DBD GAIN, 144-175MHZ, 4%BW	RFI PART#: COL4 SPEC SHEET LINK: spec sheet link	DSCOL4	351	\$1,059.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 130-140MHZ, PIM RATED	RFI# COL51-140 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51140	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 140-150MHZ, PIM RATED	RFI# COL51-150 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51150	351	\$2,234.00
OMNI, RUGGED MENDER COLLINEAR, 0 DBD, 150-160 MHZ, PIM RATED	RFI# COL51-160 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51160	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI# COL51-174 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51174	351	\$2,234.00
OMNI, MEANDER COLLINEAR, 4 DBD,	RFI# COL53-140 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL53_Series.pdf			

130-140 MHZ, PIM RATED	motorola.com/wp-content/uploads/2015/01/COL53_Series_US_4124-8-1_Released-4-March-13.pdf	DSCOL53140	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4 DBD, 140-150 MHZ, PIM RATED	RFI# COL53-150 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_4124-8-1_Released-4-March-13.pdf	DSCOL53150	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 4 DBD, 150-160 MHZ, PIM RATED	RFI# COL53-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_4124-8-1_Released-4-March-13.pdf	DSCOL53160	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 4DBD, 156-166MHZ, PIM RATED	RFI# COL53-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_4124-8-1_Released-4-March-13.pdf	DSCOL53166	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4 DBD, 160-174 MHZ, PIM RATED	RFI# COL53-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_4124-8-1_Released-4-March-13.pdf	DSCOL53174	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 145-155 MHZ, PIM RATED	RFI# COL54-155 FOR CLAMPS ORDER DSUC1143 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54155	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 150-160 MHZ, PIM RATED	RFI# COL54-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54160	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 156-166 MHZ, PIM RATED	RFI# COL54-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54166	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6 DBD, 162-174 MHZ, PIM RATED	RFI# COL54-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54174	351	\$2,454.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 64 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA10-41-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA1041DIN	351	\$2,510.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 62 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA20-41-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA2041DIN	351	\$4,553.00
ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY 2X5 DBD, 136-174 MHZ, PIM RATED	RFI# EA4040-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link -	DSEA404041DIN	351	\$5,112.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI# EA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA4041DIN	351	\$2,426.00

ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD 136-174 MHZ, PIM RATED	RFI# EA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA8041DIN	351	\$5,768.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# IS EA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA8041DINT3	351	\$5,769.00
DIRECTIONAL DIPOLE ARRAY, 5 DBD, 106 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA10-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA1041DIN	351	\$1,647.00
DIRECTIONAL DIPOLE ARRAY 7DBD, 108 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA2041DIN	351	\$3,633.00
OFFSET, EXPOSED DIPOLE ARRAY, 2 X 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA2020-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA202041DIN	351	\$3,982.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA2041DIN	351	\$1,891.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 136-174 MHZ, PIM RATED	RFI# OA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DIN	351	\$4,637.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# OA40-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DINT3	351	\$4,638.00
SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 175 DEG BW, 148-174 MHZ	RFI PART#: SMD20-41 SPEC SHEET LINK: spec sheet link	DSSMD2041	351	\$678.00
SIDE MOUNTED EXPOSED DIPOLE, 0DBD,228 DEG BW,130-150 MHZ	RFI PART#: SMD20-36 SPEC SHEET LINK: spec sheet link	DSSMD2036	351	\$664.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	RFI PART#: IA404040-41-67-DIN SPEC SHEET LINK: spec sheet link	DSIA4040404167DIN	351	\$8,865.00
YAGI, 2 ELEMENT 4 DBD, 100-250 MHZ, 6 MHZ BW, N FEMALE	RFI PART#: YH02D SPEC SHEET LINK: TBD	DSYH02D	351	\$368.00
YAGI, 3 ELEMENT 6 DBD, 100-250 MHZ, 9 MHZ BW, N FEMALE	RFI PART#: YH03 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20yagis.pdf	DSYH03	351	\$729.00
YAGI, 4 ELEMENT, 7DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH04 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20yagis.pdf	DSYH04	351	\$812.00

YAGI, 6 ELEMENT, 9DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH06 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20yagis.pdf	DSYH06	351	\$1,085.00
STABILIZER ARM FOR COL53/54 ANTENNA SERIES	RFI PART#: COLBRACE-76 SPEC SHEET LINK: TBD	DSCOLBRACE76	351	\$570.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, 8DEG DT, PIM RATED	RFI PART#: BA80-41-DIN-T8 SPEC SHEET LINK: TBD	DSBA8041DINT8	351	\$6,381.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E00P36UxD.pdf	DS1E00P36UD	351	\$2,082.00
	DBSPECTRA PART#: DS1E03P36U-D SPEC			

138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	SHEET LINK: www.dbspectra.com/specifications/DS1E03P36UxD.pdf	DSDS1E03P36UD	351	\$3,565.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F00P36UxD.pdf	DSDS1F00P36UD	351	\$1,980.00
150-164MHZ 3DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP ANT W/ 7/16 DIN C	DBSPECTRA PART#: DS1F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36UxD.pdf	DSDS1F03P36UD	351	\$3,450.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36UxD.pdf	DSDS1F06P36UD	351	\$4,692.00
160-174MHZ UNITY GAIN ANTENNA, LOW PIM, HI PIP ANT W/ 7/16 DIN CONNECT	DBSPECTRA PART#: DS1G00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G00P36UxD.pdf	DSDS1G00P36UD	351	\$1,837.00
160-174MHZ 3DB GAIN OMNI ANTENNA, LOW PIM, HI PIP RATED DIN CONNECTOR	DBSPECTRA PART#: DS1G03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G03P36UxD.pdf	DSDS1G03P36UD	351	\$3,335.00
ANTENNA, OMNI, PIM/PIP, 2.9DBD DUAL	DBSPECTRA PART#: DS1F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36DxD.pdf	DSDS1F03P36DD	351	\$5,146.00

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ALO	DSATCGC1V2O2D7	COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGD1V2CD7	EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V2OD7	EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V4CD7	EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V4OD7	EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	RFA	DSBA40404067DIN	OMNI QUAD EXPOSED DIPOLE ARRAY, 4 X 3 DBD, 400-520 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSBA404041DIN	DUAL OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA4041DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ,	351	30

			PIM RATED		
QUOTEDS	RFA	DSBA8041DIN	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 136-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSBA8041DINT3	ANTENNA, SINGLE OMNI, EXPOSED DIPOLE, 136-174 MHZ, 6/6 DBD GAIN	351	40
QUOTEDS	RFA	DSBA8041DINT8	OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, 8DEG DT, PIM RATED	351	40
QUOTEDS	RFA	DSCOL4	VERTICAL COLLINEAR ANTENNA, 4.5DBD GAIN, 144-175MHZ, 4%BW	351	40
QUOTEDS	RFA	DSCOL51140	OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 130-140MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL51150	OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 140-150MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL51160	OMNI, RUGGED MENDER COLLINEAR, 0 DBD, 150-160 MHZ, PIM RATED	351	20
QUOTEDS	RFA	DSCOL51174	OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSCOL53140	OMNI, MEANDER COLLINEAR, 4 DBD, 130-140 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL53150	OMNI, MEANDER COLLINEAR, 4 DBD, 140-150 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL53160	OMNI, MEANDER COLLINEAR, 4 DBD, 150-160 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL53166	OMNI, MEANDER COLLINEAR, 4DBD, 156-166MHZ, PIM RATED	351	50
QUOTEDS	RFA	DSCOL53174	OMNI, MEANDER COLLINEAR, 4 DBD, 160-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL54155	OMNI, MEANDER COLLINEAR, 6.0 DBD, 145-155 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSCOL54160	OMNI, MEANDER COLLINEAR, 6.0 DBD, 150-160 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL54166	OMNI, MEANDER COLLINEAR, 6.0 DBD, 156-166 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOL54174	OMNI, MEANDER COLLINEAR, 6 DBD, 162-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCOLBRACE76	STABILIZER ARM FOR COL53/54 ANTENNA SERIES	351	40
QUOTEDS	RFA	DSCSA1041DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 64 DEG BW, 148-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSCSA2041DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 62 DEG BW, 148-174 MHZ, PIM RATED	351	30
QUOTEDS	DBP	DSDS1E00P36UD	138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	351	25

QUOTEDS	DBP	DSDS1E03P36DD	140-150 MHZ, 3 DBD GAIN,VHF DUAL OMNI ANTENNA, LOW PIM/HI-PIP, DIN	351	25
QUOTEDS	DBP	DSDS1E03P36UD	138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	DBP	DSDS1F00P36UD	150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	DBP	DSDS1F03P36DD	ANTENNA, OMNI, PIM/PIP, 2.9DBD DUAL	351	25
QUOTEDS	DBP	DSDS1F03P36UD	150-164MHZ 3DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP ANT W/ 7/16 DIN C	351	25
QUOTEDS	DBP	DSDS1F06P36UD	150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	351	25
QUOTEDS	DBP	DSDS1G00P36UD	160-174MHZ UNITY GAIN ANTENNA, LOW PIM, HI PIP ANT W/ 7/16 DIN CONNECT	351	25
QUOTEDS	DBP	DSDS1G03P36UD	160-174MHZ 3DB GAIN OMNI ANTENNA, LOW PIM, HI PIP RATED DIN CONNECTOR	351	25
QUOTEDS	RFA	DSEA404041DIN	ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY 2X5 DBD, 136-174 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSEA4041DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 136- 174 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSEA8041DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD 136-174 MHZ, PIM RATED	351	60
QUOTEDS	RFA	DSEA8041DINT3	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136- 174MHZ, 3DEG DT, PIM RATED	351	60
QUOTEDS	RFA	DSFSA1041DIN	DIRECTIONAL DIPOLE ARRAY, 5 DBD, 106 DEG BW, 148-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSFSA2041DIN	DIRECTIONAL DIPOLE ARRAY 7DBD, 108 DEG BW, 148-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSIA4040404167DIN	OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	351	60
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	RFA	DSOA202041DIN	OFFSET, EXPOSED DIPOLE ARRAY, 2 X 5 DBD, 136- 174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA2041DIN	OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA4041DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 136-174 MHZ, PIM RATED	351	30
QUOTEDS	RFA	DSOA4041DINT3	OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136- 174MHZ, 3DEG DT, PIM RATED	351	30
QUOTEDS	ALO	DSPLMKIT	ANTENNA POLE MOUNT KIT	351	30
QUOTEDS	ALO	DSPLMKIT1	POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	351	15

QUOTEDS	RFA	DSSMD2036	SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 228 DEG BW, 130-150 MHZ	351	30
QUOTEDS	RFA	DSSMD2041	SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 175 DEG BW, 148-174 MHZ	351	30
QUOTEDS	RFA	DSUB1	ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	351	20
QUOTEDS	RFA	DSUC1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	351	20
QUOTEDS	RFA	DSUC114	ANTENNA CLAMP 60 TO 115MM	351	20
QUOTEDS	RFA	DSUC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	351	20
QUOTEDS	RFA	DSUC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	351	20
QUOTEDS	RFA	DSUC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	351	20
QUOTEDS	RFA	DSUCR1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUCR2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	351	20
QUOTEDS	RFA	DSUNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	351	20
QUOTEDS	RFA	DSYH02D	YAGI, 2 ELEMENT 4 DBD, 100-250 MHZ, 6 MHZ BW, N FEMALE	351	30
QUOTEDS	RFA	DSYH03	YAGI, 3 ELEMENT 6 DBD, 100-250 MHZ, 9 MHZ BW, N FEMALE	351	30
QUOTEDS	RFA	DSYH04	YAGI, 4 ELEMENT, 7DBD, 100-250MHZ, 8MHZ BW, N FEMALE	351	30
QUOTEDS	RFA	DSYH06	YAGI, 6 ELEMENT, 9DBD, 100-250MHZ, 8MHZ BW, N FEMALE	351	30

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

VHF Band Duplexers

This page contains parts information for MSI preferred vendors including TXRX, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For technical help contact [Gary Owens](#).

For ordering/pricing information, please contact the product planner, [Tim Martin](#).

For more information on TXRX products, please see the [TXRX portal](#) or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

For more information on dbSpectra products, please see the [dbspectra portal](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972 841-4893).

For more information on RFI products, please see the [RFI portal](#) or contact [Sean Johnson](#) at sean.johnson@rfiamericas.com (330-888-3861).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

TXRX PARTS

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Description	Full Description	Nomenclature	APC	Price
DUPLEXING SYSTEM,137-174 MHZ 1 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0101	457	\$7,935.0
DUPLEXING SYSTEM 137-174 MHZ 2 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0102	457	\$11,615.0

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
NOTCH DUPLEXER, 145-175MHZ, 150W	RFI # - DP1417-9262-33 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/DPXXXX-9262-33_P-42353-2.pdf	DSDP1417926233	457	\$2,671

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DB4059, 148-174 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059	457	\$2,671
DB4059-A, 136-150 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059A	457	\$2,671
DUPLEXER, BANDPASS/REJECT, 154-174MHZ SINGLE CHANNEL APPLICATION,	DBSPECTRA # - DB4060-WC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WCC	457	\$2,671

DUPLEXER, BANDPASS/REJECT, 138- 144MHZ SINGLE CHANNEL APPLICATION	DBSPECTRA # - DB4060-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4060WOCA	4
DB4060-WOC-B, 143-156 MHZ BANDPASS REJECT DUPLEXER, 4 CAVITY	DBSPECTRA # - DB4060-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4060WOCEB	4
DUPLEXER, BANDPASS/REJECT, 143- 156MHZ, 154-174MHZ SINGLE CHANNEL APPLI	DBSPECTRA # - DB4060WOC-BC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4060WOCBC	4
DB4060-WOC-C, 154-174 MHZ BANDPASS REJECT DUPLEXER W/OUT CABINET	DBSPECTRA # - DB4060-WOC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4060WOCC	4
DB4062-WOC-A, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 138-144MHZ	DBSPECTRA # - DB4062-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4062WOCA	4
DB4062-WOC-B, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 143-156MHZ	DBSPECTRA # - DB4062-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4062WOCEB	4
DB4062-WOC-BC,6CAV BPASS/BREJECT DPLXR W/OUT CAB,143- 156MHZ,154-174MHZ	DBSPECTRA # - DB4062-WOCBC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4062WOCBC	4
DB4062-WOC-C, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 154-174MHZ	DBSPECTRA # - DB4062-WOC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.p df	DSDB4062WOCC	4
SINGLE CHANNEL BANDPASS/BANDREJECT DPLXR USING FOUR 5"CAVITIES 148-174	DBSPECTRA # - DBS3060 SPEC SHEET LINK: TBD	DSDBS3060	4
DSD106M, 160-170MHZ VHF MOBILE DUPLEXER	DBSPECTRA # - DSD106M SPEC SHEET LINK: TBD	DSDDSD106M	4

2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA PART#: BCDUP07BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BC DUP08_VHF_138-174_MHz.pdf	DSBCDUP07BA	4
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA PART#: BCDUP07BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BC DUP08_VHF_138-174_MHz.pdf	DSBCDUP07BD	4

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	TXR	DS2636H0101	DUPLEXING SYSTEM,137-174 MHZ 1 CHANNEL INPUT ISOLATORS AC	457	15
QUOTEDS	TXR	DS2636H0102	DUPLEXING SYSTEM 137-174 MHZ 2 CHANNEL INPUT ISOLATORS AC	457	15
QUOTEDS	DBP	DSBCDUP07BA	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 150-174MHZ	457	20
QUOTEDS	DBP	DSBCDUP07BD	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 150-174MHZ	457	20
QUOTEDS	DBP	DSDB4059	DB4059, 148-174 MHZ BANDPASS REJECT DUPLEXER	457	25
QUOTEDS	DBP	DSDB4059A	DB4059-A, 136-150 MHZ BANDPASS REJECT DUPLEXER	457	25
QUOTEDS	DBP	DSDB4060WCC	DUPLEXER, BANDPASS/REJECT, 154-174MHZ SINGLE CHANNEL APPLICATION,	457	25

QUOTEDS	DBP	DSDB4060WOCA	DUPLEXER, BANDPASS/REJECT, 138-144MHZ SINGLE CHANNEL APPLICATION	457	25
QUOTEDS	DBP	DSDB4060WOCB	DB4060-WOC-B, 143-156 MHZ BANDPASS REJECT DUPLEXER, 4 CAVITY	457	25
QUOTEDS	DBP	DSDB4060WOCBC	DUPLEXER, BANDPASS/REJECT, 143-156MHZ, 154-174MHZ SINGLE CHANNEL APPLI	457	25
QUOTEDS	DBP	DSDB4060WOCC	DB4060-WOC-C, 154-174 MHZ BANDPASS REJECT DUPLEXER W/OUT CABINET	457	25
QUOTEDS	DBP	DSDB4062WOCA	DB4062-WOC-A, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 138- 144MHZ	457	25
QUOTEDS	DBP	DSDB4062WOCB	DB4062-WOC-B, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 143- 156MHZ	457	25
QUOTEDS	DBP	DSDB4062WOCBC	DB4062-WOC-BC,6CAV BPASS/BREJECT DPLXR W/OUT CAB,143-156MHZ,154-174MHZ	457	25
QUOTEDS	DBP	DSDB4062WOCC	DB4062-WOC-C, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 154- 174MHZ	457	25
QUOTEDS	DBP	DSDBS3060	SINGLE CHANNEL BANDPASS/BANDREJECT DPLXR USING FOUR 5"CAVITIES 148-174	457	30
QUOTEDS	RFA	DSDP1417926233	NOTCH DUPLEXER, 145-175MHZ, 150W	457	40
QUOTEDS	DBP	DSDSD106M	DSD106M, 160-170MHZ VHF MOBILE DUPLEXER	457	20

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[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

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Model

VHF Band Receiver Multicouplers

This page contains parts information for MSI preferred vendors including TXRX and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use equipment from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexlB2VRtyYzl0tA-wgtg/edit

Ordering Information

General Information

For pricing/ordering issues, contact the product planner, [Tim Martin](#).

For technical assistance, contact [Gary Owens](#).

For more information on dbSpectra products, please see the [dbSpectra portal](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com (972 841-4893).

For more information on TXRX products, please see the [TXRX portal](#) or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

TXRX TRAINING VIDEOS ON PRODUCTS AND SERVICES

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/receive-sensitivity-improvement-basics/>

<https://txrx.com/resources/training-materials/field-services/>

Configuration

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC
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138-174MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA # - BCRMC08V SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/DSBCRMC08.pdf	DSBCRMC08V	457
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150- 174MHZ	DBSPECTRA # - DSRMC06-08AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608AA	457
RXMC ASSEMBLY, 8CH AC	DBSPECTRA # - DSRMC0608AAN SPEC SHEET LINK - www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608AAN	457
RMC06, 8 CH HIGH GAIN AMP UNIVRMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-08AD SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0608AD	457
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150- 174MHZ	DBSPECTRA # - DSRMC0608ADN SPEC SHEET LINK - www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608ADN	457
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150- 174MHZ	DBSPECTRA # - DSRMC06-16AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616AA	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616AAN SPEC SHEET LINK - TBD	DSDSRMC0616AAN	457
RMC06, 16 CH			

HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-16AD SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRMC06.B).pdf	DSDSRMC0616AD	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150- 174MHZ	DBSPECTRA # - DSRMC0616ADN SPEC SHEET LINK - TBD	DSDSRMC0616ADN	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,118- 150 MHZ	DBSPECTRA PART#: DSRMC06-08JA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JA	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,118- 150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0608JAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JAN	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ	DBSPECTRA PART#: DSRMC06-08JD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JD	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0608JDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JDN	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,217- 222 MHZ	DBSPECTRA PART#: DSRMC06-08KA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KA	457
RMC06 08 CH UNIVERSAL	DBSPECTRA PART#: DSRMC0608KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX		

RMC SYSTEM, AC POWER,217- 222 MHZ W/NO ALARM BOAR	_Multicoupler_096000- 195_Rev_Gta.pdf www.dbspectra.com/specification s/DSRMC06_RX_Multicoupler_096000- 195_Rev_Gta.pdf	DSDSRMC0608KAN	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ	DBSPECTRA PART#: DSRMC06-08KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX _Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KD	457
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0608KDN SPEC SHEET LINK:www.dbspectra.com/specifications/DSRMC0 6_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KDN	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,118- 150 MHZ	DBSPECTRA PART#: DSRMC06-16JA SPEC SHEET LINK:www.dbspectra.com/specifications/DSRMC0 6_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JA	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,118- 150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0616JAN SPEC SHEET LINK:www.dbspectra.com/specifications/DSRMC0 6_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JAN	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ	DBSPECTRA PART#: DSRMC06-16JD SPEC SHEET LINK:www.dbspectra.com/specifications/DSRMC0 6_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JD	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0616JDN SPEC SHEET LINK:www.dbspectra.com/specifications/DSRMC0 6_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JDN	457
RMC06 16 CH UNIVERSAL	DBSPECTRA PART#: DSRMC06-16KA SPEC SHEET		

RMC SYSTEM, AC POWER,217- 222 MHZ	LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KA	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,217- 222 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0616KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KAN	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ	DBSPECTRA PART#: DSRMC06-16KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KD	457
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0616KDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KDN	457

Accessories

TXRX PARTS

Description	Full Description	Nomenclature	APC
MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, BNC CONNECTOR	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS423301	457
MULTICOUPLER RX COMPACT 118- 174MHZ 4W 'N'	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330104N	457
MULTCPLR RX COMPACT 118-174 MHZ	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108	457
MULTCPLR RX	TXRX # - SPEC SHEET LINK -		

COMPACT 118-174MHZ 8W 'N'	http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N	457
MULTCPLR RX COMPACT 118-174 MHZ 8W 'N' CONN 220 VAC	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N220	457
RECEIVER MULTICOUPLER 118-174 MHZ 12 N PORTS	TXRX # - 42-33-01-12N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330112N	457
MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, N CONNECTOR	TXRX # - 42-33-01-16N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330116N	457
MULTICOUPLER, 118-174 MHZ, RX, 24 PORTS, N CONNECTOR	TXRX # - 42-33-01-24N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330124N	457
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	TXRX # - 42-36C-05-08 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS4236C0508	457
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	TXRX # - 42-36C-05-08-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS4236C050848	457
16 PORT QUADRATURE VHF RX MULTICOUPLER DECK	TXRX # - 42-38-02 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423802	457
MULT RX 132-174MHZ 16 W 48 VDC	TXRX # - 42-38-02-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42380248	457
MULTI RX 132-174 MHZ 16 W QUAD	TXRX # - 42-38-02-48R SPEC SHEET LINK -		

MOT -48VDC REDUNDANT SUPPLY	http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42380248R	457
MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS423803	457
MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS423803N	457
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS423804	457
MULT RX 132-174 MHZ 4 W QUAD MOT -48 VDC	TXRX # - 42-38-04-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42380448	457
MULT RX 132-174 MHZ 8 W QUAD MOT -48 VDC	TXRX # - 42-38-03-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42380348	457
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS423804N	457
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 110VAC	TXRX # - 42-V-05-1 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42V051	457
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 48VDC	TXRX # - 42-V-05-1-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42V05148	457
RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 110VAC	TXRX # - 42-VV-05-2 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multipliers/RMC07%20Datasheet.pdf	DS42VV052	457
RECEIVE			

MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 48VDC	TXRX # - 42-VV-05-2-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VV05248	457
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF 110VAC	TXRX # - 42-VVV-05-3 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVV053	457
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF, 48VDC	TXRX # - 42-VVV-05-3-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVV05348	457
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF 110VAC	TXRX # - 42-VVVV-05-4 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVVV054	457
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF, 48VDC	TXRX # - 42-VVVV-05-4-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVVV05448	457
RECEIVE MULTICOUPLER, 8 PORT EXPANSION KIT	TXRX PART#: 42-05-05-08-EXP SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzsMAItVnK84PxAKmmMYs-w09kzPBI/view?usp=sharing	DS42050508EXP	457

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Product	FC	Nomenclature	Description	APC	Lead
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Type					Time
QUOTEDS	TXR	DS42050508EXP	RECEIVE MULTICOUPLER, 8 PORT EXPANSION KIT	457	40
QUOTEDS	TXR	DS423301	MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, BNC CONNECTOR	457	20
QUOTEDS	TXR	DS42330104N	MULTICOUPLER RX COMPACT 118-174MHZ 4W 'N'	457	20
QUOTEDS	TXR	DS42330108	MULTCPLR RX COMPACT 118-174 MHZ	457	20
QUOTEDS	TXR	DS42330108N	MULTCPLR RX COMPACT 118-174MHZ 8W 'N'	457	20
QUOTEDS	TXR	DS42330108N220	MULTCPLR RX COMPACT 118-174 MHZ 8W 'N' CONN 220 VAC	457	20
QUOTEDS	TXR	DS42330112N	RECEIVER MULTICOUPLER 118-174 MHZ 12 N PORTS	457	20
QUOTEDS	TXR	DS42330116N	MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, N CONNECTOR	457	20
QUOTEDS	TXR	DS42330124N	MULTICOUPLER, 118-174 MHZ, RX, 24 PORTS, N CONNECTOR	457	20
QUOTEDS	TXR	DS4236C0508	RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	457	20
QUOTEDS	TXR	DS4236C050848	RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	457	20
QUOTEDS	TXR	DS423802	16 PORT QUADRATURE VHF RX MULTICOUPLER DECK	457	20
QUOTEDS	TXR	DS42380248	MULT RX 132-174MHZ 16 W 48 VDC	457	20
QUOTEDS	TXR	DS42380248R	MULTI RX 132-174 MHZ 16 W QUAD MOT -48VDC REDUNDANT SUPPLY	457	20

QUOTEDS	TXR	DS423803	MULTI RX 132-174 MHZ 8 W QUAD MOT	457	20
QUOTEDS	TXR	DS42380348	MULT RX 132-174 MHZ 8 W QUAD MOT -48 VDC	457	20
QUOTEDS	TXR	DS423803N	MULTI RX 132-174 MHZ 8 W QUAD MOT	457	20
QUOTEDS	TXR	DS423804	MULTI RX 132-174 MHZ 4 W QUAD MOT	457	20
QUOTEDS	TXR	DS42380448	MULT RX 132-174 MHZ 4 W QUAD MOT -48 VDC	457	20
QUOTEDS	TXR	DS423804N	MULTI RX 132-174 MHZ 4 W QUAD MOT	457	20
QUOTEDS	TXR	DS42V051	RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 110VAC	457	20
QUOTEDS	TXR	DS42V05148	RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 48VDC	457	20
QUOTEDS	TXR	DS42VV052	RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 110VAC	457	20
QUOTEDS	TXR	DS42VV05248	RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 48VDC	457	20
QUOTEDS	TXR	DS42VVV053	RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF 110VAC	457	20
QUOTEDS	TXR	DS42VVV05348	RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF, 48VDC	457	20
QUOTEDS	TXR	DS42VVVV054	RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF 110VAC	457	20
QUOTEDS	TXR	DS42VVVV05448	RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF, 48VDC	457	20

QUOTEDS	DBP	DSBCRMC08V	138-174MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	457	25
QUOTEDS	DBP	DSDSRMC0608AA	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150- 174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608AAN	RXMC ASSEMBLY, 8CH AC	457	20
QUOTEDS	DBP	DSDSRMC0608AD	RMC06, 8 CH HIGH GAIN AMP UNIVRMC SYSTEM, -48 VDC POWER, 150-174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608ADN	RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150- 174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608JA	RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,118-150 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608JAN	RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,118-150 MHZ W/NO ALARM BOAR	457	20
QUOTEDS	DBP	DSDSRMC0608JD	RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608JDN	RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ, W/ NO ALA	457	20
QUOTEDS	DBP	DSDSRMC0608KA	RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,217-222 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0608KAN	RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER,217-222 MHZ W/NO ALARM BOAR	457	20
QUOTEDS	DBP	DSDSRMC0608KD	RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ	457	20
			RMC06 08 CH UNIVERSAL RMC		

QUOTEDS	DBP	DSDSRMC0608KDN	SYSTEM, -48 VDC POWER,217-222 MHZ, W/ NO ALA	457	20
QUOTEDS	DBP	DSDSRMC0616AA	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616AAN	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 150-174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616AD	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616ADN	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150- 174MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616JA	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,118-150 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616JAN	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,118-150 MHZ W/NO ALARM BOAR	457	20
QUOTEDS	DBP	DSDSRMC0616JD	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616JDN	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,118-150 MHZ, W/ NO ALA	457	20
QUOTEDS	DBP	DSDSRMC0616KA	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,217-222 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616KAN	RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER,217-222 MHZ W/NO ALARM BOAR	457	20
QUOTEDS	DBP	DSDSRMC0616KD	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222 MHZ	457	20
QUOTEDS	DBP	DSDSRMC0616KDN	RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER,217-222	457	20



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JUMP TO ...

[VHF AND UHF
TRANSMITTER
COMBINERS](#)

VHF AND UHF TRANSMITTER COMBINERS

This page contains information from MSi preferred vendors, including DBSPECTRA, RFI, and TXRX.

If you want to use equipment from a non preferred vendor, you must go through the Exception Request process (see link to form below).

EXCEPTION REQUEST LINK URL:

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

VHF and UHF combiners are frequency specific. Contact the respective manufacturer for quotes.

If you do not have frequencies you will have a caveat design, when the final frequencies are identified the design and price may change.

CONTACT INFORMATION

For general ordering and vendor information, contact the product planner [Tim Martin](#).

For technical assistance contact the lead RF engineer, [Gary Owens](#).

For information on DBSPECTRA products, go to the [DBSPECTRA](#) portal or contact [Sandra Zachmeyer](#) at szachmeyer@dbspectra.com (469-322-0080).

For information on TXRX products, go to the [TXRX](#) portal or contact [Mike Ryan](#) at MRyan@txrx.com (312-632-9620).

For information on RFI products, go to the [RFI website](#) or contact [Sean Johnson](#) at sean.johnson@rfiamericas.com (330-541-6585).

TXRX TRAINING AND PRODUCT VIDEOS

<https://txrx.com/resources/training-materials/>

<https://txrx.com/resources/training-materials/combiner-basics/>

<https://txrx.com/resources/training-materials/field-services/>

TXRX WHITE PAPERS ON COMBINER DESIGN

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Impact-of-Antenna-Isolation-on-Transmit-Combiner.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Art-of-Combiner-Designs.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Primer-on-Directional-Couplers.pdf

Configuration

Data Not Available

DBSPECTRA UHF AND VHF COMBINERS

UHF/VHFcombiners come in many configurations. Below you will find different series of combiners with brief descriptions and links to spec sheets. For more detailed product information, contact the vendor (see Contact Information information above) directly or Tim Martin/Gary Owens.

DS4345 COMBINING SERIES, Requires Tx and rx frequencies when ordering, 148-174MHZ.

http://www.dbspectra.com/specifications/DS4345_Series.pdf

DS4345 COMBINING SERIES - DUAL CAVITY, Requires Tx and rx frequencies when ordering, 148-174MHZ.

[http://www.dbspectra.com/specifications/096000-053.D_\(DS4548D\).pdf](http://www.dbspectra.com/specifications/096000-053.D_(DS4548D).pdf)

DB4348 COMBINING SERIES, 148-160MHZ AND 160-174MHZ.

http://www.dbspectra.com/specifications/DB4348_Series.pdf

DB4368 COMBINING SERIES, Requires Tx and rx frequencies when ordering. 350-512MHZ

http://www.dbspectra.com/specifications/DB4368_Series.pdf

DB4368 (Public Safety Best Practices) COMBINING SERIES, Requires Tx and rx frequencies when ordering. 450-470MHZ

<http://www.dbspectra.com/specifications/096000-240.A.pdf>

DB4368PIM - ADDS DIN JUNCT & SHRINK TUBING. PIM KIT FOR DB4368 COMBINING

www.dbspectra.com/specifications/DB4368PIM.pdf

MOTU UHF INTEGRATED SYSTEM SERIES, Requires Tx and rx frequencies when ordering.

www.dbspectra.com/specifications/096000-252_B_UHF_Integrated_RF_Distribution_System_Datasheet.pdf

www.dbspectra.com/specifications/096000-252_B_UHF_Integrated_RF_Distribution_System_Datasheet.pdf

HC10 TRANSMIT HYBRID COMBINER SERIES, Requires Tx and rx frequencies when ordering.

http://www.dbspectra.com/specifications/Hybrid_Transmitter_Combiner.pdf

MWTF - TX MILLED FILTERS - Requires Tx and Rx frequencies when ordering.

www.dbspectra.com/specifications/MWTF-series_Single_Sub-band_UHF_Transmit_Window_Filter.pdf

TERMINATIONS AND LOADS (VARIOUS)

[www.dbspectra.com/specifications/096000-091.D_\(Terminations_and_Loads\).pdf](http://www.dbspectra.com/specifications/096000-091.D_(Terminations_and_Loads).pdf)

www.dbspectra.com/specifications/DB4303LIM-LowPIMLoad_V1_051613.pdf

[www.dbspectra.com/specifications/096000-091.D_\(Terminations_and_Loads\).pdf](http://www.dbspectra.com/specifications/096000-091.D_(Terminations_and_Loads).pdf)

FILTERS (VARIOUS)

http://www.dbspectra.com/specifications/DB4001N_Series.pdf

[www.dbspectra.com/specifications/096000-230.A_\(MWF4_MWF5_UHF_Univ_Filter\).pdf](http://www.dbspectra.com/specifications/096000-230.A_(MWF4_MWF5_UHF_Univ_Filter).pdf)

[www.dbspectra.com/specifications/096000-231.B_\(MWF1CU-N_VHF_Receive_Window_Filter_138-175_MHz\).pdf](http://www.dbspectra.com/specifications/096000-231.B_(MWF1CU-N_VHF_Receive_Window_Filter_138-175_MHz).pdf)

[www.dbspectra.com/specifications/096000-230.B_\(MWF4CU-N_and_MWF5CU-N_Receive_Window_Filter_380-512_MHz\).pdf](http://www.dbspectra.com/specifications/096000-230.B_(MWF4CU-N_and_MWF5CU-N_Receive_Window_Filter_380-512_MHz).pdf)

[www.dbspectra.com/specifications/MWDTF series Dual Sub-band UHF Transmit Window Filter.pdf](http://www.dbspectra.com/specifications/MWDTF_series_Dual_Sub-band_UHF_Transmit_Window_Filter.pdf)

TXRX UHF AND VHF TRANSMITTER COMBINERS

THIS SECTION CONTAINS LINKS TO INFORMATION ON TXRX UHF AND VHF TRANSMITTER COMBINERS.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/DS0311A%20Motorola%20VHF%20Combiners.pdf

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/DS0311A%20Motorola%20UHF%20Combiners.pdf

TXRX UHF TRANSMITTERS AND COMBINERS SERIES

73-56-11-2D

73-67-11-2D

73-67-25-2D

21-65 > 21-75 EXPANSION CHANNEL KITS

73-67-41-1E

73-67-45-1E

74-56C-41-1D

74-67-09-2->6 KITS

74-70-20-A AND 74-70-20-AB AND 74-70-20-B

73-56-11 SPEC SHEET LINK: <https://txrx.com/products/tx-combining-systems/t-pass-transmit-combiners/73-56-11-series/>

73-67-11 SPEC SHEET LINK: <https://txrx.com/products/tx-combining-systems/t-pass-transmit-combiners/73-67-11-series/>

EXPANSION CHANNELS SPEC SHEET LINK: <https://txrx.com/products/tx-combining-systems/t-pass-expansion-channels/>

73-67-41 AND 73-67-45 SPEC SHEET LINK: <https://txrx.com/products/tx-combining-systems/t-pass-expansion-channels/>

74-56C-41 SPEC SHEET

LINK: <https://drive.google.com/file/d/1oK5mMAwXd24EPzKdoEQukORPAaxjrSrK/view>

TXRX VHF TRANSMITTERS AND COMBINERS SERIES

73-38-01-2D AND 73-38--05-2D

21-36-01, 21-36-05, 21-37-01, AND 21-37-05 EXPANSION CHANNELS

73-38-41-1E

73-38-45-1E

21-36-41-1E AND 21-37-45-1E EXPANSION CHANNELS

73-38-01 AND 05 SERIES, EXPANSION CHANNELS SPEC SHEET LINK: <https://txrx.com/wp-content/uploads/2019/06/VHF-T-pass-Combiners.pdf>

73-38-41 AND 05 SERIES SPEC SHEET LINK:
, <https://drive.google.com/file/d/1dlaikk51mKrQhKDQYDSmiukNjjEOye0E/view>

TXRX HYBRID DIRECTIONAL COUPLERS SERIES

85-38-01>05

85-58-01>08

HYBRID DIRECTIONAL COUPLER SPEC SHEET

LINK: https://drive.google.com/file/d/1Y8Kha4EENo4usTaz_qhI_Jhw08DPyPfi/view

TXRX POWER DIVIDER/SIGNAL COMBINERS SERIES

84-01-

84-37-

84-58-

POWER DIVIDER/SIGNAL COMBINER SPEC SHEET LINK: <https://drive.google.com/file/d/1cUI-z4KZFKvYYrfSNC2icQ8xIbiQ9GB0/view>

RFI UHF AND VHF TRANSMITTER COMBINERS

This section contains a link to information on RFI UHF and VHF Transmitter Combiners.

<https://www.rfiamericas.com/wp-content/uploads/2018/01/UHF-MSxxx-0205-SP-Series-2-CH.pdf>

Ship Card

Data Not Available

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JUMP TO ...

MODEL

ORDERING INFORMATION

CONFIGURATION

SHIP CARD

MODEL

VHF CONTROL STATION ANTENNAS

This page contains parts information for MSI preferred vendors including Alive Telecom, Amphenol Procom, RFI, and DBSPECTRA.

For non preferred vendors, contact the vendor directly. You will need an approved Exception Request to use antennas from a non preferred vendor. See link below.

https://docs.google.com/document/d/1C34HXeD5mzvDDq9x_e_1gHVexIB2VRtyYzl0tA-wgtg/edit

ORDERING INFORMATION

For pricing/ordering issues contact the product planner, Tim Martin at tim.martin@motorolasolutions.com.

For technical assistance contact Gary Owens at garyowens@motorolasolutions.com.

For Alive Telecom product information go to the Alive [website](#) or contact Jim Melia at jmelia@alivetele.com (708-603-6836).

For Amphenol Procom product information, go to the Amphenol Procom [website](#) or contact Kim Bramsgart at kb@amphenolprocom.com (815-218-8000).

For DBSPECTRA product information, go to the DBSPECTRA [website](#) or contact Sandra Zachmeyer at szachmeyer@dbspectra.com or (972-841-4893).

For RFI product information, go to the RFI [website](#), or contact Sean Johnson at sean.johnson@rfiamericas.com or (330-541-6585).

NOTE: In the Full Description field below, you will find the vendor part number, any vendor notes associated with that part, and a URL link to a vendor Spec sheet for that item.

AMPHENOL PROCOM ANTENNA PRESENTATION

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Amphenol%20Procom%20-%20Antenna%20Presentation.%20Range%20of%20products.%20Showcase%20of%20tests%20and%20measurements..pdf

ALIVE TELECOM ANTENNA PARTS GUIDE - This document is a decoder for Alive antenna parts.

https://aem-prod-author.motorolasolutions.com/assetdetails.html/content/dam/msi/secure/productcatalog/ordering_guides/Alive%20Telecom%20-%20Antenna%20Part%20Guide.pdf

Configuration

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GC1V2O-2-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V2O-2-2.pdf	DSATCGC1V2O2D7	351	\$978.00
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V2O-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V2O-D7-2.pdf	DSATCGD1V2OD7	351	\$2,128.00

	content/uploads/ATC-GD1V2O.pdf			
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT NOTE:	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1 NOTE:	DSPLMKIT1	351	\$160.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
1 DIPOLE ANT, 2.0 DBD GAIN MOUNTED ON CONDUCTIVE POLE/MAST (0 DBD FREE	AMPHENOL PART#: S.1-380-470. BRACKETS ORDERED SEPARATELY. SPEC SHHET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2397-s-1-380-470	DSS1380470	351	\$205.00
GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 40-70 MHZ	AMPHENOL PART#: GP40. BRACKETS INCLUDED. SPEC SHHET LINK: https://www.amphenolprocom.com/products/base-station-antennas/404-gp-40	DSGP40	351	\$259.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 139-147 MHZ	AMPHENOL PAFRT#: CXL 2-3LW/s SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw?generate=1	DSCXL23LWS	351	\$467.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-175MHZ	AMPHENOL PART#: CXL 2-2C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/471-cxl-2-2c?generate=1	DSCXL22C	351	\$403.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 153-162 MHZ	AMPHENOL PART#: CXL 2-3LW/m. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw	DSCXL23LWLM	351	\$467.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 155-175MHZ	AMPHENOL PART#: CXL 2-1LW/h SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/473-cxl-2?generate=1	DSCXL21LWH	351	\$240.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 146-165MHZ	AMPHENOL PART#: CXL 2-1LW/l SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/473-cxl-2?generate=1	DSCXL21LWL	351	\$240.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-156MHZ	AMPHENOL PART#: CXL 2-1LW/s SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/473-cxl-2?generate=1	DSCXL21LWS	351	\$240.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 162-175 MHZ	AMPHENOL PART#: CXL 2-3C/h SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c?generate=1	DSCXL23CH	351	\$707.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 144-157 MHZ	AMPHENOL PART#: CXL 2-3C/l SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c?generate=1	DSCXL23CL	351	\$707.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 153-166 MHZ	AMPHENOL PART#: CXL 2-3C/m SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c?generate=1	DSCXL23CM	351	\$707.00
	AMPHENOL PART#: CXL 2-3C/s SPEC SHEET			

COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 137-150 MHZ	LINK: https://amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c?generate=1	DSCXL23CS	351	\$707.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 166-175 MHZ	AMPHENOL PAFRT#: CXL 2-3LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw?generate=1	DSCXL23LWH	351	\$467.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 158-167 MHZ	AMPHENOL PAFRT#: CXL 2-3LW/hm SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw?generate=1	DSCXL23LWHM	351	\$467.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 146-154 MHZ	AMPHENOL PAFRT#: CXL 2-3LW/l SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw?generate=1	DSCXL23LWL	351	\$467.00
COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	AMPHENOL PAFRT#: CXL 2/70C SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/446-cxl-2-70c?generate=1	DSCXL270C	351	\$545.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUAL VHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS1X00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1X00CS36DN.pdf	DSDS1X00CS36DN	351	\$2,168.00
118-138 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1C00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1C00CS36UN	351	\$1,363.00
138-150 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1D00CS36UN PEC SHEET LINK: www.dbspectra.com/specifications/DS1C00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1D00CS36UN	351	\$1,363.00
148-174MHZ UNITY GAIN CONTROL STATION ANTENNA	DBSPECTRA PART#: DS1X00CS36UN PEC SHEET LINK: www.dbspectra.com/specifications/DS1C00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1X00CS36UN	351	\$1,237.00
138-150MHZ 3DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS1D03CS36DN SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS1D03CS36DN.pdf	DSDS1D03CS36DN	351	\$4,830.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VHF CONTROL STATION ANTENNA, 2DBD, 138-166 MHZ, 50W, MM2 MOUNT	RFI PART#: CD29-138166-MVA2 SPEC SHEET LINK: TBD	DSCD29138166MVA2	351	\$164.00
VHF CONTROL STATION ANTENNA, 2DBD, 138-166 MHZ, 50W, MM2 MOUNT	RFI PART#: CD29-138166-MVA5 SPEC SHEET LINK: TBD	DSCD29138166MVA5	351	\$307.00
VHF MONOCONE 136-160 MHZ, N CONN	RFI PART#: BMV-136160 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2019/06/P-43335-4-	DSBMV136160	351	\$1,272.00

	BMV-Series.pdf			
VHF MONOCONE 148-174 MHZ, N CONN	RFI PART#: BMV-148174 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2019/06/P-43335-4-BMV-Series.pdf	DSBMV148174	351	\$1,272.00

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	STI CO PART#: IOAK-TB-V/U/C	DSIOAKTBVUC	291	\$2,172.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ALO	DSATCGC1V202D7	COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGC1V401D7	COLLINEAR OMNI ANTENNA, 156-166 MHZ, 5.2 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGC1V402D7	COLLINEAR OMNI ANTENNA, 162-174 MHZ, 5.2 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGC1V403D7	COLLINEAR OMNI ANTENNA, 130-140 MHZ, 4.1 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGC1V404D7	COLLINEAR OMNI ANTENNA, 140-150 MHZ, 4.1 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGC1V40D7	COLLINEAR OMNI ANTENNA, 150-160 MHZ, 5.2 DBD, 7-16 DIN FEMALE CONNECT	351	30
QUOTEDS	ALO	DSATCGD1V2CD7	EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V2DD7	EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 5 DBD, 138-174 MHZ, 7-16 DIN F	351	30
QUOTEDS	ALO	DSATCGD1V2OD7	EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V4CD7	EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	ALO	DSATCGD1V4DD7	EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 8 DBD, 138-174 MHZ, 7-16 DIN F	351	30
QUOTEDS	ALO	DSATCGD1V4OD7	EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 7-16 DIN FEMALE	351	30
QUOTEDS	RFA	DSBMV136160	VHF MONOCONE 136-160 MHZ, N CONN	351	40
QUOTEDS	RFA	DSBMV148174	VHF MONOCONE 148-174 MHZ, N CONN	351	15

QUOTEDS	RFA	DSCD29138166MVA2	VHF CONTROL STATION ANTENNA, 2DBD, 138-166 MHZ, 50W, MM2 MOUNT	351	40
QUOTEDS	RFA	DSCD29138166MVA5	VHF CONTROL STATION ANTENNA, 2DBD, 136-166 MHZ, 50W, MM2 MOUNT	351	40
QUOTEDS	APP	DSCXL21LWH	VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 155-175MHZ	351	30
QUOTEDS	APP	DSCXL21LWL	VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 146-165MHZ	351	30
QUOTEDS	APP	DSCXL21LWS	VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-156MHZ	351	30
QUOTEDS	APP	DSCXL22C	VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-175MHZ	351	30
QUOTEDS	APP	DSCXL23CH	COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 162-175 MHZ	351	30
QUOTEDS	APP	DSCXL23CL	COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 144-157 MHZ	351	30
QUOTEDS	APP	DSCXL23CM	COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 153-166 MHZ	351	30
QUOTEDS	APP	DSCXL23CS	COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 137-150 MHZ	351	30
QUOTEDS	APP	DSCXL23LWH	COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 166-175 MHZ	351	30
QUOTEDS	APP	DSCXL23LWHM	COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 158-167 MHZ	351	30
QUOTEDS	APP	DSCXL23LWL	COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 146-154 MHZ	351	30
QUOTEDS	APP	DSCXL23LWLM	COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 153-162 MHZ	351	30
QUOTEDS	APP	DSCXL23LWS	COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 139-147 MHZ	351	30
QUOTEDS	APP	DSCXL270C	COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	351	30
QUOTEDS	DBP	DSDS1C00CS36UN	118-138 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS1D00CS36UN	138-150 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	351	25
QUOTEDS	DBP	DSDS1D03CS36DN	138-150MHZ 3DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	351	25
QUOTEDS	DBP	DSDS1X00CS36DN	DUAL VHF CONTROL STATION ANTENNA, UNITY	351	20
QUOTEDS	DBP	DSDS1X00CS36UN	148-174MHZ UNITY GAIN CONTROL STATION ANTENNA	351	30
QUOTEDS	APP	DSGP40	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 40-70 MHZ	351	30
QUOTEDS	STI	DSIOAKTBVUC	MULTIBAND ANTENNA - STANDARD TNC CONNECTOR	291	35
QUOTEDS	ALO	DSPLMKIT	ANTENNA POLE MOUNT KIT	351	30
QUOTEDS	ALO	DSPLMKIT1	POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	351	15
			1 DIPOLE ANT, 2.0 DBD GAIN MOUNTED ON		

QUOTEDS	APP	DSS1380470	CONDUCTIVE POLE/MAST (0 DBD FREE	351	30
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JUMP TO ...

Vigilant

MODEL

Model

**ORDERING
INFORMATION**

Ordering Information

Part #	Product Type	Description	Sell Price
CDM-3- 234- RHD-C	Hardware	Mobile LPR 3-Camera System, 6 ft USB extension, Light Bar Bracket, 5 Year Warranty, & Perpetual License	\$47,466.15

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



VRX1000 - VEHICLE RADIO EXTENDER



Ordering Information

General Information

[Functional Description](#) for APX mobile applications (Product Planner)

[VRX Ordering Guide](#)

[Support Documentation](#)

[ASTRO DVR Wiki](#)

DECEMBER 2019: PRICING INCREASE! PRICING INCREASE!

PLEASE NOTE: Effective January 1st, 2020 FUTURECOM IS INCREASING PRICING ON SELECTIVE ACCESSORIES BELOW. This is due to the increasing costs of raw materials, manufacturing and transportation.

From date	To date	MSI Part #	Item Description
1/1/2020	12/31/2020	DDN1963A	VRX1000 MOUNTING KIT
1/1/2020	12/31/2020	DDN1965A	VRX1000 IN-BAND FILTER STACKED MOUNTING KIT
1/1/2020	12/31/2020	DDN1966A	VRX1000 DC POWER CABLE (7W087X20-01)
1/1/2020	12/31/2020	DDN1967A	VRX1000 FILTER RF CABLE 20IN (7W087X11-01)
1/1/2020	12/31/2020	DDN2080A	VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY
1/1/2020	12/31/2020	DDN2333A	PDR8000 AUXILIARY CABLE (7W088X12-01)
1/1/2020	12/31/2020	DDN2335A	ZIPPERED ACCESSORY POUCH (3Y088B01-01)
1/1/2020	12/31/2020	DDN2348A	SLIM POWER CABLE
1/1/2020	12/31/2020	DDN2349A	SLIM GPIO CABLE
1/1/2020	12/31/2020	DDN1968A	VRX1000 PROGRAMMING CABLE
1/1/2020	12/31/2020	DDN2350A	SLIM RADIO TO MOBILE CABLE
1/1/2020	12/31/2020	DDN2351A	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	DDN2352A	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	DDN2353A	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	DDN2354A	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	DDN2645A	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT (7W083X83-01)
1/1/2020	12/31/2020	DDN2719A	RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN (7W900X94-01)
1/1/2020	12/31/2020	DDN9012A	DVR Y CONTROL CABLE (1W083B09-01)
1/1/2020	12/31/2020	DDN9014A	VHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9015A	UHF UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9016A	700/800MHz UNITY GAIN ANTENNA
1/1/2020	12/31/2020	DDN9025A	DVR PROGRAMMING CABLE 10FT
1/1/2020	12/31/2020	DDN9028A	DVR TO MOBILE RADIO CABLE 3FT (7W083X05-01)
1/1/2020	12/31/2020	DDN9030A	DVR POWER CABLE (1W083A01-01)
1/1/2020	12/31/2020	DDN9031A	DVR OPTIONS CABLE 2.5FT (7W083X06-01)
1/1/2020	12/31/2020	DDN9032A	DVR RF SWITCH CABLE 1FT (7W083X09-01)
1/1/2020	12/31/2020	DDN9033A	RF CABLE DVR TO NOTCH FILTER 3FT (7W083X16-01)
1/1/2020	12/31/2020	DDN9034A	RF CABLE MOBILE TO NOTCH FILTER 3FT (7W083X17-01)
1/1/2020	12/31/2020	DQDVR9023	DVR MOUNTING BRACKET KIT

1/1/2020	12/31/2020	DQDVR9028	DVR STANDALONE POWER CABLE (7W083X37-01)
1/1/2020	12/31/2020	TT06290AA	SLIM INTERFACE KIT 1K-A1 WHELEN GRAY
1/1/2020	12/31/2020	TT06291AA	SLIM INTERFACE KIT 1K-D3 FEDERAL SIGNAL PLATINUM
1/1/2020	12/31/2020	TT06292AA	SLIM INTERFACE KIT 1K-E2 CODE 3 Z3
1/1/2020	12/31/2020	TT06296AA	SLIM PROGRAMMING KIT
1/1/2020	12/31/2020	TT1223A	DVR MOUNTING PLATE KIT

Futurecom Systems Group, ULC is committed to offering quality products and service and greatly appreciates your continued business and support.

NEW DECEMBER 2, 2019:

Please note, orders cannot be on hold indefinitely on FUTURECOM SYSTEMS. If required information (supplemental form) is not received within 60 days of the PO receipt date, the PO will be cancelled from Futurecom's system.

Futurecom's production queue has reached capacity to ship orders in Q4 2019. All new orders will be scheduled with the best possible ship date in Q1 2020, based on material availability and production capacity at the time of an order. The standard delivery lead time for all Futurecom products (DVR, VRX1000, PDR8000, SLIM) is 10-12 weeks.

NEW! The APX mobile platform is now fully certified for integration with the VRX. Please note the new ordering options required to distinguish APX Single Band and Dual Band applications.

When operating in system mode, the DVR utilizes a special interface between its host mobile in the following configurations:

APX

- Remote Mount APX 4500 (O2 CH), APX 6500 or APX 7500 with O2, O3, O5, O7, or O9 control heads
- Transportable configurations are not available with VRX1000.
- APX mobiles must be configured with the DVR MSU Activation option GA00631 when used as the host for the DVR.

General Ordering Information:

- One mobile Operation Mode options is required for all In-Band and Cross-Band VRX models
- Subscriber units must be loaded with the most current version of software to enable all VRX features.
- APX Portable Radios operating through a VRX utilizing the enhanced DVR digital feature set, require subscriber option QA00631. No special option is required for XTS Portable Radios.
- The VRX programming software (called Tweaker) is compatible with Windows 2000, XP, and Windows 7. Vista and Windows 8 have not been certified.
- Standard lead time for this product is approximately 10 weeks upon approved orders - See ordering requirements below.
- Vehicular Mount (Side-by-Side) units can be ordered with the VRX-to-Mobile cable from 3-25 ft in length. Please specify this value in the order entry process.

For questions regarding appropriate VRX equipment lists or verifying frequency plans, you may contact Futurecom Systems Group directly at: sales@futurecom.com or 1-800-701-9180 (ask for DVR Sales Support)

The Ordering Guide link above gives a pictorial view of how the VRX needs to be isolated from the accompanying mobile. To prevent interference between the two devices, a certain amount of frequency separation is required. In-Band VRX orders require a manual validation step by the vendor to verify that the frequency plan can be accommodated by the standard VRX models listed below.

IMPORTANT NOTE: To ensure that the VRX solution will function properly once fielded, all VRX orders must be validated prior to manufacturing. The form linked below is required to complete this step in the sales process for all VRX orders, AND is required before any In-Band VRX model is released from E3 hold. [DVR Supplemental Frequency Information Form](#)

IMPORTANT NOTE: FUTURECOM DOES NOT HOLD INVENTORY, THERE ARE LEAD TIMES FOR THE SPECIFIC ITEMS, IF A SUPPLEMENTAL FORM HAS NOT BEEN FILLED OUT WITH FREQS REQUIREMENTS, THIS WILL IMPACT DELIVERY OF ORDERS. FUTURECOM WILL DO THEIR BEST TO EXPEDITE, BUT IN SOME CASES THE DELIVERY IS BASED ON THEIR SUPPLIER'S ABILITY TO DELIVER, ESPECIALLY IF IT IS A CUSTOM FILTER ORDER. PLEASE BE AWARE THAT FILTER MANUFACTURING AND HAND TUNING IS A LABOUR INTENSIVE PROCESS THAT WILL NOT BEGIN UNTIL THE EXACT FREQS. ARE KNOWN.

NOTE: For Delivery outside of US/Canada, please contact Futurecom for delivery schedule prior to placing order.

Configuration

Section A: Required Main Model and Options

For standard Radio Operation Steps 1 - 6

PLEASE READ ALL OPTION DESCRIPTIONS BEFORE MAKING YOUR SELECTION

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
VRX1000 - UHF 380-430/450-512 MHZ	***THIS UNIT WILL NOT BE SHIP ACCEPTED UNTIL 2ND HALF OF 2015*** Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT05716 be ordered with Model.	TT2793	571	\$3,350.00
VRX1000-7/800 769-775/851-869 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT05716 be ordered with Model.	TT2794	571	\$3,350.00
VRX1000 - VHF 136-174 MHZ	***THIS UNIT WILL NOT BE SHIP ACCEPTED UNTIL 2ND HALF OF 2015*** Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT05716 be ordered with Model.	TT2792	571	\$3,350.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00

3: System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 1 OPERATION	Adds P25 Digital Capability	TT05951AA	571	\$1,560.00
ADD: P25 ENHANCED TRUNKING FEATURES	Adds enhanced trunking feature set capabilities. Requires Digital Operation (TT05951AA) on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	TT05953AA	571	\$1,680.00
ADD: P25 ENCRYPTION	Adds the ability to pass Digital Encryption. Requires Digital Operation (TT05951A)	TT05952AA	571	\$454.00

4: In-Band Options

Description	Full Description	Nomenclature	APC	Price
ADD: VRX1000 - IN-BAND FILTER KIT PLAN A - 7/800 (769-775/851-869)	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05949AA	571	\$2,150.00

ADD: VRX1000 - IN-BAND FILTER KIT PLAN B - UHF (380-430/450-512)	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05948AA	571	\$2,150.00
ADD: VRX1000 - IN-BAND FILTER KIT PLAN B - VHF (136-174)	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05946AA	571	\$2,150.00
ADD: VRX1000 - IN-BAND FILTER KIT PLAN A - VHF (136-174)	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05945AA	571	\$2,150.00
ADD: VRX1000 - IN-BAND FILTER KIT PLAN B - 7/800 (769-775/851-869)	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05950AA	571	\$2,150.00
ADD: VRX1000 - IN-BAND FILTER KIT PLAN A - UHF (380-430/450-512)	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05947AA	571	\$2,150.00

5: Cables

Description	Full Description	Nomenclature	APC	Price
ADD: VRX1000 DOUBLE Y-CONTROL CABLE / SIREN	Requires option Delete Standard Cable (TT05956AA).	TT05978AA	571	\$554.00
ADD: PROGRAMMING KIT - VRX1000	Programming Kit includes the programming and installation manual, programming software and USB cable (DDN1968A). All manuals are available online for free for download to registered users.	TT05954AA	571	\$480.00
ADD: VRX1000 Y - CONTROL CABLE / AUX	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00
ADD: VRX1000 Y-CONTROL CABLE / SIREN	Requires option Delete Standard Cable (TT05956AA).	TT05977AA	571	\$410.00
DEL: DELETE STANDARD CONTROL CABLE - VRX1000	-	TT05956AA	571	(\$110.00)

6: Services

7: Warranties

Description	Full Description	Nomenclature	APC	Price
ADD: VRX IN-BAND 4 YEAR EXTENDED WARRANTY	Antennas	TT05961AA	571	\$1,059.00
ADD: VRX IN-BAND 1 YEAR EXTENDED WARRANTY	-	TT05962AA	571	\$303.00
ADD: VRX CROSS BAND 1 YEAR EXTENDED WARRANTY	-	TT05960AA	571	\$181.00

Section B: Antennas

Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms,	HAD4009	554	\$19.50

	nominal			
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4006	554	\$19.50
ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4008	554	\$19.50
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	High Band Quarter Wave Antenna. Roof Mount, Mini UHF Connector, Frequency Range: 132-174 MHz., Power: 150 Watts Max., Gain: Unity, VSWR: Less than 1.5:1, Impedance 50 Ohms, nominal	HAD4007	554	\$19.50
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	Roof Mount, Mini UHF connector, Power: 150 Watts Max., Gain: Unity, VSWR: Less than 2:1, Impedance: 50 Ohms, nominal	HAE4004	554	\$20.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	Roof Mount, Mini UHF connector, Power: 150 Watts Max., Gain: Unity, VSWR: Less than 2:1, Impedance: 50 Ohms, nominal	HAE4003	554	\$21.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	585	\$23.00

Section D: Aftermarket Accessories

Software Upgrades

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,P25 PHASE 1 OPERATION	This upgrade kit will add P25 Digital Capability to the standard Analog VRX1000	DDN1960	571	\$1,560.00
SOFTWARE,P25 ENHANCED TRUNKING FEAT	This upgrade kits adds enhanced trunking feature set capabilities. Requires Digital Operation (TT05951AA or DDN1960A) on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	DDN1962	571	\$1,680.00
SOFTWARE,P25 ENCRYPTION	This upgrade kit requires P25 Digital Operation (TT05951A or DDN1960A). Adds the ability to pass Digital Encryption.	DDN1961	571	\$360.00

Cables

Description	Full Description	Nomenclature	APC	Price
VRX1000 CABLE,Y-CONTROL CABLE / SIREN	-	DDN2053	571	\$410.00
VRX1000 Y - CONTROL CABLE / AUX	-	DDN1970	571	\$360.00
VRX1000 DOUBLE Y-CONTROL CABLE / SIREN & AUX	-	DDN2054	571	\$554.00
VRX PROGRAMMING CABLE	Includes the programming USB cable. All manuals and software are available online for free for download to registered users.	DDN1968	571	\$203.00
VRX CONTROL CABLE	-	DDN1969	571	\$218.00
VRX DC POWER CABLE	-	DDN1966	571	\$203.00

VRX1000 RF CABLE FOR IN-BAND FILTER KIT	-	DDN1967	571	\$203.00
VRX1000 CUSTOM CONTROL CABLE LENGTH	-	DDN2083	571	\$300.00
VRX1000 CUSTOM RF CABLE LENGTH	-	DDN2084	571	\$95.00

Services

Description	Full Description	Nomenclature	APC	Price
ON-SITE TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE TECHNICAL AND PROGRAMMING SUPPORT	-	DDN1971	571	\$4,000.00
VRX IN-BAND 1 YEAR EXTENDED WARRANT	-	DDN2082	571	\$303.00
VRX CROSS BAND 4 YEAR EXTENDED WARR	-	DDN2079	571	\$756.00
VRX CROSS BAND 1 YEAR EXTENDED WARR	-	DDN2080	571	\$213.00
VRX IN-BAND 4 YEAR EXTENDED WARRANT	-	DDN2081	571	\$1,059.00
ON-SITE INSTALLATION AND PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00
INSTALLATION AND PROGRAMMING PHONE SUPPORT (PER HOUR)	-	DDN1973	571	\$160.00

SPARES/KIT/OPTIONS

Description	Full Description	Nomenclature	APC	Price
VRX1000 MOUNTING BRACKET KIT	-	DDN1963	571	\$203.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2073	571	\$2,150.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2074	571	\$2,150.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2075	571	\$2,150.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2076	571	\$2,150.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2077	571	\$2,150.00
INFRASTRUCTURE EQUIPMENT,VRX1000 -	-	DDN2078	571	\$2,688.00
VRX1000 IN-BAND STACKED MOUNT KIT	-	DDN1965	571	\$203.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	FUT	DDN1960	SOFTWARE,P25 PHASE 1 OPERATION	571	80
QUOTEDS	FUT	DDN1961	SOFTWARE,P25 ENCRYPTION	571	80
QUOTEDS	FUT	DDN1962	SOFTWARE,P25 ENHANCED TRUNKING FEAT	571	14
QUOTEDS	FUT	DDN1963	VRX1000 MOUNTING BRACKET KIT	571	80
QUOTEDS	FUT	DDN1965	VRX1000 IN-BAND STACKED MOUNT KIT	571	80
QUOTEDS	FUT	DDN1966	VRX DC POWER CABLE	571	80
QUOTEDS	FUT	DDN1967	VRX1000 RF CABLE FOR IN-BAND FILTER KIT	571	80
QUOTEDS	FUT	DDN1968	VRX PROGRAMMING CABLE	571	80
QUOTEDS	FUT	DDN1969	VRX CONTROL CABLE	571	80
QUOTEDS	FUT	DDN1970	VRX1000 Y - CONTROL CABLE / AUX	571	80
QUOTEDS	FUT	DDN1971	ON-SITE TECHNICAL AND PROGRAMMING SUPPORT	571	80
QUOTEDS	FUT	DDN1972	ON-SITE INSTALLATION AND PROGRAMMING SUPPORT (EXTENDED)	571	80
QUOTEDS	FUT	DDN1973	INSTALLATION AND PROGRAMMING PHONE SUPPORT (PER HOUR)	571	80
QUOTEDS	FUT	DDN1974	ON-SITE TRAINING (BASIC)	571	80
QUOTEDS	FUT	DDN1975	ON-SITE TRAINING (EXTENDED)	571	80
QUOTEDS	FUT	DDN2053	VRX1000 CABLE,Y-CONTROL CABLE / SIREN	571	80
QUOTEDS	FUT	DDN2054	VRX1000 DOUBLE Y-CONTROL CABLE / SIREN & AUX	571	80
QUOTEDS	FUT	DDN2073	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2074	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2075	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2076	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2077	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2078	INFRASTRUCTURE EQUIPMENT,VRX1000 -	571	80
QUOTEDS	FUT	DDN2079	VRX CROSS BAND 4 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2080	VRX CROSS BAND 1 YEAR EXTENDED WARR	571	80
QUOTEDS	FUT	DDN2081	VRX IN-BAND 4 YEAR EXTENDED WARRANT	571	80

QUOTEDS	FUT	DDN2082	VRX IN-BAND 1 YEAR EXTENDED WARRANT	571	80
QUOTEDS	FUT	DDN2083	VRX1000 CUSTOM CONTROL CABLE LENGTH	571	80
QUOTEDS	FUT	DDN2084	VRX1000 CUSTOM RF CABLE LENGTH	571	80
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	CDP	HAD4006	ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	554	4
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	RNS	HAD4007	ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	554	25
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4008	ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAD4009	ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	554	5
PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3
PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3
PARTS	CDP	HAE4003	ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	554	3
PARTS	CDP	HAE4004	ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	554	4
PARTS	CDP	HAE4004	ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	554	4
PARTS	CDP	HAE6012	ANTENNA 1/4 WAVE WHIP 380-433 MHZ	585	3
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
PARTS	CDP	HAF4016	ANTENNA (762-870 MHZ) 1/4 WAVE	554	4
QUOTEDS	FUT	TT2792	VRX1000 - VHF 136-174 MHZ	571	84
QUOTEDS	FUT	TT2793	VRX1000 - UHF 380-430/450-512 MHZ	571	84
QUOTEDS	FUT	TT2794	VRX1000-7/800 769-775/851-869 MHZ	571	84

JUMP TO ...[GENERAL INFORMATION](#)[ORDERING REQUIREMENTS](#)[TOOLS](#)

General Information

Watson Furniture

The Motorola/Watson Value Proposition

Full Solution Offerings - Customer Satisfaction - Log Credit

Why should you propose Watson furniture to your customer:

Watson Dispatch provides a broad range of console furniture, equipment, and accessories to meet the needs of communication centers and projects.

No headaches - Watson performs the work while you sell the customer. Watson offers a no-hassle sales process with field support from certified Rep firms throughout the US. After the sale is completed, Watson installs the furniture and maintains it under a 3 year comprehensive warranty - making sure the customer is satisfied with the purchase.

Sales Relationship History

Motorola and Watson sales have yielded over \$30 million in revenue, 500 installed sites, and includes hundreds of satisfied customers!

Look at some quotes from Motorola sales representatives and MR's regarding the Watson product:

- "The ability to have a Watson rep actually do the measurements and forms allows a speedy and accurate request for drawings and quote with little involvement from the Account Manager. Watson has been superb in turning these projects around in a timely fashion. Not only are there extra log dollars, but we control the entire installation of our console with the other vendors involved."

- Jack Fay on working with Watson

- "The detail is huge for an order like this. Watson did a wonderful job!"

- Eric Olson on Motorola Test Facility, Boulder, CO

- "Watson provided warranty repair in Santa Fe... This repair required a two day on site effort, new parts and refurbishing existing installed furniture, at no cost to the customer... resulting was a follow on sale even bigger than the initial installation."

- Dieter Schmidt on Santa Fe, NM

- "I have always had success selling Watson because their product and services are extremely high quality. When I ask for a quote they get it to me quickly and accurately. They produce the furniture in a timely manner, it is installed without problems, the customers love it and it looks great. I walk away with a happy customer and no problems from the sale!"

Communications, NC

Watson Sales Support Process Includes:

- Site Visit & Survey Form Completion
- Room Measurements
- Technology Evaluation
- CAD/Space Planning
- Quotation
- Installation Date Coordination
- Product Pre-building at Factory
- Delivery and Installation Coordination
- End User Training
- Excellent Customer Service and Support
- Post-sale Visits

Setting the industry standard, Watson Dispatch offers extremely high-quality dispatch console furniture, unique storage solutions, and a range of conferencing, administrative, and private office furnishing. SYNERGY is a complete family of products designed to enhance the entire communication center. It combines unparalleled structural integrity, full sit-to-stand ergonomic adjustability, improved environmental controls, easy technology access, power, voice, and data integration and simple, logical, effective wire management. Full-cavity designs stabilizes all movable and fixed surfaces. The "wedge" design includes a vertical interconnect for routing cables and wiring from the work surface to the electronic devices in the cavities. Easy technology access is achieved by pull out shelves either front or rear of console.

Watson's Total Comfort System (TCS) integrates all ergonomic adjustments and environmental controls into a single device, SPI (Single Point Interface), which encompasses major improvements in the crucial arena of telecommunicator comfort. Modular air circulation is provided by one to three quiet, yet powerful, repositionable fans that require no ducting. User adjustability and control of the console via the SPI allows users to replicate the sit-to-stand function at all positions.

Competitive Differentiator

Many competitors claim a limited life-time warranty, but the small print reveals 90 day coverage on electrical, one year on motors, etc. Watson's 3 year warranty is comprehensive and provides customers with investment protection.

Ordering Requirements

Ordering Instructions:

1. Motorola sales rep or MR contact a Watson sales coordinator for an initial consultation. Watson reps assist in gathering information from the clients, measuring the rooms, assimilating the inventory, and supplying scale drawings from a project manager assigned to the customer.
2. Watson will generate a quotation using Motorola list (DNUP) pricing based on the customer requirements.
3. Once the customer signs off on the drawings and color selections, Watson will provide the dropship product manager with quotations and signed documents. At that time the product manager will create a Motorola DQ model number in COF. Please note that services and freight are not included in the DQ model. These should be ordered through Tigers.
4. All Sales & Distribution questions should be directed to Mike Palmer.

Watson Project Coordinators By Territories**Lisa Dotterweich**

Phone - 800-426-1202 Ext. 261

Fax - 360-394-1323

Email - ldotterweich@watsonfg.com

Kelly Dowling

Phone - 800-426-1202 Ext. 207

Fax - 360-394-1323

Email - kdowling@watsonfg.com

Melinda Monroe

Phone - 360-598-7431

Fax - 360-394-1323

Email - mmonroe@watsonfg.com

Watson National Sales Manager**Mike Palmer**

Phone - 214-724-0783

Fax - 360-394-1323

Email - mpalmer@watosonfg.com

Tools

Literature Available Through The Literature Distribution Center (LDC)

1. Search for "Watson Dispatch Binder" - This 2 1/2 inch thick binder provides everything you need to know about Watson furniture. Topics range from product overview to competition to industry challenges. It includes a CD, contact lists, sales tools, color samples, brochures, and more.
2. Search for "Watson Dispatch Synergy 3 Brochure" - This provides information Watson and the Synergy product line.
3. Watson Trailers - Contain A Synergy Furniture Position Which Customer Can View and "Touch". They Are Available Upon Request Throughout The Country - Contact Meghan with Watson at 800-426-1202 ext. 206.

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

Model



WAVE Tactical

WAVE Tactical

WAVE Tactical is a communications interoperability and broadband push-to-talk (PTT) solution that delivers real-time voice and data securely over any network using any device. From two-way radios to smartphones, laptops to landlines, tablets to rugged handhelds, users can use the devices they already have and the networks they already subscribe to and PTT with other teams and individuals both inside and outside of their communication system.

WAVE website: <https://sites.google.com/motorolasolutions.com/wave-5000/wave-5000>

Extend Radio to Broadband: Extend workforce communications beyond radio to include modern devices and broadband networks for seamless communications in any location.

Deploy Broadband PTT: Secure, 'over-the-top' PTT connecting smart devices over 3/4G LTE and WiFi networks delivers greater choice and flexibility when choosing a non-radio, carrier-independent communications solution.

Connect Radio to Radio: Connect multiple, disparate two-way radio systems and remove barriers to communication interoperability and workforce collaboration.

Customer Responsible Prerequisites

Starting in WAVE 5.12, the TLS (Transport Layer Security) 1.2 standard is being utilized to provide enhanced security to all communication between servers and the mobile and web communicators. This enhanced security requires the WAVE Management Server and WAVE Proxy Servers to have a Fully Qualified Domain Name (FQDN) as well as the usage of certificates to facilitate TLS. Some customers may already possess an environment what utilizes

certificates and have the ability to provide a FQDN and the appropriate certificate(s). Depending on the security requirements of the customer, certificates can be in the form of a wildcard certificate, named certificates, or self-signed certificates. Customers that do not possess this environment can obtain wildcard and named certificates from a certificate authority for an annual subscription fee. A list of certificate authorities that provide certificates can be found at https://en.wikipedia.org/wiki/Certificate_authority. A wildcard certificate can be used on all Management and Proxy servers whereas separate certificates are required for each server if named certificates are used with the benefit of the highest level of security being provided. A customer can utilize a self-signed certificate, if desired, to avoid annual subscription fees with the knowledge that there are security and deployment tradeoffs with such an approach. Thus, prior to installation of WAVE 5.12, the customer must obtain or be able to provide the following:

- A Fully Qualified Domain Name for the WAVE Management Server
- One of the following:
 - A wildcard certificate to be used on the WAVE Management Server and all WAVE Proxy Servers in the form of either:
 - A certificate provided by a certificate authority (PREFERRED)
 - A self-signed certificate (DISCOURAGED)
 - Named certificates for the WAVE Management Server and each WAVE Proxy Server in the form of either:
 - Certificates provided by a certificate authority
 - Self-signed certificates (HIGHLY DISCOURAGED)

Ordering Information

WAVE ARUS Overview

All WAVE Tactical quotations must include a minimum of one year of ARUS (Annual Release and Update Subscription) as a required component for each chargeable option.

ARUS provides software updates and support for the quoted number of years and is the software maintenance component of WAVE Tactical. ARUS only applies to WAVE Tactical software items and is not charged on hardware or non-WAVE Tactical software. Additional information on ARUS can be found on the WAVE Tactical Google site:

<https://sites.google.com/a/motorolasolutions.com/wave-5000-release-resources/>

The price of ARUS is based upon the price of the software items purchased. Discount levels applied to the software item are applied to the ARUS associated with that software item and are not to be discounted further.

NOTE: ARUS - 1 YEAR Options are NOT available through OMAR-R12 for the EMEA region. A minimum of 2 years of ARUS is required.

The WAVE 5000 Ordering Guide is available on the enclosed compass link and is updated regularly:

<https://sites.google.com/a/motorolasolutions.com/wave-5000-release-resources/pricing-and-quoting/wave-5000-global-ordering-guide>

WAVE 5000 Release 5.10 System Planner (Dec 2016 release) for ASTRO 25, Dimetra, and MOTOTRBO Capacity Plus:

<https://drive.google.com/open?id=0BwfV63okeso0OTMzZI9iWFFPb00>

NEW orders for WAVE Tactical are placed via CPQ. Please review system components and requirements in the ordering guide for WAVE Tactical before you place your order: https://docs.google.com/document/d/1kKpjfMeJabPrI_6D2K_QvOrwX2zKNVeRaXSDhEjzKlC/edit#

Expansions

Expansion orders cannot be processed without the following pieces of information:

1. End Customer Name
2. E-mail Address
3. Serial Number

The email address is required to enable the updated WAVE Tactical software license key to be emailed upon order fulfillment. The serial number of the customer's existing WAVE Tactical system is required to ensure proper licensing quantities are updated. The serial number can be found using the following procedure:

1. Log in the WAVE Management Server as Administrator
2. Navigate to the System Menu and choose System Settings.
3. In the Licensing section at the top of the page, locate the Serial Number field. The serial number has the following format: XXXX-XXXX-XXXX-XXXXXXXX-XXXX-XXXX-XXXX.

The serial number that is entered into the order is the Serial Number with any dashes and spaces removed resulting in 32 characters for non-EMEA orders. For EMEA orders the complete serial number, including dashes, is to be entered resulting in 38 characters.

JUMP TO ...

MODEL

**ORDERING
INFORMATION**

CONFIGURATION

Model

WAVE 7K Server

Ordering Information

Features

WAVE 7K Server supports:

- PTT Call Processing
- PTT Enterprise Management
- Database for Broadband Subscribers
 1. Up to 10,000 broadband subscribers
 2. Up to 5,000 broadband provisioned talk groups

General Information

PURPOSE AND SCOPE

To provide WAVE 7000 orderability instructions and part numbers.

WAVE 7000 Server is available for ordering.

The WAVE 7K Application Client for L10 international (Android KitKat 4.4.4) is available. WAVE 7K Application Client is distributed from MSI Device Manager. Subsequent software updates are managed via MSI Device Manager.

If you have questions pertaining to details of the software client download, please send email to [Ranjit Pradhan](#)

WAVE 7K General Feature Information

Intuitive Interface

- User programmable scan lists
- Nuisance Delete
- Presence info
- Call Log & Favorites
- Easy audio controls
- Widgets and carousels
- Client UI supports English by default, and Arabic, Hebrew, Portuguese (optional languages)

Call Capabilities

- Talkgroup Call
- Priority Scan
- Late Join / Re-Join
- Private Call
- Individual Alert Call
- Personal Group Call
- Ad Hoc Group Call
- Presence Status
- Floor Revoke for Denial of Service prevention
- Broadcast Call
- Secure PTT (FIPS hardware encryption): requires CryptrMicro hardware on device
- Server Geo Redundancy (optional)
- Interoperability with ASTRO 25

Best in Class Audio

- P25 vocoder, AMR-WB vocoder
- Device specific audio tuning

Ordering Requirements

1. To order WAVE 7K SERVER (SQM01SUM0298)
 - Order SQM01SUM0298 quantity 1 along with required server capacity. (You must order at least one of the capacity bundles. Multiple bundles can be selected.)
 1. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 100
 2. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 500
 3. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 1500
 4. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 2000
 5. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 5000
 6. WAVE 7K SERVER CAPACITY LICENSE BUNDLE OF 10000
2. To order WAVE 7K USER ACCESS LICENSE (T8332) - One must know beforehand if Interoperability with ASTRO 25 is desired by the customer or not. If known, proceed.
 - If interoperability with ASTRO 25 is NOT desired, then please order the desired quantity from the following bundle(s). Multiple bundles can be selected:
 1. WAVE 7K ACCESS LICENSE BUNDLE OF 100
 2. WAVE 7K ACCESS LICENSE BUNDLE OF 500
 3. WAVE 7K ACCESS LICENSE BUNDLE OF 1500
 4. WAVE 7K ACCESS LICENSE BUNDLE OF 2000
 5. WAVE 7K ACCESS LICENSE BUNDLE OF 5000
 6. WAVE 7K ACCESS LICENSE BUNDLE OF 10000
 - If interoperability ASTRO 25 IS desired, then please order the desired quantity from the following bundle(s). Multiple bundles can be selected:
 1. WAVE 7K ACCESS LICENSE WITH AMBE-100
 2. WAVE 7K ACCESS LICENSE WITH AMBE-500
 3. WAVE 7K ACCESS LICENSE WITH AMBE-1500
 4. WAVE 7K ACCESS LICENSE WITH AMBE-2000
 5. WAVE 7K ACCESS LICENSE WITH AMBE-5000
 6. WAVE 7K ACCESS LICENSE WITH AMBE-10000
3. To order WAVE 7K_ASTRO P25 WIRELINE INTEROPERABILITY LICENSE (T8333) - One must contact Product Management ([Ranjit Pradhan](#)) before placing orders.
 - NOTE: Bundle options are mutually exclusive.

4. To order additional Server Capacity - Order WAVE 7K SERVER CAPACITY LICENSE (T8331) quantity 1 along with appropriate quantity of capacity bundle(s).
 - NOTE: For Greenfield WAVE 7K Orders, you already bought WAVE 7K SERVER (SQM01SUM0298) with Capacity bundle(s).
5. **Secure PTT License** - If you would like additional information on the secure PTT feature and pricing, please send email to ([Ranjit Pradhan](#)).
6. Consult ([Andre Salame](#)) in Product Management to order Extreme Routers for the WAVE 7K implementation.

Configuration

Models/Options

WAVE 7K Server:

Description	Full Description	Nomenclature	APC	Price
WAVE 7K SERVER	-	SQM01SUM0298	061	\$170,000.00

WAVE 7K User Access License:

Description	Full Description	Nomenclature	APC	Price
WAVE 7K USER ACCESS LICENSE	-	T8332	061	\$0.00

WAVE 7K Astro Wireline Interoperability License:

Description	Full Description	Nomenclature	APC	Price
WAVE 7K_ASTRO P25 WIRELINE INTEROPERABILITY LICENSE	-	T8333	061	\$0.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 27	-	UA00391AA	061	\$49,761.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 54	-	UA00392AA	061	\$91,800.00
ADD: WAVE 7000_ASTRO 25 INTEROP				

LICENSE BUNDLE OF 81	-	UA00393AA	061	\$140,454.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 108	-	UA00394AA	061	\$184,464.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 135	-	UA00395AA	061	\$225,450.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 162	-	UA00396AA	061	\$264,384.00

WAVE 7K Server Capacity License For Additional Capacity:

NOTE: For Greenfield WAVE 7K Orders, you already bought WAVE 7K SERVER (SQM01SUM0298) with Capacity bundle(s).

Description	Full Description	Nomenclature	APC	Price
WAVE 7K SERVER CAPACITY LICENSE	-	T8331	061	\$0.00

Accessories

PTT Server Accessories:

Description	Full Description	Nomenclature	APC	Price
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00

PTT Server Accessories for Inter-op with ASTRO 25

GCM 8000 Site Router:

One (1) power option is required for every GCM 8000 Multi-Protocol Site Router

Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ADD: DC POWER	-	CA01619AA	147	\$0.00

Ethernet Switch:

Description	Full Description	Nomenclature	APC	Price
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00

Spares FRU**DL380G9 Spare FRU:**

Description	Full Description	Nomenclature	APC	Price
HP DL380 G9 DUAL 2.5 GHZ CPU AND 64GB RAM	-	DLN7004	061	\$19,380.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00

DotHill Raid 4224 FRU:

Description	Full Description	Nomenclature	APC	Price
DOTHILL 4524 SAS WITH 5X1.2TB	-	DLN7005	061	\$19,820.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
FRU: DH SHARED STORAGE SFF DISK - 1.2TB	-	DLN6984	056	\$1,690.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00

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JUMP TO ...[MODEL](#)[ORDERING INFORMATION](#)[CONFIGURATION](#)[SOFTWARE & SERVICES](#)[SHIP CARD](#)**Model****WDE1000 & WDE1100 - 4.9/2.4 GHz
Wireless Device Enabler****Ordering Information****General Information**

The WDE (Wireless Device Enabler) series addresses the wireless mobility needs of public safety customers in the broadband data market. The WDE1000 PCMCIA CardBus and WDE1100 Mini-PCI cards support 802.11a at 4.9 GHz licensed spectrum and 802.11b/g at 2.4 GHz unlicensed spectrum. The devices allow users to connect portable products to the MOTOMESH™ wireless broadband network operating at both 2.4 GHz and 4.9 GHz, bands. Moreover, they provide customers with a rugged, high performance alternative to typical PC wireless card devices.

Features

The following are primary features offered by the WDE1000 and WDE1100:

- 802.11a in the licensed 4.9 GHz band, to be used with Motorola MOTOMESH™ platform
- 802.11b/g in the unlicensed 2.4 GHz band, to be used with standard off the shelf WiFi AP's and the MOTOMESH™ platform

- Standard PCMCIA CardBus (WDE1000) and Mini-PCI (WDE1100) 32 bit interface
- Burst data rate of up to 54 Mbps
- 100 mW average output power in the 4.9 GHz band and 63mW in the 2.4 GHz band
- Diversity antenna connectivity for a wide coverage area
- Integrated high performance antenna (WDE1000 only)
- Ability to form peer-to-peer ad-hoc single-hop networks
- Selectable 5, 10, & 20 MHz Channel Bandwidths in the 4.9 GHz band
- Designed for outdoor rugged operation at –30 to +60°C
- Host driver for Windows 2000 (SP4), Windows XP (SP4), and Windows XP Tablet (SP2) operating systems
- Client utility application for user friendly activity monitoring via a system tray icon and user profile configuration
- Operability in BSS (Infrastructure) mode and IBSS (Ad-hoc) mode for incident scene communications where network access is unavailable
- Power management in infrastructure mode to increase battery life
- Security modes: WEP, AES, TKIP
- Authentication: Open, PEAP (EAP-MSCHAP V2), TLS, TTLS (802.1X Infrastructure/Client)
- Switch from 4.9 GHz to 2.4 GHz networks and vice-versa (manually) through the Motorola Client Utility application

The standard components included with this model are listed in the following high level BOM:

- 1 WDE1000 PCMCIA CardBus or WDE1100 Mini-PCI Card
- 1 Quick Reference Card for installation instructions at-a-glance
- 1 CD ROM containing Motorola Client Utility software, Host driver, and User Guide

WDE1000 and WDE1100 Specifications		
PHYSICAL		
	WDE1000	WDE1100
Dimensions	5.079"L x 2.126"W x 0.543"H inches 12.9cm x 5.4cm x 1.38cm	2.35"L x 1.76"W x 0.19"H inches 59.8mm x 44.6mm. x 4.9mm
	2.54 oz	0.48 oz

Weight	72 g	14.2 g
Packaging	PCMCIA Type II with Extension	Mini-PCI - for installation in an internal slot
POWER		
Power Supply	3.3V +/- 10%	
Power Consumption (typical)	Transmit: 2.3W at 4.9 GHz for 20 dBm output power 1W at 2.4 GHz for 18 dBm output power Receive: 0.62W Idle / Power Save Mode: 0.05W	
RF CHARACTERISTICS - WDE1000 & WDE1100		
	2.4 GHz -- 802.11b/g	4.9 GHz -- 802.11a
Nominal Output Power:	18 dBm / 63mW	20 dBm / 100mW
RF Modulation:	CCK/OFDM	OFDM
Operating Freq (GHz):	2.4000-2.4835	4.940-4.990
Max Burst Rate	54 Mbps	54 Mbps
		5 MHz, 10 MHz, or 20 MHz -

Spectrum Used	22 MHz	Configurable via the client software
Antenna Connector	MMCX (WDE1000) UFL (WDE1100)	MMCX (WDE1000) UFL (WDE1100)
RECEIVE SENSITIVITY at 4.9GHz		
Parameter	Conditions	Typical
Frequency Range	4.94GHz - 4.99GHz	
Sensitivity level for PER <10% - PSDU length of 1000bytes at antenna Channel Bandwidth = 20MHz	6Mbit/s	-94dBm
	9Mbit/s	-91dBm
	12Mbit/s	-89dBm
	18Mbit/s	-87dBm
	24Mbit/s	-83dBm
	36Mbit/s	-80dBm
	48Mbit/s	-75dBm
	54Mbit/s	-73dBm
Sensitivity level for PER <10% - PSDU length of 1000bytes at antenna Channel Bandwidth = 10MHz	3Mbit/s	-97dBm
	4.5Mbit/s	-94dBm
	6Mbit/s	-93dBm
	9Mbit/s	-90dBm
	12Mbit/s	-86dBm
	18Mbit/s	-83dBm
	24Mbit/s	-78dBm

	27Mbit/s	-76dBm
Sensitivity level for PER <10% - PSDU length of 1000bytes at antenna Channel Bandwidth = 5MHz	1.5Mbit/s	-100dBm
	2.25Mbit/s	-99dBm
	3Mbit/s	-96dBm
	4.5Mbit/s	-94dBm
	6Mbit/s	-90dBm
	9Mbit/s	-86dBm
	12Mbits/s	-82dBm
	13.5Mbit/s	-79dBm
RECEIVE SENSITIVITY at 2.4GHZ		
Parameter	Conditions	Typical
Frequency Range	2.4GHz - 2.4835GHz	
Sensitivity level for IEEE802.11g (DSSS) & b- FER<8%	2Mbit/s (DQPSK)	According to IEEE802.11b
	11Mbit/s (CCK)	According to IEEE802.11b
Sensitivity level for IEEE802.11g	6Mbit/s	-97dBm
	9Mbit/s	-94dBm
	12Mbit/s	-92dBm
	18Mbit/s	-90dBm

PER <10%	24Mbit/s	-86Bm
	36Mbit/s	-83dBm
	48Mbit/s	-79dBm
	54Mbit/s	-77dBm
ENVIRONMENTAL		
	WDE1000	WDE1100
Temp range	Operation: -30°C to +60°C Storage: -40°C to +85°C	Operation: -30°C to +60°C Storage: -40°C to +85°C
Humidity	95% at 50°C, non-condensing MIL-STD 810F Method 507.4, 2 x 24 hr	N/A
Dust	According to MIL-STD-810F, Method 510.4, Procedure I	N/A
Vibration	MIL-STD 810F 514.5 Cat 4 Fig 514.5 C-1. 1hr / axis	MIL-STD 810F 514.5 Cat 4 Fig 514.5 C-1. 1hr / axis
Certifications	FCC Part 15 B, FCC Certified at 2.4GHz and 4.9GHz	FCC CRF47 Part 90 Certified at 4.9GHz and Part 15, 247 certified at 2.4GHz
NETWORK		
	WDE1000	WDE1100
	Ad hoc peer-to-peer or infrastructure	Ad hoc peer-to-peer or infrastructure

Architecture	modes (available to both frequencies)	modes (available to both frequencies)
Interface	CardBus (32 bits) to Laptop 2 MMCX external diversity antenna ports (one for each frequency)	Mini-PCI (32 bits) built into a Laptop 2 UFL external diversity antenna ports (one for each frequency in TX mode)
WARRANTY		
Standard	1 yr standard	

Ordering Requirements

All orders must be entered into the Customer Order Fulfillment (COF) system.

Please consult <http://motomesh.comm.mot.com> to gain access to the System Planner document, system configuration tool(s), FAQ list, and other support documentation that is relevant to the MOTOMESH™ solutions prior to ordering.

Visit the MOTOMESH price pages for ordering network equipment:

[MOTOMESH Network Equipment](#)

Motorola rugged laptop ordering information can be found at:

ML900 Rugged Laptop

The following process outline should be followed when ordering a WDE1000 PCMCIA card or WDE1100 Mini-PCI card:

Step 1 - Order WDE1000 or WDE1100: Wireless Device Enabler: Order one WDE1000/1100 model for each of the portable devices that you plan to connect to the 2.4GHz / 4.9GHz network.

Note: The WDE1100 is designed for installation in an internal Mini-PCI slot - be sure to confirm compatibility. The WDE1000 fits into a standard PCMCIA slot.

WDE1000/1100 Model Contents

- 1 WDE1000/1100 Card
- 1 Quick Reference Card for installation instructions at-a-glance
- 1 CD ROM containing Motorola Client Utility software, Host driver, and User Guide

Step 2 – Software: Verify that the customer has a SWK7024 4.9 GHz 802.11 Enabler

option (TT04573AA) to turn on the 4.9 GHz side of their MOTOMESH MWR7300 or IAP7300, if they plan to immediately utilize the 4.9 GHz side of the WDE1000 card.

Step 3 - Service and Technical Support: Review customer needs for technical support and order as required. Service can be ordered directly through the Customer Support Manager. Contact your regional business service BDM to arrange for a quotation.

Step 4 - Training: Professional training classes for MOTOMESH and WMB are offered and conducted by Motorola's Worldwide Learning Services group. Contact Worldwide Learning Services at 847-538-7999 to obtain information about the training session offerings.

Configuration

Models

NOTE: For an order that includes more than 25 WDE1100 or WDE1000 cards, please see your Business Development Manager for special pricing. For large quantity orders of 18 or more WDE1100 or WDE1000 cards, order the Bulk Packaging option: ZA00568AA.

Options

Order the following option if you are buying 18 or more WDE1100 cards and would like them to be packaged in bulk rather than individual boxes:

Software & Services

Service

The WDE1000/1100 Standard 1 Year Warranty is included with the product and includes 8X5 technical support, software updates to address defect repair issues, and depot unit repair.

Non-warranty service and support can be ordered directly through your Customer Support Manager. Contact your regional business service BDM to arrange for a quotation.

Ship Card

Data Not Available

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MODEL

**ORDERING
INFORMATION**

CONFIGURATION

SHIP CARD

Model

Wireless LAN

Ordering Information

Wireless Switches and Access Port

RF7000

Robust, scalable features for demanding enterprise networks

Designed for large scale, high bandwidth deployments, the RFS7000 Wireless Switch from Motorola provides robust, highly scalable support for seamless enterprise mobility. Motorola's Wi-NG architecture, optimized for enterprise mobility and multimedia applications, simplifies network deployment and management, provides superior performance, security and scalability, and supports emerging RF technologies. Built on this platform, the RFS7000 enables campus wide roaming across subnets, and offers powerful failover capabilities, exceptional quality of service (QoS) and increased voice capacity. Integrated security features include intrusion detection and protection, secure guest access and protection against denial of service attacks.

Raising the bar on enterprise-class performance

Taking advantage of multicore/multithreaded architecture, the RFS7000 is intended for large scale, high bandwidth enterprise deployments. It is designed to handle from 8,000 to 50,000 mobile devices, up to 256 802.11 dual-radio a/b/g access ports, up to 2500 dual radio a/b/g APs in a cluster and it will support upcoming 802.11n access ports. Failover capabilities and cluster management provide high availability, ensuring an "always-on" network. Whether your business requires wireless deployment across multiple buildings, high-capacity systems or deployment in large public access areas, the RFS7000 delivers it – efficiently and securely.

Converged RF management for cutting-edge enterprise mobility

In addition to providing enterprise-class performance, the RFS7000 is designed to support seamless mobile access to multiple RF networks, with the exceptional security and manageability that you've come to expect from Motorola.

Interfaces to locationing systems simplify asset tracking throughout your network, while Layer 3 roaming and external fixed/mobile convergence (FMC) solutions allow personnel to seamlessly roam from subnet to subnet, and from cellular to Wi-Fi networks. When used in concert with enterprise class application-intensive Wi-Fi handheld devices, the RFS7000 enhances fast roaming capabilities.

The RFS7000 provides comprehensive network security features that maintain constant

compliance of HIPAA and PCI standards, including integrated MAC-based authentication, intrusion detection, AAA/Radius server (for WPA/WPA2 termination on the box) and hotspot provisioning capabilities for secure guest access. The stateful packet inspection firewall offers protection against denial of service attacks while optimizing network traffic.

[More information on the RFS7000](#)

WS 5100

Wireless Switch WS 5100 is the high capacity (10x) version of the WS5000 with the same hardware and software architecture. Ideal for Medium to Large enterprises that need enterprise class security, management and availability. This is an overlay Wireless Switch solution that uses a "Centralized-intelligence" model with the WS 5100 in the core or distribution layer and access ports at the access layer to provide 802.11 (Wi-Fi) coverage.

High Performance Overlay Wireless Switch

Moving at the speed of business

The WS 5100 Wireless Switch provides enhanced support for enterprise mobility and multimedia applications, as well as increased security and manageability. Based on Wi-NG (Wireless Next Generation) architecture, the WS 5100 enables seamless campus-wide roaming, more robust failover capabilities, enhanced security, improved mobile client battery life, and increased voice capacity. Robust security features include integrated intrusion detection, an IPSec VPN gateway, and secure guest access provisioning. Automatic configuration and firmware updates, built-in process monitors, troubleshooting tools and a simple user interface make network deployment and management easy.

Robust enterprise mobility

Business needs should dictate network coverage, not the other way around. That's why the WS 5100 allows you to deploy "thin" access ports in Layer 3 network designs, and enables campus-wide roaming of mobile clients across Layer 3 boundaries - without requiring additional client software or hardware. Used in concert with handheld devices, the WS 5100 further enhances the fast roaming capabilities and extends client battery life. WMM (Wi-Fi Multimedia) with "power save" extensions also provides additional voice capacity. Supporting mobile workers has never been so easy. End-to-end layered security.

The WS 5100's comprehensive security includes integrated features such as intrusion detection, and IPSec VPN gateway, AAA/Radius server (for WPA/WPA2 termination on the box) and "hotspot" provisioning capabilities for secure guest access. The stateful packet inspection firewall offers protection against denial of service attacks while optimizing network traffic. With support for the wireless security standards of today and the ability to easily upgrade to tomorrow's standards, the WS 5100 delivers true value.

[More information on the WS5100](#)

WS 2000

Meet the needs of your smaller office with this market-leading integrated wireless and wired switch

The WS 2000 Wireless Switch is a market-leading powerful all-in-one solution that simplifies and reduces the costs of managing wired and wireless (802.11a/b/g) networks in enterprise

branch offices. The integrated router, gateway, firewall, Power-over Ethernet (PoE) and more eliminate the cost of purchasing and the complexity of managing multiple pieces of equipment. WS 2000 v2.1 introduces more value added functionality including support for Wi-Fi Multimedia extensions (WMM) that enables the WS 2000 to provide peak performance for even the most demanding voice and video applications and secondly, support for secure public wireless internet access (Hotspot). The ability to easily and cost-effectively scale to meet growing needs, as well as upgrade to support new security, radio and other standards provides the assurance that the WS 2000 will meet your needs today and tomorrow. The WS 2000 - enterprise class networking functionality, priced for the small to medium-sized business or enterprise branch office.

AP 300 802.11a/b/g Access Ports

Low-cost next-generation access point for powerful enterprise-level wireless LAN manageability and scalability

AP300 delivers rich 802.11a/b/g connectivity working in conjunction with wireless switches as the point of connection between your mobile devices and your wireless LAN. This thin next-generation access point is a low-cost device that is centrally and remotely managed through a wireless switch. Rapid configuration and the ability to quickly and easily upgrade the devices to support new functionality, feature and security protocols substantially reduces the cost of deploying, implementing and managing your wireless LAN, while significantly increasing features, functionality and security of your wireless LAN infrastructure.

Access Points

AP-5181's

802.11a/b/g outdoor MESH access point for near indoor coverage around and in between buildings

Rugged enterprise-class access point designed for harsh environments: Motorola's AP-5181 Access Point, specifically designed for outdoor use, delivers wireless networking in harsh environments. In addition to a NEMA 4X-modified housing, severe weather features include integrated lightning arrestors, surge protectors, extreme temperature range operation and an array of antenna and power accessories. The self-assembling, self-healing mesh capability supports Wi-Fi multimedia (WMM) extensions to ensure quality of service (QoS) while cost-effectively extending corporate networks beyond and between buildings — with no need to install additional Ethernet cable or fiber. With integrated router, firewall, DHCP, AAA and hotspot services, the AP-5181 offers a superior outdoor WLAN solution.

Extend the reach of your corporate network — cost-effectively: When used as either an access port or a mesh node, the AP-5181 can operate wirelessly, even in harsh conditions. Outdoor applications don't mean sacrificing security or manageability — support for today's standards-based security protocols helps ensure enterprise-level network protection, while a wide variety of administration options provides simple, yet powerful management tools. Because the AP-5181 operates wirelessly, all of this can be implemented outdoors without the added cost of installing network cable or fiber.

Mesh networking creates a flexible, easily-managed network: Using its mesh capability, the dual-radio AP-5181 can connect to other access points for data backhaul while providing network access to local users. Enabling an array of applications, from simple point-to-point bridges connecting two wired networks to complex multi-node, multi-link networks, this feature offers a simple way to extend the network to outdoor or remote locations. The self-

assembling and self-healing aspects of a mesh network make the network flexible and easy to manage. This, combined with the straightforward configuration interface, makes deploying and maintaining a secure wireless network of access points almost effortless.

Engineered to withstand the elements: Because the AP-5181 was specifically designed for outdoor use in harsh conditions, it can withstand wind, rain and extreme temperatures. It comes standard with integrated lightning arrestors and

AP-5131's

Secure enterprise-class networking for branch offices, remote and outdoor locations, and small businesses - in a single device

The AP 5131 delivers convenient, flexible, scaleable and cost-effective enterprise-level wired and wireless networking for a variety of business applications. Remote employees in branch offices, small businesses, and telecommuters working from home enjoy secure connectivity to the Internet, corporate private networks and more from desktops, laptops and other mobile devices. Enterprise users can take advantage of the AP 5131 Access Point's mesh features to extend corporate networks to difficult-to-cable-areas - both indoors and outdoors.

Simple to deploy, this all-in-one-solution offers 802.11a/b/g wireless networking flexibility, the latest wired and wireless security standards, and the speed required to support the most demanding applications - including voice and video. The AP 5131 has been engineered for rugged durability in nearly any environment, while being easy to manage either locally or remotely, making it the ideal total networking solution for both smaller and difficult-to-cable locations.

Client Solutions

CB 3000 Client Bridge

Extend affordable and secure 802.11a/b/g wireless connectivity to multiple Ethernet devices - including cash registers, scales, time clocks and more

CB 3000 Client Bridge provides affordable and reliable wireless connectivity for Ethernet devices that do not have a PC or PCI card slot. Connect everything from printers, scales and medical equipment, to manufacturing machinery, bar code readers, time clocks, cash registers and other data collection devices via an RJ-45 port. This cost-efficient connection point can support up to 16 wireless clients via an Ethernet hub. And advanced security capabilities protect your traffic from being deciphered and your network from unauthorized access.

Compact Flash Card

The Wireless Networker Compact Flash card delivers 802.11b wireless connectivity to today's pocket PCs, PDAs, computers and embedded equipment with CF sockets or CF-to-PC card adapters.

Management Solutions

Wireless IPS Sensor License

Next-generation split intelligence architecture proactively protects your wireless network,

mobile devices and traffic from attacks and unauthorized access.

Wireless Intrusion Protection System (IPS) is the choice for around-the-clock protection, guarding you 802.11a/b/g wireless network infrastructure, client devices and traffic from a wide variety of threats, and providing the monitoring capability to ensure peak WLAN performance every day. Attacks and unauthorized access to the network are reported in real time to enable immediate response to threats. Network vulnerabilities are also identified, enabling correction before potential security issues arise. And the latest technology innovations provide an architecture that is scalable, simple to deploy, and easy to upgrade; delivering outstanding investment protection and lowered overall cost of ownership to the customer.

Wireless Intrusion Protection System (IPS) provides location tracking, standard compliance reports, and around-the-clock security for 802.11a/b/g wireless networks, identifying attacks, rogues, and network vulnerabilities.

RF Management Software

Speed planning and monitoring of your Wi-Fi network

Empower network administrators with the ability to plan, manage, troubleshoot and monitor your Wi-Fi site from centralized easy-to-use browser-based application.

Features and benefits of the RF Management Software

- Graphical display of key performance indicators and real-time network statistics for fast, easy monitoring and troubleshooting.
- Full Wi-Fi network planning suite for fast, cost-efficient deployment (RF heat maps display optimal AP placement)
- Advanced device search speeds location of specific pieces of equipment
- Ability to export network data as a CSV-file spreadsheet facilitates data analysis

RF Management Software is an intuitive, browser-base, visual management tool for Wi-Fi site planning, management, troubleshooting and monitoring. RF heat maps display optimal AP placement as an aid to planning, while key performance indicator (KPI) graphs represent network health at a glance. Users can view the status and location of wireless infrastructure devices and clients, search for specific pieces of equipment, identify rogue APs, troubleshoot network issues, generate reports and export raw data. Statistics such as RF coverage, load balancing, redundancy, security threat level and network utilization are graphically displayed, allowing IT professionals to instantly assess network status.

ML-2499/5299 Omni Directional Antennas

Indoor/Outdoor High Performance OD 5 dBi

Part #: ML-2499-HPA3-01

Environment: Indoor/Outdoor Frequency: 2400-2500 MHz Gain: 5 dBi Beam Width: 32°
Mount Style: Mast Dimensions: 11.5 in./29.2 cm Weight: 0.3 lb/14 kg Connector and Cable Type: RBN-Male, 4 ft/1.2 m Plenum Coax Operating Temperature: -40° F to 158° F/-40°.

High Performance Fixed Point Dipole 3.5 dBi

Part #: ML-2499-APA2-01

Environment: Indoor Frequency: 2400-2500 MHz, Gain: 3.5 dBi Beam Width: 70° Mount Style: Fixed-Point Dimensions: 5.4 in/13.7 cm Weight: 1oz/28.4g Connector and Cable Type: RBN-Male Operating Temperature: -22° F to 158° F/-30° C to 70° C

High Performance Fixed Point Dipole 2dBi

Part #: ML-2499-APA1-01

Environment: Indoor Frequency: 5150-5350 MHz, 5725-5875 MHz Gain: 2 dBi Beam Width: 60° Mount Style: Fixed-Point Dimensions: 5.4 in/13.7 cm Weight: 1oz/0.3g Connector and Cable Type: RSMA-Female Operating Temperature: -22° F to 158° F/-30° C to 70° C

Indoor/Outdoor High Performance OD 5 dBi

Part #: ML-5299-HPA1-01

Environment: Indoor/Outdoor Frequency: 5150-5875 MHz Gain: 5 dBi Beam Width: 17° Mount Style: Mast Dimensions: 11.5 in./29.2 cm Weight: 4.2 oz/.12 kg Connector and Cable Type: RSMA-Female, 4 ft/1.2 m Plenum Coax Operating Temperature: -40° F to 158° F/-40°.

Wireless IPS Sensor License:

SW-WIPS-LIC-001-WW	1 Wireless IPS Sensor License
SW-WIPS-LIC-010-WW	10 Wireless IPS Sensor License
SW-WIPS-LIC-100-WW	100 Wireless IPS Sensor License

Configuration

Models

RFS7000

Description	Full Description	Nomenclature	APC	Price
KIT: SWITCH: RFS7000 WITH 128 PORTS	-	RFS-7010-10010-WR	832	\$18,000.00
KIT: SWITCH: RFS7000 WITH 256	-	RFS-7010-10020-	832	\$25,000.00

PORTS		WR		
KIT: SWITCH: RFS7010 WITH NO PORTS	-	RFS-7010-100R0-WR	832	\$8,000.00

Note: The RFMT-LIC-100-WW (SWITCH: RFS7000 SERIES 1U), RFS-7010-1000-WR (SWITCH: RFS7000 SERIES 1U), and RFS-7010-10030-WR (KIT: WIRELESS SWITCH RFS7000 W/ 64 PORTS) will be available soon.

WS-5100

Description	Full Description	Nomenclature	APC	Price
KIT: WS5100 SWITCH; 30-PORT LICENSE	-	WS-5100-30-WWR	832	\$8,595.00
KIT: WS5100 SWITCH; 18-PORT LICENSE	-	WS-5100-18-WWR	832	\$5,377.00
KIT: WS5100 SWITCH; 48-PORT LICENS	-	WS-5100-48-WWR	832	\$13,392.00
KIT: WS5100 SWITCH; 6-PORT LICENSE	-	WS-5100-06-WWR	832	\$2,179.00
KIT: WS5100 SWITCH; 36-PORT LICENSE	-	WS-5100-36-WWR	832	\$10,194.00
KIT: WS5100 SWITCH; 42-PORT LICENSE	-	WS-5100-42-WWR	832	\$11,793.00
KIT: WS5100 SWITCH; 24-PORT LICENSE	-	WS-5100-24-WWR	832	\$6,976.00
KIT: WS5100 SWITCH; REDUNDANT LICENSE	-	WS-5100-RS-WWR	832	\$1,961.00
KIT: WS5100 SWITCH; 12-PORT LICENSE	-	WS-5100-12-WWR	832	\$3,778.00

AP-5181

AP-5131

WS-2000

Description	Full Description	Nomenclature	APC	Price
WS2000 WITH 1 AP300(802.11a/b/g)	-	WS-2000-1C-ABG- WWR	832	\$1,349.00
WS2000 WITH 2 AP300(802.11a/b/g)	-	WS-2000-2C-ABG- WWR	832	\$1,499.00

AP-300

Description	Full Description	Nomenclature	APC	Price
AP300:802.11A/G, EXTERNAL ANTENNA	-	WSAP-5100-100- WWR	832	\$345.00
AP300:802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-100- WWR	832	\$345.00
AP300:802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-050- WWR	832	\$289.00
AP300: 802.11G, EXTERNAL ANTENNA	-	WSAP-5100-050- WWR	832	\$289.00

CB-3000

Wireless IPS Server & Management Software

Service

Description	Full Description	Nomenclature	APC	Price
3YR CB-3000 Support-ADVEXG-Brz Pkg	-	SXB-CB3000- 30	832	\$100.00
1YR WS2000-ONSITE-Brz Pkg	-	OSB-WS2000- 10	832	\$109.00
1YR ACCESS PT 5131 SPPRT-ADVEXG- BRZ PKG	-	AXB-AP5131- 10	832	\$72.00

1YR WS2000-ADVEXG-Brz Pkg	-	AXB-WS2000-10	832	\$87.00
1YR CB-3000 Support-ONSITE-Brz Pkg	-	OSB-CB3000-10	832	\$80.00
1YR CB-3000 Support-ADVEXG-Brz Pkg	-	AXB-CB3000-10	832	\$43.00
3YR CB-3000 Support-ONSITE-Brz Pkg	-	SOB-CB3000-30	832	\$194.00
1YR ACCESS PT 5131 SPPRT-ONSITE-BRZ PKG	-	OSB-AP5131-10	832	\$90.00

Accessory

Description	Full Description	Nomenclature	APC	Price
ANT:2.4-5.2GHZ DUALBAND,DP,2DBI,SMARP-F	-	ML-2452-APA2-01	832	\$25.00
CORD:PWR,18AWG,10A,250V,USA	-	50-16000-221R	832	\$15.00
ANT:5.5 GHz, DPA, 5dBi, CBL 36 RPSMA-F	-	ML-5299-HPA1-01R	832	\$165.00
CABLE: JUMPER, RP-SMA(M) TO RP-BNC(	-	25-72178-01	832	\$10.00
ANT:5.5 GHz, DP AJ,2dBi,CBL 0,SMARP-F	-	ML-5299-APA1-01R	832	\$61.00

Compact Flash Cards

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ESYB	25-72178-01	CABLE: JUMPER, RP-SMA(M) TO RP-BNC(832	7
SYSPERIPH	CDP	AXB-AP5131-10	1YR ACCESS PT 5131 SPPRT-ADVEXG-BRZ PKG	832	15
SYSPERIPH	CDP	AXB-CB3000-10	1YR CB-3000 Support-ADVEXG-Brz Pkg	832	15
SYSPERIPH	CDP	AXB-WS2000-10	1YR WS2000-ADVEXG-Brz Pkg	832	15
SYSPERIPH	MWR	ML-2452-APA2-01	ANT:2.4-5.2GHZ DUALBAND,DP,2DBI,SMARP-F	832	21
SYSPERIPH	CDP	ML-2452-APA2-01	ANT:2.4-5.2GHZ DUALBAND,DP,2DBI,SMARP-F	832	9
SYSPERIPH	ESYB	ML-2452-APA2-01	ANT:2.4-5.2GHZ DUALBAND,DP,2DBI,SMARP-F	832	15
SYSPERIPH	CDP	ML-5299-HPA1-01R	ANT:5.5 GHz, DPA, 5dBi, CBL 36 RPSMA-F	832	42
SYSPERIPH	CDP	OSB-AP5131-10	1YR ACCESS PT 5131 SPPRT-ONSITE-BRZ PKG	832	15
SYSPERIPH	CDP	OSB-CB3000-10	1YR CB-3000 Support-ONSITE-Brz Pkg	832	15
SYSPERIPH	CDP	OSB-WS2000-10	1YR WS2000-ONSITE-Brz Pkg	832	15
SYSPERIPH	CDP	RFS-7010-10010-WR	KIT: SWITCH: RFS7000 WITH 128 PORTS	832	28
SYSPERIPH	CDP	RFS-7010-10020-WR	KIT: SWITCH: RFS7000 WITH 256 PORTS	832	28
QUOTEDS	ESYB	RFS-7010-100R0-WR	KIT: SWITCH: RFS7010 WITH NO PORTS	832	40

QUOTEDS	CDP	RFS-7010-100R0-WR	KIT: SWITCH: RFS7010 WITH NO PORTS	832	28
SYSPERIPH	CDP	SOB-CB3000-30	3YR CB-3000 Support-ONSITE-Brz Pkg	832	15
SYSPERIPH	CDP	SXB-CB3000-30	3YR CB-3000 Support-ADVEXG-Brz Pkg	832	15
SYSPERIPH	CDP	WS-5100-12-WWR	KIT: WS5100 SWITCH; 12-PORT LICENSE	832	57
SYSPERIPH	CDP	WS-5100-18-WWR	KIT: WS5100 SWITCH; 18-PORT LICENSE	832	28
SYSPERIPH	CDP	WS-5100-24-WWR	KIT: WS5100 SWITCH; 24-PORT LICENSE	832	28
SYSPERIPH	CDP	WS-5100-30-WWR	KIT: WS5100 SWITCH; 30-PORT LICENSE	832	28
SYSPERIPH	CDP	WS-5100-36-WWR	KIT: WS5100 SWITCH; 36-PORT LICENSE	832	28
SYSPERIPH	CDP	WS-5100-42-WWR	KIT: WS5100 SWITCH; 42-PORT LICENSE	832	28
SYSPERIPH	CDP	WS-5100-RS-WWR	KIT: WS5100 SWITCH; REDUNDANT LICENSE	832	28
SYSPERIPH	CDP	WSAP-5110-100-WWR	AP300:802.11A/G, INTERNAL ANTENNA	832	187

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



This Radio is: **DISCONTINUED**

**ASTRO® XTL 1500 Digital Mobile™
FLASHport® Aftermarket Upgrades
Conventional and Trunked Radio
Systems**

Ordering Information

General Information

This Radio is: **DISCONTINUED**

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package, to upgrade to a different System Enhancement Software Package, or to order enhancements for existing ASTRO XTL 1500 digital radios in the field. FLASHport Upgrade Kits contains upgrade software and upgrade documentation.

Ordering Requirement

1. Specify the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7190, T7191, T7192, T7193) and order quantity 1 at \$0 (No Charge).
2. Choose the *desired* System Enhancement Software Package and/or System Enhancement Options and enter as sub-items.
3. FLASH Model (factory model number) and **EXISTING** FLASH code must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and FLASH code. (**EXISTING** FLASH code can be read using the RS-232 Flash/programming cable (HKN6183) and CPS (RVN4185/RVN4186) and/or from the radio display in service mode.)

4. ALL Sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is **always** 1.

*NOTE: A software option (G871) can be ordered to "enhance" your current mobile operation or along with a system software upgrade. G871 should be ordered if customers require any of the capacity and feature capabilities described below:

- Enhancements to a DIGITAL system include: 255 channels, ADP, Data Capability, 16 trunked systems, 16 trunked personalities, 20 call lists, 25 call list members, and 20 scan lists.

OR

- Enhancements to an ANALOG system include: 255 channels, 16 trunked systems, 16 trunked personalities, 20 call lists, 25 call list members, and 20 scan lists. Note: This enhancement package does NOT include ADP or Data capability.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7190	T7191	T7192	T7193
	<i>Digital Conventional</i>	<i>3600 Analog</i>	<i>3600 Analog / Digital</i>	<i>9600 Trunking</i>
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Digital Conventional Refresh (G790)	X	N/A	N/A	N/A
ENH: Digital Conventional to 3600 Analog/Digital (G789)	X	N/A	N/A	N/A
ENH: Digital Conventional to 9600 Trunking (G788)	X	N/A	N/A	N/A
ENH: Analog 3600 Refresh (G809)	N/A	X	N/A	N/A
ENH: Analog 3600 to 3600 Analog / Digital (G789)	N/A	X	N/A	N/A
ENH: Analog 3600 to 9600 Trunking (G788)	N/A	X	N/A	N/A
ENH: 3600 Analog / Digital Refresh (G789)	N/A	N/A	X	N/A
ENH: 3600 Analog / Digital to 9600 Trunking (G788)	N/A	N/A	X	N/A

ENH: 9600 Digital Refresh (G788)	N/A	N/A	N/A	X
SOFTWARE ENHANCEMENT (List as sub item)				
ENH: Software Enhancement Package (G871)	X	X	X	X

Aftermarket Software below is **NOT** discountable and **DO NOT** include field programming. Pricing reflects per radio upgrade charge.

FCC Information

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

Ç Canada personnel refer to Section A under **CANADA ONLY** information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL PACKAGE	Analog and Digital Conventional	T7190	430	\$0.00
3600 ANALOG PACKAGE	Analog conventional and analog trunking	T7191	430	\$0.00
3600 ANALOG / DIGITAL TRUNKING PACKAGE	Analog and digital conventional Analog and digital 3600 trunking	T7192	430	\$0.00
9600 DIGITAL TRUNKING PACKAGE	Digital 9600 trunking	T7193	430	\$0.00

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price

ENH: 9600 DIGITAL BAUD	-	G788	430	\$630.00
ENH: TRUNK 9600 FROM 3600 ANALOG / DIGITAL	-	G788AN	430	\$115.00
ENH: TRUNK 9600 FROM DIGITAL CONV	-	G788AP	430	\$575.00
ENH: TRUNK 9600 FROM 3600 ANALOG	-	G788AQ	430	\$460.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$345.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$345.00
ENH: TRUNK 3600 DIGITAL FROM DIGITAL CONVENTIONAL	-	G789AQ	430	\$575.00
ENH: TRUNK 3600 FROM 9600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	G789AR	430	\$115.00
ENH: DIGITAL CONVENTIONAL REFRESH	-	G790AJ	430	\$75.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$230.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$230.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$230.00
ENH: RADIO SOFTWARE REFRESH XTL 1500	-	G880AC	430	\$86.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO TRACE	Cannot be used on P25.	G170AJ	430	\$86.00
ENH: SOFTWARE ENHANCEMENT PACKAGE	-	G871AB	430	\$230.00

ENH: OVER THE AIR PROGRAMMING	Requires 9600 Astro Digital Enhance (G964). For T7191, if ordered or G996 and G788AQ (Trunk 9600) is ordered but G871 is not; then G791 must be decoded and W947 and G193 must be added.	G996AR	430	\$115.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL1500	Switches a XTL 1500 radio model number from a rebanding model number M28URS9PW2_N to a standard model M28URS9PW1_N.	QA00276AA	430	\$460.00

Software Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SOFTWARE DSP BASED				

CRYPTO	-	G193	500	\$10.00
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UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$130.00
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$0.00
ENH: SW ENHANCEMENT PACKAGE ANALOG	-	G791	775	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: XTL1500 RADIO AUTHENTICATION	-	W391CU	430	\$115.00

Accessories

Microphones

Description	Full Description	Nomenclature	APC	Price
WATER RESISTANT MICROPHONE	NOTE for EMEA: This item is non-EPP Compliant	HMN1089	500	\$68.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
XTL5000 KEYPAD MICROPHONE	-	HMN4079D	706	\$320.00
MODEL III KEYPAD TELEPH HANDSET KIT	-	HMN4097A	706	\$295.00
XTL MOBILE DESKTOP MIC	-	RMN5083A	706	\$169.00
SOFTWARE,CPS R20.01.00 ASTRO XTL MOBILE	-	RVN4185AW	371	\$265.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PGF	HMN1089	WATER RESISTANT MICROPHONE	500	4
PARTS	PGF	HMN4079D	XTL5000 KEYPAD MICROPHONE	706	1
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	HMN4097A	MODEL III KEYPAD TELEPH HANDSET KIT	706	14
PARTS	CDP	RMN5083A	XTL MOBILE DESKTOP MIC	706	3
MOBILES	PGF	RVN4185AW	SOFTWARE,CPS R20.01.00 ASTRO XTL MOBILE	371	57
MOBILES	CDP	RVN4185AW	SOFTWARE,CPS R20.01.00 ASTRO XTL MOBILE	371	5
DATATERM	SCB	T7190	DIGITAL CONVENTIONAL PACKAGE	430	20
DATATERM	SCB	T7191	3600 ANALOG PACKAGE	430	5
DATATERM	SCB	T7192	3600 ANALOG / DIGITAL TRUNKING PACKAGE	430	1
DATATERM	SCB	T7193	9600 DIGITAL TRUNKING PACKAGE	430	8

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



NOTE in June 2019: DISCONTINUED

**ASTRO® XTL 2500 Digital Mobile™
FLASHport® Aftermarket Upgrades
Conventional and Trunked Radio System**

Ordering Information

General Information

NOTE in June 2019: DISCONTINUED

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package, to upgrade to a different System Enhancement Software Package, or to order enhancements for existing ASTRO XTL 2500 Digital radios in the field. FLASHport Upgrade Kit contains upgrade software and upgrade documentation.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as your main line item (**T7244, T7245, T7246 or T7247**), and order quantity 1 at \$0 (No Charge).
2. Choose the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Option (s) and enter as sub-items.
3. FLASH Model (factory model number) and FLASH code must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and **EXISTING** FLASH code. (**EXISTING** FLASH code can be read from using ASTRO Digital Spectra Plus Flash/programming cable (HKN6155) and CPS (RVN1465/RVN4166) and/or from the radio display in service mode.)

4. ALL Sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7244	T7245	T7246	T7247
	<i>ANALOG CONVENTIONAL PKG</i>	<i>DIGITAL CONVENTIONAL</i>	<i>ANALOG SMARTZONE</i>	<i>DIGITAL SMARTZONE</i>
OPERATION MODES (List as sub items)				
ENH: ASTRO Digital CAI Operation G808	X	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Upgrade to Conventional G344	X	X	N/A	N/A
ENH: Upgrade to SmartZone® G347	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS (List as sub items)				
ADD: ID Display (4- 8 Numeric Characters) G114 (NOTE 1)	X	X	X	X
ENH: SmartZone OmniLink™ Operation G173 (NOTE 2)	N/A	N/A	X	X
ENH: Project 25 9600 Baud Trunking G361 (NOTE 3)	N/A	N/A	N/A	X

ENCRYPTION ENHANCEMENT OPTIONS (List as sub items) - Radios must contain SECURENET® Encryption to add Encryption Enhancement Options (NOTE 4)				
ADD: Multikey Operation W969	X	X	X	X

NOTE 1: ID Display uses ASTRO Signaling in digital mode and MDC signaling in analog model. Consequently, it is not available in Trunked analog modes.

NOTE 2: For Feature Details, see Mobile Section under the General Information page, for System Enhancement Software Feature Packages on ASTRO XTL 2500 Digital Mobile.

NOTE 3: SmartZone operation (either G51 from factory or G347 from FLASHport) and IMBE ASTRO Digital (either G806 from factory G808 from FLASHport) must reside in radio for operation of this feature set. The G173 (OmniLink) is included at "No Charge" with this option.

NOTE 4: See Encryption Field Upgrade Kits' Section under the General Information on the ASTRO XTL 2500 700/800 MHz Digital Mobile page, if radios do not currently contain encryption.

Aftermarket Software below is NOT discountable and DO NOT include field programming. Pricing reflects per radio upgrade charge.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7244	430	\$0.00

DIGITAL CONVENTIONAL PACKAGE	-	T7245	430	\$0.00
Analog Smartzone	-	T7246	430	\$0.00
DIGITAL SMARTZONE	-	T7247	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Consolette	G808	332	\$670.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618,H1619 ASTRO Spectra PLUS models: T6929,T6930 and XTL 5000 models: T6995,T6996	G344	332	\$98.00
ENH: UPGRADE TO SMARTZONE	Upgrade from Conventional software to SmartZone Trunking software.	G347AN	430	\$920.00
ENH: RADIO SOFTWARE REFRESH FOR XTL 2500	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AG	430	\$86.00

Systems Enhancement Options

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Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$98.00
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$98.00
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$260.00
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Omnilink)	G361AG	430	\$390.00
ENH: MLTCST VOTNG SCAN	-	G387AA	430	\$260.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$98.00
ENH: OVER THE AIR PROGRAMMING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AK	430	\$115.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$260.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL2500	Switches a XTL 2500 radio model number from a rebanding model number M21URM9PW2_N to a standard model M21URM9PW1_N.	QA00277AA	430	\$460.00

ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$98.00
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Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$98.00
ENH: TACTICAL REKEY WITH MULTIKEY	Must order IV&D(Q947). Tactical OTAR is not compatible with DVRs QA00631.	H04AR	430	\$575.00
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$429.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$130.00
ADD: XTL2500 RADIO AUTHENTICATION	-	W391CT	430	\$115.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SYSPERIPH	SCB	T7244	ANALOG CONVENTIONAL	430	2
DATATERM	SCB	T7245	DIGITAL CONVENTIONAL PACKAGE	430	15

SYSERIPH	SCB	T7246	Analog Smartzone	430	8
SYSERIPH	SCB	T7247	DIGITAL SMARTZONE	430	10

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[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® XTL 5000 Digital Mobile™
ASTRO® XTL 5000 Console
FLASHport® Aftermarket Upgrades
Conventional and Trunked Radio System

Updates

This Radio is: **DISCONTINUED**

XTL 5000 Last Order Entry Date : December 31, 2016

XTL 5000 Last Scheduled Ship Date: January 31st, 2017

[XTL 5000 FLASHport Price Escalation & Notification of Intent to Cancel Memo](#)

** Alternative products include the APX Series **

[APX7500 / APX6500](#)

Ordering Information

General Information

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package, to upgrade to a different System Enhancement Software Package, or to order enhancements for existing ASTRO XTL 5000 Digital radios in the field. FLASHport Upgrade Kit contains upgrade software and upgrade documentation.

Ordering Requirements

1. Specify the current System Enhancement Software Package that represents the software in the radio as your main line item (**T6995, T6996, T6997, T6998, T6999, or T7000**), and order quantity 1 at \$0 (No Charge).
2. Choose the desired Operational Mode, System Enhancement Software Package, and/or System Enhancement Option (s) and enter as sub-items.
3. FLASH Model (factory model number) and **EXISTING** FLASH code must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and FLASH code. (**EXISTING** FLASH code can be read from using ASTRO Digital Spectra Plus Flash/programming cable (HKN6155) and CPS

(RVN1465/RVN4166) and/or from the radio display in service mode.)

4. ALL Sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.

CURRENT SYSTEM SOFTWARE PACKAGE

	T6995	T6996	T6997	T6998	T6999	T7000
	<i>ANALOG CONVENTIONAL PKG</i>	<i>DIGITAL CONVENTIONAL</i>	<i>ANALOG SMARTNET</i>	<i>DIGITAL SMARTNET</i>	<i>ANALOG SMARTZONE</i>	<i>DIGITAL SMARTZONE</i>
OPERATION MODES (List as sub items)						
ENH: ASTRO Digital CAI Operation G808	X	N/A	X	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)						
ENH: Upgrade to Conventional G344	X	X	N/A	N/A	N/A	N/A
ENH: Upgrade to SMARTNET® G346	X	X	X	X	N/A	N/A
ENH: Upgrade to SmartZone® G347	X	X	X	X	X	X
SYSTEM ENHANCEMENT OPTIONS(List as sub items)						
ADD: ID Display (4-8 Numeric Characters) G114 NOTE 1	X	X	X	X	X	X
ENH: SmartZone OmniLink™ Operation G173 NOTE 2	N/A	N/A	N/A	N/A	X	X
ENH: Project 25 9600 Baud Trunking G361 NOTE 3	N/A	N/A	N/A	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS (List						

as sub items) - Radios must contain SECURENET® Encryption to add Encryption Enhancement Options NOTE 4						
ADD: Multikey Operation W969	X	X	X	X	X	X
ADD: ASTRO P25 and MDC™ OTAR (includes Multikey) G298	X	X	X	X	X	X

NOTE 1: ID Display uses ASTRO Signaling in digital mode and MDC signaling in analog model. Consequently, it is not available in Trunked analog modes.

NOTE 2: For Feature Details, see Mobile Section under the General Information page, for System Enhancement Software Feature Packages on ASTRO XTL 5000 Digital Mobile.

NOTE 3: SmartZone operation (either G51 from factory or G347 from FLASHport) and IMBE ASTRO Digital (either G806 from factory G808 from FLASHport) must reside in radio for operation of this feature set. The G173 (OmniLink) is included at "No Charge" with this option.

NOTE 4: See Encryption Field Upgrade Kits' Section under the General Information on the ASTRO XTL 5000 700/800 MHz Digital Mobile page, if radios do not currently contain encryption.

Aftermarket Software below is NOT discountable and DO NOT include field programming. Pricing reflects per radio upgrade charge.

FCC Information

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Ç Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® XTL 5000 DIGITAL Mobile 700/800MHz

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T6995	430	\$0.00
DIGITAL SMARTNET	-	T6998	430	\$0.00
DIGITAL CONVENTIONAL PACKAGE	-	T6996	430	\$0.00
ANALOG SMARTZONE	-	T6999	430	\$0.00
ANALOG SMARTNET PACKAGE	-	T6997	430	\$0.00

DIGITAL SMARTZONE	-	T7000	430	\$0.00
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Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Console	G808	332	\$670.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE TO DIGITAL CONVENTIONAL	ONLY Compatible with T6930	G344	332	\$98.00
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6769	G347	430	\$75.00
ENH: SMARTNET UPGRADE	ONLY Compatible with T6767, T6766	G346	430	\$98.00
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618,H1619 ASTRO Spectra PLUS models: T6929,T6930 and XTL 5000 models: T6995,T6996	G344	332	\$98.00
ENH: UPGRADE TO SMARTNET MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G346	430	\$650.00
ENH: UPGRADE TO SMARTNET	Compatible with ASTRO Spectra models: H1620, H1621 and ASTRO Spectra PLUS models: T6766 and T6767	G346	430	\$98.00
ENH: UPGRADE TO DIGITAL SMARTNET	ONLY Compatible with T6930	G346	430	\$650.00
ENH: UPGRADE TO SMARTZONE	Compatible with ASTRO Spectra models H1618 & H1619, ASTRO Spectra PLUS models T6929 & T6930, XTL T6996 and T6995.	G347	430	\$1,040.00
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6930	G347	430	\$800.00
ENH: SMARTZONE UPGRADE	Compatible with ASTRO Spectra models: H1620 & H1621	G347	430	\$400.00

ENH: SMARTZONE UPGRADE	Compatible with T6766 & T6767, T6997, T6998	G347	430	\$400.00
ENH: SMARTZONE UPGRADE	Software Refresh. Compatible with ASTRO Spectra models - H1622, H1623; XTL 5000 models - T6999, T7000; XTL 2500 models - T7246, T7247 and ASTRO Spectra PLUS models - T6768, T6769.	G347	430	\$98.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$115.00
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$260.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AL	430	\$130.00
ENH: RADIO SWFT REFRESH-XTL 5000	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AB	430	\$98.00
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Omnalink)	G361AG	430	\$390.00
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$98.00
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$98.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$260.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$98.00

ENH: MLTCST VOTNG SCAN	-	G387AA	430	\$260.00
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UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: XTL5000 RADIO AUTHENTICAT	Requires G361	W391CS	430	\$130.00
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$98.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multikey Operation	G298AQ	430	\$962.00
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$429.00
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$98.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$130.00
ADD: CHANNEL SCAN WITH VRS	-	W357BB	430	\$25.00
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$0.00

Accessories

FLASHport

Description	Full Description	Nomenclature	APC	Price
FLASHPORT KIT, XTL 5000 RADIO	-	DVN4026	430	\$0.00

Replacement Kits

Description	Full Description	Nomenclature	APC	Price
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00
ADV'D SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00

UNDEFINED

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SOFTWARE	SCB	DVN4026	FLASHPORT KIT, XTL 5000 RADIO	430	40
PORTABLES	SCB	DVN4049	ADV'D SYSTEM KEY IBUTTON REPLACEMENT	362	15
PORTABLES	SCB	DVN4050	ADV'D SYSTEM KEY READER REPLACEMENT	362	27
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
SOFTWARE	SCB	T6995	ANALOG CONVENTIONAL	430	3
SOFTWARE	SCB	T6996	DIGITAL CONVENTIONAL PACKAGE	430	12
SOFTWARE	SCB	T6997	ANALOG SMARTNET PACKAGE	430	3
SOFTWARE	SCB	T6998	DIGITAL SMARTNET	430	7
SOFTWARE	SCB	T6999	ANALOG SMARTZONE	430	2
SOFTWARE	SCB	T7000	DIGITAL SMARTZONE	430	51

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**ASTRO® Digital XTL 5000 Mobile
FLASHport®
Universal Crypto Module (UCM) Upgrades
764-870 MHz Band
Secure/Conventional/Trunked Radio Systems**



Updates

**CANCELLATION ON DECEMBER 31, 2016
FINAL ORDERS MUST BE SUBMITTED PRIOR TO THIS DATE
[CANCELLATION NOTICE](#)**

Ordering Information

General Information

The ASTRO Digital XTL/XTL 5000, 2500, Consolette Mobile & Portable FLASHport Universal Crypto Module (UCM) upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded UCM based encrypted ASTRO Digital XTL/XTS 5000, 2500, Consolette Mobile & Portable without having to replace the UCM. ASTRO Digital XTL/XTS 5000, 2500, Consolette Mobile & Portable upgrade kit (T6740)

includes one PCMCIA card and one Subscriber UCM Upgrade Manual.

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
c/o: David Horn
1301 E. Algonquin Rd.
Schaumburg, IL
60196

Ordering Requirements

1. Order PCMCIA UNIVERSAL CRYPTO MODULE (UCM) upgrade kit (T6740). Each upgrade kit consists of a single PCMCIA card that can upgrade up to 100 individual UCM based ASTRO Digital XTL/XTS 5000, 2500, Console Mobile & Portable.
2. Select the *desired* algorithm software upgrade option.
 - Only one (1) encryption algorithm type can be ordered per upgrade kit.
 - Specify the number of software upgrades required.
 - Each individual UCM based ASTRO Digital XTL/XTS 5000, 2500, Console Mobile & Portable requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.
 - The algorithm software options must be ordered in equal number and can not exceed 100 per upgrade kit option.
3. The ASTRO Digital XTL 5000/2500 Mobile FLASHport UCM upgrade requires the use of a key loading device (KVL 3000 or KVL 3000 Plus) and a PCMCIA card to deliver the new software to the UCM. When upgrading the UCM module with AES Encryption, a KVL 3000 Plus is required to FLASH upgrade the module (KVL 3000 does not support AES).

The following example will provide an upgrade card to upgrade twenty (20) fielded UCM based ASTRO Digital XTL/XTS 5000, 2500, Console Mobile & Portable with the AES algorithm.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T6740	PCMCIA UNIVERSAL CRYPTO MODULE (UCM) UPGRADE
1a	20	CA00182AH	ADD: AES Encryption Software

NOTE: FOR ALL ORDERS, IT IS REQUESTED THAT THE PCMCIA CARDS BE RETURNED TO MOTOROLA, WHEN UPGRADING IS COMPLETE.

PCMCIA CARDS MAY BE RETURNED TO:

Motorola Solutions
c/o: David Horn
1301 E. Algonquin Rd.
Schaumburg, IL
60196

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Model

Description	Full Description	Nomenclature	APC	Price
PCMCIA UNIVERSAL CRYPTO (UCM) UPGRADE CARD	-	T6740	526	\$125.00

Options

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DES, DES-XL, DES-OFB ENCRYPTION	-	CA00840AF	500	\$599.00
ADD: DVP-XL ENCRYPTION	-	CA00146AH	500	\$487.00
ADD: AES ENCRYPTION	-	CA00182AJ	500	\$550.00
ADD: ADP PRIVACY	-	CA00243AC	500	\$75.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	500	\$86.25

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
SOFTWARE	FSC	T6740	PCMCIA UNIVERSAL CRYPTO (UCM) UPGRADE CARD	526	4

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

ASTRO® Digital XTS/XTL 5000 Portable & Mobile
ASTRO® Digital XTL 2500 Mobile
FLASHport
KVL 4000 Universal Crypto Module (UCM) Upgrades
Secure/Conventional/Trunked Radio Systems

Updates

NOTE: These upgrades **ONLY** apply to **XTL/XTS 5000**, and **XTL 2500** subscribers with **MACE UCMs** with firmware version **R07.xx.xx** or higher.

Ordering Information

General Information

The ASTRO Digital New XTS/XTL FLASHport Universal Crypto Module (UCM) upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded UCM based encrypted ASTRO Digital XTS 5000 Portables or XTL 5000 Mobiles or XTL 2500 Mobiles without having to replace the UCM. ASTRO Digital upgrade kit (T8065) includes one Upgrade CD.

Ordering Requirements

1. Order XTS/XTL MACE KVL 4000 upgrade kit (T8065). Each upgrade kit consists of a single CD that can upgrade up to 100 individual UCM based ASTRO Digital XTS 5000 Portables or , XTL 5000 Mobiles.
2. Select the *desired* algorithm software upgrade option.
 - Only one (1) encryption algorithm type can be ordered per upgrade kit.
 - Specify the number of software upgrades required.
 - Each individual UCM requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.
 - The algorithm software options must be ordered in equal number and can not exceed 100 per upgrade kit option.
3. The FLASHport UCM upgrade requires the use of a key loading device (KVL 4000) and a CD.

The following example will provide an upgrade card to upgrade twenty (20) fielded UCM based ASTRO Digital XTS 5000 Portables or XTL 2500, XTL 5000 Mobiles with the AES algorithm.

Item Number	Quantity	Part Number	Description
1	1	T8065	XTS/XTL) MACE KVL 4000 upgrade CD
1a	20	CA00182AG	ADD: AES Encryption Software

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Model and Options

Description	Full Description	Nomenclature	APC	Price
KVL4000 CD FOR MACE UCM	-	T8065	526	\$0.00
ADD: DVI-XL ENCRYPTION SOFTWARE FOR XTS 5000 PORTABLE	-	CA00145AF	721	\$520.00
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AF	721	\$487.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AG	721	\$550.00
ADD: UPGRADING ADP FIELDED UCM	-	CA00243AD	430	\$75.00
ADD: DES/ DES-XL/DES-OFB ENCRYPTION	-	CA00840AD	721	\$599.00
	Provides AES-GCM & EID capability to UCM			

ADD: AES REFRESH	fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613AB	721	\$86.25
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Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T8065	KVL4000 CD FOR MACE UCM	526	4

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 1500 Portable Series
700 / 800 MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

All ASTRO Digital XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The ASTRO Digital XTS 1500 Portable Line offers a Model I radio:

Hardware Model	Modes	Alphanumeric Display - Lines/Characters Per Line	Keypad	Navigation Pad
ASTRO XTS 1500 Model I	48	None	None	No
ASTRO XTS 1500 Model 1.5	256	4 lines / 12 characters	None	No

Operating Modes

ASTRO Digital XTS 1500 Radio Models are capable of operating in three software packages listed below:

- 3.6KB ASTRO Digital/Analog Trunking
- 9.6KB ASTRO 25 Digital Trunking
- 9.6KB APCO P25 Digital Conventional

The ASTRO Digital XTS 1500 Portable is capable of 16 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. Mutual Aid channels 821-824 will be supported. If an incorrect antenna is used, degraded performance may be experienced.

The ASTRO Digital XTS 1500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Please note that the XTS 1500 does NOT support FRED.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870Mhz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

FM INFORMATION

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1 H66UC_9PW5_N ASTRO XTS 1500 Portable

1A Qxxx **System Software**

1B etc **Other options**

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66UCC9PW5 N).
2. Each hardware model **MUST** be ordered with one Operating Mode. One Operating Mode Package **MUST** be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY

Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional

	"ASTRO Digital"(Q575)	"ASTRO Digital"(Q574)	P25 Conventional (Q811)
	Non-Project 25	Project 25	Project 25
	(3600 Baud)	(9600 Baud)	Conventional
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes
12.5/20/25 KHz Programmable			

Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery (NiCAD Only)	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes

DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect	-	-	-

Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No
Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
PTT ID (Digital Only)	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No
Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No
Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	Yes	Yes	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No

Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Programming of the following frequencies are not allowed 772.8000, 774.0000, 856.8000, and 864.0000 MHz

FCC Information

FCC IDENTIFIER: AZ489FT5804

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: ASTRO DIGITAL
XTS2500 PORTABLE

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	16K0F3E

BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	11K0F3E
BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	8K10F1E
BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	8K10F1D
BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	20K0F1E

SUB-BAND PERFORMANCE

700/800 MHz 764-870 MHz in all models

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:

Rx/Tx: 764.006250 to 775.993750

Tx Only: 794.006250 to 805.993750

800 MHz

Tx Only: 806.000000 to 824.993750

Rx/Tx: 851.000000 to 869.993750

[ASTRO® Digital XTS 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (Q574)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

[ASTRO25 Advanced Messaging](#)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
PSM RF ADPT	-	RLN5918	372	\$36.00

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY- INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Bluetooth, Mission Critical Wireless

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN				

ACTION SNAP	-	NTN8383	271	\$10.50
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Charger

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Update History

XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

[XTS 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series **– [APX1000 \(Available - August 2014\)](#)**

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK	742	2

			DISCONNECT LATCH		
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION	271	20

			SNAP		
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	RLN5918	PSM RF ADPT	372	5
PARTS	CDP	RLN5918	PSM RF ADPT	372	5
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 1500 Portable Series
UHF Range 1 and UHF Range 2
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

All ASTRO Digital XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The ASTRO Digital XTS 1500 Portable Line offers a Model I radio:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
ASTRO XTS 1500 Model I	48	None	None	No
ASTRO XTS 1500 Model 1.5	256	4 lines/12 characters	None	No

Operating Modes

ASTRO Digital XTS 1500 Radio Model is capable of operating in three software packages listed below:

- 3.6KB ASTRO Digital/Analog Trunking
- 9.6KB ASTRO 25 Digital Trunking
- 9.6KB APCO P25 Digital Conventional

The ASTRO Digital XTS 1500 Portables are capable of 16 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 1500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications.

The ASTRO Digital XTS 1500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 380-520 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure): 381.535 (secure), 386.400, 389.490 (secure), 393.195, 396.000, 396.300, 405.380 (secure), 413.330 (secure), 414.000, 415.500, 417.770, 420.000, 421.280 (secure), 426.600, 429.230 (secure), 432.000, 432.6125, 434.700, 436.800, 442.3438, 450.000, 453.600, 456.000, 460.800, 462.000, 466.920, 468.000, 470.400, 474.000, 480.000, 486.000, 487.200, 491.490, 492.000 (secure), 497.6950 (secure), 498.000, 502.200 (secure), 504.000, 512.400, 516.000, 516.070, 517.440, 519.120

FM INFORMATION

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as

intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1	H66QD_9PW5_N	ASTRO XTS 1500 Portable UHF R1
1	H66SD_9PW5_N	ASTRO XTS 1500 Portable UHF R2
1A	Qxxx	System Software
1B	etc	Other options

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66QDC9PW5 N or H66SDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY			
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional			
	"ASTRO Digital" (Q575)	"ASTRO Digital" (Q574)	P25 Conventional (Q811)
	Non-Project 25	Project 25	Project 25
	(3600 Baud)	(9600 Baud)	Conventional
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond			

those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect Decode	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No
Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
PTT ID (Digital Only)	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No

Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No
Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	No	No	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No
Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

Green=New XTS 1500 Features

FCC Information

FCC IDENTIFIER: AZ489FT4865

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	90	380.0 - 470.0	5.9	2.0 PM	16K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	11K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1D

BE 90 380.0 - 470.0 5.9 2.0 PM 20K0F1E

FCC IDENTIFIER: AZ489FT4866

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY R4ADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	16K0F3E
BE	80, 90, 90.210	450.0 - 450.0	6.0	2.0 PM	11K0F3E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1D
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	20K0F1E

SUB-BAND PERFORMANCE	
UHF R1	380-470 MHz
UHF R2	450-520 MHz

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[ASTRO Digital XTS 1500 Catalog Sheet](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (Q574)
- Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
PSM RF ADPT	-	RLN5918	372	\$36.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50
UHF HELICAL ANTENNA, 403-435 MHZ	-	NAE6546 R	796	\$16.00

Battery

Description	Full Description	Nomenclature	APC	Price

IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
	Single Muff Lightweight Headset with In-Line PTT Switch			

HEADSET LIGHTWEIGHT	(requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
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Multi Unit Chargers

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 1500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

[XTS 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series ** - [APX1000 \(Available - December 2014\)](#)**

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2

PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	PDC	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	8
PARTS	RNS	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	5
PARTS	PGF	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	56
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	NAE6546 R	UHF HELICAL ANTENNA, 403-435 MHZ	796	5
PORTABLES	CDP	NAE6546 R	UHF HELICAL ANTENNA, 403-435 MHZ	796	5
PORTABLES	CDP	NAE6546 R	UHF HELICAL ANTENNA, 403-435 MHZ	796	5
PORTABLES	CDP	NAE6546 R	UHF HELICAL ANTENNA, 403-435 MHZ	796	5
PORTABLES	PGF	NAE6548	ANTENNA, 470-520MHZ UHF HELICAL	555	10

PORTABLES	AIP	NAE6548	ANTENNA, 470-520MHZ UHF HELICAL	555	10
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT- NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT- NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT- NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT- NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT- NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2

FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	RLN5918	PSM RF ADPT	372	5
PARTS	CDP	RLN5918	PSM RF ADPT	372	5

PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



**ASTRO® Digital XTS 1500 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

Ordering Information

Features

All ASTRO Digital XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

All ASTRO Digital XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The ASTRO Digital XTS 1500 Portable Line offers a Model I radio:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
ASTRO XTS 1500 Model I	48	None	None	No
ASTRO XTS 1500 Model 1.5	256	4 lines/12 characters	None	No

Operating Modes

ASTRO Digital XTS 1500 Radio Model is capable of operating in three software packages listed below:

- 3.6KB ASTRO Digital/Analog Trunking
- 9.6KB ASTRO 25 Digital Trunking
- 9.6KB APCO P25 Digital Conventional

The ASTRO Digital XTS 1500 Portables are capable of 16 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 1500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications.

The ASTRO Digital XTS 1500 portables can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at the discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 147.4450, 147.4475, 147.4500, 151.1975, 151.2000, 153.6000, 161.9975, 162.000, 162.0025, 165.8975, 165.9000, 165.9025, 167.9975, 168.000, 168.0025, 172.0200, 172.0225.

FM INFORMATION

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3C without encryption modules.

The XTS 1500 portable radio when properly equipped with options H223 and Q393 are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D, F, G, T3C with encryption modules.

Ordering Requirements

Ordering procedure is as follows:

1 H66KD_9PW5_NASTRO XTS 1500 Portable

1A Qxxx **System Software**

1B etc **Other options**

1. Order the ASTRO Digital XTS 1500 Portable Series as the main line item (H66KDC9PW5 N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog only and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY			
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional			
	"ASTRO Digital" (Q575)	"ASTRO Digital" (Q574)	P25 Conventional (Q811)
	Non-Project 25	Project 25	Project 25
	(3600 Baud)	(9600 Baud)	Conventional
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 1500 Model 1/1.5	48/256	48/256	48/256
Analog and Digital Operation	Yes	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	No	No
One Touch Operation	No	No	No
Real Time Clock	No	No	No
Surveillance Mode	No	No	No
Keypad Lock	No	No	No
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	No	No	No
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes

Dual Priority Channel Scan	No	No	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	-	-	-
Adaptive Power Control	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes
MDC-1200 Silent Emergency Alarm	No	No	No
MDC-1200 PTT-ID Encode	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes
MDC Status, Status Request. Message	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	Yes	Yes	Yes
Talk Group Call	Yes	Yes	Yes
Group Call Alert™	Yes	Yes	Yes
Talk Group Identification (TGID)	Yes	Yes	Yes
Selective Call (Individual Voice Call)	Yes	Yes	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	Yes
Telephone Interconnect Decode	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Radio Check	-	-	-
Status/Message	No	No	No
Trunking Type II Only Features			
Maximum Number of Trunked Systems-16	Yes	Yes	No
Talkgroup Calls	Yes	Yes	No
PTT ID (Digital Only)	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode	Model I - Encode only Model 1.5 - Encode and Decode
Call Alert Decode	Yes	Yes	No
Dual Mode Scan	Yes	No	No
Failsoft by Talkgroup	Yes	Yes	No
Telephone Interconnect Decode	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	No

Selective Radio Inhibit	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	No
Status/Message	No	No	No
Private/Enhanced Conversation Decode	Yes	Yes	No
Radio Check	No	No	No
Remote Monitor/Radio Trace	No	No	No
Reprogram Request	No	Yes	No
SmartZone® Trunking Type II Only Features			
Voice on Control	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

Green=New XTS 1500 Features

FCC Information

FCC IDENTIFIER: AZ489FT3807

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: Astro XTS2500 Digital Portable Radio

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BC	90.210	136.0 - 174.0	5.7	2.5 PM	11K0F3E
BC	90	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1E
BC	80	136.0 - 174.0	5.7	2.5 PM	11K063E
BC	80	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1D

SUB-BAND PERFORMANCE

VHF 136-174 MHz in all models

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[ASTRO Digital XTS 1500 Catalog Sheet](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (Q574)
- Packet Data Interface (Q947)

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
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BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50
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Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25

BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 1500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

XTS 1500 Notification of Intent to Cancel Memo

**** Alternative product includes the APX Series **– APX1000 (Available - December 2014)**

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	PDC	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	8
PARTS	RNS	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	5
PARTS	PGF	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	56
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1

PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
			MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-		

QUOTEDS	CDP	NMN6258	NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT- NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5

PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50

PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 2500 Portable Series
700/800MHz Band
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 2500 Model I.5, II

and III also include:

- DTMF Telephone Interconnect Capability (Model III ONLY)
- 6 Lines Alphanumeric Display (No Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model
- Keypad Tone Mute (Model II and III ONLY)
- Large Navigational Keypad (Model II and III ONLY)
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.) **Please note that Models 1 and 2 are not available in the Asia Pacific Region**

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The ASTRO Digital XTS 2500 Portable Line offers four different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No

ASTRO XTS 2500 Model 1.5	256	6/12/front mount	None	No
ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

OPERATING MODES

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport® Program. This means that ASTRO Digital XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.*

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 764MHz to 870Mhz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 867.3000, 864.0000.

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46UCH9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog or P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY				
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional				
	"ASTRO Digital" (Q575)	"ASTRO Digital" (Q574)	3600 Analog (Q443)	P25 Conventional(Q811)
	Non-Project 25	Project 25	Type II	Project 25
	(3600 Baud)	(9600 Baud)	(3600 Baud)	Conventional
RADIO WIDE FEATURES				
Maximum Modes				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48
ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware				

Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200 Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes

MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	No
Dual Mode Scan	Yes	No	Yes	No
Failsoft by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	Yes	No
Multi System Scan	Yes	Yes	Yes	N/A

Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT5804

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: ASTRO DIGITAL
XTS2500 PORTABLE

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	16K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	11K0F3E
BH	80, 90, 90.210	764.0 - 870.0	3.0	1.5 PM	8K10F1E

BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	8K10F1D
BH	80, 90, 90.210	764.0 - 870.0 3.0	1.5 PM	20K0F1E

REBANDING Frequency Range for 700/800MHz in the CPS:

700 MHz:

Rx/Tx: 764.006250 to 775.993750

Tx Only: 794.006250 to 805.993750

800 MHz

Tx Only: 806.000000 to 824.993750

Rx/Tx: 851.000000 to 869.993750

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- **XTS 2500 Dual Display**

· **P25 Conventional (Q811)**

· Packet Data Interface (Q947)

OR

· XTS 2500 Dual Display

· ASTRO Project 25 Trunking Software (Q574/Q575)

· Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
PSM RF ADPT	-	RLN5918	372	\$36.00
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Algorithm Kits

Description	Full Description	Nomenclature	APC	Price
SECURE BRD M1.5 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	456	\$811.00
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	456	\$690.00

SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	456	\$690.00
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	456	\$811.00
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	456	\$811.00
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	456	\$811.00
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	456	\$871.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, DIPOLE 806-870MHZ	-	NAF5039	555	\$35.75
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$35.75

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00

BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real- time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

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Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE-PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$243.00
CABLE-PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00

Charger Line Cords

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90

RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00

Microphones

Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455	BDN6664	742	\$41.25

	<p>adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6668	742	\$135.00
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6670	742	\$150.00

<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6726</p>	<p>742</p>	<p>\$41.25</p>
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6730</p>	<p>742</p>	<p>\$135.00</p>
	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783</p>			

<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 &</p>	<p>BDN6732</p>	<p>742</p>	<p>\$150.00</p>

	EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.			
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UNDEFINED

Description	Full Description	Nomenclature	APC	Price
BATT CLAMSHELL, XTS2500	-	NNTN6686B	453	\$90.00

Update History

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

[XTS 2500 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **-**

[APX6000/ APX6000XE/ APX6000Li/APX4000](#)

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3

PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3	742	11

			WIRE)		
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	PDC	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	8
PARTS	RNS	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	5
PARTS	PGF	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	56
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4

PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1

PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PARTS	PGF	HMN4084	SPKR MIC NON-SUBMSBL,GPS RSM	372	2
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3

PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	PGF	NAF5039	ANTENNA, DIPOLE 806-870MHZ	555	13
PORTABLES	CDP	NAF5039	ANTENNA, DIPOLE 806-870MHZ	555	2
PORTABLES	FSC	NAF5039	ANTENNA, DIPOLE 806-870MHZ	555	1
PORTABLES	AIP	NAF5039	ANTENNA, DIPOLE 806-870MHZ	555	10
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN	742	63

			(FM)		
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6686B	BATT CLAMSHELL, XTS2500	453	11
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2

FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	PGF	PMLN4924A	SECURE BOARD M1.5 AES	456	98
PARTS	CDP	PMLN4924A	SECURE BOARD M1.5 AES	456	5
PARTS	CDP	PMLN4925A	SECURE BRD M1.5 DES,DES-XL,DES-OFB	456	2
PARTS	CDP	PMLN4925A	SECURE BRD M1.5 DES,DES-XL,DES-OFB	456	2
PARTS	PGF	PMLN4926A	SECURE BOARD M1.5 ADP	456	98

PARTS	PGF	PMLN4927A	SECURE BOARD M2 AES	456	98
PARTS	CDP	PMLN4927A	SECURE BOARD M2 AES	456	5
PARTS	CDP	PMLN4928A	SECURE BRD M2 DES,DES-XL,DES-OFB	205	2
PARTS	CDP	PMLN4928A	SECURE BRD M2 DES,DES-XL,DES-OFB	205	2
PARTS	PGF	PMLN4929A	SECURE BOARD M2 ADP	205	98
PARTS	CDP	PMLN4930A	SECURE BOARD M3 AES	456	2
PARTS	CDP	PMLN4930A	SECURE BOARD M3 AES	456	2
PARTS	CDP	PMLN4931A	SECURE BRD M3 DES,DES-XL,DES-OFB	456	2
PARTS	CDP	PMLN4931A	SECURE BRD M3 DES,DES-XL,DES-OFB	456	2
PARTS	PGF	PMLN4932A	SECURE BOARD M3 ADP	456	105
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5

FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
PARTS	RNS	RKN4105	CABLE- PROGRAMMING USB	261	0
PARTS	PGF	RKN4105	CABLE- PROGRAMMING USB	261	10
PARTS	CDP	RKN4105	CABLE- PROGRAMMING USB	261	5
PARTS	PGF	RKN4106	CABLE- PROGRAMMING, RS232	261	63
PARTS	CDP	RKN4106	CABLE- PROGRAMMING, RS232	261	2
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN5918	PSM RF ADPT	372	5
PARTS	CDP	RLN5918	PSM RF ADPT	372	5
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43

PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5073B	PSM STRAIGHT CABLE 24IN	372	98
PARTS	CDP	RMN5073B	PSM STRAIGHT CABLE 24IN	372	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
ACCESSORY	PGF	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	34

ACCESSORY	RNS	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	19
ACCESSORY	PDC	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	14
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



XTS 2500 Portable Series
900 MHz Band

Ordering Information

Features

All XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- Audio Gain Control

XTS 2500 Model I.5 and III also include:

- DTMF Telephone Interconnect

- | | |
|---|--|
| Capability (Model III ONLY) | Keypad Tone Mute (Model III ONLY) |
| <ul style="list-style-type: none"> • 4 Lines Alphanumeric Display • Date and Time Stamp | <ul style="list-style-type: none"> • Large Navigational Keypad (Model III ONLY) • Manual Clock |

All XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.). **Please note that Models 1 and 2 are not available in the Asia Pacific Region**

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The XTS 2500 Portable Line offers two different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Display	Navigation Pad
		Lines/Characters			
		per Line			
XTS 2500 Model 1.5	256	6/12/front mount	None	Yes	No
XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes	Yes

OPERATING MODES

XTS 2500 900 MHz Radio Models are capable of operating in Analog Conventional or Analog Trunking communication modes. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the XTS2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport® AFTERMARKET UPGRADES

The XTS 2500 Portable Series Radios are part of the FLASHport® Program. This means that XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require.

The XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 896MHz to 940Mhz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 936 MHz, 939.3 MHz

Ordering Requirements

Ordering procedure is as follows:

1 H46WCD9PW5BN XTS 2500 Portable

**1A Q443 3600 Analog
 Operation**

1B etc

1. Order the XTS 2500 Portable Series as the main line item (H46WCD9PW5BN).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 3600 Analog, Trunking or Conventional Operation.

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT5849

Name of Grantee: Motorola Solutions, Inc.

**Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face
Notes: PORTABLE 2-WAY
RADIO**

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	90	896.0 - 901.0	2.5	1.5 PM	11K0F3E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1D
	90	935.0 - 940.0	2.5	1.5 PM	11K0F3E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1D

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- **XTS 2500 Dual Display**
- **P25 Conventional (Q811)**
- **Packet Data Interface (Q947)**

OR

- XTS 2500 Dual Display
- ASTRO Project 25 Trunking Software (Q574/Q575)
- Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
KEYLOAD ADAPTER	The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6038 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	-	NAF5038	476	\$35.75
ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	-	NAF5042	476	\$25.50

Battery

Description	Full Description	Nomenclature	APC	Price
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BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00
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Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50
2" SPRING BELT CLIP	For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	271	\$11.50

Belt Loops

Description	Full Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger

CPS Software

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00

FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$36.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

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Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer- receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Microphones

Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/NON- SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00

REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
GPS R2 SMART/NON- SUBM RSM	-	HMN4107A	372	\$350.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25
	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece,			

<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6732</p>	<p>742</p>	<p>\$150.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>

	<p>audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6668</p>	<p>742</p>	<p>\$135.00</p>
<p>RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500</p>	<p>BDN6727</p>	<p>742</p>	<p>\$43.25</p>

	<p>& EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>			
<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>	<p>BDN6729</p>	<p>742</p>	<p>\$114.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6670</p>	<p>742</p>	<p>\$150.00</p>

<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6664</p>	<p>742</p>	<p>\$41.25</p>
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6730</p>	<p>742</p>	<p>\$135.00</p>

Customer Programming Software

Update History

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

XTS 2500 Notification of Intent to Cancel Memo

**** Alternative product includes the APX Series **– [APX4000](#)**

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5

PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2

PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	PDC	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	8
PARTS	RNS	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	5
PARTS	PGF	BDN6677	EAR MICROPHONE FOR STANDARD NOISE LEVELS, BLACK	742	56
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
			RECEIVE ONLY EARPIECE WITH EXTRA		

PARTS	CDP	BDN6727	LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1

			WIRE)		
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PARTS	PDC	HLN9844	2" SPRING BELT CLIP	271	6
PARTS	PDC	HLN9844	2" SPRING BELT CLIP	271	6
PARTS	PDC	HLN9844	2" SPRING BELT CLIP	271	6
PARTS	PDC	HLN9844	2" SPRING BELT CLIP	271	6
PARTS	PGF	HMN4084	SPKR MIC NON-SUBMSBL,GPS RSM	372	2
FIXEDSTN	CDP	HMN4112A	GPS R2 SMART/NON-SUBM RSM FM	372	18

FIXEDSTN	CDP	HMN4113A	GPS R2 SMART/SUBM RSM FM	372	1
PORTABLES	SCB	NAF5038	ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	476	1
PORTABLES	SCB	NAF5038	ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	476	1
PORTABLES	FSC	NAF5042	ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	476	5
PORTABLES	FSC	NAF5042	ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	476	5
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2

FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
PARTS	CDP	NTN5243A	CARRY CASE SHOULDER STRAP	271	4
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PORTABLES	CDP	NTN8613	KEYLOAD ADAPTER	476	2
PORTABLES	CDP	NTN8613	KEYLOAD ADAPTER	476	2
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1

PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43

PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PARTS	PGF	RMN5073B	PSM STRAIGHT CABLE 24IN	372	98
PARTS	CDP	RMN5073B	PSM STRAIGHT CABLE 24IN	372	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



**ASTRO® Digital XTS 2500 Portable Series
UHF Range 1 and UHF Range 2
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

Ordering Information

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 2500 Model I.5, II and III also include:

- DTMF Telephone Interconnect Capability (Model III ONLY)
- 6 Lines Alphanumeric Display (NO Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model 1)
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.) **Please note that Models 1 and 2 are not available in the Asia Pacific Region**

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The ASTRO Digital XTS 2500 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No
ASTRO XTS 2500 Model 1.5	256	6/12/front mount	None	No
ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each

band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D, F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 380-520 MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure): 381.535 (secure), 386.400, 389.490 (secure), 393.195, 396.000, 396.300, 405.380 (secure), 413.330 (secure), 414.000, 415.500, 417.770, 420.000, 421.280 (secure), 426.600, 429.230 (secure), 432.000, 432.6125, 434.700, 436.800, 442.3438, 450.000, 453.600, 456.000, 460.800, 462.000, 466.920, 468.000, 470.400, 474.000, 480.000, 486.000, 487.200, 491.490, 492.000 (secure), 497.6950 (secure), 498.000, 502.200 (secure), 504.000, 512.400, 516.000, 516.070, 517.440, 519.120

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46QDC9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46QDC9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking, 3600 Analog/ Digital Trunking, 3600 Analog and P25 Conventional Operation.

SOFTWARE FEATURES SUPPORTED BY				
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional				
	"ASTRO Digital" (Q575)	"ASTRO Digital" (Q574)	3600 Analog (Q443)	P25 Conventional(Q811)
	Non-Project 25	Project 25	Type II	Project 25
	(3600 Baud)	(9600 Baud)	(3600 Baud)	Conventional
RADIO WIDE FEATURES				
<i>Maximum Modes</i>				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48
ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				

CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200™ Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	No
Dual Mode Scan	Yes	No	Yes	No
Failsoft by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No

Priority Monitor Scan	Yes	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT4865

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY
RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	90	380.0 - 470.0	5.9	2.0 PM	16K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	11K0F3E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1E
BE	90	380.0 - 470.0	5.9	2.0 PM	8K10F1D
BE	90	380.0 - 470.0	5.9	2.0 PM	20K0F1E

FCC IDENTIFIER: AZ489FT4866

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: HAND HELD PORTABLE 2-WAY
R4ADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	16K0F3E
BE	80, 90, 90.210	450.0 - 450.0	6.0	2.0 PM	11K0F3E
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1E

BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	8K10F1D
BE	80, 90, 90.210	450.0 - 520.0	6.0	2.0 PM	20K0F1E

SUB-BAND PERFORMANCE	
UHF R1	380-470 MHz in all models
UHF R2	450-520 MHz in all models

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

XTS 2500 PORTABLE RADIO SPEC SHEET

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- XTS 2500 Dual Display
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 2500 Dual Display
- ASTRO Project 25 Trunking Software (Q574/Q575)
- Packet Data Interface (Q947)

Configuration

Accessories

Algorithm Kits

Description	Full Description	Nomenclature	APC	Price
	Includes both UCM Hardware Module &			

SECURE BRD M1.5 DES,DES-XL,DES-OFB	Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	456	\$811.00
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	456	\$811.00
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	456	\$690.00
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	456	\$811.00
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	456	\$811.00
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	456	\$871.00
SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	456	\$690.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50
ANTENNA, 380-435MHZ UHF HELICAL	-	NAE6546	555	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00

IMPRES NiMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
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Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$243.00
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Hardware

Description	Full Description	Nomenclature	APC	Price
FPP CONNECTOR PROGRAMMING KEY	This connector key (dongle) is required while utilizing FPP.	PMTN4113	261	\$150.00

Headsets

Description	Full Description	Nomenclature	APC	Price
TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM)	NMN6245	785	\$149.00
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00

Microphones

Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25
	2-Wire Receive-Only			

<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>	<p>BDN6729</p>	<p>742</p>	<p>\$114.00</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6726</p>	<p>742</p>	<p>\$41.25</p>
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000</p>	<p>BDN6730</p>	<p>742</p>	<p>\$135.00</p>

	<p>require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6731	742	\$118.00
<p>EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6670	742	\$150.00
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6668	742	\$135.00
	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require</p>			

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
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Customer Programming Software

Manual(s)

Description	Full Description	Nomenclature	APC	Price
MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985899D01	362	\$11.00
MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985900D01	362	\$33.50
USER GUIDES CD XTS2500	-	9985898D01	362	\$11.00
MANUAL USER GUIDE XTS2500 MODEL I	Operations/User's manual PAPER.	6881094C04	205	\$11.25

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

[XTS 2500 Notification of Intent to Cancel Memo](#)

** Alternative products include the APX Series **– [APX6000/ APX6000XE/ APX6000Li/APX4000](#)

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	PGF	6881094C04	MANUAL USER GUIDE XTS2500 MODEL I	205	56
PARTS	SCB	6881094C04	MANUAL USER GUIDE XTS2500 MODEL I	205	5
PARTS	PGF	9985898D01	USER GUIDES CD XTS2500	362	56
PARTS	PGF	9985899D01	MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500	362	14
PARTS	PGF	9985900D01	MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500	362	56
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD	742	10

			EARPIECE - BEIGE (2 WIRE)		
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1

PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PARTS	PGF	HMN4084	SPKR MIC NON-SUBMSBL,GPS RSM	372	2
PORTABLES	PGF	NAE6546	ANTENNA, 380-435MHZ UHF HELICAL	555	56
PORTABLES	PMFG	NAE6546	ANTENNA, 380-435MHZ UHF HELICAL	555	10
PORTABLES	FSC	NAE6546	ANTENNA, 380-435MHZ UHF HELICAL	555	1
PORTABLES	AIP	NAE6546	ANTENNA, 380-435MHZ UHF HELICAL	555	10
PORTABLES	PGF	NAE6548	ANTENNA, 470-520MHZ UHF HELICAL	555	10
PORTABLES	AIP	NAE6548	ANTENNA, 470-520MHZ UHF HELICAL	555	10
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN- LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN- LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN- LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN- LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN- LINE PTT-NRR= 24DB-INTRIN (FM)	742	63

PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	PGF	PMLN4924A	SECURE BOARD M1.5 AES	456	98
PARTS	CDP	PMLN4924A	SECURE BOARD M1.5 AES	456	5

PARTS	CDP	PMLN4925A	SECURE BRD M1.5 DES,DES-XL,DES-OFB	456	2
PARTS	CDP	PMLN4925A	SECURE BRD M1.5 DES,DES-XL,DES-OFB	456	2
PARTS	PGF	PMLN4926A	SECURE BOARD M1.5 ADP	456	98
PARTS	PGF	PMLN4927A	SECURE BOARD M2 AES	456	98
PARTS	CDP	PMLN4927A	SECURE BOARD M2 AES	456	5
PARTS	CDP	PMLN4928A	SECURE BRD M2 DES,DES-XL,DES-OFB	205	2
PARTS	CDP	PMLN4928A	SECURE BRD M2 DES,DES-XL,DES-OFB	205	2
PARTS	PGF	PMLN4929A	SECURE BOARD M2 ADP	205	98
PARTS	CDP	PMLN4930A	SECURE BOARD M3 AES	456	2
PARTS	CDP	PMLN4930A	SECURE BOARD M3 AES	456	2
PARTS	CDP	PMLN4931A	SECURE BRD M3 DES,DES-XL,DES-OFB	456	2
PARTS	CDP	PMLN4931A	SECURE BRD M3 DES,DES-XL,DES-OFB	456	2
PARTS	PGF	PMLN4932A	SECURE BOARD M3 ADP	456	105
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
PARTS	PGF	PMTN4113	FPP CONNECTOR PROGRAMMING KEY	261	63

PARTS	RNS	RKN4105	CABLE- PROGRAMMING USB	261	0
PARTS	PGF	RKN4105	CABLE- PROGRAMMING USB	261	10
PARTS	CDP	RKN4105	CABLE- PROGRAMMING USB	261	5
PARTS	PGF	RKN4106	CABLE- PROGRAMMING, RS232	261	63
PARTS	CDP	RKN4106	CABLE- PROGRAMMING, RS232	261	2
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT- RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5073B	PSM STRAIGHT CABLE 24IN	372	98
PARTS	CDP	RMN5073B	PSM STRAIGHT CABLE 24IN	372	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50

PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
ACCESSORY	PGF	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	34
ACCESSORY	RNS	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	19
ACCESSORY	PDC	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	14
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25
PORTABLES	PGF	WPLN4117 R	IMPRES SINGLE CHARGER 110-230V US PLUG, EURO MANUAL	785	21
PORTABLES	CDP	WPLN4117 R	IMPRES SINGLE CHARGER 110-230V US PLUG, EURO MANUAL	785	2
PORTABLES	RNS	WPLN4117 R	IMPRES SINGLE CHARGER 110-230V US PLUG, EURO MANUAL	785	11
PORTABLES	PDC	WPLN4117 R	IMPRES SINGLE CHARGER 110-230V US PLUG, EURO MANUAL	785	11

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



**ASTRO® Digital XTS 2500 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems**

Ordering Information

Features

All ASTRO Digital XTS 2500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna (Bandsplit and Type Dependent on Band Option)
- Noise Reduction Software
- **ASTRO Digital XTS 2500 Model I.5, II and III also include:**
- DTMF Telephone Interconnect
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control
- Keypad Tone Mute (Model II and III)

Capability (Model III ONLY)

only)

- 6 Lines Alphanumeric Display (No Model I)
- Date and Time Stamp
- Hardware Encryption (Not Available on Model 1)
- Large Navigational Keypad (Model II and III only)
- Real Time Clock

All ASTRO Digital XTS 2500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.) **Please note that Models 1 and 2 are not available in the Asia Pacific Region**

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The ASTRO Digital XTS 2500 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		per Line		
ASTRO XTS 2500 Model I	48	None	None	No
ASTRO XTS 2500 Model I.5	256	6/12/front mount	None	No

ASTRO XTS 2500 Model II	870	6/12/front mount	3 x 2	Yes
ASTRO XTS 2500 Model III	870	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 2500 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (clear voice)
- 9.6KB ASTRO 25 Digital (clear voice)

The ASTRO Digital XTS 2500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

Please note that the XTS 2500 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 2500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FLASHport® AFTERMARKET UPGRADES

The ASTRO Digital XTS 2500 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 2500 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

The ASTRO Digital XTS 2500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

FM INFORMATION

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, II, III, Groups C, D, E, F, G, T3 without encryption modules.

The XTS 2500 portable radio when properly equipped with options H223, Q393 or Q393SUBM are Factory Mutual (FM/CSA) approved as intrinsically safe for use in, Division 1, Class I, Class II, Class III, Groups D ,F, G, T3C with encryption modules.

ASTRO TEXT MESSAGING SERVICE

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software.

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS2500 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 2500 Portable:

- Requires Model II or Model III XTS 2500
- Software Trunking 9600 Baud (Q574)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.*

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at the discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 147.4450, 147.4475, 147.4500, 151.1975, 151.2000, 153.6000, 161.9975, 162.000, 162.0025, 165.8975, 165.9000, 165.9025, 167.9975, 168.000, 168.0025, 172.0200, 172.0225.

UPDATED LIST OF FREQUENCIES NOT ALLOWED

When a Platform A radio is repaired with a Platform B RF board there will be additional

frequencies that are not recommended to be used. The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios (secure and non-secure):

VHF (136 to 174 MHz) 140.5, 144, 147.4475, 147.4575, 151.2*, 151.735*, 153.6*, 159.745, 162, 162.295, 165.9, 168*, 170.3975, 172.02

UHF Range 1 (380 to 470 MHz) 381.535, 384, 389.49, 393.195, 396*, 397.4375, 405.38, 413.33, 414*, 415.5, 417.77, 420*, 421.28, 429.23, 429.544, 431.1, 432*, 432.613, 437.18125, 442.344, 445.13125, 450*, 460.8, 466.92, 468*

UHF Range 2 (450 to 520 MHz) 450, 453.6*, 456*, 460.8*, 462, 466.91875, 468*, 469.425, 470.4*, 474, 475.5*, 480, 486*, 487.2*, 491.49375, 492, 497.705, 498, 502.2, 504, 510, 516, 516.065

700/800 MHz (764 – 776 MHz, 851 MHz – 870 MHz) 856.3375, 857.7000, 860.7000, 862.2000, 863.7000, 864.0000, 867.3000

Ordering Requirements

Ordering procedure is as follows:

- 1 H46KDC9PW7BN ASTRO XTS 2500 Portable**
- 1A Q574 9600 Trunking Digital Operation**
- 1B etc**

1. Order the ASTRO Digital XTS 2500 Portable Series as the main line item (H46KDC9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode Package MUST be ordered for each radio unit ordered. Choose between 9600 Trunking and 3600 Analog/ Digital Trunking Operation.

SOFTWARE FEATURES SUPPORTED BY				
Q574 Wide Area SmartZone / Q575 Wide Area SmartZone / Q443 Wide Area Analog SmartZone/ Q811 P25 Digital Conventional				
	"ASTRO Digital" (Q575)	"ASTRO Digital" (Q574)	3600 Analog (Q443)	P25 Conventional(Q811)
	Non-Project 25	Project 25	Type II	Project 25
	(3600 Baud)	(9600 Baud)	(3600 Baud)	Conventional
RADIO WIDE FEATURES				
Maximum Modes				
ASTRO Digital XTS 2500 Model 1	16/48	16/48	16/48	16/48

ASTRO Digital XTS 2500 Model 1.5	256	256	256	256
ASTRO Digital XTS 2500 Model II & III	870	870	870	870
Analog and Digital Operation	Yes	Yes	Analog Only	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes	Yes
Secure Capable (Hardware Encryption Not Available on Model 1 Radios)	Yes	Yes	All but ADP	Yes
One Touch Operation	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes	Yes
Smart (IMPRES) Battery	Yes	Yes	Yes	Yes
Radio Wide Transmit Inhibit	May 04'	May 04'	May 04'	May 04'
Time Out Timer	Yes	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES				
Conventional Features are additional radio wide features beyond those specified above.				
CSQ/PL/DPL	Yes	Yes	Yes	Yes
Dual Priority Channel Scan	No	No	No	No
Repeater/Talkaround Operation	Yes	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes	Yes
Monitor	Yes	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes	Yes
MDC-1200™ Call Lists (Call Alert/Select Call)	Yes	Yes	Yes	Yes
MDC-1200 Call Alert Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Emergency Call	Yes	Yes	Yes	Yes
MDC-1200 Voice Selective Call Encode/Decode	Yes	Yes	Yes	Yes
MDC-1200 Remote Monitor Decode	Decode Only	Decode Only	Decode Only	Decode Only

MDC-1200 Silent Emergency Alarm	Yes	Yes	Yes	Yes
MDC-1200 Selective Radio Inhibit Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 Radio Check Decode	Decode Only	Decode Only	Decode Only	Decode Only
MDC-1200 PTT-ID Decode/Encode	Yes	Yes	Yes	Yes
MDC Repeater Access	Yes	Yes	Yes	Yes
MDC Request to Talk (RTT)	Yes	Yes	Yes	Yes
MDC Status, Status Request, Message	Yes	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES				
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).				
Unaddressed Voice Call	Yes	Yes	No	Yes
Talk Group Call	Yes	Yes	No	Yes
Group Call Alert™	Yes	Yes	No	Yes
Talk Group Identification (TGID)	Yes	Yes	No	Yes
Selective Call (Individual Voice Call)	Yes	Yes	No	Yes
PTT ID (Individual Identification)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	No	Yes
Emergency Alarm w/Channel Revert & Ack.	Yes	Yes	No	Yes
Telephone Interconnect	Yes	Yes	No	Yes
Selective Radio Inhibit	Yes	Yes	No	Yes
Radio Check	-	-	No	-
Status/Message	Yes	Yes	No	Yes
Trunking Type II Only Features				
Maximum Number of Trunked Systems-20	Yes	Yes	Yes	No
Talkgroup Calls	Yes	Yes	Yes	No
PTT ID (Digital Only)	Yes	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes	No
Dual Mode Scan	Yes	No	Yes	No

Failsoft by Talkgroup	Yes	Yes	Yes	No
Telephone Interconnect Encode/Decode	Yes	Yes	Yes	No
System Wide Call (Receive Only)	Yes	No	Yes	No
Selective Radio Inhibit	Yes	Yes	Yes	No
Priority Monitor Scan	Yes	Yes	Yes	No
Dynamic Regrouping	Yes	Yes	Yes	No
Status/Message	No	No	No	No
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes	No
Radio Check	No	No	No	No
Remote Monitor/Radio Trace	Yes	No	Yes	Yes
Reprogram Request	No	No	No	No
SmartZone Trunking Type II Only Features				
Adaptive Power Control	Yes	Yes	Yes	No
Voice on Control	Future	Future	Future	No
SmartZone Automatic Site Registration	Yes	Yes	Yes	No
SmartZone RSSI Operation	Yes	Yes	Yes	No
SmartZone Preferred Site	Yes	Yes	Yes	No
SmartZone Forced Site Search	Yes	Yes	Yes	No
SmartZone Site Lock/Unlock	Yes	Yes	Yes	No
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes	No
Emergency Alarm Call Receive Indication	Yes	Yes	Yes	No

Legend:

Blue=Feature to be added in a Future Release

FCC Information

FCC IDENTIFIER: AZ489FT3807

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter Held to Face

Notes: Astro XTS2500 Digital Portable Radio

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BC	90.210	136.0 - 174.0	5.7	2.5 PM	11K0F3E
BC	90	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	90.210	136.0 - 174.0	5.7	2.5 PM	8K10F1E
BC	80	136.0 - 174.0	5.7	2.5 PM	11K063E
BC	80	136.0 - 174.0	5.7	2.5 PM	16K0F3E
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1D
BC	80	136.0 - 174.0	5.7	2.5 PM	8K10F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 2500 PORTABLE RADIO SPEC SHEET](#)

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 2500 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 2500 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 2500 Portable Requires:

- XTS 2500 Dual Display
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 2500 Dual Display

· ASTRO Project 25 Trunking Software (Q574/Q575)

· Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00

IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY- INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box	RKN4105	261	\$243.00

	required.			
CABLE-PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00

Charger Line Cords

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00

COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
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Earpieces

Description	Full Description	Nomenclature	APC	Price
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
	*HT1000, XTS 3000, requires BDN6676 (3.5mm			

<p>EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)</p>	<p>adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsicly Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsicly Safe (FM))</p>	<p>BDN6781</p>	<p>742</p>	<p>\$27.00</p>
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Headsets

Description	Full Description	Nomenclature	APC	Price
<p>TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES</p>	<p>Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.</p>	<p>RMN4049</p>	<p>742</p>	<p>\$225.00</p>
<p>HEADSET LIGHTWEIGHT</p>	<p>Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly</p>	<p>NMN6245</p>	<p>785</p>	<p>\$149.00</p>

	Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)			
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00

Microphones

Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25

RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00
SPKR MIC NON- SUBMSBL, GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm	BDN6664	742	\$41.25

	<p>audio jack, audio adapter is not required.</p> <p>*EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.</p> <p>*PR1500 requires BDN6676 adapter. FM Approved</p>			
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Customer Programming Software

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 2500 Last Order Entry Date : October 31, 2014

XTS 2500 Last Scheduled Ship Date: November 30, 2014

[XTS 2500 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **-**

[APX6000/ APX6000XE/ APX6000Li/APX4000](#)

******Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ******

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH	742	3

			3.5MM PLUG - INTRINSICALLY SAFE		
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60

ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PORTABLES	CDP	HLN6853	BELT CLIP 2 1/4"	271	6
PARTS	PGF	HMN4084	SPKR MIC NON-SUBMSBL,GPS RSM	372	2
FIXEDSTN	CDP	HMN4112A	GPS R2 SMART/NON-SUBM RSM FM	372	18
FIXEDSTN	CDP	HMN4113A	GPS R2 SMART/SUBM RSM FM	372	1
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1

PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5
PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI- UNIT CHARGER	785	5

PARTS	CDP	NLN7967	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	785	5
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3

FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1

FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
FIXEDSTN	CDP	PMNN4454AR	BATTERY STD IP54 LIION 2700M2900T	453	5
PARTS	RNS	RKN4105	CABLE- PROGRAMMING USB	261	0
PARTS	PGF	RKN4105	CABLE- PROGRAMMING USB	261	10
PARTS	CDP	RKN4105	CABLE- PROGRAMMING USB	261	5
PARTS	PGF	RKN4106	CABLE- PROGRAMMING, RS232	261	63
PARTS	CDP	RKN4106	CABLE- PROGRAMMING, RS232	261	2
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43

PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PORTABLES	CDP	RMN5038	RSM W/MAN DOWN BUTTON	372	2
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5073B	PSM STRAIGHT CABLE 24IN	372	98
PARTS	CDP	RMN5073B	PSM STRAIGHT CABLE 24IN	372	5
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
ACCESSORY	PGF	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	34
ACCESSORY	RNS	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	19

ACCESSORY	PDC	WPLN4110 R	IMPRES MULTI CHARGER 230V UK 3 PIN PLUG NON DISPLAY	785	14
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25

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JUMP TO ...
[MODEL](#)
[ORDERING INFORMATION](#)
[CONFIGURATION](#)
[SHIP CARD](#)

Model

ASTRO® Digital XTS 4000
FLASHport® Aftermarket Upgrades
VHF, UHF Bands
Trunked Radio Systems

Ordering Information

General Information

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package or to upgrade to a different System Enhancement Software Package for existing ASTRO Digital XTS 4000 radios in the field. FLASHport Upgrade Kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

1. Specify the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7455A or T7454A) and order quantity 1 at \$0 (No Charge).
2. Select the *desired* System Enhancement Software Package and enter as sub-items.
3. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.
4. Each sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and FLASHcode.

NOTE: The FLASHcode can be read by using the SRIB and RSS.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7455	T7454
	<i>Digital P25 Conventional Package</i>	<i>Digital 3600 9600 Conventional and Trunking Package</i>

SYSTEM ENHANCEMENT SOFTWARE (List as sub items)		
H44AS ENH: P25 Software Conventional	X	-
H45AK: ENH: 3600 9600 Trunking	X	X

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

☞ Canada personnel refer to Section A under **CANADA ONLY** information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 9600 ASTRO TRUNKING SW	-	T7454A	430	\$0.00
ENH: P25 CONVENTIONAL OPERATION SW	-	T7455A	430	\$0.00

Options

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ENH: INTER SYSTEM ROAMING	-	Q369AB	430	\$130.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD:LINK LAYER RADIO AUTHENTICATION	-	H345AM	430	\$50.00
ENH: 9600 3600 ASTRO TRUNKING SW	-	H45AK	430	\$875.00
ENH: RADIO SOFTWARE REFRESH XTS4000	-	Q880AK	430	\$75.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947AZ	430	\$200.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	T7454A	ENH: 3600 9600 ASTRO TRUNKING SW	430	12
PORTABLES	SCB	T7455A	ENH: P25 CONVENTIONAL OPERATION SW	430	12

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATES](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 5000 Portable Series
700/800 MHz Band
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- 1 Top Mounted Programmable Button
- 16 Illuminated Position Mode Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- Smart Battery Technology
- Concentric Switch
- 1 Top Mounted Programmable Three Position Toggle Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- ASTRO 25 Detachable Belt Clip

Noise Reduction
Software

Audio Gain Control

ASTRO Digital XTS 5000 Model III also include:

Full Keypad for
Private Call

Keypad Tone Mute

6 Lines Alphanumeric
Display

Large Navigational Keypad

Date and Time Stamp
Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

[Zephyr Physiological Monitoring Ordering Guide](#)

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		Per Line		
ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model	1000	6/12/front mount	3 x 2	Yes

ASTRO XTS 5000 Model |||	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice) >

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital XTS 5000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital XTS 5000 radio will transmit ASTRO Digital Encryption depending on the channel programming. ASTRO digital encryption provides communications security. ASTRO Digital Encryption (operating in encrypted mode while also operating in the 3.6KB or 9.6 KB ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryption Does not operate with non-XL encryptions.

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

Ordering procedure is as follows...

1 H18UCH9PW N ASTRO XTS 5000 Portable

1A Q806 Digital Operation

1B H38 SmartZone® Operation

1C ETC

1. Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
3. Each Hardware model MUST be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET(H37) and SmartZone(H38) System Packages.
 - The SmartZone features listed in the second matrix are available in the SmartZone(H38) package ONLY.
4. Select ANY desired System Enhancement Options
 - System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)

COMMON SOFTWARE FEATURES SUPPORTED BY H37 "SMARTNET"/H38 "SmartZone"

	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H38/Q806/Q361)
	Non-Project 25	Non-Project 25	Project 25
	(3600 Baud)	(3600 Baud)	(9600 Baud)
RADIO WIDE FEATURES			
Maximum Modes			
ASTRO Digital XTS 5000 Model 1	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes

12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes

DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	No	Yes	Yes

PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No
Reprogram Request	Future	Future	Future

SOFTWARE FEATURES SUPPORTED BY H38 "SmartZone"

	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25	Project 25
		(3600 Baud)	(9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes

SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES Offered in 6.3

MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY
MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified. **Programming of the following frequencies are not allowed: 772.8000, 774.0000, 856.8000, and 864.0000 MHz**

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field

programming software must be used. **H477 ADD: Frequency & Squelch Data No Charge**

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "I" models. **When you ordering H477, H371 must be ordered. H371 ADD: ASTRO Digital XTS 5000 Zone Operation No Charge**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
- If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
- When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.

FIPS 140-2 COMPLIANCE

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options H223CC, H223RUGDCE, Q393AN, and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options H223CD, H223RUGDCF, Q393AP, and Q393RUGDAQ are FM Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

Type 1 is not offered on either the 700/800 or UHF R2 bands. XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

- Requires Model II or Model III XTS 5000
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option*

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening

situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking IV&D
Radio Software	Version R09.00.00 or later	Version R09.00.00
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later (RVN4181)
ASTRO CAI operation	Q806	Q806
System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9183).

NOTE:

The GPS technology uses radio signals from earth orbiting satellites, to establish the location co-ordinates, maximizing your view of clear, unobstructed sky is essential for

optimum performance. Where adequate signals from multiple satellites are not available, (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

In underground locations

Inside of buildings, trains, or other covered vehicles

Under any other metal or concrete roof or structure

Between tall buildings or under dense tree-cover

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

FCC Information

FCC IDENTIFIER: AZ489FT5806

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: Astro Digital XTS5000
Hand Held Portable
Radio

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	16K0F3E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	11K0F3E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	8K10F1E
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	8K10F1D
BH	90R, 90S	764.0 - 870.0	3.0	1.5 PM	20K0F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 5000 Catalog Sheet](#)

XTS Vehicular Adapter (XTVA)

Here is a link for the XTS 5000 notation. <http://www.motorola.com/cgiss/portables/xts5000.htm>.

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H35)
- Packet Data Interface (Q947)

OR

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA	-	8505241U11	555	\$35.00
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$35.75

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
BAT HOLDER CLAMSHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries	NTN9183	453	\$80.00

	are NOT included. This battery is NOT FM approved or Intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.			
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$150.00
BATTERY 3000 MAH FM NIMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00

Bluetooth, Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
MISSION CRITICAL WIRELESS ADAPTER	Mission Critical Wireless Adapter is not intrinsically safe nor approved for use in Hazardous Locations	PMLN5792A	742	\$99.00

Carrying Case(s)

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Description	Full Description	Nomenclature	APC	Price
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$60.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger

Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$182.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in	NTN1624	115	\$419.00

	high noise levels up to 100dB.			
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
	Flexible ear			

FLEXIBLE EAR RECEIVER	<p>loop and speaker which rests external to the ear.</p> <p>REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio.</p> <p>*HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.</p> <p>*EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)</p>	BDN6719	742	\$36.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
	<p>Single Muff Lightweight Headset with In-Line PTT Switch (requires</p>			

HEADSET LIGHTWEIGHT	BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Microphones

Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00

GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$182.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench	NTN8327	785	\$250.00

	<p>tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.</p>			
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Surveillance

Description	Full Description	Nomenclature	APC	Price
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6670	742	\$150.00
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm</p>	BDN6669	742	\$118.00

	<p>audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	BDN6731	742	\$118.00
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676</p>	BDN6668	742	\$135.00

	adapter. FM Approved.			
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000			

<p>& PTT SEPARATE - BLACK (3 WIRE)</p>	<p>require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6730</p>	<p>742</p>	<p>\$135.00</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6664</p>	<p>742</p>	<p>\$41.25</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor.</p>	<p>BDN6726</p>	<p>742</p>	<p>\$41.25</p>

	FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$43.25

Updates

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

[**XTS 5000 Notification of Intent to Cancel Memo**](#)

**** Alternative products include the APX Series **—
[APX7000 / APX7000XE / APX6000 / APX6000XE](#)**

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	8505241U11	ANTENNA	555	2
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2	742	10

			WIRE)		
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1

PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3

PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63

PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	HMN4112A	GPS R2 SMART/NON-SUBM RSM FM	372	18
FIXEDSTN	CDP	HMN4113A	GPS R2 SMART/SUBM RSM FM	372	1
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
PORTABLES	CDP	NAF5037	ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	555	3
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	372	41
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE,	372	41

			STRAIGHT CABLE 30 IN		
PARTS	CDP	NMN6250	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	372	3
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3
FIXEDSTN	CDP	NNTN7392	IMPRES BATTERY DATA READER	785	3

PARTS	CDP	NNTN7453A	BATTERY IMPRES LI-ION 3950MAH FM RUGGED	453	5
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
PORTABLES	CDP	NTN8039	2.5 INCH LEATHER SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
ACCESSORY	FSC	NTN9183	BAT HOLDER CLAMSHELL ORG	453	10

FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5464	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	742	1
FIXEDSTN	CDP	PMLN5792A	MISSION CRITICAL WIRELESS ADAPTER	742	3
FIXEDSTN	CDP	PMLN5792A	MISSION CRITICAL WIRELESS ADAPTER	742	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
FIXEDSTN	CDP	PMPN4175A	CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	785	6
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
			EARPLUGS FOAM/ACOUSTIC TUBE		

PARTS	CDP	RLN6230A	BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7

PARTS	PGF	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	90
PARTS	CDP	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	5
PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2
PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WADN4190B	EAR RCVR W/COIL CBL&3.5MM PLUG	742	4
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 5000™ Portable Series
UHF RANGE 1 / TYPE 1 Encryption
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- Illuminated 16 Position Mode Rotary Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- Smart Battery Technology
- Noise Reduction Software
- 1 Top Mounted Programmable Two Position Concentric Switch
- 1 Top Mounted Programmable Three Position Toggle Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 5000 Model III also include:

- Full Keypad for Private Call
- 6 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr

BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject's voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		Per Line		
ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model II	1000	6/12/front mount	3 x 2	Yes
ASTRO XTS 5000 Model III	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice)

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS 5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Ordering Requirements

- 1 H18UCH9PW N ASTRO XTS 5000 Portable**
- 1A Q806 Digital Operation**
- 1B H38 SmartZone® Operation**
- 1C ETC.**

COMMON SOFTWARE FEATURES SUPPORTED BY			
H37 "SMARTNET"/H38 "SmartZone"			
	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H38/Q806/Q361)
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 5000 Model I	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			

Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	No	Yes	Yes
PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode			Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No
Reprogram Request	Future	Future	Future

SOFTWARE FEATURES SUPPORTED BY			
H38 "SmartZone"			
	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES	
Offered in 6.3	
MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY
MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified.

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field programming software must be used. **Programming of the following frequencies is not allowed: 386.4000, 396.0000, 403.2000, 414.0000, 420.0000, 432.0000, 436.8000, 450.0000, 453.6000 and 468.0000.**

H477 ADD: Frequency & Squelch Data No Charge

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "II" models. **When you ordering H477, H371 must be ordered.**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options Q393AN and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options Q393AP and Q393RUGDAQ are FM/CSA Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW. Type 1 is not offered on either the 700/800 or UHF R2 bands.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

NOTE: There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.

• Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking IV&D
Radio Software	Version R09.00.00 or later	Version R09.00.00
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later (RVN4181)
ASTRO CAI operation	Q806	Q806
System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9183).

NOTE:

The GPS technology uses radio signals from earth orbiting satellites, to establish the location co-ordinates, maximizing your view of clear, unobstructed sky is essential for optimum performance. Where adequate signals from multiple satellites are not available, (usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

- *In underground locations*
- *Inside of buildings, trains, or other covered vehicles*
- *Under any other metal or concrete roof or structure*
- *Between tall buildings or under dense tree-cover*

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

SELF-QUIETING SPURS

- 16.8 MHz is radio's main Reference Oscillator used on RF and Vocon board as main frequency source. This

frequency is generously available on the Vocon board to the Patriot and Flipper ICs, and unfortunately a low level emitted frequency being picked up by the radio's receiver.

- 1.2, 1.5, 1.8 Hz are Abacus 3 frame sync clocks (programmable) for RX base band data transfer to Patriot. The values shown here are where the 3 frequency multiples intersect.

Self-Quieting Spurs

Frequency (MHz) Source

386.4000	multiple of 16.8 MHz
396.0000	multiple of 1.2, 1.5, and 1.8 MHz
396.0000	multiple of 1.2, 1.5, and 1.8 MHz
403.2000	multiple of 16.8 MHz
414.0000	multiple of 1.2, 1.5, and 1.8 MHz
420.0000	multiple of 16.8 MHz
432.0000	multiple of 1.2, 1.5, and 1.8 MHz
436.8000	multiple of 16.8 MHz
450.0000	multiple of 1.2, 1.5, and 1.8 MHz
453.6000	multiple of 16.8 MHz
468.0000	multiple of 1.2, 1.5, and 1.8 MHz

- 1. Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
 2. Each hardware model MUST be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
 3. Each Hardware model MUST be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET (H37) and SmartZone (H38) System Packages.
 - The SmartZone features listed in the second matrix are available in the SmartZone (H38) package ONLY.
 4. Select ANY desired System Enhancement Options
 - System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)
 - **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
 - If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
 - When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.
 - If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
 - When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.
- Requires Model II or Model III XTS 5000
 - ASTRO Digital CAI Operation (G806)
 - SmartZone Operation (H38)
 - ASTRO Project 25 Trunking Software (Q361)
 - Packet Data Interface (Q947)

FCC Information

FCC IDENTIFIER: AZ489FT4855

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast Transmitter
Held to Face

Notes: ASTRO XTS5000 UHF R1

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM	16K0F3E
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM	11K0F3E
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM	8K10F1E
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM	8K10F1D
BE	80, 90, 90.210	380.0 - 470.0	5.7	2.0 PM	20K0F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

[XTS 5000 Catalog Sheet](#)

XTS Vehicular Adapter (XTVA)

Here is a link for the [XTS 5000 Notation](#).

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H35)
- Packet Data Interface (Q947)

OR

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

Configuration

Accessories

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$150.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00

LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$60.00

Charger

Charger

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$36.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM)	NMN6245	785	\$149.00
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Microphones

Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
THROAT MICROPHONE	-	RLN6478A	742	\$270.00

Multi Unit Chargers

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00

Surveillance

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Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm			

<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)</p>	<p>Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved</p>	<p>BDN6726</p>	<p>742</p>	<p>\$41.25</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6732</p>	<p>742</p>	<p>\$150.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6670</p>	<p>742</p>	<p>\$150.00</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being</p>	<p>BDN6664</p>	<p>742</p>	<p>\$41.25</p>

	used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved			
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$43.25

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 5000 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

[XTS 5000 Notification of Intent to Cancel Memo](#)

** Alternative products include the APX Series ** -
[APX7000](#) / [APX7000XE](#) / [APX6000](#) / [APX6000XE](#)

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
			EARPIECE RECEIVE ONLY WITH STANDARD		

PARTS	CDP	BDN6664	EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
			EARPIECE RECEIVE ONLY WITH STANDARD		

PARTS	CDP	BDN6726	EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1

QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	372	41
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	372	41
PARTS	CDP	NMN6250	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	372	3
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PARTS	CDP	NNTN7453A	BATTERY IMPRES LI-ION 3950MAH FM RUGGED	453	5

FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
PORTABLES	CDP	NTN8039	2.5 INCH LEATHER SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
ACCESSORY	FSC	NTN9183	BAT HOLDER CLAMSHELL ORG	453	10
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
PARTS	CDP	PMMN4038A	REMOTE SPEAKER MICROPHONE, IP57	372	3
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7

PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	90
PARTS	CDP	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	5
PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2

PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS 5000 Portable Series
VHF / TYPE 1 Encryption
SMARTNET® "Handie-Talkie™" Radio
Conventional/ Secure/ Trunked Radio Systems

Ordering Information

Features

All ASTRO Digital XTS 5000 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- Illuminated 16 Position Mode Rotary Select Switch
- Angled On/Off Volume
- Low Battery Alert Tone
- Antenna (Band split and Type Dependent on Band Option)
- 1 Top Mounted Programmable Two Position Concentric Switch
- 1 Top Mounted Programmable Three Position Toggle Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- Nickel Metal Hydride Battery
- Detachable Belt Clip

- Smart Battery Technology
- Noise Reduction Software
- ASTRO 25
- Audio Gain Control

ASTRO Digital XTS 5000 Model III also include:

- Full Keypad for Private Call
- 6 Lines Alphanumeric Display
- Date and Time Stamp
- Keypad Tone Mute
- Large Navigational Keypad
- Real Time Clock

All ASTRO Digital XTS 5000 Portables are part of the FLASHport® program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

Physiological Monitoring Solution

Physiological Monitoring is now available on the ASTRO 25 XTS5000 and XTS2500 portable radios. The Zephyr BioHarness™ BT couples the pioneering Smart Fabric sensor technology of the comfortable and unobtrusive BioHarness™ garment with the power and ubiquity of Bluetooth®. BioHarness™ BT enables the capture and transmission of comprehensive physiological data on the wearer exclusively via MOTOROLA ASTRO RADIOS – enabling genuine remote monitoring of human performance and condition in the real world.

The BioHarness™ BT can be used in a diverse range of areas including sports, defense, first responder and healthcare. Its professional-grade BioHarness™ system monitors conditions such as heat state, dehydration or injury by measuring vital signs including heart rate, breathing rate, skin temperature, posture and activity. Using the subject’s voice radio, the BioHarness communicates to monitoring software designed to give real-time alerts and post-event analysis.

BioHarness™ BT can be worn in virtually any environment – from combat situations to the training field. It maintains performance under extreme activity. Offering fast, accurate collection and analysis of high-quality, in-depth data, BioHarness™ BT is the definitive product for remote physiological monitoring in all conditions.

Zephyr Physiological Monitoring Ordering Guide

General Information

The ASTRO Digital XTS 5000 Portable Line offers three different radio hardware models:

Hardware Model	Modes	Alphanumeric Display	Keypad	Navigation Pad
		Lines/Characters		
		Per Line		
ASTRO XTS 5000 Model I	48	None	None	No
ASTRO XTS 5000 Model				

II	1000	6/12/front mount	3 x 2	Yes
ASTRO XTS 5000 Model III	1000	6/12/front mount	3 x 6	Yes

Operating Modes

ASTRO Digital XTS 5000 Radio Models are capable of operating in three different voice communication modes:

- Normal Analog (clear voice)
- 3.6KB ASTRO Digital (both clear and coded voice)
- 9.6KB ASTRO 25 Digital (both clear and coded voice)

The mode of operation is programmed on a channel-by-channel basis. With the coded/clear switch set to the clear mode, the ASTRO Digital XTS 5000 radio is capable of transmitting clear analog voice or clear (unencrypted) ASTRO digital voice, depending on the channel programming. With the coded/clear switch set to the coded mode, the ASTRO Digital XTS 5000 radio will transmit ASTRO Digital Encryption depending on the channel programming. ASTRO digital encryption provides communications security. ASTRO Digital Encryption (operating in encrypted mode while also operating in the 3.6KB or 9.6 KB ASTRO mode) is capable of XL type encryptions; ASTRO Digital Encryption Does not operate with non-XL encryptions.

An Encryption Option is not required for either clear analog operation or clear ASTRO digital operation. Encryption can be ordered with the ASTRO Digital XTS 5000 radio either as a factory installed option or separate from the radio for later field installation. ASTRO Digital XTS 5000 radio functions include selected ASTRO digital signaling and digital speech coding.

Please note that the XTS5000 does NOT support FRED.

CHANNEL SPACING

There are no maximum frequency separation conditions that must be adhered to on the ASTRO Digital XTS5000 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

FLASHport AFTERMARKET UPGRADES

The ASTRO Digital XTS 5000 Portable Series Radios are part of the FLASHport Program. This means that ASTRO Digital XTS 5000 hardware models can be loaded with different software packages that provide the features and functionalities that your customers require. Three different hardware models are available in each band split.

System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.) The ASTRO Digital XTS 5000 portable can be upgraded electronically in the field with new features in the current system or to new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measures the sensitivity from 136.05MHz to 173.975MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference). The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios.

Block Out Frequencies	approximate degradation in dB (+/-5dB)
168.0000 MHz	33
144.0000 MHz	15
151.2000 MHz	20
162.0000 MHz	15
168.5250 MHz	9
169.0000 MHz	8
147.4625 MHz	10
167.4750 MHz	8
150.0125 MHz	10

Ordering Requirements

Ordering procedure is as follows...

1 H18UCH9PW N ASTRO XTS 5000 Portable

1A Q806

Digital Operation

1B H38

SmartZone® Operation

1C etc.

- Order the ASTRO Digital XTS 5000 Portable Series as the main line item (H18UCH9PW7_N).
- Each hardware model **MUST** be ordered with one Operating Mode. One Operating Mode for each radio unit ordered. Choose between Analog or Digital Operation.
- Each Hardware model **MUST** be ordered with one System Software Package. One System Software Package for each radio unit ordered.
 - The matrix below list available radio wide, conventional features, and standard trunking features for SMARTNET® (H37) and SmartZone(H38) System Packages.
 - The SmartZone features listed in the second matrix are available in the SmartZone(H38) package ONLY.
- Select ANY desired System Enhancement Options
 - System Enhancement Options can be loaded at the time of radio purchase or at a later date through the use of software field upgrades (a RS232 cable or USB cable are required for all software upgrades.)

COMMON SOFTWARE FEATURES SUPPORTED BY
H37 "SMARTNET"/H38 "SmartZone"

	"Analog Operation" (Q241)	"ASTRO Digital" (Q806)	"ASTRO Digital" (H38/Q806/Q361)
	Non-Project 25 (3600 Baud)	Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
RADIO WIDE FEATURES			
<i>Maximum Modes</i>			
ASTRO Digital XTS 5000 Model I	16/48	16/48	16/48
ASTRO Digital XTS 5000 Model II & III	1000	1000	1000
Analog and Digital Operation	-	Yes	Yes
12.5/20/25 KHz Programmable Channels	Yes	Yes	Yes
Secure Capable	No	Yes	Yes
One Touch Operation	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes
Surveillance Mode	Yes	Yes	Yes
Keypad Lock	Yes	Yes	Yes
Radio Lock	Yes	Yes	Yes
Smart Battery	Yes	Yes	Yes
Radio Wide Transmit Inhibit	Yes	Yes	Yes
Time Out Timer	Yes	Yes	Yes
FLASHport	Yes	Yes	Yes
ANALOG CONVENTIONAL FEATURES			
Conventional Features are additional radio wide features beyond those specified above.			
CSQ/PL/DPL	Yes	Yes	Yes
Dual Priority Channel Scan	Yes	Yes	Yes
Adaptive Power Control	Yes	Yes	Yes
Repeater/Talkaround Operation	Yes	Yes	Yes
Scan (Auto, Pre-programmed, Operator Selectable)	Yes	Yes	Yes
Smart PTT	Yes	Yes	Yes
Monitor	Yes	Yes	Yes
DTMF Tone Generation	Yes	Yes	Yes
DIGITAL CONVENTIONAL SIGNALING FEATURES			
These features are APCO Project 25 Conventional Interoperable Features			

when used in the ASTRO Digital CAI Mode (Q806).			
Unaddressed Voice Call	-	Yes	Yes
Talk Group Call	-	Yes	Yes
Group Call Alert™	-	Yes	Yes
Talk Group Identification (TGID)	-	Yes	Yes
Selective Call (Individual Voice Call)	-	Yes	Yes
Selective Call Decode (Individual Voice Call)	-	Yes	Yes
PTT ID (Individual Identification)	-	Yes	Yes
Call Alert Encode/Decode	-	Yes	Yes
Emergency Alarm w/Channel Revert & Ack.	-	Yes	Yes
Telephone Interconnect	-	Yes	Yes
Unlimited (Model III Only)	-	Future	Future
Selective Radio Inhibit	-	Yes	Yes
Radio Check	-	Yes	Yes
Status/Message	-	Yes	Yes
Trunking Type II Only Features			
Maximum Number of Trunked Systems-20	Yes	Yes	Yes
Talkgroup Calls	Yes	Yes	Yes
PTT ID (H14 option required)	Yes	Yes	Yes
Call Alert Encode/Decode	Yes	Yes	Yes
Dual Mode Scan	Yes	Yes	Yes
Failsoft by Talkgroup	Yes	Yes	Yes
Telephone Interconnect Encode/Decode	Yes	Yes	Yes
System Wide Call (Receive Only)	Yes	Yes	Yes
Selective Radio Inhibit	Yes	Yes	Yes
Priority Monitor Scan	Yes	Yes	Yes
Dynamic Regrouping	Yes	Yes	Yes
Status/Message	Yes	Yes	Status Only
Private/Enhanced Conversation Encode/Decode	Yes	Yes	Yes
Remote Monitor/Radio Trace	Yes	Yes	No
Reprogram Request	Future	Future	Future

SOFTWARE FEATURES SUPPORTED BY			
H38 "SmartZone"			
	"Analog	"ASTRO	

	Operation" (Q241)	Digital" (Q806)	"ASTRO Digital" (H37/Q806/Q361)
		Non-Project 25 (3600 Baud)	Project 25 (9600 Baud)
Trunking Type II Only Features			
Voice on Control	Future	Future	Future
SmartZone Automatic Site Registration	Yes	Yes	Yes
SmartZone RSSI Operation	Yes	Yes	Yes
SmartZone Preferred Site	Yes	Yes	Yes
SmartZone Forced Site Search	Yes	Yes	Yes
SmartZone Site Lock/Unlock	Yes	Yes	Yes
SmartZone Adjacent Control Channel OSW	Yes	Yes	Yes
Emergency Alarm Call Receive Indication	Yes	Yes	Yes

LIMITED MDC FEATURES	
Offered in 6.3	
MDC PTT ID ENCODE/DECODE	YES
MDC Selective Radio Inhibit	Decode ONLY
MDC Call Alert	Yes
MDC Radio Check	Decode ONLY
MDC Voice Selective Call	Yes
MDC Remote Monitor	Decode ONLY
MDC Call Lists (Call Alert / Select Call)	Yes
MDC Emergency	Yes

CONVENTIONAL FACTORY PROGRAMMING

ASTRO Digital XTS 5000 portables ship without customer specific factory programming unless a programming options is specified.

FREQUENCY AND SQUELCH CODES

Although some models of the ASTRO Digital XTS 5000 are capable of 512 channels, the factory can accommodate the programming of only 128 continuous channels in any one radio. If the programming of more than 128 continuous channels is desired, field programming software must be used. **H477 ADD: Frequency & Squelch Data No Charge**

ZONED OPERATION

This option converts MODE-ONLY ASTRO Digital XTS 5000 portables to Zone Operation radios. A maximum of 16 RX and TX pairs can be placed into a zone. There is a maximum of three zones (48 modes) on the "I" Model, with zone operation programmed to the programmable top mounted two-position concentric switch. There is a maximum of 16 zones (512 modes) on the "II" and "III" models, and the zones will be programmed to be selected from the keypad. The factory can only accommodate the programming of only 128 continuous channels consisting of any combination of zones and channels and minimum of 32 channels with two zones on the "I" models. **When you ordering H477, H371 must be ordered. H371 ADD: ASTRO Digital XTS 5000 Zone Operation No Charge**

PROJECT 25 ENCRYPTION

When ordering any of the Encryption Algorithm:

- **Must** order the Encryption UCM Hardware (Q159)
 - The DES-OFB and AES encryptions offered are compliant with digital Project 25 standards and does not support analog encryption operation.
 - **Requires** the ASTRO Digital CAI (Q806) to operate the DES-OFB and AES encryption.
- If ordering a Dual Encryption:
 - The non-OFB encryption (XL versions) can be operated in either analog , or CAI digital mode, but will not be Project 25 compliant.
 - **Requires** the Multikey (H869).
- When used in CAI mode, the non-OFB Encryption will not be Project 25 compliant.
 - Encryption UCM Hardware (Q159) module may be ordered without an Encryption Algorithm for later upgrade in the field.

FIELD INSTALLED PROJECT 25 ENCRYPTION

The DES-OFB and AES-OFB encryptions offered are compliant with Project 25 standards. Operation of DES-OFB and/or AES-OFB encryption requires the ASTRO Digital CAI (Q806) option. Radios can be upgraded via FLASHport to CAI operation.

- If ordering a Dual Encryption:
 - The non-OFB encryption can be operated in analog or CAI mode (only XL versions operate in either digital mode).
 - **Requires** the Multikey (H869).
- When used in the CAI mode, the non-OFB encryption will not be Project 25 compliant.

FIPS 140-2 Compliance

Encryption Modules equipped with AES are FIPS 140-2 compliant. Further information regarding FIPS 140-2 certification may be found using the following links:

[FIPS 140-2 Crypto Module Validation Program \(CMVP\)](#)

[NIST Cryptographic Module Validation Lists](#)

FM INFORMATION

The XTS 5000 portable radio when properly equipped with options Q393AN and Q393RUGDAR are Factory Mutual (FM/CSA) Approved as intrinsically safe for use in Class I, II, III, Division 1, Group C, D, E, F, and G and Nonincendive Class I, Division 2, Group A, B, C and D, when ordered without encryption modules.

The XTS 5000 portables equipped with UCM encryption modules and options Q393AP and Q393RUGDAQ are FM Approved as Intrinsically Safe for use in Class I, II, III, Division 1, Group D, F, G and Nonincendive for use in Class I, Div 2, Group A, B, C, D only.

XTS 5000 FM/CSA approved portable radio models installed with Type 1 encryption module (Q374 or Q400), are intrinsically safe for use in the Nonincendive, Class I, Division 2, Groups A, B, C, D, when used with Motorola FM/CSA approved battery options Q393AV and Q393RUGDAW or H223CP and H223RUGDCW. Type 1 is not offered on either the 700/800 or UHF R2 bands.

ASTRO Text Messaging Service

ASTRO Text Messaging Service will be available on ASTRO 25 XTS 5000, XTS 2500 Portable radios and ASTRO 25 XTL 5000, XTL 2500 Mobile radios. Text Messaging Service (TMS) allows subscriber users to send and receive text messages to other subscribers or dispatch operators. Users can select messages and addresses from a predefined list or enter freeform text messages and addresses via the keypad. Text Messaging Service is available on ASTRO Trunked IV&D Systems and Subscribers. Subscribers must have version R09.00.00 or later of both Customer Programming Software (CPS) and Radio software .

For full Text Messaging functionality, including freeform text messaging and addressing, must order Model III XTS5000 portables. Model II versions support Limited Text Messaging functionality such as selecting predefined messages or addresses from a list programmed in the radio. Text messaging service is NOT supported on Model I Portables.

Ordering requirements for XTS 5000 Portable:

- Requires Model II or Model III XTS 5000
- ASTRO Digital CAI Operation (G806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

NOTE: *There is no specific option to order for the Text Messaging Service on the subscribers as the functionality is included in the Packet Data option.*

Outdoor Personnel Location Global Positioning Satellite (GPS) Feature

The personnel outdoor location tracking GPS feature enables a dispatcher the ability to locate on-foot patrols and out of the vehicle officers who are involved in life threatening situations. The radio user's GPS position information is sent over the ASTRO 25 Integrated Voice & Data (IV&D) network and is delivered to the dispatch operator using a third party mapping display application at the dispatch center (*Mapping Application is not yet available through Motorola at this time, however an Application Developers Tool Kit is available for 3rd party vendors to use to modify existing applications. See link below for more details.*)

This capability is now available on ASTRO 25 Conventional IV&D Systems and ASTRO 25 Trunking IV&D Systems on XTS 5000 Models I, II, III and Ruggedized with appropriate radio software (see below).

Required equipment for operating in ASTRO 25 Conventional IV&D and ASTRO 25 Trunking IV&D Systems is as follows:

	ASTRO 25 Conventional IV&D	ASTRO 25 Trunking IV&D
Radio Software	Version R09.00.00 or later	Version R09.00.00
Customer Programming Software (CPS)	Version R09.00.00 or later (RVN4181)	Version R09.00.00 or later (RVN4181)
ASTRO CAI operation	Q806	Q806
System Enhancement Software	H35 (or H37, H38 in Conventional Mode)	H38
ASTRO Project 25 Trunking Software		Q361
GPS Remote Speaker Microphone/GPS Remote Speaker Microphone with Earjack	HMN4080 or HMN4084	HMN4080 or HMN4084

For fielded XTS 5000 Portables that are already Conventional IMBE Digital Enabled or Trunking IMBE Digital Enabled, see FLASHport upgrade Price Pages to order a software refresh to get the GPS enabled software.

During normal operation the radio's battery capacity will be reduced by 10% to 16% based on 1 location update per minute.

NOT COMPATIBLE with Man -Down Side Connector (NTN7660), Clamshell Battery Holder (Q495, Q496, NTN9183).

NOTE:

The GPS technology uses radio signals from earth orbiting satellites, to establish the location co-ordinates, maximizing your view of clear, unobstructed sky is essential for optimum performance. Where adequate signals from multiple satellites are not available,

(usually because you cannot establish a view of a wide area of the sky), the GPS feature of your GPS RSM WILL NOT WORK. Such situations include but are not limited to:

- - In underground locations
 - Inside of buildings, trains, or other covered vehicles
 - Under any other metal or concrete roof or structure
 - Between tall buildings or under dense tree-cover

PUBLIC SAFETY SPEAKER MICROPHONES (PSM)

The RF switch has been removed from the XTS Radio to provide cost savings on the model. Therefore, the EXTERNAL RF SWITCH must be ORDERED and then ATTACHED to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. The RF switch and microphones are FM approved.

FCC Information

FCC IDENTIFIER: AZ489FT3804

Name of Grantee: Motorola Inc

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: Astro XTS 5000 Digital
Portable

Modular Type: Does not apply

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
BE	80, 90	136.0 - 174.0	6.6	2.0 PM	16K0F3E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	11K0F3E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	8K10F1E
BE	80, 90.210	136.0 - 174.0	6.6	2.0 PM	8K10F1D
BE	80, 90	136.0 - 174.0	6.6	2.0 PM	20K0F1E

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

- [XTS 5000 Catalog Sheet](#)

XTS Vehicular Adapter (XTVA)

Here is a link for the [XTS 5000 notation](#).

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 5000 Dual Display Portable radios. Advanced Messaging is NOT supported on XTS 5000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 5000 Portable Requires:

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H35)
- Packet Data Interface (Q947)

OR

- XTS 5000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- SmartZone Operation (H38)
- ASTRO Project 25 Trunking Software (Q361)
- Packet Data Interface (Q947)

Configuration

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$150.00

IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00
BAT HOLDER CLAMSHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries are NOT included. This battery is NOT FM approved or Intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$80.00
BATTERY 3000 MAH FM NIMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE WITH BELT LOOP. FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$60.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50

Charger

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
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Earpieces

Description	Full Description	Nomenclature	APC	Price
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$36.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00

RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In- Line PTT	RMN5049	742	\$340.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer- receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00

Microphones

Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
	2-Wire Receive-Only			

<p>EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)</p>	<p>Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.</p>	<p>BDN6729</p>	<p>742</p>	<p>\$114.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6731</p>	<p>742</p>	<p>\$118.00</p>
<p>EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD</p>	<p>3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE.</p>	<p>BDN6732</p>	<p>742</p>	<p>\$150.00</p>

<p>EARPIECE - BLACK (3 WIRE)</p>	<p>*HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>			
<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6668</p>	<p>742</p>	<p>\$135.00</p>
<p>EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)</p>	<p>1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved.</p>	<p>BDN6664</p>	<p>742</p>	<p>\$41.25</p>

	*PR1500 requires BDN6676 adapter. FM Approved			
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00

<p>EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)</p>	<p>3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6730</p>	<p>742</p>	<p>\$135.00</p>
<p>EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)</p>	<p>2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.</p>	<p>BDN6669</p>	<p>742</p>	<p>\$118.00</p>
	<p>1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783</p>			

RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$43.25
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Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 5000 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 5000 Last Order Entry Date : October 31, 2013

XTS 5000 Last Scheduled Ship Date: November 30, 2013

[XTS 5000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **-**
[APX7000](#) / [APX7000XE](#) / [APX6000](#) / [APX6000XE](#)

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time

ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
ACCESSORY	CDP	AARLN4885	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	742	3
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6664	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	742	10
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6668	EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	742	5
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10

PARTS	CDP	BDN6669	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	742	10
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6670	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	742	11
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6676	3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	742	2
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6719	FLEXIBLE EAR RECEIVER	742	1
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
			EARPIECE RECEIVE ONLY WITH		

PARTS	CDP	BDN6726	STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6726	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	742	4
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6727	RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	742	32
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6729	EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	742	5
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6730	EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	742	3
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK	742	1

			(2 WIRE)		
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6731	EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
PARTS	CDP	BDN6732	EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
QUOTEDS	CDP	BDN6780	EARBUD, MINI MICROPHONE AND PTT	742	1
PARTS	PGF	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	63
PARTS	ISR	BDN6781	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	742	60
ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2

ACCESSORY	CDP	HKVN4036A	NA FLEET MANAGEMENT LICENSE KEY	785	2
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6563	ANTENNA, 136-174MHZ WIDEBAND DIPOLE	476	10
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6566	ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	555	1
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3

PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	CDP	NAD6567	ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	555	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
PORTABLES	PDC	NAD6568	ANTENNA, 162-178MHZ WIDEBAND HELICAL	271	3
QUOTEDS	CDP	NMN6245	HEADSET LIGHTWEIGHT	785	2
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	372	41
PARTS	CDP	NMN6247	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	372	41
PARTS	CDP	NMN6250	PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	372	3
QUOTEDS	RNS	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB- INTRIN (FM)	742	63
QUOTEDS	PGF	NMN6258	MED WEIGHT HEADSET, OVER-THE- HEAD, W/IN-LINE PTT-NRR=24DB- INTRIN (FM)	742	63

QUOTEDS	PDC	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	63
QUOTEDS	CDP	NMN6258	MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	742	5
QUOTEDS	PGF	NMN6259	MED DUTY HEADSET,BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	742	63
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4435B	IMPRES NIMH 1800 MAH BATT	453	5
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	CDP	NNTN4436B	BATT 1700 MAH FM NIMH	453	3
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PORTABLES	PDC	NNTN4437B	BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	453	5
PARTS	CDP	NNTN7453A	BATTERY IMPRES LI-ION 3950MAH FM RUGGED	453	5
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
FIXEDSTN	CDP	NNTN7677A	FLEET MANAGEMENT CHRGR INTERFACE UNIT	291	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
PARTS	CDP	NTN1624	COMMPORT WITH PALM PTT	115	2
			COMMPORT WITH PTT ON RADIO		

PARTS	CDP	NTN1625	ADAPTER	115	5
PARTS	PGF	NTN1625	COMMPORT WITH PTT ON RADIO ADAPTER	115	98
PORTABLES	CDP	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	5
PORTABLES	PGF	NTN1736	COMMPORT WITH SNAP-ON SIDE PTT	115	98
PORTABLES	CDP	NTN8039	2.5 INCH LEATHER SWIVEL BELT LOOP	271	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
ACCESSORY	CDP	NTN8327	RF ANTENNA SWITCH	785	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
PARTS	CDP	NTN8380C	HIGH-ACTIVITY SWIVEL LEATHER CASE	271	2
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
PARTS	CDP	NTN8725	HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	476	5
ACCESSORY	FSC	NTN9183	BAT HOLDER CLAMSHELL ORG	453	10
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5

SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4045B	REMOTE SPEAKER MIC, NC	372	5
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
SYSPERIPH	CDP	PMMN4051B	REMOTE SPEAKER MIC, RX-JACK	372	4
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PORTABLES	CDP	RLN4941A	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	742	7
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6230A	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	742	17
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	CDP	RLN6241A	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	742	10
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43
PARTS	PDC	RLN6242A	QUICK DISCONNECT ACOUSTIC TUBE	742	43

FIXEDSTN	CDP	RLN6477A	HEAVY-DUTY HEADSET	742	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6486A	ACCESSORY KIT,FIREMAN'S RADIO STRAP	271	3
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6487A	ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	271	4
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
FIXEDSTN	CDP	RLN6488A	ACCESSORY KIT,ANTI-SWAY STRAP	271	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	CDP	RMN5049	RUGGED TEMPLE TRANSDUCER HEADSET	742	4
PARTS	PGF	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	90
PARTS	CDP	RMN5066B	COMMANDERII REMOTE SPEAKER MICROPHONE W/OUT CHANNEL KNOB, SUBMERSIBLE	372	5

PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2
PARTS	CDP	RNN4007 R	BATTERY 3000 MAH FM NIMH	453	2
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1

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[MODEL](#)

[UPDATES](#)

[ORDERING
INFORMATION](#)

Model

XTVA

XTS Vehicular Adapter

for XTS 3000™ and XTS 5000™ Portable Radios

Updates

XTVA Last Order Entry Date : September 1, 2014

XTVA Last Scheduled Ship Date: September 30, 2014

[XTVA Notification of Intent to Cancel Memo](#)

Ordering Information

General Information and Ordering Requirements

The XTS Vehicular Adapter (XTVA) is compatible with all versions of the XTS 3000 and XTS 5000 series portable radios **not compatible with units equipped with Q242 Digital VSELP**. The XTVA unit provides the portable with in-vehicle radio battery charging (with the ability to transmit and receive) and potential mobile performance (with an optional RFPA)

NOTE: All IMBE users (Q806) and Analog users (Q241) with a ship date prior to Host versions 5.6.9 (4/1/99) will require a FLASHport® upgrade for each subscriber to obtain full XTVA capability. All units shipping with Host version 5.6.0 or later do not require the upgrade.

XTVA CONSOLES

XTVA models include a XTVA console, power supply cable and a swivel trunion mounting kit. For XTVA operation, a microphone and an RF switch (for each radio) are required. The XTVA is available in a closed faced Model which covers the face of the radio, and an open faced Model that allows access to the display and first two rows of keys when using a ASTRO XTS 3000 or XTS 5000 Model II or III radio Both XTVA models are available with either a mini-UHF or a BNC connector. (N1799, N2003, N2001, N2002)

NOTE: The XTVA will only work in an IMBE system. VSELP compatibility is not available.

XTVA ACCESSORIES

(Accessories required for XTVA operation)

NOTE: The HHCH is compatible with ASTRO XTS 3000 or XTS 5000 Model II or III radios, not compatible with Model I. The HHCH display information and keypad buttons have the

same functions as the ASTRO XTS 3000 or XTS 5000 Model II or III radios. A microphone is required to operate the XTVA.

NOTE: The wrench tool is required to apply the RF switch. It is recommended to order 1 tool per 10 radios ordered.

POWER AMPLIFIERS

The Power Amplifier Kits include a power amplifier and a 17 ft. RF/DC cable kit (NKN6516). The RFPA antenna connector is a mini-UHF. Order an antenna kit containing a mini-UHF antenna connector for RFPA Operation. Contact the Aftermarket and Accessories Division for pricing and ordering information regarding the antenna kit with the mini-UHF connector.

[ASTRO Digital XTS3000 800 MHz](#)

[ASTRO Digital XTS3000 UHF and VHF Band](#)

[ASTRO Digital XTS5000 800 MHz, UHF and VHF](#)

[XTVA XTS/MSP Vehicular Adapter Catalog Sheet](#)

JUMP TO ...

[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

Model



XTS 1500 Portable Series
900 MHz Band

Updates

XTS 1500 Last Order Entry Date : October 31, 2014

XTS 1500 Last Scheduled Ship Date: November 30, 2014

[XTS 1500 Notification of Intent to Cancel Memo](#)

**** Alternative product includes the APX Series **– [APX1000 \(Available - December 2014\)](#)**

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

Ordering Information

Features

All XTS 1500 packaged models include the following hardware features:

- 3 Programmable Side Buttons
- Orange Emergency Button
- 16 Position Mode Rotary Select Switch
- On/Off Volume
- Low Battery Alert Tone
- Antenna
- Noise Reduction Software
- 1 Top Mounted Programmable Three Position Concentric Switch
- Weather Sealed Universal Connector
- Bi-Color LED Indicator
- IMPRES Nickel Metal Hydride Battery (NTN9858)
- Detachable Belt Clip
- Audio Gain Control
- 4 line alphanumeric display

All XTS 1500 Portables are part of the FLASHport program and ship standard with a FLASH EE Prom, which allows for feature and system upgrades (contingent upon remaining within the same RF deck.)

General Information

The XTS 1500 Portable Line offers a Model I.5 radio:

Hardware Model	Modes	Alphanumeric Display Lines/Characters Per Line	Keypad	Navigation Pad
XTS 1500 Model 1.5	256	4 lines / 12 characters	None	No

The XTS 1500 Portable is capable of 48 modes when the programmable Concentric Top Mounted Switch is used for Zone Operation. The mode of operation is programmed on a channel-by-channel basis.

There are no maximum frequency separation conditions that must be adhered to on the XTS 1500 Portable Radio Series. Separation of frequencies can be as wide as the allowable sub-band per radio model with no degradation of any performance specifications. If an incorrect antenna is used, degraded performance may be experienced.

The XTS 1500 portable can be upgraded electronically (via RS232 cable or USB cable are required for all software upgrades) in the field with new systems operation (contingent upon remaining within the same RF sub-band) by ordering upgrade kits.

Please note that the XTS 1500 does NOT support FRED.

RELATIVE RADIATED RECEIVE SENSITIVITY

The relative radiated receive sensitivity test (formerly referred to as self-quieters) measure the sensitivity from 896MHz to 940MHz in 12.5kHz steps. The radio is set to 25kHz channel mode. These measurements were taken in a shielded environment so that degraded

sensitivity at discrete frequencies is known to be due to the radio's self-interference (as opposed to external interference.) The following list contains frequencies which were consistently found to have severely degraded performance on all measured radios: 936 MHz, 939.3 MHz

Ordering Requirements

Ordering procedure is as follows:

1	H66WCD9PW5BN	XTS 1500 Portable
1A	Q443	System Software
1B	etc	Other options

1. Order the XTS 1500 Portable Series as the main line item (H66WCD9PW5BN).
2. The hardware model MUST be ordered with one Operating Mode. Choose between Analog conventional or 3600 Analog trunking.

Legend:

Blue=Feature to be added in a Future Release

Green=New XTS 1500 Features

Programming of the following frequencies are not allowed 936 MHz, 939.3 MHz

FCC Information

FCC IDENTIFIER: AZ489FT5849

Name of Grantee: Motorola Solutions, Inc.

Equipment Class: Licensed Non-Broadcast
Transmitter Held to Face

Notes: PORTABLE 2-WAY
RADIO

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	90	896.0 - 901.0	2.5	1.5 PM	11K0F3E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1E
	90	935.0 - 940.0	2.5	1.5 PM	8K10F1D
	90	935.0 - 940.0	2.5	1.5 PM	11K0F3E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1E
	90	896.0 - 901.0	2.5	1.5 PM	8K10F1D

[XTS 1500 Catalog Sheet](#)

ALL ITEMS REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE UNITED STATES/CANADA

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 1500 Front Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 1500 Portable Requires:

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (Q811)
- Packet Data Interface (Q947)

OR

- XTS 1500 Front Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (Q574)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

[ASTRO25 Advanced Messaging](#)

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JUMP TO ...

[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



This Radio is: DISCONTINUED

**ASTRO® Digital XTS 1500
FLASHport® Aftermarket Upgrades
700/800MHz, VHF, UHF Bands
Trunked Radio Systems**

Ordering Information

General Information

This Radio is: DISCONTINUED

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package or to upgrade to a different System Enhancement Software Package for existing ASTRO Digital XTS 1500 radios in the field. FLASHport Upgrade Kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

1. Specify the *current* System Enhancement Software Package that represents the software in the radio as the main line item (T7016, T7017 or T7018) and order quantity 1 at \$0 (No Charge).
2. Select the *desired* System Enhancement Software Package and enter as sub-items.
- 3. IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

4. Each sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and **EXISTING**FLASHcode.
6. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using the SRIB and RSS.

CURRENT SYSTEM SOFTWARE PACKAGE

	T7016	T7017	T7018
	Digital 9600 Baud Trunking Package	Digital & Analog Limited 3600 Baud Trunking Package	Digital P25 Conventional Package
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)			
ENH: Software Trunking 9600 Baud Q574	X	X	X
ENH: Software Trunking 3600 Baud Limited Q575	X	X	X
ENH: Software P25 Digital Conventional Q811	-	-	X

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under **CANADA ONLY** information.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
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DIGITAL 9600 TRUNKING PACKING XTS 1500	-	T7016	430	\$0.00
ANALOG & DIGITAL 3600 TRUNKING XTS 1500	-	T7017	430	\$0.00
DIGITAL P25 CONVENTIONAL XTS 1500	-	T7018	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: 9600 TRUNKING FLASHPORT REFRESH	Refresh of 9600 baud software package	Q574AF	430	\$75.00
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7017. Upgrade from 3600 analog or digital baud control channel to 9600 baud control channel	Q574AG	430	\$115.00
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to P25 Digital Trunking.	Q574AH	430	\$444.00
ENH: TRUNKING 3600 FLASHPORT REFRESH	Refresh of 3600 Analog or Digital Package. Compatible with T7016, downgrade from 9600 Digital Package to 3600 Analog or Digital Package.	Q575AH	430	\$75.00
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to 3600 Analog or Digital Trunking Package.	Q575AK	430	\$329.00
ENH: 9600 TRUNKING TO 3600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	Q575BM	430	\$115.00
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	Refresh of P25 Conventional Software Package	Q811AD	430	\$75.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 is for ASTRO 25 Trunking only operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AG	430	\$115.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	SHOULD order a cable for data connectivity	Q947AY	430	\$230.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	Q369AB	430	\$130.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$5.75
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00

ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$173.00
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Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO SOFTWARE REFRESH XTS1500	-	Q880AD	430	\$86.00

System Enhancement

Description	Full Description	Nomenclature	APC	Price
ADD: AUDIBLE CHANNEL SELECTION	-	Q446AE	430	\$115.00
ENH: ADP PRIVACY	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AF	430	\$86.00

Service Options

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AK	430	\$115.00
XTS1500 IMBE CD ROM	-	Q164BK	430	\$0.00
ENH: REBAND UPGRADE TO XTS1500	-	QA00281AA	430	\$460.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00

Accessories

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY- INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Battery Maintenance Systems

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
IMPRES CHARGER	-	WPLN4111AR	785	\$182.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
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IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
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Replacement Kits

Description	Full Description	Nomenclature	APC	Price
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00
ADV'D SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
CPS R14.00.00 ASTRO 25 PORTABLE	-	RVN4181AH	371	\$265.00
FIRMWARE RADIO 3600 TRUNKING XTS 1500	-	DVN4040	430	\$1.45
2-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8298A	742	\$50.00
BMS ADAPTER FOR XTS2500 BATTERY	-	PMLN5423A	785	\$165.00
RADIO FIRMWARE XTS 1500	-	DVN4027	430	\$1.45
RADIO FIRMWARE P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4029	430	\$1.45
FLASHPORT KIT 9600 D TRUNKING XTS 1500	-	DVN4030	430	\$1.45
FLASHPORT KIT 3600 A/D TRUNKING XTS 1500	-	DVN4031	430	\$1.45

FLASHPORT KIT 3600 ANALOG SMARTZONE XTS 1500	-	DVN4032	430	\$1.45
FLASHPORT KIT P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4033	430	\$1.45

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	FSC	DVN4027	RADIO FIRMWARE XTS 1500	430	40
PORTABLES	FSC	DVN4029	RADIO FIRMWARE P25 DIGITAL CONVENTIONAL XTS 1500	430	40
PORTABLES	FSC	DVN4030	FLASHPORT KIT 9600 D TRUNKING XTS 1500	430	40
PORTABLES	FSC	DVN4031	FLASHPORT KIT 3600 A/D TRUNKING XTS 1500	430	40
PORTABLES	FSC	DVN4032	FLASHPORT KIT 3600 ANALOG SMARTZONE XTS 1500	430	40
PORTABLES	FSC	DVN4033	FLASHPORT KIT P25 DIGITAL CONVENTIONAL XTS 1500	430	40
PORTABLES	FSC	DVN4040	FIRMWARE RADIO 3600 TRUNKING XTS 1500	430	40
PORTABLES	SCB	DVN4049	ADV'D SYSTEM KEY IBUTTON REPLACMENT	362	15
PORTABLES	SCB	DVN4050	ADV'D SYSTEM KEY READER REPLACMENT	362	27

PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PORTABLES	CDP	NNTN4115	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	271	2
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
PARTS	CDP	NNTN6263	IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	453	5
FIXEDSTN	CDP	NNTN8298A	2-WIRE EARBUD,116CM CORD,BLACK	742	5
FIXEDSTN	PGF	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	20
FIXEDSTN	CDP	NTN8383	LEATHER T-STRAP, PLAIN ACTION SNAP	271	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9857C	IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	453	5
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6

PARTS	CDP	NTN9858C	IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	453	6
PORTABLES	SCB	T7016	DIGITAL 9600 TRUNKING PACKING XTS 1500	430	4
PORTABLES	SCB	T7017	ANALOG & DIGITAL 3600 TRUNKING XTS 1500	430	4
PORTABLES	SCB	T7018	DIGITAL P25 CONVENTIONAL XTS 1500	430	83
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	PDC	WPLN4111AR	IMPRES CHARGER	785	1
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

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Model



This Radio is DISCONTINUED
ASTRO® Digital XTS 2500
FLASHport® Aftermarket Upgrades
700/800MHz, VHF, UHF Bands
Trunked Radio Systems

Ordering Information

General Information

This Radio is DISCONTINUED

FLASHport Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package or to upgrade to a different System Enhancement Software Package for existing ASTRO Digital XTS 2500 radios in the field. FLASHport Upgrade Kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

1. Specify the *current* System Enhancement Software Package that represents the software in the radio as the main line item (**XTS2500 Model II/III**: T6810, T6811, T6992, or T6993 or **XTS 2500 Model I**:T7026, T7025, T7031, or T7032) and order quantity 1 at \$0 (No Charge).
2. Select the *desired* System Enhancement Software Package and enter as sub-items.
3. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

4. Each sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.
5. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio Model and **EXISTING**FLASHcode.
6. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using the SRIB and RSS.

CURRENT SYSTEM SOFTWARE PACKAGE

	T6810, T7026 (MI)	T6811, T7025 (MI)	T6992, T7031 (MI)	T6993, T7032 (MI)
	<i>Digital 9600 Baud Trunking Package</i>	<i>Digital & Analog Limited 3600 Baud Trunking Package</i>	<i>Analog 3600 Baud Trunking Package</i>	<i>Digital P25 Conventional Package</i>
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Software Trunking 9600 Baud Q574	X	X	X	X
ENH: Software Trunking 3600 Baud Limited Q575	X	X	X	X
ENH: Software Trunking 3600 Baud Analog Q443*	-	-	X	-
ENH: Software P25 Digital Conventional Q811	-	-	-	X

*NOTE: The Programming Software does not support "downgrading" a Digital Radio to Analog.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED

FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

ASTRO DIGITAL XTS 2500 800MHz

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
DIGITAL 9600 BAUD TRUNKING PACKAGE	Model 1.5, II and III	T6810	430	\$0.00
DIGITAL AND ANALOG LIMITED 3600 BAUD TRUNKING PACKAGE	Model 1.5, II, III	T6811	430	\$0.00
ANALOG 3600 TRUNKING XTS 2500	Model 1.5, II, III	T6992	430	\$0.00
PROJECT 25 CONVENTIONAL XTS 2500	Model 1.5, II, III	T6993	430	\$0.00
ANALOG & DIGITAL LIMITED 3600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7025	430	\$0.00
DIGITAL 9600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7026	430	\$0.00
ANALOG 3600 TRUNKING XTS2500 MODEL I	-	T7031	430	\$0.00
P25 CONVENTIONAL XTS 2500 MODEL I	-	T7032	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
	Compatible with T6992			

ENH: SOFTWARE ANALOG 3600 BAUD	and T7031. Refresh of 3600 Analog Baud Trunking Package.	Q443AC	430	\$75.00
ENH: SOFTWARE ANALOG 3600 BAUD	Compatible with T6993. Upgrade from P25 Conventional to 3600 Analog Software Package.	Q443AD	430	\$230.00
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6811 and T7025. Upgrade from 3600 Analog/Digital baud to 9600 Digital baud	Q574AC	430	\$345.00
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade from 3600 Analog Trunking to 9600 Digital	Q574AE	430	\$592.00
ENH: TRUNKING 9600 BAUD FLSPRT	COMPATIBLE with T6993 and T7032. Software Package INCLUDES: 9600 Baud, Wide Area SmartZone, OmniLink, and ASTRO Digital CAI.	Q574AM	430	\$707.00
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT	-	Q575AB	430	\$345.00
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT REFRESH	-	Q575AC	430	\$75.00
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade 3600 Analog to 3600 Analog/Digital Trunking.	Q575AE	430	\$477.00
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6993 and T7032. Upgrade from P25 Conventional to 3600 Analog/Digital Trunking.	Q575AF	430	\$707.00
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	-	Q811AB	430	\$75.00

ENH: 3600/9600 INTEROPERITABILITY FLASHPORT	COMPATIBLE with Q574 9600 Trunking only.	Q883AC	430	\$575.00
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Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$115.00
ENH: ENH: TRUNKED REMOTE MONITOR	-	H43AW	430	\$100.00
ADD: FIREGROUND ACCOUNTABILITY SW	Digital/Conventinal only This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AD	430	\$288.00
ENH: PACKT DATA UPG FOR XTS PT	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AN	430	\$230.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO SOFTWARE REF XTS2500	The Q880 CAN NOT be ordered with anything else. Its a refresh option only.	Q880AC	430	\$86.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
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ENH: TACTICAL OTAR	Tactical OTAR is not compatible with DVRs QA00631.	H04AS	430	\$575.00
ADD: MULTIKEY	-	H869BT	430	\$380.00

Programming

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$195.00

Software Encryption

Description	Full Description	Nomenclature	APC	Price
ENH: ADP SOFTWARE DSP BASED CRYPTO	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AC	430	\$86.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AL	430	\$115.00
ENH: REBAND UPGRADE XTS2500	-	QA00275AA	430	\$460.00

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
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SOFTWARE	SCB	T6810	DIGITAL 9600 BAUD TRUNKING PACKAGE	430	21
SOFTWARE	SCB	T6811	DIGITAL AND ANALOG LIMITED 3600 BAUD TRUNKING PACKAGE	430	19
SOFTWARE	SCB	T6992	ANALOG 3600 TRUNKING XTS 2500	430	6
SOFTWARE	SCB	T6993	PROJECT 25 CONVENTIONAL XTS 2500	430	38
SOFTWARE	SCB	T7025	ANALOG & DIGITAL LIMITED 3600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	430	12
SOFTWARE	SCB	T7026	DIGITAL 9600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	430	29
SOFTWARE	SCB	T7031	ANALOG 3600 TRUNKING XTS2500 MODEL I	430	3
SOFTWARE	SCB	T7032	P25 CONVENTIONAL XTS 2500 MODEL I	430	1

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model

ASTRO® Digital XTS 4000 Portable Series
UHF Range 1
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

Ordering Information

General Information

The XTS 4000 is the ideal solution in surveillance covert type operations where reliable secure communications is a must. Designed to resemble the appearance of today's consumer cellular communication devices, the XTS 4000 allows agents to blend right into the crowd. Our digital ASTRO 25 portable radio delivers high quality communication in a light and discrete package for those critical undercover situations.

The following limitation must be considered before ordering:

- **Significant Coverage Reduction:** The radio has a maximum power output of **2W** and utilizes a small covert antenna. These design elements result in limited coverage as compared to XTS 2500 or XTS 5000.
- **Range:** The best case condition is with antenna up and the radio been used in front of the face. In this mode the range is approximately **2 miles range** depending on the surrounding environment. With the antenna down and the radio on the belt, the range will be reduced.
- **Battery Capacity:** Standard Battery capacity is 630 mAh (Lilon only) and offers about 4 hours at 5/5/90 duty cycle.
- **XTS 4000 has all unique Accessories and Cables:** XTS 4000 is NOT compatible with XTS 5000/2500/1500 accessories. Customers will need to purchase new programming cables, chargers, and keyloading cables for use with XTS 4000.
- **Band Availability:** Only offered in VHF (3 antenna splits) and UHF R1 380- 470 MHz.

Hydra Coverage Simulation:

It is highly recommended that customers interested in the XTS 4000 also engage the System Deployment team who can utilize tools to simulate the coverage offered by the XTS 4000 radio. Hydra, an engineering application used to model performance of wireless communications systems, can assist the customer in understanding the impact of the reduced footprint of the XTS 4000 on a customer system. This information could be instrumental in helping the customer identify if the XTS 4000 is the right product for them and whether a PDR3500 or DVRS solution would make sense. (Link to be added)

E3 Hold Notice:

Customer or sales must acknowledge that they are aware the transmit power is 2 watt max output, and the standard shipping Li-ion battery capacitance is 630 mAh which computes to 4 hrs of operating using a 5-5-90 duty cycle.

You may complete this acknowledgement form and submit to the product planner upon ordering to avoid delays. To view this document click [here](#)

Portable Repeater (optional)

The PDR 3500 is a single channel portable conventional repeater unit in a suitcase that allows range extension for conventional units. This solution can help with extending the conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the PDR 3500 price pages located [here](#).

DVRS (optional)

The Digital Vehicular Repeater System (DVRS) is a single channel vehicle based on-scene repeater with system pass-through capabilities that allow system range extension for specially configured local radio units. This solution can help with extending the system or conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the DVRS price pages located [here](#).

The links below go to the specific ECAT price pages for the different DVRS models. From those price pages information on specific model pricing and orderable options can be seen as well as ordering guide information.

- [Digital Vehicular Repeater VHF](#)
- [Digital Vehicular Repeater UHF](#)
- [Digital Vehicular Repeater 700 MHz](#)
- [Digital Vehicular Repeater 800 MHz](#)

Features

General Ordering Requirement and Information when ordering XTS 4000 Radio

All ASTRO Digital XTS4000 packaged models include the following hardware features:

- 2 Li Ion Batteries (NNTN6944)
- Plastic Holster
- Encryption Module equipped with DES-XL/DES-OFB/AES/DVP-XL and OTAR
- 1 Antenna 380-470 MHz
- User Guide/CD Manual
- Quick Starter Guide

Ordering Instruction

NOTE: XTS 4000 is offered in two different Digital packages (Conventional or Conventional & Trunking). Additional options are available, but not required.

Conventional Package (H44) includes the following:

- Digital ASTRO Conventional, PTT- ID, Remote Monitor One Touch, Repeater Access, Conventional Vote Scan, and Conventional Radio Cloning

Conventional & Trunking Package (H45) includes the following:

- 3600 Digital SmartZone, ASTRO 25 Trunking, PTT-ID, Remote Monitor, One Touch, Repeater Access, Omnilink
- All of the features included in the Conventional Package (H44)

NOTE: Please be advised of the Relative Radiated Received Sensitivity:

Self-Quieting Frequency List (within +/-12.5kHz)

~ 381.5400	~ 413.3350	~ 437.1800	~ 453.0800	~468.9750
~ 389.4900	~ 417.7650	~ 437.2900	~ 457.4875	
~ 393.1900	~ 421.2850	~ 442.3400	~ 461.0250	
~ 397.4400	~ 429.2100	~ 445.1300	~ 466.2400	
~ 405.3850	~ 429.2300	~ 446.7188	~ 466.9150	

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 4000 Portable radios. Advanced Messaging is NOT supported on XTS 4000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 4000 Portable Requires:

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H44)
- Packet Data Interface (Q947)

OR

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (H45)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

[ASTRO 25 Advanced Messaging Solution Ordering Information.](#)

Configuration

Accessories

Battery

Charger

Description	Full Description	Nomenclature	APC	Price
XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00
XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00
XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$251.00

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 UHF R1 & UHF R2 products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 4000 Last Order Entry Date : June 1, 2014

XTS 4000 Last Scheduled Ship Date: September 30, 2014

[XTS 4000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **–
[APX3000](#)**

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	NKN1027A	RS232 XTS4000 PROGRAMMING CABLE	261	15
PARTS	PGF	NNTN6937A	XTS4000 CHARGING CRADLE ADAPTER	785	98
PARTS	CDP	NNTN6938A	XTS4000 AC CHARGER	785	5
PARTS	CDP	PMLN5429A	XTS4000 INSERT FOR IMPRES, 5000 SINGLE UNIT CHARGER	785	5

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[MODEL](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[UPDATE HISTORY](#)

[SHIP CARD](#)

Model

ASTRO® Digital XTS 4000 Portable Series
VHF
Wide Area SmartZone® "Handie-Talkie™" Radio
Trunked Radio Systems

Ordering Information

General Information

The XTS 4000 is the ideal solution in surveillance covert type operations where reliable secure communications is a must. Designed to resemble the appearance of today's consumer cellular communication devices, the XTS 4000 allows agents to blend right into the crowd. Our digital ASTRO 25 portable radio delivers high quality communication in a light and discrete package for those critical undercover situations.

The following limitation must be considered before ordering:

- **Significant Coverage Reduction:** The radio has a maximum power output of **2W** and utilizes a small covert antenna. These design elements result in limited coverage as compared to XTS 2500 or XTS 5000.
- **Range:** The best case condition is with antenna up and the radio been used in front of the face. In this mode the range is approximately **1 miles range** depending on the surrounding environment. With the antenna down and the radio on the belt, the range will be reduced.
- **Battery Capacity:** Standard Battery capacity is 630 mAh (Lilon only) and offers about 4 hours at 5/5/90 duty cycle.
- **XTS 4000 has all unique Accessories and Cables:** XTS 4000 is NOT compatible with XTS 5000/2500/1500 accessories. Customers will need to purchase new programming cables, chargers, and keyloading cables for use with XTS 4000.
- **Band Availability:** Only offered in VHF (3 antenna splits) and UHF R1 380- 470 MHz.

Hydra Coverage Simulation:

It is highly recommended that customers interested in the XTS 4000 also engage the System Deployment team who can utilize tools to simulate the coverage offered by the XTS 4000 radio. Hydra, an engineering application used to model performance of wireless communications systems, can assist the customer in understanding the impact of the reduced footprint of the XTS 4000 on a customer system. This information could be instrumental in helping the customer identify if the XTS 4000 is the right product for them and whether a PDR3500 or DVRS solution would make sense. (Link to be added)

E3 Hold Notice:

Customer or sales must acknowledge that they are aware the transmit power is 2 watt max output, and the standard shipping Li-ion battery capacitance is 630 mAh which computes to 4 hrs of operating using a 5-5-90 duty cycle.

You may complete this acknowledgement form and submit to the product planner upon ordering to avoid delays. To view this document click [here](#)

Portable Repeater (optional)

The PDR 3500 is a single channel portable conventional repeater unit in a suitcase that allows range extension for conventional units. This solution can help with extending the conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the PDR 3500 price pages located [here](#).

DVRS (optional)

The Digital Vehicular Repeater System (DVRS) is a single channel vehicle based on-scene repeater with system pass-through capabilities that allow system range extension for specially configured local radio units. This solution can help with extending the system or conventional range of the XTS 4000 in low RF signal areas. For additional information, please refer to the DVRS price pages located [here](#).

The links below go to the specific ECAT price pages for the different DVRS models. From those price pages information on specific model pricing and orderable options can be seen as well as ordering guide information.

- [Digital Vehicular Repeater VHF](#)
- [Digital Vehicular Repeater UHF](#)
- [Digital Vehicular Repeater 700 MHz](#)
- [Digital Vehicular Repeater 800 MHz](#)

Features

General Ordering Requirement and Information when ordering XTS 4000

All ASTRO Digital XTS4000 packaged models include the following hardware features:

- 2 Li Ion Batteries (NNTN6944)
- 1 Antenna 164-174MHz. If this antenna is not desired you may choose one from the antenna section below.
- Plastic Holster
- Encryption Module equipped with DES-XL/DES-OFB/AES/DVP-XL and OTAR
- User Guide/CD Manual
- Quick Starter Guide

Ordering Instruction

NOTE: XTS 4000 is offered in two different Digital packages (Conventional or Conventional & Trunking). Additional options are available, but not required.

Conventional Package (H44) includes the following:

- Digital ASTRO Conventional, PTT-ID, Remote Monitor One Touch, Repeater Access, Conventional Vote Scan, and Conventional Radio Cloning

Conventional & Trunking Package (H45) includes the following:

- 3600 Digital SmartZone, ASTRO 25 Trunking, PTT-ID, Remote Monitor, One Touch, Repeater Access, Omnilink
- All of the features included in the Conventional Package (H44)

NOTE: Please be advised of the Relative Radiated Received Sensitivity:

Self-Quieting Frequency List (within +/-12.5kHz)

~ 136.6730	~ 165.9000
~ 143.0680	~ 167.6450
~ 147.4470	~ 170.4000
~ 153.6000	~ 172.0230
~ 158.2230	~ 172.6950
~ 161.2475	

ASTRO Advanced Messaging Solution (AMS)

The ASTRO 25 Advanced Messaging Solutions is the latest messaging platform from Motorola Solutions and will replace ASTRO Text Messaging Service (TMS). As a complete end-to-end solution it leverages the core assets of ASTRO 25 IV&D/CID networks, ASTRO 25 radios, Integrated Command Center applications and Unified Network Services. The application allows responders to send/receive messages and run database queries from ASTRO 25 data enabled portable radios, extending real time information access to the field so dispatchers and first responders can be more efficient and achieve safer outcomes.

Provides functional parity with TMS and leverages the PremierOne messaging services platform, offering multiple configurations to enhance and extend core messaging functionality that can include queries and dispatch notifications. Based upon the configuration chosen, ASTRO 25 Advanced Messaging Solution extends Computer Aided Dispatch (CAD) information beyond the vehicle to select ASTRO 25 Portable radios.

Many Public Safety agencies have experienced the benefits of messaging and sharing important information to/from the communication center (dispatch) and vehicles equipped with MDT's. With ASTRO 25 Advanced Messaging Solution we are extending that capability to responders when Outside the Vehicle.

ASTRO Advanced Messaging Solution will be available on XTS 4000 Portable radios. Advanced Messaging is NOT supported on XTS 4000 Top Display Portable radios.

Ordering ASTRO Advanced Messaging Solution for XTS 4000 Portable Requires:

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- P25 Conventional (H44)
- Packet Data Interface (Q947)

OR

- XTS 4000 Dual Display
- ASTRO Digital CAI Operation (Q806)
- ASTRO Project 25 Trunking Software (H45)
- Packet Data Interface (Q947)

NOTE: There is no specific option to order for the Advanced Messaging Solution on the subscribers as the functionality is included in the Packet Data option. Also, the text messaging functionality carries a per-radio charge on the server side of \$50 (one time license fee to access messaging services) per radio. When adding query the fee is \$125 per radio. For additional ordering guidelines of the AMS feature which includes the server and radio license fees, please visit -

<http://ecat.comm.mot.com/ecat/pricebooks/dup/MCCP.htm>

Configuration

Accessories

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA 145 - 166 MHZ	-	NAD6581A	555	\$29.00
ANTENNA 136 - 151 MHZ	-	NAD6582A	555	\$32.00
ANTENNA 162.0 - 174.0 MHZ	-	NAD6583A	555	\$29.00

Battery

Charger

Description	Full Description	Nomenclature	APC	Price
XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00
XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00
XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
USB PROGRAMMING CABLE	-	NKN1029A	261	\$380.00
RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$251.00

Update History

Special Note for United States - State & Local Markets only:

In accordance with FCC mandate, the XTS 2500 VHF products operating on Part 90 frequencies will be restricted to 12.5kHz or narrower operations on Jan. 1, 2013

XTS 4000 Last Order Entry Date : June 1, 2014

XTS 4000 Last Scheduled Ship Date: September 30, 2014

[XTS 4000 Notification of Intent to Cancel Memo](#)

**** Alternative products include the APX Series **-**
[APX3000](#)

****Please note that NEW version of Customer Programming Software (CPS) (Part # RVN4181/ RVN4186) is required for initial customer orders for XTS radios. ****

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PARTS	CDP	NAD6581A	ANTENNA 145 - 166 MHZ	555	5
PARTS	RNS	NAD6583A	ANTENNA 162.0 - 174.0 MHZ	555	25
			RS232 XTS4000 PROGRAMMING		

PARTS	CDP	NKN1027A	CABLE	261	15
PARTS	PGF	NKN1029A	USB PROGRAMMING CABLE	261	23
PARTS	PGF	NNTN6937A	XTS4000 CHARGING CRADLE ADAPTER	785	98
PARTS	CDP	NNTN6938A	XTS4000 AC CHARGER	785	5
PARTS	CDP	PMLN5429A	XTS4000 INSERT FOR IMPRES, 5000 SINGLE UNIT CHARGER	785	5

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[MODEL](#)

[UPDATES](#)

[ORDERING INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



This Radio is DISCONTINUED
ASTRO® Digital XTS 5000
FLASHport® Aftermarket Upgrades
700/800MHz, VHF, UHF Bands
Secure and Trunked Radio Systems

Updates

- XTS 5000 Last Order Entry Date : December 31, 2016
- XTS 5000 Last Scheduled Ship Date: January 31st, 2017
- [XTS 5000 FLASHport Price Escalation & Notification of Intent to Cancel Memo](#)
- **** Alternative products include the APX Series ****
[APX7000](#) / [APX7000XE](#) / [APX6000](#) / [APX6000XE](#)

Ordering Information

General Information

This Radio is DISCONTINUED

FLASHport® Aftermarket Software is used to upgrade to the latest version of your System Enhancement Software Package to upgrade to a different System Enhancement Software Package or to order enhancements for existing for existing ASTRO® Digital XTS 5000 radios in the field. FLASHport® upgrade kits contain upgrade software, FLASHkey, and upgrade documentation.

Ordering Requirements

1. **Specify** the *current* System Enhancement Software Package that represents the software

in the radio as the main line item (T6748, T6749, T6750, or T6751.)

2. Select the *desired* Operational Mode, System Enhancement Software Package, and/or System Enhancement Options and enter as sub-items.

3. **IMPORTANT:** If upgrading to a new System Enhancement Software Package, you must use the column which represents that new System Enhancement Software Package to determine price and availability of System Enhancement Options. If you are remaining at the same System Enhancement Software Package, use the column of the current System Enhancement Software Package to determine price and availability of System Enhancement Options.

4. ALL sub-items must have the same quantity listed (which equals the number of radios being upgraded) even though the main line is ALWAYS 1.

5. Radio Model number and **EXISTING** FLASHcode must be entered into designated COF fields. A separate line item must be entered for each different combination of Radio model and **EXISTING** FLASHcode.

6. "FLASH upgrades are not discountable"

NOTE: The FLASHcode can be read by using the USB or RS232 cable.

CURRENT SYSTEM SOFTWARE PACKAGE

	T6748	T6749	T6750	T6751
	ANALOG SMARTNET®	DIGITAL SMARTNET®	ANALOG SMARTZONE®	DIGITAL SMARTZONE®
OPERATION MODES (List as sub items)				
ENH: ASTRO® Digital CAI Operation Q808 NOTE 1	X	N/A	X	N/A
SYSTEM ENHANCEMENT SOFTWARE (List as sub items)				
ENH: Upgrade to SMARTNET® Q326	X	X	N/A	N/A
ENH: Upgrade to SmartZone® Q327	X	X	X	X
SYSTEM ENHANCEMENT				

OPTIONS (List as sub items)				
ADD: ID Display H14 NOTE 3	X	X	X	X
ADD: One Touch Button H46	X	X	X	X
(NOT available on Model 1 Portables)				
ENH: SmartZone® OmniLink™ Operation Q173	N/A	N/A	N/A	X
ENCRYPTION ENHANCEMENT OPTIONS				
(List as sub items) - Radios must contain Encryption to add Encryption Enhancement Options NOTE 2				
ADD: Multikey Operation H869 NOTE 4	X	X	X	X

Note 1: For feature details, see System Enhancement Software Packages Section under the General Information on the XTS 5000 800MHz page.

Note 2: See Encryption Field Upgrade Kits' Section under the General Information on the XTS 5000 800MHz page, if radios do not currently contain encryption.

Note 3: ID Display uses ASTRO® Signaling in digital mode and MDC™ signaling in analog model. Consequently, it is not available in Trunked analog modes. This option can only be used on Conventional channels when in analog mode.

Note 4: The radio requires NTN9738A (UCM) for use of this option.

An RS232 or Universal Serial Bus (USB) cable is required to "FLASH" FLASHport® software into the ASTRO®: Digital XTS 5000 radios.

Software Prices **BELOW DO NOT** include field programming.

FCC Information

ALL MODELS ON THIS PAGE REQUIRE AN EXPORT LICENSE TO BE EXPORTED FROM THE US/CANADA

Ç Canada personnel refer to Section A under CANADA ONLY information.

ASTRO® DIGITAL XTS5000 800MHz

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T6746	430	\$0.00
DIGITAL CONVENTIONAL	-	T6747	430	\$0.00
ANALOG SMARTNET	-	T6748	430	\$0.00
DIGITAL SMARTNET	-	T6749	430	\$0.00
ANALOG SMARTZONE	-	T6750	430	\$0.00
DIGITAL SMARTZONE	-	T6751	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OPTION	-	Q808AG	430	\$670.00
ENH: PACKET DATA FOR XTS5000	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AP	430	\$260.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
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ENH: TACTICAL RADIO STW-STUN/KILL	A keypad is required on the radio to reverse the Stun command in the field. If using a radio with a limited or no keypad, the radio will need to be hooked into a computer with CPS to reverse the Stun/Kill setting. This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625) to operate. Tactical Stun Kill is not compatible with DVRs QA00631.	H02	721	\$98.00
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AN	430	\$130.00
ENH: UPGRADE TO DIGITAL VSELP	Compatible with T5776, T5778 and T5780. ASTRO Digital VSELP Operation	Q243	332	\$700.00
ENH: UPGRADE EXISTING CONVENTIONAL	-	Q324AK	430	\$75.00
ENH: UPGRADE EXISTING SMARTNET	-	Q326AT	430	\$75.00
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	-	Q327BE	430	\$1,040.00
ENH: UPGRADE SMARTNET TO SMARTZONE	-	Q327BF	430	\$520.00
ENH: UPGRADE EXISTING SMARTZONE	-	Q327BG	430	\$75.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AS	430	\$260.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price

ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AN	430	\$130.00
ADD: DIGITAL ID DISPLAY	-	H14AM	430	\$98.00
ADD: TRUNKED RADIO TRACE AND REMOTE MONITOR	Cannot be used on P25.	H43BA	430	\$130.00
ADD: ONE TOUCH BUTTON	You can now do Private Call on 1.5 models and APX3000	H46AT	443	\$98.00
ADD: ENHANCED SMARTZONE OMNILINK	-	Q173AV	430	\$260.00
ENH: PROJECT 25 9600 BAUD TRUNKING	Includes SmartZone Omnilink (Q173)	Q361AM	430	\$390.00
ADD: FIREGROUND ACCOUNTABILITY SOFTWARE UPGRADE	Used for already fielded XTS5000s (FLASHport version). Please see ASTRO Digital XTS 5000 FLASHport Upgrade price page for upgrade models (link above). Please choose upgrade model with Digital Mode Configuration and ORDER this option.	Q445AB	430	\$325.00
ADD: ADP Flashport Upgrade	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AD	430	\$98.00

Software Refresh

Description	Full	Nomenclature	APC	Price
-------------	------	--------------	-----	-------

	Description			
ENH: RADIO SOFTWARE REFRESH XTS5000	-	Q880AA	430	\$98.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	-	H869BN	430	\$429.00
ENH: MDC & ASTRO P25 OTAR WITH MULTIKEY	-	Q498AQ	430	\$962.00

Programming

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$195.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENH: SOFT ID FLASHPORT	-	Q352AK	430	\$0.00
ENH: ENH: OTACR CHL REASSIGNMENT U/V	-	Q353AL	430	\$0.00

Accessories

Algorithm Kits

Description	Full Description	Nomenclature	APC	Price
ENCRYPTION KIT DVP XL	Includes both UCM Hardware Module & Software Encryption Algorithm	NTN9839	456	\$637.00

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY NICD, 1525 MAH	-	NTN8294BR	453	\$95.00

Battery Maintenance Systems

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00

Bluetooth, Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Headsets

Description	Full Description	Nomenclature	APC	Price
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer- receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a	RMN4049	742	\$225.00

	noise cancelling boom microphone and in-line PTT.			
--	---	--	--	--

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Replacement Kits

Description	Full Description	Nomenclature	APC	Price
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00
ADV'D SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
INTERFACE MODULE FOR BONEMIC	-	JMMN4064B	742	\$347.00
CLONING CABLE	-	RKN4108	261	\$370.00
XTVA CONSULE OPEN-FACE BNC	-	NTN1606F	272	\$1,208.00
TYPE 1 FLASHPORT	-	DVN4043	430	\$200.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
PORTABLES	SCB	DVN4043	TYPE 1 FLASHPORT	430	40
PORTABLES	SCB	DVN4049	ADV'D SYSTEM KEY IBUTTON REPLACEMENT	362	15
PORTABLES	SCB	DVN4050	ADV'D SYSTEM KEY READER REPLACEMENT	362	27
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PORTABLES	SCB	DVN4181	IBUTTON FOR USB ADAPTOR	362	5
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
PARTS	PDC	HLN6875A	3" PLASTIC BELT CLIP ATTACHMENT	271	7
FIXEDSTN	CDP	NTN2570C	ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	742	5
PARTS	RNS	NTN8294BR	BATTERY NICD, 1525 MAH	453	2
PARTS	PGF	RKN4108	CLONING CABLE	261	63
PARTS	CDP	RKN4108	CLONING CABLE	261	5
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
PORTABLES	CDP	RMN4049	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
			TEMPLE TRANSDUCER W/BOOM MIC		

PORTABLES	CDP	RMN4049	& PTT-RECEIVE AUDIO THROUGH THE TEMPLES	742	7
SOFTWARE	SCB	T6746	ANALOG CONVENTIONAL	430	4
SOFTWARE	SCB	T6747	DIGITAL CONVENTIONAL	430	2
SOFTWARE	SCB	T6748	ANALOG SMARTNET	430	16
SOFTWARE	SCB	T6749	DIGITAL SMARTNET	430	16
SOFTWARE	SCB	T6750	ANALOG SMARTZONE	430	3
SOFTWARE	FSC	T6751	DIGITAL SMARTZONE	430	18
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PORTABLES	CDP	WPLN4108 R	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	785	50
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	CDP	WPLN4112BR	IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	785	9
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25
PARTS	PDC	WPLN4114AR	SINGLE BASE ONLY	785	25

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JUMP TO ...

[MODEL](#)

[UPDATES](#)

[GENERAL INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model



ASTRO® Digital XTS/XTL 5000 Portable & Mobile
ASTRO® Digital XTL 2500 Mobile
FLASHport®
KVL 3000/3000PLUS Universal Crypto Module (UCM) Upgrades
Secure/Conventional/Trunked Radio Systems

Updates

PRODUCT HAS BEEN CANCELLED, EFFECTIVE SEPTEMBER 30, 2015

An Alternative Flashport Upgrade is available via the KVL 4000, order part #: T8065
See Corresponding Price Page for more details: [LINK](#)

NOTE: These upgrades **ONLY** apply to XTL/XTS 5000, and XTL 2500 subscribers with MACE UCMs with firmware version R07.xx.xx or higher.

General Information

The ASTRO Digital New XTS/XTL FLASHport Universal Crypto Module (UCM) upgrades allow secure customers to upgrade their basic software and algorithm software within a fielded UCM based encrypted ASTRO Digital XTS 5000 Portables or XTL 5000 Mobiles or XTL 2500 Mobiles without having to replace the UCM. ASTRO Digital upgrade kit (T7769) includes one PCMCIA card and one Subscriber UCM Upgrade Manual.

Ordering Requirements

1. Order PCMCIA UNIVERSAL CRYPTO MODULE (UCM) upgrade kit (T7769). Each upgrade kit consists of a single PCMCIA card that can upgrade up to 100 individual UCM based ASTRO Digital XTS 5000 Portables or , XTL 5000 Mobiles.

2. Select the *desired* algorithm software upgrade option.

- Only one (1) encryption algorithm type can be ordered per upgrade kit.
- Specify the number of software upgrades required.
- Each individual UCM requires a single upgrade; therefore, the quantity of each option should equal the number of upgrades to be performed.
- The algorithm software options must be ordered in equal number and can not exceed 100 per upgrade kit option.

3. The FLASHport UCM upgrade requires the use of a key loading device (KVL 3000 or KVL 3000 Plus) and a PCMCIA card to deliver the new software to the UCM. When upgrading the UCM module with AES Encryption, a KVL 3000 Plus is required to FLASH upgrade the module (KVL 3000 does not support AES).

The following example will provide an upgrade card to upgrade twenty (20) fielded UCM based ASTRO Digital XTS 5000 Portables or XTL 2500, XTL 5000 Mobiles with the AES algorithm.

<u>Item Number</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	1	T7769	PCMCIA NEW UCM UPGRADE CARD (XTS/XTL)
1a	20	CA00182AG	ADD: AES Encryption Software

All encryption products, kits, software and technology require an approved export license prior to shipment. Contact the Sector Export Control office at +1 (847) 576-8163 to discuss any possible licensing restriction. The international use of encryption algorithms (except for DES, DES-XL, DES-OFB) is highly restricted by the U. S. Federal Government. License approvals are considered for export to a limited selection of countries and end users. Contact the Sector Export Control office at +1 (847) 576-8163 for licensing information before submitting bids, proposals, or accepting orders for algorithm based encryption products.

Configuration

Options

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AF	721	\$487.00
ADD: AES ENCRYPTION				

SOFTWARE	-	CA00182AG	721	\$550.00
ADD: UPGRADING ADP FIELDDED UCM	-	CA00243AD	430	\$75.00
ADD: DES/ DES-XL/DES- OFB ENCRYPTION	-	CA00840AD	721	\$599.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613AB	721	\$86.25

Ship Card

Data Not Available

JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Zetron Model 30 Worldpatch
Radio Telephone Interconnect**

Ordering Information

Features

- Simplex and half-duplex interconnect for base stations, control stations, and repeaters
- Simplex audio control via VOX, sampling, or combined sampling with VOX
- Single phone line interface
- Compatible with end-to-end telco lines and analog PBX extensions
- Remote programmable from DTMF radio or Touch-Tone telephone
- Dial-up Remote Monitor
- Autodial (up to 50 stored numbers) and redial
- Autodial for non-DTMF subscribers using 4-click PTT
- Security password for Direct Air Access
- Digital Voice Delay for enhanced simplex operation
- 100-call and 1000-call 2-tone paging
- Up to 13 digit DTMF paging
- Convenience features including Morse code station ID, toll restrictions, timers, DTMF regeneration, programmable ANI codes, and courtesy tones
- Disconnect warning and "Go-Ahead-Talk" tones
- Call Alert to let mobile users know that the phone is ringing (dispatch operations)
- Hook Flash feature for call hold and call transferring
- Repeat audio and control for mobile to mobile calls
- 19" Rack Mountable, 1 RU (Rack Unit)
- FCC Part 68 Approval

Note: Zetron Model 30 is not type approved for use outside the United States.

General Information

The Model 30 Worldpatch is a compact, simplex or half-duplex telephone interconnect that allows a group of two-way radio users to place and receive telephone calls in a conventional system. It efficiently interfaces a telephone line (or analog PBX line) to a simplex base station, control station, or conventional repeater. The Model 30 Worldpatch distributed through Motorola ships standard with Zetron's Advanced Programming Operation, Digital Voice Delay and Selective Calling features. Prewired interface cables are available for MTR2000, Quantar, and DIU3000. Cables include power source for Model 30 and connect through "MRTI" port on stations. Model 30 ships standard with a User/Installation Manual.

Note: Zetron Model 30 is not type approved for use outside the United States.

Configuration

Models

Options

Cable(s)

Description	Full Description	Nomenclature	APC	Price
ADD: QUANTAR/MTR2000 INTERFACE CABLE AND POWER SUPPLY	-	TT04097AA	207	\$727.00

Mounting Kits

Description	Full Description	Nomenclature	APC	Price
ADD: 19 INCH RACK MOUNTING BRACKETS	-	TT04061AA	207	\$112.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ADD: DEADBOLT LIGHTNING SURGE ARRESTOR	-	TT04066AA	207	\$438.00

Ship Card

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Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ZET	L3284	ZETRON MODEL 30 WITH SELCALL (901-9540)	207	14

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JUMP TO ...

[MODEL](#)

[ORDERING
INFORMATION](#)

[CONFIGURATION](#)

[SHIP CARD](#)

Model

**Zetron Model 30 Worldpatch
Radio Telephone Interconnect**

Ordering Information

Features

700 MHz Transmitter Combiners

- Simplex and half-duplex interconnect for base stations, control stations, and repeaters
- Simplex audio control via VOX, sampling, or combined sampling with VOX
- Single phone line interface
- Compatible with end-to-end telco lines and analog PBX extensions
- Remote programmable from DTMF radio or Touch-Tone telephone
- Dial-up Remote Monitor
- Autodial (up to 50 stored numbers) and redial
- Autodial for non-DTMF subscribers using 4-click PTT
- Security password for Direct Air Access
- Digital Voice Delay for enhanced simplex operation
- 100-call and 1000-call 2-tone paging
- Up to 13 digit DTMF paging
- Convenience features including Morse code station ID, toll restrictions, timers, DTMF regeneration, programmable ANI codes, and courtesy tones
- Disconnect warning and "Go-Ahead-Talk" tones
- Call Alert to let mobile users know that the phone is ringing (dispatch operations)
- Hook Flash feature for call hold and call transferring
- Repeat audio and control for mobile to mobile calls
- 19" Rack Mountable, 1 RU (Rack Unit)
- FCC Part 68 Approval

Note: Zetron Model 30 is not type approved for use outside the United States.

General Information

The Model 30 Worldpatch is a compact, simplex or half-duplex telephone interconnect that allows a group of two-way radio users to place and receive telephone calls in a conventional system. It efficiently interfaces a telephone line (or analog PBX line) to a simplex base station, control station, or conventional repeater. The Model 30 Worldpatch distributed through Motorola ships standard with Zetron's Advanced Programming Operation, Digital Voice Delay and Selective Calling features. Prewired interface cables are available for MTR2000, Quantar, and DIU3000. Cables include power source for Model 30 and connect through "MRTI" port on stations. Model 30 ships standard with a User/Installation Manual.

Note: Zetron Model 30 is not type approved for use outside the United States.

Configuration

Models

Description	Full Description	Nomenclature	APC	Price
ZETRON MODEL 30 WITH SELCALL (901-9540)	-	L3284	207	\$1,722.00

Options

Cable(s)

Description	Full Description	Nomenclature	APC	Price
ADD: QUANTAR/MTR2000 INTERFACE CABLE AND POWER SUPPLY	-	TT04097AA	207	\$727.00

Mounting Kits

Description	Full Description	Nomenclature	APC	Price
ADD: 19 INCH RACK MOUNTING BRACKETS	-	TT04061AA	207	\$112.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ADD: DEADBOLT LIGHTNING SURGE ARRESTOR	-	TT04066AA	207	\$438.00

Accessories

Ship Card

[DOWNLOAD AS CSV](#)

Product Type	FC	Nomenclature	Description	APC	Lead Time
QUOTEDS	ZET	L3284	ZETRON MODEL 30 WITH SELCALL (901-9540)	207	14

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3rd PARTY DROP SHIP EQUIPMENT
Part Number Information
General Information

Motorola Solutions currently resells various products for the OEM suppliers listed in our IFB response with the P/Ns listed herein and as quoted for specific customer needs. Motorola Solutions is confident that these OEM suppliers will authorize Motorola Solutions' resale of products & services to the Commonwealth of Pennsylvania under IFB 6100039075 - Two Way Radio Equipment & Services. Motorola Solutions will work with the Commonwealth to identify specific product requirements and provide additional information for each product.

Lifecycle Support Notice

VX-264, VX-450 series, VX-2100, VX-2200

OVERVIEW

Motorola Solutions announces the cancellation of the VX-264 and VX-450 series portables and the VX-2100, VX-2200 mobiles.

MODELS TO BE CANCELLED

The following models will be cancelled:

Radio	Model	Description
VX-264	AC127N501-MOT-NA	VX-264 VHF 136-174 MHz / 128 CH
VX-264	AC127U502-MOT-NA	VX-264 UHF 400-470 MHz / 128 CH
VX-264	AC127U501-MOT-NA	VX-264 UHF2 450-512 MHz / 128 CH
VX-451	AC095N521-MOT-NA	VX-451 VHF 136-174 MHz / 32 CH
VX-451	AC095U522-MOT-NA	VX-451 UHF 400-470 MHz / 32 CH
VX-451	AC095U521-MOT-NA	VX-451 UHF2 450-512 MHz / 32 CH
VX-454	AC094N522-MOT-NA	VX-454 VHF 136-174 MHz / 512 CH
VX-454	AC094U524-MOT-NA	VX-454 UHF 400-470 MHz / 512 CH
VX-454	AC094U522-MOT-NA	VX-454 UHF2 450-512 MHz / 512 CH
VX-459	AC094N521-MOT-NA	VX-459 VHF 136-174 MHz / 512 CH
VX-459	AC094U523-MOT-NA	VX-459 UHF 400-470 MHz / 512 CH
VX-459	AC094U521-MOT-NA	VX-459 UHF2 450-512 MHz / 512 C
VX-2100	AC061N533-MOT-NA	VX-2100-D0-25 134-174 VHF 25W
VX-2100	AC061N531-MOT-NA	VX-2100-D0-50 134-174 VHF 50W
VX-2100	AC061U537-MOT-NA	VX-2100-G6-25 400-470 UHF 25W
VX-2100	AC061U535-MOT-NA	VX-2100-G6-45 400-470 UHF 45W
VX-2100	AC061U533-MOT-NA	VX-2100-G7-25 450-512 UHF 25W
VX-2100	AC061U531-MOT-NA	VX-2100-G7-45 450-512 UHF 45W

VX-2100	AC061U531-MOT-NA	VX-2100-G7-45 450-520 UHF 45W
VX-2200	AC061N534-MOT-NA	VX-2200-D0-25 134-174 VHF 25W
VX-2200	AC061N532-MOT-NA	VX-2200-D0-50 134-174 VHF 50W
VX-2200	AC061U538-MOT-NA	VX-2200-G6-25 400-470 UHF 25W
VX-2200	AC061U536-MOT-NA	VX-2200-G6-45 400-470 UHF 45W
VX-2200	AC061U534-MOT-NA	VX-2200-G7-25 450-520 UHF 25W
VX-2200	AC061U532-MOT-NA	VX-2200-G7-45 450-520 UHF 45W

The last order date will be July 30 2019, or while supplies last. The last ship date will be October 30, 2019. Due to high demand, material is likely to run out prior to the last order date.

SUGGESTED PRODUCT REPLACEMENTS

Suggested replacement products below depend on the particular application and end user preference.

Legacy Radio Model	Suggested Replacement Model
VX-264 Portable	CP185, VX261 Portables
VX-450 Series Portable	CP185, VX-261, CP200d (analog) Portables
VX-2100 Mobile	CM200d Mobile
VX-2200 Mobile	CM300d Mobile

SERVICE SUPPORT

Aftermarket product support will be available for the VX-264 portable, VX-450 series portables and VX-2100/200mobile listed above via commercially reasonable efforts after cancellation through Motorola Solutions Customer Service.

Please contact your Motorola Solutions Account Representative for specific questions regarding this notice

DATE OF THIS NOTICE

March 30 2019.

US VERSION

VL50™ Portable

Standard Package Includes:

- Standard Battery (1100 mAh Li-ion, 3.6V - 56557)
- Standard Charger (120V Double Unit Charger - 56553)
- Swivel Belt Holster (HCLN4013)
- User Guide (6881096C37)
- Two Year Warranty

Product Features:

- Up to 8 Channels
- 12.5 kHz Channel Spacing
- Scan
- 83 DPL, 38 PL Codes
- VibraCall Alert
- Battery Meter
- Radio Signal Strength Indicator
- Enhanced VOX (No accessory needed)
- 7 Selectable Call Tones

Default Frequencies:

UHF

464.5000	467.8500
464.5500	467.8750
467.7625	467.9000
467.8125	467.9250



Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP
P24VPC03D2_A	464.5-467.9 MHz	UHF	1W	8	Yes	No	\$255.00

FCC Information:

AZ489FT4926

US VERSION

DTR700

Standard Package Includes:

- DTR700 Radio
- Standard 2500mAh Li-Ion Rechargeable Battery
- Drop-In Charger w/ Power Adaptor
- Swivel Belt Holster
- Quick Reference Guide
- Two Year Warranty

Product Features:

- 50 Digital Channels
- License-free Communication on 900 MHz Digital ISM Band
- Enhanced Private Communication via FHSS (Frequency Hopping Spread Spectrum)
- Full graphic color display
- Long battery life up to 16.5 hours *
- Anti-microbial housing that prevents the growth of mold and germs
- Compact durable design that meets U.S. Military 810G standards for shock, vibration, water, dust
- Programmable button that can be used to quickly access call functions
- 4 Digit Profile ID for Non-Interference communication
- Extended Range with clear Communicate across 350,000 sq ft and up to 30 floors **
- Talk Permit Tone indicates when the channel is available to speak
- Home Channel Revert to automatically return after the end of a call on a different channel
- Clone radio configuration using the cloning cable (sold separately)
- CPS for custom configuration of programmable button, profile ID, channel alias, radio name, etc
- VibraCall vibration alert
- Power Saving Mode

Special Calling Features:

- Private Reply - respond with a one-to-one call to the person who last spoke
- Direct Call - one-to-one call to a pre-configured radio (e.g. manager, principal, security, etc.)
- Call All Available - group call across all channels to everyone not engaged in a call ***
- Page All Available - one-way announcement across all channels to everyone not in a call ***



Quantity Discount Program

This product is eligible for Quantity Discounts. Quantity discounts are calculated and granted at the time a new order is placed. Additional units added to the order after the fact will be a single unit price.

Deletion of units from order or cancellation of line items consequent on actual units shipped being less than requirement for quantity discount will result in a charge to dealer account for the difference in price.

Models

Model #	Band Split	Band	Power	Conv. Channels	Display	Keypad	MSRP
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DTS150NBDLAA	N/A	900 MHz	On-Site Digital	N/A	Yes	Limited	\$399.00						
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* Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary

** Coverage depends on terrain and environmental conditic

*** Does not interrupt ongoing communication

US VERSION

BPR™ 40 Portable

Standard Package Includes:

- 8 Channel Model (Mag One Battery NiMH 1200 mAh - PMNN4071 R)
- 16 Channel Model (Mag One Battery Li-ion 1500 mAh - PMNN4075 R)
- Mag One Tri - Chemistry Rapid Charger Kit (includes PMIN5041 R Base/
- Mag One Antenna (VHF PMAD4051 R / UHF PMAF4070 R)
- Mag One Spring Belt Clip (PMIN4743)
- Operating Instruction Manual
- Warranty: One Year
- Mag One Accessories (except batteries): Six Months
- All Other Accessories (includes Mag One Battery and Motorola accessories): One Year

Product Features:

- 8 or 16 Channels
- 12.5 kHz only Channel Spacing
- 7 Programmable Buttons
- Adjustable Power Levels (shine with 1W)
- Priority Scan
- Small Size and Light Weight

Programmable Features:

- Nuicance Channel Delete
- DT /DPT Enable
- High/Low Power
- Volume Set
- Scan
- Talkaround

Frequencies Not Allowed:

VHF	UHF
158.91000	453.46500
173.27500	457.15000
173.26875	460.84375
	464.52500
	469.11500

Default Frequencies:

VHF	UHF
151.625	464.500

Additional frequencies can be added using the Customer Programming Software
All frequencies must be divisible by 5.0 or 6.25 kHz

Caution: Frequencies on the VHF band in the US have been assigned by the FCC with channel centers every 7.5 kHz, which means some of these frequencies are not evenly divisible by 6.25 kHz or 5 kHz. In order for a radio to be able to synthesize frequencies that are not evenly divisible by



Models

Model #	Band Split	Band	Power	Conv	Display	Keypad	MSRP
AAH84KDS8AA1_N	150-174 MHz	VHF	5W	8	No	No	\$233.00
AAH84KDJ8AA1_N	150-174 MHz	VHF	5W	16	No	No	\$258.00
AAH84RCS8AA1_N	450-470 MHz	UHF	4W	8	No	No	\$250.00
AAH84RCJ8AA1_N	450-470 MHz	UHF	4W	16	No	No	\$275.00

Configuration Option

Model #	Description	MSRP
STDPRG0027A	STANDARD PROGRAMMING	\$0.00

NOTE: US orders must select this option

Options	Description	MSRP
Q884	1 Year Service from the Start - LITE (US Only)	\$34.00
H885	2 Year Service from the Start - LITE (US Only)	\$65.00
H886	3 Year Service from the Start - LITE (US Only)	\$97.00

Service from the Start LITE

SfS LITE 1, 2 or 3 years of extended hardware repair coverage beginning at date of shipment. Repairs will be made

FCC/IC Information:

VHF: AZ489FT3810 / 109U-89FT3810

UHF: AZ489FT4873 / 109U-89FT4873

Environmental Specifications:

Operating Temperature: -30° C to +60° C (Radio Only)

Sealing: IPX4

US VERSION

CP185™ Portable

Standard Package Includes:

- Standard Battery (Li-Ion, 1750T mAh, DMNNA476A)
- Rapid Rate Charger (FCC Complaint) (< 3 Hours - Race: PMPN4137A, Sunlvy: 25009297001)
- Standard Antenna (VHF Haliflex MAD6502 R / UHF Stubby DMAE4002 R) * See General Notes
- 2" Spring Action Belt Clip (HI MQR44)
- Quick Reference Guide (68007024011)
- 2 Year Warranty

Product Features:

- Built-in Simple Voice Scrambling
- Internal VOX
- 12.5 kHz only Channel Spacing
- Commanding-Expanding (X-Band™)
- 8-Character Alphanumeric Display
- 16 Channels
- 2 Programmable Side Buttons
- 2 Programmable Front Buttons
- Front Panel Feature and Button Configuring Mode
- Battery Cover
- Normal and Priority Scan (1 List)
- Multi-Channel Capability
- High Power
- Talkaround Capability
- Ergonomically Designed
- Busy Channel Lockout
- Low Battery Alert
- Receive Only Channel

Programmable Features:

- Backlight
- Channel Alias
- Channel Scan
- Keypad Lock
- Monitor
- Mute/Channel Delete
- Power Level
- Repeater / Talkaround
- Reverse Burst
- Scrambling Code Select
- Scrambling On/Off
- Squelch Level
- Sticky Monitor
- TDI / DDI Enable
- Volume Set
- VOX On / Off

Frequencies Not Allowed:

140 000	155 175	167 020	166 140	160 000
155 010	155 505	169 005	166 115	167 785
155 050	159 005	170 000	155 805	167 000
155 020	160 000	170 005	155 010	168 010
155 015	160 005	172 025	156 015	168 125
155 170	161 150	172 000	156 125	168 240
155 180	167 025		158 105	170 000
				170 000

Default Frequencies:

157 680 161 175

Additional frequencies can be added using the CPS. All frequencies must be divisible by 5.0 or 6.25 kHz.

Caution: Frequencies on the VHF band in the US have been assigned by the FCC with channel centers every 7.5 kHz, which means some of these frequencies are not evenly divisible by 6.25 kHz or 5 kHz. In order for a radio to be able to synthesize frequencies that are not evenly divisible by 6.25 kHz or 5 kHz, it requires a more sophisticated synthesizer and hardware than the one offered with this model.



Standard Models

Model #	Band Split	Band	Power	Conv. Class	Display	Keypad	MSRP						
AAH03KEF8AA7AN	136-174 MHz	VHF	2-5W	16	Yes	Limited	\$315.00						
AAH03RDF8AA7AN	435-480 MHz	UHF	2-4W	16	Yes	Limited	\$332.00						

CP185™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CONFIGURATION OPTION

Configuration Options

Options	Description	MSRP						
STDPKG0133	Li-Ion 1750T mAh Battery (PMNN4476) & Charger	\$0.00						
QA01113	Li-Ion High Cap.2150 mAh Battery (PMNN4080) & Charger	\$17.00						
QA01114	NiMH 1300 mAh Battery (PMNN4082) & Charger	-\$5.00						
QA07009	Li-Ion 1750T mAh Battery (PMNN4476) & NO Charger	-\$10.00						
QA07010	Li-Ion High Cap.2150 mAh Battery (PMNN4080) & NO Charger	\$0.00						
QA07011	NiMH 1300 mAh Battery (PMNN4082) & NO Charger	-\$15.00						

General Options

Options	Description	MSRP
HA00041	Retail Temple Transducer (PMLN5003)	\$79.00
QA00531	Remote Speaker Microphone with Ear Jack, Coiled Cord and Swivel Clothing Clip (PMMN4013)	\$73.50
QA00532	Remote Speaker Microphone with IP57 Rating, Coiled Cord and Swivel Clothing Clip (PMMN4029)	\$75.00
QA01116	Lightweight Single Muff Adjustable Headset w/Swivel Boom Microphone (HMN9013)	\$57.00
QA01117	UHF Whip (16.5 cm) 430-520Mz (PMAE4016)	\$11.75
QA01315	VHF Stubby (9 cm) 136-155 MHz (PMAD4012)	\$13.25
QA01316	VHF Stubby (9 cm) 155-174 MHz (PMAD4013)	\$13.25
QA01318	VHF Heliflex 136-162 MHz (HAD9338)	\$11.75
Q884	1 Year Service from the Start - LITE (US Only)	\$34.00
H885	2 Year Service from the Start - LITE (US Only)	\$65.00
H886	3 Year Service from the Start - LITE (US Only)	\$97.00

Quantity Discount Program

You may “mix and match” any combination of SL300/CP185/CP200d portable models and/or CM200d/CM300d mobile models (“Radio Units”) on a single order and receive the appropriate quantity discount for each model. Quantity discounts are calculated and granted at the time a new order is placed (“Qualifying Order”). Additional Radio Units added to the Qualifying Order will be charged at the single Radio Unit price without discount. Deleting or cancelling Radio Units from a Qualifying Order will be viewed as a new Qualifying Order and reseller will receive the discount offered (if any) for the number of Radio Units actually shipped. All Radio Units must be shipped at the same time in order to qualify for the corresponding product models quantity discount. Change order requests or Radio Units returns that extend, stagger or otherwise change the number of Radio Units actually purchased in a single shipment, will result in a charge to the reseller’s account for the difference in price between the number of units purchased and the quantity discount reseller qualified under a Qualifying Order.

Service from the Start LITE

MOTOTRBO portable and mobiles radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-year Service from the Start -LITE (SFS) option. If you desire additional years of SFS, you may choose one of the above general options. Please note that these plans are in addition to the 2-year standard warranty and 1 year SFS that ships standard with the unit. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola’s normal shipping methods. No discounts are allowed on these options.

General Notes

The UHF Stubby standard antenna PMAE4003_R, provides a coverage range of 430 to 470 MHz. Should you need coverage up to 480 MHz, the QA01117 antenna option must be ordered

FCC Information:

VHF: A718QET3R2
UHF: A718QET1R2

Environmental Specifications:

Operating Temperature: -20° to +60° C (Radio Only)
Sealing: IP54

US DEALER VERSION

CP100d™ Portable



Standard Package Includes:

- Standard Battery (Lithium 1750 mAh - DMN14476)
- Standard Charger CFC Complaint (90 Minute Rapid Rate - DMPDN113)
- Standard Antenna (VHF Heliflex MAD6502 P / UHF Whip DMAE4016)
- 2" Belt Clip (LJ1N0944)
- 2 Year Warranty + 1 Year Essential Repair

Product Features:

- 16 Channels (No Display Model)
- 160 Channels (Display Model)
 - 250 / 12.5 kHz Channel Spacing
 - 2 Programmable Side Buttons
- 3 Front Programmable Buttons (Display Model)
 - Front Panel Programming (Display Model)
 - LED Battery Indicator

Analog Features:

- Voice Scrambling
- Time Out Timer
- Busy Channel Lockout
- Internal VOX
 - Normal and Priority Scan
- Receive Only Channel
- Busy Channel Lockout

Digital Features:

- Voice Announcement
- Radio Check (Decode)
- Remote Monitor (Decode)
- Radio Inhibit (Decode)
- Transmit Interrupt (Decode)

Programmable Features:

- High / Low Power
- Channel Scan
- Battery Indicator
- Monitor / Permanent Monitor
- Nuicance Channel Delete
- One Touch Access
- Permanent Monitor
- VOX On / Off
- Tone & Alerts On/Off
- Repeater / Talkaround
- Voice Announcement
- Brightness (Display Only)
- Keypad Lock (Display Only)



Allow
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Non-Display Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AAH87JDC9JA2AN	136-174 MHz	VHF	5W	16	No	No	\$399.00						
AAH87YDC9JA2AN	403-480 MHz	UHF	4W	16	No	No	\$399.00						

Display (Limited Keypad) Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP
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AAH87JDH9JA2AN	136-174 MHz	VHF	5W	160	Yes	Limited	\$499.00						
AAH87YDH9JA2AN	403-480 MHz	UHF	4W	160	Yes	Limited	\$499.00						

CP100d™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options

Options	Description	MSRP						
STDBAT0278	Standard Battery - Li-Ion, 1750T mAh Battery (PMNN4476)	\$0.00						
QA08064	Hi-Cap Li-Ion, 2150T mAh Battery (PMNN4080_R)	\$17.00						
QA08065	NiMH, 1400T mAh Battery (PMNN4082_R)	\$0.00						

Antenna Options

Options	Description	MSRP						
STDANT0278	Standard Whip Antenna (UHF-PMAE4016, VHF-NAD6502_R)	\$0.00						
QA08066	VHF 9cm Stubby Antenna, 136-162 MHz (HAD9742)	\$0.00						
QA08067	VHF 8cm Stubby Antenna, 162-174 MHz (HAD9743)	\$0.00						
QA08068	VHF Heliflex Antenna, 136-162 MHz (HAD9338)	\$0.00						
QA08185	UHF 9cm Stubby Antenna, 403-433 MHz (PMAE4002)	\$0.00						
QA08186	UHF 9cm Stubby Antenna, 430-470 MHz (PMAE4003)	\$0.00						
QA08187	UHF 9cm Stubby Antenna, 465-495 MHz (PMAE4006)	\$0.00						
H112	Omit Antenna	-\$3.50						

Charger Options

Options	Description	MSRP						
STDCHG0278	Standard Charger (PMPN4172)	\$0.00						
H951	Omit Standard Charger	-\$10.00						

Shipping Options

Options	Description	MSRP						
STDBOX0278	Standard Model Box	\$0.00						
H415	Bulk Packaging	\$0.00						

Warranty Options

Options	Description	MSRP
STDESS0278	3 Year Essential Repair	\$0.00
QA00510	Omit 1 Year Essential Repair	-\$18.33
H886	Add: 5 Year Essential Repair	\$65.00

General Options

Options	Description	MSRP
QA08163	Remote Speaker Microphone with Ear Jack, Coiled Cord and Swivel Clothing Clip (PMMN4013)	\$73.50
QA08165	D-Style Earpiece with In-Line Mic and PTT (PMLN6535)	\$26.10
QA08166	2-Wire Beige Surveillance Earpiece with Clear Acoustic (PMLN6445)	\$40.05

Quantity Discount Program

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Essential Repair

MOTOTRBO portable and mobile radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-Year Essential Repair option. If you desire additional years of Essential Repair, you may choose the 5-Year Essential Repair option instead. Essential Repair coverage starts on the day of shipment and continues for the term selected at the time of the device purchase. In addition to extending the device hardware repair coverage period, Essential Services also offers priority repair, with the same terms as the corresponding Service from the Start level: priority repair includes fast depot turnaround times and pre-paid, two-day air inbound shipping with use of Motorola Online (MOI) to initiate the repair. Terms are set at the length

FCC/IC Information:

(136-174 MHz) - AZ489FT3847 / 109U-89FT3847
(403-480 MHz) - AZ489FT4953 / 109U-89FT4953

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)
Sealing: IP54

CP200d™ Portable

Standard Package Includes:

- Standard Battery (Lithium 2250 mAh 7.5V - NNTN4407-D)
- Standard Charger (CEC Compliant (90 Minute Rapid Rate - DMDN4173A)
- Standard Antenna (VHF Half-Wave MAD6502-D / UHF Whip DMAE4016)
- 2" Belt Clip (HIN82EE)
- 2 Year Warranty ± 1 Year Essential Repair

Product Features:

- 6.25s / 12.5 kHz only Channel Spacing
- 2 Programmable Side Buttons
- LED Battery Indicator

Analog Features:

- Commanding V-Band™ Technology
- Time-Out Timer
- Busy Channel Lockout
- Internal VOX
- Single Priority Scan
- Adjustable Power Levels
- MDC1200 DTT ID (Decode)
- Quik Call II Call Alert (Decode)
- Quik Call II Selective Call (Decode)

Digital Features:

- Optional for Analog models
- Standard for Digital models
- Radio Driven
- Radio Check (Decode)
- Remote Monitor (Decode)
- Radio Inhibit (Decode)
- Dual Priority Scan
- Transmit Interrupt (Decode)

Programmable Features:

- High / Low Power
- Channel Scan
- LED Battery Indicator
- Squelch Levels
- Beaconer / Talkaround
- Volume Set
- Tight / Normal Squelch
- VOX On / Off
- Nuicance Channel Delete
- Voice Announcement Scan (Digital Mode)



Analog Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AAH01JDC9JC2AN	136-174 MHz	VHF	5W	16	No	No	\$485.00						
AAH01QDC9JC2AN	403-470 MHz	UHF	4W	16	No	No	\$518.33						

Digital Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AAH01JDC9JA2AN	136-174 MHz	VHF	5W	16	No	No	\$568.33						
AAH01QDC9JA2AN	403-470 MHz	UHF	4W	16	No	No	\$601.67						

CP200d™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options

Options	Description	MSRP						
STDBAT0752	Standard Battery - Li-Ion, 2250 mAh Battery (NNTN4497_R)	\$0.00						
QA03815	Slim Li-Ion, 1600 mAh Battery (NNTN4970)	\$0.00						
QA03816	NiMH, 1400 mAh Battery (NNTN4851)	\$0.00						

Antenna Options

Options	Description	MSRP						
STDANT0752	Standard Whip Antenna (UHF-PMAE4016, VHF-NAD6502_R)	\$0.00						
QA00194	VHF Stubby Antenna, 146-162 MHz (HAD9742)	\$0.00						
QA00189	VHF Stubby Antenna, 162-174 MHz (HAD9743)	\$0.00						
QA03800	UHF Stubby Antenna, 403-433 MHz (PMAE4002)	\$0.00						
QA00190	UHF Stubby Antenna, 430-480 MHz (PMAE4003)	\$0.00						
H112	Omit Antenna	-\$3.50						

Charger Options

Options	Description	MSRP						
STDCHG0752	Standard Charger CEC Compliant - 90 Minute Rapid Rate w/ Switch Mode	\$0.00						
H951	Omit Standard Charger	-\$15.00						

Shipping Options

Options	Description	MSRP						
STDBOX0752	Standard Model Box	\$0.00						
H415	Bulk Packaging	\$0.00						

Warranty Options

Options	Description	MSRP
STDESS0752	3 Year Essential Repair	\$0.00
QA00510	Omit 1 Year Essential Repair	-\$18.33
H886	Add: 5 Year Essential Repair	\$65.00

General Options

Options	Description	MSRP
QA00531	Remote Speaker Microphone with Ear Jack, Coiled Cord and Swivel Clothing Clip (PMMN4013)	\$73.50
QA00532	Remote Speaker Microphone with IP57 Rating, Coiled Cord and Swivel Clothing Clip (PMMN4029)	\$75.00
QA04002	Lightweight Headset with Swivel Boom Microphone (PMLN6538)	\$60.00
HKVN4223	Analog to Digital Upgrade	\$83.00

Quantity Discount Program

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Essential Repair

MOTOTRBO portable and mobile radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-Year Essential Repair option. If you desire additional years of Essential Repair, you may choose the 5-Year Essential Repair option instead. Essential Repair coverage starts on the day of shipment and continues for the term selected at the time of the device purchase. In addition to extending the device hardware repair coverage period, Essential Services also offers priority repair, with the same terms as the corresponding Service from the Start level; priority repair includes fast depot turnaround times and pre-paid, two-day air inbound shipping with use of Motorola Online (MOI) to initiate the repair. Terms are set at the length

FCC/IC Information:

PMUD3231A (136-174 MHz) - ABZ99FT3092 / 109AB-99FT3092
PMUE4147A (403-470 MHz) - ABZ99FT4094 / 109AB-99FT4094
PMUD3231B (136-174 MHz) - AZ489FT3845 / 109U-89FT3845
PMUE4147B (403-470 MHz) - AZ489FT4948 / 109U-89FT4948

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)
Sealing: IP54

SL300™ Portable

Standard Package Includes:

- Standard Battery (Lithium 2200 mAh - DMN1468)
- Standard Micro-USB Wall Charger (25009298001)
- VHF Stubby / UHF Stubby Antenna (Must Select Option)
- Standard Carry Holster (DMN7100)
- Battery Door Cover (DMN7074)
- 2 Year Warranty ± 1 Year Essential Repair

Product Features:

- Digital (2W) and Analog (2W) Mode
- 7 Zones (Dianlav Model)
- Dual Capacity Direct Mode
- 6 TEs / 12.5 kHz Channel Spacing
- 1 Programmable Side Button. Dianlav Model Includes Menu List
- Basic Privacy
- Recv Channel Lockout
- Emergency
- LED Battery Indicator
- Lone Worker
- MDC1200
- Quick Call II
- Radio Check (Decode)
- Radio Inhibit (Decode)
- Remote Monitor (Decode)
- Scan - Priority / Dual Priority
- Time-Out-Timer
- Voice Announcement
- 11cs MOTOTRBO CPS
- Radio Management Capable

Programmable Features:

- All Alert Tones On/Off
- Brightness (Dianlav Model)
- Emergency On/Off
- High / Low Power
- Monitor
- Nuicance Channel Delete
- One Touch Button
- Permanent Monitor
- Privacy On/Off
- Repeater / Talkaround
- Scan On/Off
- Scrambling On/Off
- Site Lock On/Off
- Tight / Normal Squelch
- Voice Announcement On/Off
- Volume Set
- VOX On / Off
- Zone Toggle (Dianlav Model)



Digital Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AAH88JCC9JA2AN	136-174 MHz	VHF	3W (D)	2	No	No	\$ 356.33						
AAH88JCP9JA2AN	136-174 MHz	VHF	3W (D)	99	Yes	No	\$ 396.33						
AAH88QCC9JA2AN	403-470 MHz	UHF	3W (D)	2	No	No	\$ 382.07						
AAH88QCP9JA2AN	403-470 MHz	UHF	3W (D)	99	Yes	No	\$ 432.07						

SL300™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options

Options	Description	MSRP						
STDBAT0546	Standard Battery - Li-Ion, 2200 mAh (PMNN4468)	\$0.00						

Antenna Options

Options	Description	MSRP						
QA04760	VHF Stubby Antenna, 136-144MHz 5cm (PMAD4144)	\$0.00						
QA04761	VHF Stubby Antenna, 144-156MHz 5cm (PMAD4145)	\$0.00						
QA04762	VHF Stubby Antenna, 156-174MHz 5cm (PMAD4146)	\$0.00						
QA04763	UHF Stubby Antenna, 403-425MHz 4.5cm (PMAE4093)	\$0.00						
QA04764	UHF Stubby Antenna, 420-445MHz 4.5cm (PMAE4094)	\$0.00						
QA04765	UHF Stubby Antenna, 435-470MHz 4.5cm (PMAE4095)	\$0.00						
H112	Omit Antenna	-\$3.50						

Carry Options

Options	Description	MSRP						
STDBLT0546	Standard Swivel Carry Holster (PMLN7190)	\$0.00						
QA04882	ALT: Flexible Hand Strap (PMLN7076)	\$7.50						
QA04883	ALT: Nylon Wrist Strap (PMLN6074)	\$5.00						
H301	Omit Swivel Carry Holster	-\$3.50						

Charger Options

Options	Description	MSRP						
STDCHG0546	Standard Charger - Micro-USB Wall Charger (25009298001)	\$0.00						
QA04770	ALT: Drop-In Single Unit Charger (PMLN7109)	\$25.00						
H951	Omit Standard Charger	-\$5.00						

Shipping Options

Options	Description	MSRP						
STDBOX0546	Standard Model Box	\$0.00						
H415	Bulk Packaging	\$0.00						

Warranty Options

Options	Description	MSRP
STDESS0546	3 Year Essential Repair	\$0.00
QA00510	Omit 1 Year Essential Repair	-\$18.33
H886	Add: 5 Year Essential Repair	\$65.00

General Options

Options	Description	MSRP
QA04755	Swivel Earpiece with Mic/PTT (PMLN7189)	\$ 29.00

QA04757

Earbud with Mic/PTT, Mag One (PMLN7156)

\$ 20.00

Quantity Discount Program

You may "mix and match" any combination of SL300/CP185/CP200d portable models and/or CM200d/CM300d mobile models ("Radio Units") on a single order and receive the appropriate quantity discount for each model. Quantity discounts are calculated and granted at the time a new order is placed ("Qualifying Order"). Additional Radio Units added to the Qualifying Order will be charged at the single Radio Unit price without discount. Deleting or cancelling Radio Units from a Qualifying Order will be viewed as a new Qualifying Order and reseller will receive the discount offered (if any) for the number of Radio Units actually shipped. All Radio Units must be shipped at the same time in order to qualify for the corresponding product models quantity discount. Change order requests or Radio Units returns that extend, stagger or otherwise change the number of Radio Units actually purchased in a single shipment, will result in a charge to the reseller's account for the difference in price between the number of units purchased and the quantity discount reseller qualified under a Qualifying Order.

Essential Repair

MOTOTRBO portable and mobile radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-Year Essential Repair option. If you desire additional years of Essential Repair, you may choose the 5-Year Essential Repair option instead. Essential Repair coverage starts on the day of shipment and continues for the term selected at the time of the device purchase. In addition to extending the device hardware repair coverage period, Essential Services also offers priority repair, with the same terms as the corresponding Service from the Start level; priority repair includes fast depot turnaround times and pre-paid, two-day air inbound shipping with use of Motorola Online (MOI) to initiate the repair. Terms are set at the length of either three years

FCC/IC Information:

(136-174 MHz) AZ489FT3835 / 109U-89FT3835
(403-470 MHz) AZ489FT4922 / 109U-89FT4922

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)
Sealing: IP54

US VERSION**VX-261™ Portable**

Please note Radio Models have been updated. Pricing remains the same.

Standard Package Includes:

- Standard Battery (Li-ion,1380 mAh - FNB-V133LI)
- Standard VAC-UNI Rapid Charger (CD-58 & PA-55)
- Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)
- Clip 20 Belt Clip
- Standard 3 Year Warranty

Product Features:

- 16 Channels
- 2 Programmable Side Buttons
- LED Battery Indicator
- 700mW Internal Speaker
- Emergency Alert
- Lone Worker Alert
- Multi-Mode Scanning
- ARTS TM (Auto-Range Transpond System)

Analog Features:

- MDC1200 ANI Encode
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- Fleetsync® ANI Encode
- Busy Channel Lockout, Busy Tone Lock Out
- Radio to radio cloning

**Old Models**

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AC128N501-MOT-NA	136-174 MHz	VHF	5W	16	No	No	\$238.70						
AC128U502-MOT-NA	403-470 MHz	UHF	5W	16	No	No	\$238.70						
AC128U501-MOT-NA	450-512 MHz	UHF	5W	16	No	No	\$238.70						

New Models - Available upon depletion of Old Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AC151N511-MOT-NA	136-174 MHz	VHF	5W	16	No	No	\$238.70						
AC151U512-MOT-NA	403-470 MHz	UHF	5W	16	No	No	\$238.70						
AC151U511-MOT-NA	450-512 MHz	UHF	5W	16	No	No	\$238.70						

VX-261™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options - Both Batteries Use Standard VAC-UNI Charger

Options	Description	MSRP							
STDBAT0819	Standard Battery - 1380 mAh Li-ion FNB-V133LI-UNI (AAJ67X501)	\$0.00							
QA07042	2300mAh Li-Ion Battery FNB-V134LI-UNI (AAJ68X501)	\$21.22							

Antenna Options

Options	Description	MSRP							
STDANT0819	Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)	\$0.00							
QA07038	VHF Antenna, ATV-8A 134-150 MHz (AAE24X501)	\$0.00							
QA07036	VHF Antenna, ATV-8B 150-163 MHz (AAE24X502)	\$0.00							
QA07041	VHF Antenna, ATV-6B 150-163 MHz (AAE19X502) 3.5"	\$0.00							
QA07040	VHF Antenna, ATV-6C 161-174 MHz (AAE19X503) 3.5"	\$0.00							
QA07039	VHF Antenna, ATV-6XL Untuned (AAG42X501)	\$0.00							
QA07049	UHF Antenna, ATU-6DS 450-485 MHz (AAE20X503) 3.5"	\$0.00							
QA07050	UHF Antenna, ATU-6A 400-430 MHz (AAE23X501)	\$0.00							
QA07037	Omit Antenna	-\$14.85							

Charger Options

Options	Description	MSRP							
STDCHG0819	Standard Charger VAC-UNI 120V (XUAAJ72X511)	\$0.00							
QA07043	VAC-UNI 240V, CD-58 (XUAAJ72X512)	\$0.00							
QA07035	Omit Standard Charger	-\$38.19							

Warranty Option

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

THE FOLLOWING ARE OPTIONAL SELECTIONS:

Shipping Options

Options	Description	MSRP							
QA07048	Bulk Packaging	\$0.00							

Microphone Options

Options	Description	MSRP
QA07044	MH-360S Compact Speaker Microphone (AAF52X501)	\$22.28
QA07045	MH-450S Medium Duty Speaker Microphone w/ Lapel Clip (AAF53X501)	\$28.29
QA07046	MH-45B4B Noise Cancelling Speaker Microphone (A13960507)	\$86.99
QA07047	MH-66A4B IP57 Submersible Speaker Microphone (AAE46X507)	\$97.60

Quantity Discount Program

You may “mix and match” any combination of EVX-S24 / EVX-261 / VX-261 / VX-264 / VX-451 / VX-454 / VX-459 portable models (“Radio Units”) on a single order and receive the appropriate

Warranty

The VX-261 ships standard with a 3-year warranty

FCC/IC Information:

(136-174 MHz) AXI11283020 / 109U-89FT3838

(403-470 MHz) AXI11284620 / 109U-89FT4933

(450-512 MHz) AXI11284720 / 109U-89FT4941

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

Sealing: IP55

US VERSION

VX-264™ Portable

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

https://docs.google.com/spreadsheets/d/1W1kA93IUt_TWk3GPogeTzIzrN9mUG2czA-7QxMbilBo/edit#gid=1933132783

Standard Package Includes:

- Standard Battery (Li-ion,1380 mAh - FNB-V133LI)
- Standard VAC-UNI Rapid Charger (CD-58 & PA-55)
- Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)
- Clip 20 Belt Clip
- Standard 3 Year Warranty

Product Features:

- 128 Channels
- 6 Programmable Buttons
- 8 Character Alphanumeric Display
- 700mW Internal Speaker
- Emergency Alert
- Lone Worker Alert
- Multi-Mode Scanning
- ARTS TM (Auto-Range Transpond System)

Analog Features:

- MDC1200 Encode: ANI, Call Alert, Sel Call, Emergency
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- Fleetsync® ANI Encode
- BCLO, BTLO and TOT Functions
- Voice Inversion Encryption
- Radio to radio cloning



Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AC127N501-MOT-NA	136-174 MHz	VHF	5W	128	Yes	Limited	\$307.66						
AC127U502-MOT-NA*	403-470 MHz	UHF	5W	128	Yes	Limited	\$307.66						
AC127U501-MOT-NA*	450-512 MHz	UHF	5W	128	Yes	Limited	\$307.66						

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

* Model not longer available

VX-264™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options - Both Batteries Use Standard VAC-UNI Charger

Options	Description	MSRP						
STDBAT0192	Standard Battery - 1380 mAh Li-ion FNB-V133LI-UNI (AAJ67X501)	\$0.00						
QA07170	2300mAh Li-Ion Battery FNB-V134LI-UNI (AAJ68X501)	\$21.22						

Antenna Options

Options	Description	MSRP						
STDANT0192	Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)	\$0.00						
QA07166	VHF Antenna, ATV-8A 134-150 MHz (AAE24X501)	\$0.00						
QA07164	VHF Antenna, ATV-8B 150-163 MHz (AAE24X502)	\$0.00						
QA07169	VHF Antenna, ATV-6B 150-162 MHz (AAE19X502) 3.5"	\$0.00						
QA07168	VHF Antenna, ATV-6C 162-174 MHz (AAE19X503) 3.5"	\$0.00						
QA07167	VHF Antenna, ATV-6XL Untuned (AAG42X501)	\$0.00						
QA07180	UHF Antenna, ATU-6DS 450-485 MHz (AAE20X503) 3.5"	\$0.00						
QA07179	UHF Antenna, ATU-6A 400-430 MHz (AAE23X501)	\$0.00						
QA07165	Omit Antenna	-\$14.85						

Charger Options

Options	Description	MSRP						
STDCHG0192	Standard Charger VAC-UNI 120V (XUAAJ72X511)	\$0.00						
QA07172	VAC-UNI 240V, CD-58 (XUAAJ72X512)	\$0.00						
QA07173	Omit Standard Charger	-\$38.19						

Warranty Option

Options	Description	MSRP						
QA07464	Standard 3 Year Warranty	\$0.00						

THE FOLLOWING ARE OPTIONAL SELECTIONS:**Shipping Options**

Options	Description	MSRP						
QA07178	Bulk Packaging	\$0.00						

Microphone Options

Options	Description	MSRP
QA07174	MH-360S Compact Speaker Microphone (AAF52X501)	\$22.28
QA07175	MH-450S Medium Duty Speaker Microphone w/ Lapel Clip (AAF53X501)	\$28.29
QA07176	MH-45B4B Noise Cancelling Speaker Microphone (A13960507)	\$86.99
QA07177	MH-66A4B IP57 Submersible Speaker Microphone (AAE46X507)	\$97.60

Quantity Discount Program

You may "mix and match" any combination of EVX-S24 / EVX-261 / VX-261 / VX-264 / VX-451 / VX-454 / VX-459 portable models ("Radio Units") on a single order and receive the appropriate quantity

Warranty

The VX-264 ships standard with a 3-year warranty

FCC/IC Information:

(136-174 MHz) AXI11273020 / 109U-89FT3842

(403-470 MHz) AXI11274620 / 109U-89FT4939

(450-512 MHz) AXI11274720 / 109U-89FT4940

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

Sealing: IP55

US VERSION

VX-451/454/459™ Portables

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

https://docs.google.com/spreadsheets/d/1W1kA93lUt_TWk3GpQeTzZrN9mUG2czA-7QxMblBo/edit#gid=1933132783

Standard Package Includes:

- Standard Battery (Li-ion,1380 mAh - FNB-V133LI)
- Standard VAC-UNI Rapid Charger (CD-58 & PA-55)
- Standard Antenna (UHF: ATU-16D, VHF: ATV-16C)
- Clip 20 Belt Clip
- Standard 3 Year Warranty

Product Features:

- 32 channels (VX-451), 512 channels (VX-454/459)
- Programmable Buttons: 3 (VX-451), 7 (VX-454), 9 (VX-459)
- 700mW Internal Speaker
- Emergency Alert
- Lone Worker Alert
- Multi-Mode Scanning
- Internal VOX
- ARTS TM (Auto-Range Transpond System)

Analog Features:

- Embedded MDC1200 Encode/Decode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- Stun/Kill/Revive (5-Tone)
- CTCSS/DCS Encode and Decode
- Fleetsync® ANI
- Channel Announcement
- Voice Inversion Scrambling
- Optional Voice Storage (requires AAH88X001)
- Radio to radio cloning



Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AC095N521-MOT-NA	136-174 MHz	VHF	5W	32	No	No	\$339.49						
AC095U522-MOT-NA	403-470 MHz	UHF	5W	32	No	No	\$339.49						
AC095U521-MOT-NA*	450-512 MHz	UHF	5W	32	No	No	\$339.49						
AC094N522-MOT-NA	136-174 MHz	VHF	5W	512	Yes	Limited	\$403.14						
AC094U524-MOT-NA*	403-470 MHz	UHF	5W	512	Yes	Limited	\$403.14						
AC094U522-MOT-NA*	450-512 MHz	UHF	5W	512	Yes	Limited	\$403.14						
AC094N521-MOT-NA*	136-174 MHz	VHF	5W	512	Yes	Yes	\$466.80						
AC094U523-MOT-NA	403-470 MHz	UHF	5W	512	Yes	Yes	\$466.80						
AC094U521-MOT-NA	450-512 MHz	UHF	5W	512	Yes	Yes	\$466.80						

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

* Model not longer available

VX-451/454/459™ Portables

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTIO

Battery Options - Both Batteries Standard Use VAC-UNI Charger

Options	Description	MSRP							
STDBAT0637	Standard Battery - 1380 mAh Li-ion FNB-V133LI-UNI (AAJ67X501)	\$0.00							
QA007154AA	2300mAh Li-Ion Battery FNB-V134LI-UNI (AAJ68X501)	\$31.83							

QA007156	2300mAh Li-Ion Battery, Intrinsically Safe, FNB-V134LIIS-UNI (AAK66X501)	\$90.18							
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* The VX-451, VX-454 and VX-459 portable radios MUST be ordered and shipped from Motorola with battery option QA007156 for the radios to be properly processed, certified and labeled as UL

Antenna Options

Options	Description	MSRP							
STDANT0637	Standard Antenna (UHF: ATU-16D, VHF: ATV-16C)	\$0.00							
QA007150	VHF Antenna, ATV-16A 136-150 MHz (AAH73X502)	\$0.00							
QA007151	VHF Antenna, ATV-16B 150-162 MHz (AAH73X503)	\$0.00							
QA007153	VHF Antenna, ATV-16XL Untuned (AAH73X501)	\$0.00							
QA007166	UHF Antenna, ATU-16DS 450-490 MHz (AAJ10X502)	\$0.00							
QA007167	UHF Antenna, ATU-16B 400-420 MHz (AAH72X501)	\$0.00							
QA007168	UHF Antenna, ATU-16C 420-450 MHz (AAH72X502)	\$0.00							
QA007169	UHF Antenna, ATU-16BS 400-430 MHz (AAJ10X501)	\$0.00							
QA007165	UHF Antenna, ATU-16F 470-512 MHz (AAH72X504)	\$0.00							
QA007152	Omit Antenna	-\$14.85							

Charger Options

Options	Description	MSRP							
STDCHG0637	Standard Charger VAC-UNI 120V (XUAAJ72X511)	\$0.00							
QA007157	VAC-UNI 240V, CD-58 (XUAAJ72X512)	\$0.00							
QA007158	Omit Standard Charger	-\$38.19							

Warranty Option

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

THE FOLLOWING ARE OPTIONAL SELECTIONS:

Shipping Options

Options	Description	MSRP							
QA007163	Bulk Packaging	\$0.00							

LTR Option

Options	Description	MSRP							
QA007164	LTR Trunking	\$69.01							

Microphone Options

Options	Description	MSRP							
QA007159	MH-360S Compact Speaker Microphone (AAF52X501)	\$22.28							
QA007160	MH-450S Medium Duty Speaker Microphone w/ Lapel Clip (AAF53X501)	\$28.29							
QA007161	MH-45B4B Noise Cancelling Speaker Microphone (A13960507)	\$86.99							
QA007162	MH-66A4B IP57 Submersible Speaker Microphone (AAE46X507)	\$97.60							

Quantity Discount Program

You may "mix and match" any combination of EVX-524 / EVX-261 / VX-261 / VX-264 / VX-451 / VX-454 / VX-459 portable models ("Radio Units") on a single order and receive the appropriate quantity

Warranty

The VX-450 ships standard with a 3-year warranty

FCC/IC Information:

(136-174 MHz) K6610943020 / 109U-89FT3843
 (403-470 MHz) K6610944620 / 109U-89FT4942
 (450-512 MHz) K6610944720 / 109U-89FT4943

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)
 Sealing: IP57

EVX-261™ Portable

Standard Package Includes:

- Standard Battery (Li-ion, 1380 mAh - FNB-V133LI)
- Standard VAC-UNI Rapid Charger (CD-58 & PA-55)
- Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)
- Clip 20 Belt Clip
- Standard 3 Year Warranty

Product Features:

- 16 Channels
- 12.5 kHz only Channel Spacing (Digital mode)
- 2 Programmable Side Buttons
- LED Battery Indicator
- 700mW Internal Speaker
- Emergency Alert
- Lone Worker Alert
- Multi-Mode Scanning
- Internal VOX
- ARTS™ (Auto-Range Transpond System)

Analog Features:

- MDC1200 ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- Remote Stun/Kill/Revive (5-Tone)
- CTCSS/DCS Encode and Decode
- Fleetsync® ANI

Digital Features:

- All Call/Group Call /Individual Call
- Transmit Interrupt (Decode Only)
- Dual Capacity Direct Mode
- Basic Privacy



Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP						
AC137N501-MOT-NA	136-174 MHz	VHF	5W	16	No	No	\$334.18						
AC137U502-MOT-NA	403-470 MHz	UHF	5W	16	No	No	\$334.18						

AC137U501-MOT-NA	450-512 MHz	UHF	5W	16	No	No	\$334.18							
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EVX-261™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options - Both Batteries Use Standard VAC-UNI Charger

Options	Description	MSRP							
STDBAT0420	Standard Battery - 1380 mAh Li-ion FNB-V133LI-UNI (AAJ67X501)	\$0.00							
QA07208	2300mAh Li-Ion Battery FNB-V134LI-UNI (AAJ68X501)	\$21.22							

Antenna Options

Options	Description	MSRP							
STDANT0420	Standard Antenna (UHF: ATU-6D, VHF: ATV-8C)	\$0.00							
QA07204	VHF Antenna, ATV-8A 134-150 MHz (AAE24X501)	\$0.00							
QA07205	VHF Antenna, ATV-8B 150-163 MHz (AAE24X502)	\$0.00							
QA07206	VHF Antenna, ATV-6XL Untuned (AAG42X501)	\$0.00							
QA07216	UHF Antenna, ATU-6C 440-470 MHz (AAE23X502)	\$0.00							
QA07217	UHF Antenna, ATU-6DS 450-485 MHz (AAE20X503) 3.5"	\$0.00							
QA07218	UHF Antenna, ATU-6F 490-520 MHz (AAE23X504)	\$0.00							
QA07219	UHF Antenna, ATU-6A 400-430 MHz (AAE23X501)	\$0.00							
QA07220	UHF Antenna, ATU-6B 420-450 MHz (AAE23X506)	\$0.00							
QA07207	Omit Antenna	-\$14.85							

Charger Options

Options	Description	MSRP							
STDCHG0420	Standard Charger VAC-UNI 120V (XUAAJ72X511)	\$0.00							
QA07210	VAC-UNI 240V Charger, CD-58 (XUAAJ72X512)	\$0.00							
QA07211	Omit Standard Charger	-\$38.19							

Charger Options

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

Warranty Option

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

THE FOLLOWING ARE OPTIONAL SELECTIONS:

Shipping Options

Options	Description	MSRP							
QA07215	Bulk Packaging	\$0.00							

Microphone Options

Options	Description	MSRP
QA07212	MH-360S Compact Speaker Microphone (AAF52X501)	\$22.28
QA07213	MH-450S Medium Duty Speaker Microphone w/ Lapel Clip (AAF53X501)	\$28.29
QA07214	MH-66A4B IP57 Submersible Speaker Microphone (AAE46X507)	\$97.60

Quantity Discount Program

You may “mix and match” any combination of EVX-S24 / EVX-261 / VX-261 / VX-264 / VX-451 / VX-454 / VX-459 portable models (“Radio Units”) on a single order and receive the

Warranty

The EVX-261 ships standard with a 3-year warranty

FCC/IC Information:

(136-174 MHz) AXI11373020 / 109U-89FT3839

(403-470 MHz) AXI11374620 / 109U-89FT4944

(450-512 MHz) AXI11374720 / 109U-89FT4934

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

Sealing: IP55

US VERSION

EVX-S24™ Portable

Standard Package Includes:

- Standard Battery (Li-ion, 2300 mAh - BT100)
- Standard Antenna (ATU-20DS)
- Standard Micro USB AC Charger (PA-57B)
- Clip 27 Belt Clip
- Standard 3 Year Warranty

Product Features:

- 256 Channels
- 4 Programmable Buttons
- 500mW Internal Speaker
- Emergency Alert
- Lone Worker Alert
- Multi-Mode Scanning
- Internal VOX
- ARTS™ (Auto-Range Transpond System)

Signaling Features:

- CTCSS/DCS Encode / Decode
- 2-Tone / 5-Tone
- Stun/Kill/Revive (5-Tone & DTMF Pager)
- MDC1200 Features
- Fleetsync® ANI

Analog Features:

- BTLO
- Voice Inversion Encryption

Digital Features:

- All Call/Group Call /Individual Call
- Transmit Interrupt (Decode Only)
- Dual Capacity Direct Mode
- Basic & Enhanced Privacy
- Site Search
- Text Messaging



Models

Model #	Band Split	Band	Power	Conv Chan	Display	Keypad	MSRP
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AC146U502-MOT-NA (Black)	403-470 MHz	UHF	3W	256	Yes	Limited	\$309.93						
AC146U512-MOT-NA (Yellow)	403-470 MHz	UHF	3W	256	Yes	Limited	\$309.93						

EVX-S24™ Portable

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Battery Options - Both Batteries Use VAC-UNI Charger

Options	Description	MSRP						
STDBAT0007	Standard Battery - 2300 mAh Li-ion BT100 (PMNN4468)	\$0.00						

Antenna Options

Options	Description	MSRP						
STDANT0007	Standard Antenna, ATU-20DS, 440-470 MHz, Stubby (AAM23X502)	\$0.00						
QA07068	UHF Antenna, ATU-20AS 400-430 MHz, Stubby (AAM23X501)	\$0.00						
QA07069	UHF Antenna, ATU-20CS 420-450 MHz, Stubby (AAM23X504)	\$0.00						
QA07070	UHF Antenna, ATU-20FS 450-480 MHz, Stubby (AAM23X503)	\$0.00						
QA07072	UHF Antenna, ATU-21AS 400-420 MHz, Super Stubby (AAM28X501)	\$0.00						
QA07073	UHF Antenna, ATU-21CS 420-440 MHz, Super Stubby (AAM28X502)	\$0.00						
QA07074	UHF Antenna, ATU-21DS 440-460 MHz, Super Stubby (AAM28X503)	\$0.00						
QA07075	UHF Antenna, ATU-21FS 460-480 MHz, Super Stubby (AAM28X504)	\$0.00						
QA07071	Omit Antenna	-\$9.27						

Charger Options

Options	Description	MSRP						
STDCHG0007	Standard Charger, Micro USB AC Charger Only, 120V (PS000042A11)	\$0.00						
QA07079AA	Micro USB AC Charger Only, 220V (PS000042A12)	\$0.00						
QA07077	Micro USB AC Charger w/cradle, 120V (PS000042A11, AAM19X501)	\$10.82						
QA07078	Micro USB AC Charger w/cradle, 220V (PS000042A12, AAM19X501)	\$10.82						
QA07080	Omit Standard Charger	-\$21.00						

Warranty Option

Options	Description	MSRP						
QA07464	Standard 3 Year Warranty	\$0.00						

THE FOLLOWING ARE OPTIONAL SELECTIONS:

Shipping Options

Options	Description	MSRP						
QA07083	Bulk Packaging	\$0.00						

Microphone Options

Options	Description	MSRP
QA07081	MH-90A4B Compact Speaker Microphone (AAM24X501)	\$33.95

QA07082

MH-66F4B IP57 Submersible Speaker Microphone (AAE46X509)

\$97.60

Quantity Discount Program

You may “mix and match” any combination of EVX-S24 / EVX-261 / VX-261 / VX-264 / VX-451 / VX-454 / VX-459 portable models (“Radio Units”) on a single order and receive the

Warranty

The EVX-S24 ships standard with a 3-year warranty

FCC/IC Information:

(403-470 MHz) AXI11464620 / 109U-89FT4935

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

Sealing: IP67

US VERSION

VX-2100™ Mobile

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

https://docs.google.com/spreadsheets/d/1W1kA93lUt_TWk3GPoqeTzIzrN9mUG2czA-7QxMbILBo/edit#gid=1933132783

Standard Package Includes:

- Standard Microphone (MH-67A8J)
- Standard 3 Year Warranty

Product Features:

- 8 Channels
- 50W or 25W Power Output
- 6 Programmable Buttons
- CTCSS/DCS Encode / Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Multi-Mode Scanning
- Emergency
- ARTS™ (Auto-Range Transpond System)
- D SUB 15 Pin Accessory Connector



Models

Model #	Band Split	Band	Power	Conv Chan	Display	MSRP							
AC061N533-MOT-NA *	136-174 MHz	VHF	25W	8	N/A	\$350.10							
AC061N531-MOT-NA *	136-174 MHz	VHF	50W	8	N/A	\$366.01							
AC061U537-MOT-NA *	403-470 MHz	UHF	25W	8	N/A	\$371.32							
AC061U535-MOT-NA *	403-470 MHz	UHF	45W	8	N/A	\$403.14							
AC061U533-MOT-NA	450-512 MHz	UHF	25W	8	N/A	\$371.32							
AC061U531-MOT-NA	450-512 MHz	UHF	45W	8	N/A	\$403.14							

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

* Model not longer available

VX-2100™ Mobile

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Microphone Options

Options	Description	MSRP							
STDMIC0649	Standard Microphone MH-67A8J (AAE60X502)	\$0.00							
QA07200AA	DTMF Microphone MH-75A8J (AAG22X501)	\$15.91							
QA07201	Omit Microphone	-\$42.44							

Warranty Option

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

Quantity Discount Program

You may “mix and match” any combination of VX-2100/VX-2200 mobile models (“Radio Units”) on a single order and receive the appropriate quantity discount for each model. Quantity discounts are

Warranty

The VX-2100 ships standard with a 3-year warranty

FCC/IC Information:

(136-174 MHz 25W) K6610613040 / 109U-92FT3840
(136-174 MHz 50W) K6610613040 / 109U-92FT3841
(403-470 MHz 25W) K6610614640 / 109U-92FT4946
(403-470 MHz 45W) K6610614640 / 109U-92FT4936
(450-512 MHz 25W) K6610614730 / 109U-92FT4937
(450-512 MHz 45W) K6610614730 / 109U-92FT4937

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

US VERSION**VX-2200™ Mobile**

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

https://docs.google.com/spreadsheets/d/1W1kA93IUt_TWk3GQqgTzIzrN9mUG2czA-7QxMbILBo/edit#gid=1933132783**Standard Package Includes:**

- Standard Microphone (MH-67A8J)
- Standard 3 Year Warranty

Product Features:

- 128 Channels
- 50W or 25W Power Output
- 6 Programmable Buttons
- CTCSS/DCS Encode / Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Multi-Mode Scanning
- Emergency
- ARTS TM (Auto-Range Transpond System)
- D SUB 15 Pin Accessory Connector
- MDC1200/GE-Star ANI Encode (Option Board)

**Models**

Model #	Band Split	Band	Power	Conv Chan	Display	MSRP							
AC061N534-MOT-NA *	136-174 MHz	VHF	25W	128	N/A	\$392.53							
AC061N532-MOT-NA *	136-174 MHz	VHF	50W	128	N/A	\$419.06							
AC061U538-MOT-NA	403-470 MHz	UHF	25W	128	N/A	\$413.75							
AC061U536-MOT-NA	403-470 MHz	UHF	45W	128	N/A	\$445.58							
AC061U534-MOT-NA	450-512 MHz	UHF	25W	128	N/A	\$413.75							
AC061U532-MOT-NA	450-512 MHz	UHF	45W	128	N/A	\$445.58							

Product being cancelled. Intent to Cancel Notification issued and inventory available while supplies last.

* Model not longer available

VX-2200™ Mobile

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Microphone Options

Options	Description	MSRP							
STDMIC0649	Standard Microphone MH-67A8J (AAE60X502)	\$0.00							
QA07200AA	DTMF Microphone MH-75A8J (AAG22X501)	\$15.91							
QA07201	Omit Microphone	-\$42.44							

Warranty Option

Options	Description	MSRP							
QA07464	Standard 3 Year Warranty	\$0.00							

Quantity Discount Program

You may “mix and match” any combination of VX-2100/VX-2200 mobile models (“Radio Units”) on a single order and receive the appropriate quantity discount for each model. Quantity

Warranty

The VX-2200 ships standard with a 3-year warranty

FCC/IC Information:

- (136-174 MHz 25W) K6610613040 / 109U-92FT3840
- (136-174 MHz 50W) K6610613040 / 109U-92FT3841
- (403-470 MHz 25W) K6610614640 / 109U-92FT4946
- (403-470 MHz 45W) K6610614640 / 109U-92FT4936
- (450-512 MHz 25W) K6610614730 / 109U-92FT4937
- (450-512 MHz 25W) K6610614740 / 109U-92FT4938

Environmental Specifications:

Operating Temperature: -30° to +60° C (Radio Only)

US VERSION

CM200d™ Mobile

Standard Package Includes:

- Standard Microphone (PMMN1090)
- Standard Low Profile Mounting Bracket (RIN6169)
- Standard Power Cable (HKM1127)
- 2 Year Warranty + 1 Year Recental Repair

Product Features:

- 6.25e / 12.5 kHz Channel Spacing
- 16 Channels
- 2 Programmable Buttons
- LED Indicators
- Radio Management (Optional)

Analog Features:

- Auto/Priority/Dual Priority Scan
- Quick Call II™ Call Alert/Selective Call (Decode)
- MDC1200 PTT ID (Numeric ID - Encode)
- Audio Indicator Tones
- Time-Out Timer
- VOX
- Busy Channel Lockout

Digital Features:

- Digital Conventional
- Optional for Analog models
- Standard for Digital models
- Basic Privacy
- Radio Check (Decode)
- Remote Monitor (Decode)
- Radio Inhibit (Decode)
- Dual Priority Scan
- Transmit Interrupt (Decode)
- Dual Capacity Direct Mode



F
 153.600 MHz +/- 1.0 kHz
 172.800 MHz +/- 1.0 kHz
 472.400 MHz +/- 1.0 kHz

Programmable Features:

- Escalart
- Local/Distance Mode
- Repeater / Talkaround
- Silent Monitor
- Volume Set
- Voice Announcement
- High / Low Power
- Nuicance Channel Delete
- Scan On / Off
- Tight / Normal Squelch
- VOX On / Off

Analog Models

Model #	Band Split	Band	Power	Conv	Display	MSRP						
AAM01JNC9JC1AN	136-174 MHz	VHF	25W	16	N/A	\$501.67						
AAM01JQC9JC1AN	136-174 MHz	VHF	45W	16	N/A	\$560.00						
AAM01QNC9JC1AN	403-470 MHz	UHF	25W	16	N/A	\$551.67						
AAM01QPC9JC1AN	403-470 MHz	UHF	40W	16	N/A	\$610.00						

Digital Models

Model #	Band Split	Band	Power	Conv	Display	MSRP						
AAM01JNC9JA1AN	136-174 MHz	VHF	25W	16	N/A	\$585.00						
AAM01JQC9JA1AN	136-174 MHz	VHF	45W	16	N/A	\$643.33						

AAM01QNC9JA1AN	403-470 MHz	UHF	25W	16	N/A	\$635.00						
AAM01QPC9JA1AN	403-470 MHz	UHF	40W	16	N/A	\$693.33						

CM200d™ Mobile

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Microphone Options

Options	Description	MSRP						
STDMIC0751	Standard Compact Microphone (PMMN4090)	\$0.00						
QA03848	Enhanced Keypad Microphone (PMMN4089)	\$51.00						
QA03850	Heavy Duty Microphone (PMMN4091)	\$31.00						
B71	Omit Microphone	-\$10.00						

Bracket Options

Options	Description	MSRP						
STDBKT0751	Standard Mounting Bracket (RLN6469)	\$0.00						
B65	Omit Standard Mounting Bracket	-\$4.00						

Cable Options

Options	Description	MSRP						
STDCBL0751	Standard Power Cable (HKN4137)	\$0.00						
B161	Omit Standard Power Cable	-\$8.00						

Shipping Options

Options	Description	MSRP						
STDBOX0751	Standard Model Box	\$0.00						
B842	Bulk Packaging (minimum 2 radios per box)	\$0.00						

Warranty Options

Options	Description	MSRP
STDESS0751	3 Year Essential Repair	\$0.00
GA00164	Omit 1 Year Essential Repair	-\$18.33
G24	Add: 5 Year Essential Repair	\$65.00

General Options

Options	Description	MSRP
HKVN4223	CM200d Analog to Digital Upgrade	\$83.00

Quantity Discount Program

You may “mix and match” any combination of SL300/CP185/CP200d portable models and/or CM200d/CM300d mobile models (“Radio Units”) on a single order and receive the appropriate quantity discount for each model. Quantity discounts are calculated and granted at the time a new order is placed (“Qualifying Order”). Additional Radio Units added to the Qualifying Order will be charged at the single Radio Unit price without discount. Deleting or cancelling Radio Units from a Qualifying Order will be viewed as a new Qualifying Order and reseller will receive the discount offered (if any) for the number of Radio Units actually shipped. All Radio Units must be shipped at the same time in order to qualify for the corresponding product models quantity discount. Change order requests or Radio Units returns that extend, stagger or otherwise change the number of Radio Units actually purchased in a single shipment, will result in a charge to the reseller’s account for the difference in price between the number of units purchased and the quantity discount reseller qualified under a Qualifying Order.

Essential Repair

MOTOTRBO portable and mobile radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-Year Essential Repair option. If you desire additional years of Essential Repair, you may choose the 5-Year Essential Repair option instead. Essential Repair coverage starts on the day of shipment and continues for the term selected at the time of the device purchase. In addition to extending the device hardware repair coverage period, Essential Services also offers priority repair, with the same terms as the corresponding Service from the Start level; priority repair includes fast depot turnaround times and one-visit, two-device inbound shipping with use of Motorola Online (MOI) to initiate the repair. Terms are set at the length of either

FCC/IC Information:

VHF (1.25W): DR799FT3090 / 109AR-99FT3090
VHF (25.45W): DR799FT3091 / 109AR-99FT3091
UHF (1.25W): DR799FT4092 / 109AR-99FT4092
UHF (25.40W): DR799FT4093 / 109AR-99FT4093

Environmental Specifications

Operating Temperature: -30° to +60° C
Sealing: IP54*

* With microphone sealing boot and rear accessory connector cover properly installed

US VERSION

CM300d™ Mobile

Standard Package Includes:

- Standard Microphone (DMMN1090)
- Standard Low Profile Mounting Bracket (R1 N6469)
- Standard Power Cable (HKM1137)
- 2 Year Warranty ± 1 Year Essential Repair

Product Features:

- 6.25e / 12.5 kHz Channel Spacing
- Alpha-Numeric Display
- White-lit Backlight
- 99 Channels
- 4 Programmable Buttons
- LED Indicators
- Radio Management (Optional)

Analog Features:

- Auto/Priority/Dual Priority Scan
- Quick Call II™ Call Alert/Selective Call (Decode)
- MDC1200 DTT ID (Numeric ID - Encode)
- Audio Indicator Tones
- Time-Out Timer
- VOX
- Busy Channel Lockout

Digital Features:

- Digital Conventional
- Optional for Analog models
- Standard for Digital models
- Radio Privacy
- Radio Check (Decode)
- Remote Monitor (Decode)
- Radio Inhibit (Decode)
- Dual Priority Scan
- Transmit Interrupt (Decode)
- Dual Capacity Direct Mode

Frequencies Not Allowed:

- 153 600 MHz ±1.0 kHz
- 172 800 MHz ±1.0 kHz
- 472 400 MHz

Programmable Features:

- Escalart
- Local/Distance Mode
- Repeater / Talkaround
- Silent Monitor
- Volume Set
- Voice Announcement
- High / Low Power
- Nuicance Channel Delete
- Scan On / Off
- Tight / Normal Squelch
- VOX On / Off



Analog Models

Model #	Band Split	Band	Power	Conv	Display	MSRP						
AAM01JNH9JC1AN	136-174 MHz	VHF	25W	99	Yes	\$560.00						
AAM01JQH9JC1AN	136-174 MHz	VHF	45W	99	Yes	\$618.33						
AAM01QNH9JC1AN	403-470 MHz	UHF	25W	99	Yes	\$610.00						
AAM01QPH9JC1AN	403-470 MHz	UHF	40W	99	Yes	\$668.33						

Digital Models

Model #	Band Split	Band	Power	Conv	Display	MSRP						
AAM01JNH9JA1AN	136-174 MHz	VHF	25W	99	Yes	\$643.33						
AAM01JQH9JA1AN	136-174 MHz	VHF	45W	99	Yes	\$701.67						

AAM01QNH9JA1AN	403-470 MHz	UHF	25W	99	Yes	\$693.33						
AAM01QPH9JA1AN	403-470 MHz	UHF	40W	99	Yes	\$751.67						

CM300d™ Mobile

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH OPTION

Microphone Options

Options	Description	MSRP						
STDMIC0866	Standard Compact Microphone (PMMN4090)	\$0.00						
QA03848	Enhanced Keypad Microphone (PMMN4089)	\$51.00						
QA03850	Heavy Duty Microphone (PMMN4091)	\$31.00						
B71	Omit Microphone	-\$10.00						

Bracket Options

Options	Description	MSRP						
STDBKT0866	Standard Mounting Bracket (RLN6469)	\$0.00						
B65	Omit Standard Mounting Bracket	-\$4.00						

Cable Options

Options	Description	MSRP						
STDCBL0866	Standard Power Cable (HKN4137)	\$0.00						
B161	Omit Standard Power Cable	-\$8.00						

Shipping Options

Options	Description	MSRP						
STDBOX0866	Standard Model Box	\$0.00						
B842	Bulk Packaging (minimum 2 radios per box)	\$0.00						

Warranty Options

Options	Description	MSRP
STDESS0866	3 Year Essential Repair	\$0.00
GA00164	Omit 1 Year Essential Repair	-\$18.33
G24	Add: 5 Year Essential Repair	\$65.00

General Options

Options	Description	MSRP
HKVN4223	CM200d Analog to Digital Upgrade	\$83.00

Quantity Discount Program

You may “mix and match” any combination of SL300/CP185/CP200d portable models and/or CM200d/CM300d mobile models (“Radio Units”) on a single order and receive the appropriate quantity discount for each model. Quantity discounts are calculated and granted at the time a new order is placed (“Qualifying Order”). Additional Radio Units added to the Qualifying Order will be charged at the single Radio Unit price without discount. Deleting or cancelling Radio Units from a Qualifying Order will be viewed as a new Qualifying Order and reseller will receive the discount offered (if any) for the number of Radio Units actually shipped. All Radio Units must be shipped at the same time in order to qualify for the corresponding product models quantity discount. Change order requests or Radio Units returns that extend, stagger or otherwise change the number of Radio Units actually purchased in a single shipment, will result in a charge to the reseller’s account for the difference in price between the number of units purchased and the quantity discount reseller qualified under a Qualifying Order.

Essential Repair

MOTOTRBO portable and mobile radios ship with a standard 2-year parts and labor warranty. Additionally, they ship standard with a 1-Year Essential Repair option. If you desire additional years of Essential Repair, you may choose the 5-Year Essential Repair option instead. Essential Repair coverage starts on the day of shipment and continues for the term selected at the time of the device purchase. In addition to extending the device hardware repair coverage period, Essential Services also offers priority repair, with the same terms as the corresponding Service from the Start level; priority repair includes fast depot turnaround times and pre-paid, two-day air-inbound shipping with use of Motorola Online (MOI) to initiate the repair. Terms are set at the length of either three years or

FCC/IC Information:

VHF (1.25W): Δ7192ET3205 / 10911.02ET3205
VHF (25.15W): ΔR799ET3046 / 109ΔR.99ET3046
UHF (1.25W): Δ7192ET1256 / 10911.02ET1256
UHF (25.10W): ΔR799ET1042 / 109ΔR.99ET1042

Environmental Specifications

Operating Temperature: -30° to +60° C
Sealing: IP54

US VERSION

X= COMPATIBLE

PORTABLE ANTENNAS

CP110	DTR650	DTR700	R20BPR40	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
									X	32012144001	Gray Antenna ID Band (pack of 10)	\$6.50
									X	32012144002	Yellow Antenna ID Band (pack of 10)	\$6.50
									X	32012144003	Green Antenna ID Band (pack of 10)	\$6.50
									X	32012144004	Blue Antenna ID Band (pack of 10)	\$6.50
									X	32012144005	Purple Antenna ID Band (pack of 10)	\$6.50
				X						8504762J02	VHF Helical Antenna 155-174 MHz (14 cm)	\$13.50
	X									8505241U04	896-941 MHz 1/2 Wave Whip Antenna	\$35.75
	X									8505241U06	806-941 MHz 1/4 Wave Stubby Antenna	\$25.50
							X			8505816K24	UHF Heliflex Stubby, 403-440 MHz	\$12.25
				X						HAD9338_R	VHF Heliflex Antenna, 136-162 MHz	\$11.75
				X	X	X	X	X		HAD9742	VHF Stubby Antenna, 146-162 MHz	\$10.75
				X	X	X	X	X		HAD9743	VHF Stubby Antenna, 162-174 MHz	\$10.75
				X	X	X	X	X		NAD6502_R	VHF Heliflex Antenna, 146-174 MHz	\$11.75
				X						NAD6579	VHF Whip Antenna, 148-161 MHz (Enhanced Performance, 7.5")	\$13.50
						X	X	X		NAE6522_R	UHF Heliflex Stubby Antenna, 438-470 MHz	\$12.25
				X	X		X			PMAD4012	VHF Stubby Antenna, 136-155 MHz (Red Color Code)	\$13.25
				X						PMAD4013	VHF Stubby Antenna, 155-174 MHz (Black Color Code)	\$13.25
				X	X		X			PMAD4014	VHF Helical Antenna, 136-155 MHz (14cm)	\$13.50
					X		X			PMAD4042	VHF Heliflex, 136-150.8 MHz	\$17.80
			X							PMAD4051_R	Mag One VHF Antenna, 150-174 MHz	\$9.25
									X	PMAD4144	VHF STUBBY ANT (136-144MHz) 5cm	\$9.50
									X	PMAD4145	VHF STUBBY ANT (144-156MHz) 5cm	\$9.50
									X	PMAD4146	VHF STUBBY ANT (156-174MHz) 5cm	\$9.50
				X	X		X			PMAE4002	UHF Stubby Antenna, 403-433 MHz (9cm)	\$11.25
				X	X		X			PMAE4003	UHF Stubby Antenna, 430-470 MHz (9cm)	\$11.25
				X	X					PMAE4006	UHF Stubby Antenna, 465-490 MHz (9cm)	\$14.75
					X		X			PMAE4016	UHF Whip Antenna, 403-520 MHz	\$11.75
			X							PMAE4020_R	Mag One UHF Stubby Antenna, 450-470 MHz	\$9.25
									X	PMAE4093	UHF STUBBY ANT (403-425MHz) 4.5cm	\$9.50
									X	PMAE4094	UHF STUBBY ANT (420-445MHz) 4.5cm	\$9.50
									X	PMAE4095	UHF STUBBY ANT (435-470MHz) 4.5cm	\$9.50
		X								PMAF4024	900MHz Whip Antenna, 902-928MHz	\$30.00

	X	X							PMAF4025	ANTENNA, STUBBY,902-928MHZ, KIT			\$30.00	
X									RAN4031	UHF Whip Antenna, 403-470 MHz			\$20.00	
X									RAN4033	UHF Stubby Antenna, 450-470 MHz			\$20.00	
X									RAN4041	VHF Helical Antenna, 146-174 MHz			\$20.00	

US VERSION											BATTERIES		MSRP
X= COMPATIBLE											DESCRIPTION		MSRP
VL50	CP110	DTR650	DTR700	PR20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
		X									53963	Li-ion, 1200 mAh, 3.6V Battery	\$45.00
		X									53964	Li-ion, 1500 mAh, 3.6V Battery (component part number NNTN6923_)	\$70.00
							X	X	X		NNTN4497_R	Li-ion, 2250 mAh, 7.5V Battery (only comp. with WPLN4138_R, WLN4161_R & NNTN8353)	\$85.00
							X	X	X		NNTN4851	NiMH, 1400 mAh, 7.5V Battery (comp. with WPLN4138_R, WLN4161_R & NNTN8353)	\$63.00
							X				NNTN4852	NiMH, 1300 mAh, 7.5V Battery - Intrinsically Safe (FM) - (only compatible with WPLN4138_R, WPLN4161_R & NNTN8353)	\$110.00
			X				X	X			NNTN4970	Slim Li-ion, 1600 mAh, 7.2V Battery (comp. with WPLN4138_R, WLN4161_R & NNTN8353)	\$105.00
											PMHF4014	Battery Door Kit	\$13.00
				X							PMNN4071_R	Mag One NiMH, 1200 mAh Battery	\$35.00
							X	X	X		PMNN4072	NiMH Mag One Battery (1300 mAh)	\$35.00
											PMNN4075_R	Mag One Li-ion, 1500 mAh Battery (comp. with PMPN4140 charger base and PMLN5048_R charger kit)	\$53.00
					X	X					PMNN4080_R	Li-ion High Capacity 2150 mAh 7.4V Battery	\$69.00
					X	X					PMNN4082_R	NiMH 1300 mAh 7.4V Battery	\$52.00
							X	X	X		PMNN4450	Li-ion 2800M 2900T IP54 Battery	\$85.00
							X	X			PMNN4458_R	MagOne Li-Ion, 2050 mAh Battery	\$59.00
					X	X					PMNN4476	Li-ion IP54 1750T	\$58.00
X											PMNN4497_R	BATT LIION 1800T	\$41.66
			X								PMNN4578	Li-ion, 2500T Battery Pack	\$66.00
										X	PMLN7074	Battery Door Cover	\$35.00
										X	PMNN4468	Li-Ion 2300T Battery	\$40.00
	X										RLN6306	Alkaline Battery Shell	\$110.00
	X										RLN6308	Ultra High Capacity Li-ion Battery (component P/N 60012000001)	\$80.00

US VERSION

X= COMPATIBLE

											PORTABLE CARRY CASES			
VL50	CP110	DTR650	DTR700	PR20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP	
								X			1505596Z02	Case Adjustable Chest Pack	\$5.00	
							X	X	X		4280384F89	Universal RadioPAK™ Extension Belt for waist larger than 40"	\$5.00	
								X			4280483B03	2.5" Swivel Belt Loop	\$10.00	
								X			4280483B04	3" Swivel Belt Loop	\$11.55	
		X									53961	Swivel Belt Holster	\$12.95	
X											56519	Carry Case with Adjustable Strap	\$27.50	
X											HCLN4013	Replacement Swivel Belt Holster	\$7.95	
					X	X	X	X	X		HLN6602	Universal Chest Pack with Radio Holder, Pen Holder & Velcro Secured Pocket	\$38.00	
							X	X	X		HLN8255	3" Spring Action Belt Clip	\$7.00	
					X		X	X	X		HLN9701	Nylon Case with Belt Loop (Resale Packaging available through RPSD)	\$24.00	
					X	X					HLN9844	2" Spring Belt Clip	\$11.50	
					X	X	X	X	X		HLN9985	Waterproof Bag, includes large carrying strap	\$36.00	
						X		X			NTN5243	Carry Case Shoulder Strap	\$23.00	
				X							PMLN4742	Mag One Hard Leather Carry Case	\$25.00	
				X							PMLN4743	Mag One 2" Spring Belt Clip	\$5.00	
					X						PMLN5334	Soft Leather Protective Case	\$25.00	
									X		PMLN6074A	Nylon Wrist Straps	\$9.00	
									X		PMLN7076A	Flexible Hand Strap	\$11.50	
									X		PMLN7128A	Belt Clip (Heavy-Duty)	\$11.50	
									X		PMLN7190A	Swivel Carry Holster	\$12.00	
			X								PMLN7939	Swivel Holster	\$20.00	
						X		X			RLN4570	Breakaway Chest Pack	\$54.25	
					X	X	X	X	X		RLN4815	Universal RadioPAK™ & Utility Case (fanny pack)	\$45.00	
							X	X			RLN5383	Leather Case with Belt Loop (for use with Non-Display models)	\$39.00	
							X	X			RLN5384	Leather Case with 2.5" Swivel (for use with Non-Display models)	\$45.00	
							X	X			RLN5385	Leather Case with 3" Swivel (for use with Non-Display models)	\$45.00	
								X			RLN5716	T-Strap for Leather Cases	\$6.00	
							X	X	X		RLN5644	2" Spring Action Belt Clip	\$6.00	
	X										RLN6302	Leather Case with 3' Swivel	\$55.00	
	X										RLN6307	Spring Action Belt Clip	\$15.00	
							X	X	X		TDN9327	Portable Radio Hanger - for door panels up to 2.75" (slides over and hangs from the door panel in vehicle). Radio Belt Clip is required for use.	\$28.50	
							X	X	X		TDN9373	Portable Radio Hanger - for door panels from 2.75" to 3.25" (slides over and hangs from the door panel in vehicle). Radio Belt Clip is required for use.	\$18.00	

US VERSION

X= COMPATIBLE

CHARGERS & ACCESSORIES

VL50	CP110	DTR650	DTR700	R20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
						X					25009297001	Power Adapter	\$24.00
										X	25009298001	Micro-USB Charger, Switch Mode, Low Noise, 5W, US/NA	\$21.00
		X									53960	Multi-Unit Charger	\$200.00
		X									53962	Drop In Charging Tray	\$27.95
		X									53969	Rapid Charger, 1 Hour	\$30.00
X											56531	Multi-Unit Charger	\$199.95
X											56553	Double Unit Charger	\$65.00
							X	X	X		EPNN7997	10 Hour Plug In Charger (plugs into radio accessory connector - for use with NNTN4496_R NiCd battery only)	\$6.30
				X	X		X	X	X		EPNN9288	90-134V, Switch Mode Power Supply	\$24.00
							X	X			NNTN6844	Wall Mount Bracket	\$100.00
					X		X	X			NNTN8460	Charger Insert (CP200)	\$35.00
					X		X	X			NNTN8461	Charger Insert (CP185)	\$35.00
							X	X	X		PMLN6588	120 Volt - 6 Unit Rapid Rate Charger	\$435.00
			X								PMLN5048_R	Mag One Tri - Chemistry Rapid Charger Kit (includes Base, Power Supply & AC Cord)	\$50.00
								X			PMLN5193	Single-Unit Charger with Switch Mode Power Supply	\$65.75
					X	X					PMLN6597	Multi Unit Charger	\$450.00
							X	X	X		PMLN7089	Travel Charger	\$95.00
										X	PMLN7101	Standard Multi-Unit Charger, US/NA	\$225.00
										X	PMLN7109	Standard Single-Unit Charger, US/NA	\$45.00
	X										PMPN4005	AC Power Supply	\$35.00
					X	X					PMPN4172	CHGR DESKTOP SINGLE UNIT, US/NA	\$53.00
			X								PMPN4465	6-Pocket Multi Unit-Charger with US/NA Cord Kit	\$330.00
			X								PMPN4468	Single-Unit Charger Tray	\$44.00
			X								PMPN4469	Single-Unit Charger, US/NA Kit	\$61.00
			X								PS000227A11	5W L6 Micro-USB, US/NA	\$22.00
			X								PS000228A01	3W L6 Micro-USB, US/NA	\$22.00
X											RLN6304	2-Hour Rapid Charger Kit (includes PMPN4005, RLN6332, and RLN6349)	\$65.00
X											RLN6309	Multi Unit Charger	\$275.00
X											RLN6332	Rapid Drop-In Tray	\$30.00
X											RLN6349	NA Adaptor	\$5.00
			X								RLN6350	Mag One Rapid Charger, Li-ion Battery Bundle Kit (includes PMLN5048_R and PMNN4075)	\$84.00
			X								RLN6393	110V Rapid Rate Multi Unit Charger	\$450.00
							X	X	X		PMPN4173	120V - 90 Minute Rapid Rate CEC complaint Charger with Switch Mode Power Supply	\$57.75

US VERSION

X= COMPATIBLE

											EAR PIECES		
VL50	CP110	DTR650	DTR700	PR20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
							X		X		0180300E83	Body Switch Push to Talk for Ear Microphone System	\$159.00
							X		X		0180358B38	Finger Push to Talk Switch for Ear Microphone System - Intrinsically Safe (FM)	\$52.50
								X			0186180Z01	Replacement Foam Earbuds	\$6.50
							X	X	X		5080369E39	Extra Loud Earphone, Beige (exceeds OSHA limits)	\$36.75
							X	X	X		5080370E91	Extra Loud Earphone, Black (exceeds OSHA limits)	\$36.75
							X	X	X		5080370E97	Replacement Rubber Eartips, Clear - Pack of 25 (for use with RLN6232, RLN6241)	\$29.25
X		X					X	X	X	X	5080384F72	Replacement Foam Plugs-Pack of 50 (for use with RLN6230, RLN6231), Noise Reduction Rating = 24dB	\$116.50
											53866F	Earbud with PTT, Microphone, Slim plug, PVC free	\$50.00
	X						X	X	X		7580372E11	Replacement Foam Ear Cushion (for use with BDN6720)	\$1.80
X							X	X	X		BDN6720	Flexible Ear Receiver, Black Earpiece without Volume Control (flexible earloop & speaker that rests	\$35.00
											BDN6774	Earpiece with Microphone (worn over ear with streamlined boom microphone)	\$51.00
X											HKLN4424	CP Swivel Earpiece	\$35.00
X		X	X								HKLN4599	HEADSET,EARPIECE W/PTT, MIC, SLIM PLUG, PVC FREE (Replacement for 56517)	\$24.95
X		X	X								HKLN4601	1-Wire Surveillance Kit with In-Line Mic and PTT, Slim plug, PVC free	\$40.00
X		X	X								HKLN4604	Swivel Earpiece with In-Line Mic and PTT, Slim plug, PVC free	\$35.00
X		X	X								HKLN4608	Replacement Transparent Acoustic Tube and Earbud for HKLN4601A and HKLN4487F, PVC free	\$14.00
X											HMN8435	Earbud with Clip Microphone and PTT	\$40.00
	X						X		X		HMN9036	Earbud with Clip Microphone and PTT, Transmit & Receive (2-wire - not recommended for use with PL codes above 225 Hz) Resale Packaging is also available through RPSD)	\$40.00
	X						X		X		HMN9727	Earpiece without Volume Control, Beige (single wire) Resale Packaging available through RPSD)	\$36.75
	X				X		X		X		HMN9754	2 Piece Surveillance Kit, with Microphone and PTT Combined, Beige (2-wire - rubber eartip style) Resale Packaging available through RPSD)	\$114.00
				X							PMLN4294	Earbud with Microphone & PTT Combined	\$27.00
				X	X		X		X		PMLN4442	Mag One Earbud with MIC/PTT/VOX Switch	\$18.00
				X	X		X		X		PMLN4443	Mag One Ear Receiver with MIC/PTT/VOX Switch	\$20.00
				X			X		X		PMLN4444	Mag One Earset Boom Microphone with PTT/VOX	\$26.00
				X				X			PMLN4605	Clear Acoustic Tube	\$14.50
				X							PMLN4606	2-Wire Surveillance Kit with Clear Acoustic Tube	\$43.00
				X			X		X		PMLN5001	D Shell Earpiece with PTT Mic.	\$27.50
						X		X			PMLN6445	2-Wire Surveillance Kit (Beige) with Clear Acoustic Tube (Palm Garden)	\$44.50
						X		X			PMLN6530	2-Wire Surveillance Kit (Black) with Clear Acoustic Tube (Palm Garden)	\$44.50
						X		X			PMLN6531	Ear Receiver with In-Line Mic/PTT/VOX Switch (Mag One)	\$21.50
						X		X			PMLN6532	Swivel Earpiece with Microphone & PTT (Mag One)	\$24.50
						X		X			PMLN6533	Earset with combined MIC/PTT	\$27.00
						X		X			PMLN6534	Earbud with In-Line Mic/PTT/VOX Switch (Mag One)	\$20.00
						X		X			PMLN6535	D-Style Earpiece with Mic/PTT	\$28.50
						X		X			PMLN6536	2-Wire Surveillance Kit with Quick Disconnect Acoustic Tube, Black (OTTO)	\$120.00
						X		X			PMLN6537	Earset with Boom Microphone and In-Line PTT/VOX Switch	\$26.00
					X	X		X			PMLN6538	Lightweight Headset with Swivel Boom Microphone	\$57.00
								X			PMLN6541	Lightweight Temple Transducer Headset	\$79.00
									X		PMLN7189	Swivel Earpiece, In-Line Mic & PTT	\$29.00
									X		PMLN7156	Earbud w/ In-Line PTT, Mag One	\$20.00
									X		PMLN7157	2-Wire Surveillance Kit with Translucent Tube, Black	\$43.00
									X		PMLN7158	1-Wire Surveillance Kit with Translucent Tube, Black	\$40.00
									X		PMLN7159	Adjustable D-Style Earpiece w/ In-Line PTT/Mic, Black	\$43.00
				X			X		X		PMMN4001	Ultra-Light Earpiece with Boom Microphone and In-Line PTT	\$54.00
								X			RLN4760	Clear Comfortable Earpiece Small Right	\$20.50
								X			RLN4761	Clear Comfortable Earpiece Medium Right	\$20.50
								X			RLN4762	Clear Comfortable Earpiece Large Right	\$20.50
								X			RLN4763	Clear Comfortable Earpiece Small Left	\$20.50

							X		RLN4764	Clear Comfortable Earpiece Medium Left	\$20.50		
							X		RLN4765	Clear Comfortable Earpiece Large Left	\$20.50		
X			X	X			X		RLN4895	2 Piece Surveillance Kit, with Microphone and PTT Combined, Black (2-wire - rubber eartip style)	\$114.00		
			X	X	X		X	X	RLN4941_XL	Earpiece Receive Only with Translucent Tube	\$85.00		
X			X					X	RLN5317	2-Wire Comfort Earpiece with Combined Microphone and PTT, Beige Surveillance Kits with Extended-Wear Comfort Earpieces include a Low Noise enhancement (RLN6232) already attached for extra comfort and convenience.	\$120.00		
X			X					X	RLN5318	2-Wire Comfort Earpiece with Combined Microphone and PTT, Black Surveillance Kits with Extended-Wear Comfort Earpieces include a Low Noise enhancement (RLN6232) already attached for extra comfort and convenience.	\$120.00		
							X	X	RLN5500	Audio Accessory Retainer Kit	\$10.75		
			X				X	X	RLN6230	Extreme Noise Kit - Includes 2 foam earplugs. For High Noise Environments. Noise Reduction = 24dB. The Quick Disconnect Adapter allows users to easily remove or alternate Acoustic Tubes (for use with Surveillance Accessories). Black	\$32.00		
			X				X	X	RLN6231	Extreme Noise Kit - Includes 2 foam earplugs. For High Noise Environments. Noise Reduction = 24dB. The Quick Disconnect Adapter allows users to easily remove or alternate Acoustic Tubes (for use with Surveillance Accessories). Beige	\$32.00		
			X				X	X	RLN6232	Low Noise Kit - Clear Acoustic Tube Assembly includes 1 Clear Rubber Eartip. For Low Noise Environments. The Quick Disconnect Adapter allows users to easily remove or alternate Acoustic Tubes (for used with Surveillance Accessories). Black	\$20.00		
			X				X	X	RLN6241	Low Noise Kit - Clear Acoustic Tube Assembly includes 1 Clear Rubber Eartip. For Low Noise	\$20.00		
			X				X	X	X	RLN6242	Quick Disconnect Acoustic Tube Replacement (each sold separately)	\$7.90	
X	X								RMN5114	Lightweight Temple Transducer	\$79.00		

US VERSION

X= COMPATIBLE

HEADSETS

VL50	CP110	DTR650	DTR700	R20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
X											53815	Ultra-Light Headset	\$34.95
							X		X		PMLN5277	Heavy Duty Headset with Noise Cancelling Boom Microphone, behind-the-head (can be worn with hardhat) - Noise Reduction Rating = 24dB	\$525.00
X											BDN6773	Lightweight Single Muff Adjustable Headset with Swivel Boom Microphone	\$53.00
	X						X		X		HMN9013	Lightweight Single Muff Adjustable Headset with Swivel Boom Microphone (Resale Packaging available through RPSD)	\$57.00
	X						X		X		HMN9021	Medium Weight Dual Muff Headset, over-the-head, Noise Reduction Rating = 24dB	\$237.00
	X						X		X		HMN9022	Medium Weight Dual Muff Headset, behind-the-head (can be worn with hardhat), Noise Reduction Rating = 24dB	\$300.00
	X			X	X		X		X		PMLN4445	Mag One Headset with PTT/VOX Switch	\$30.00
	X			X	X		X		X		PMLN5003	Retail Temple Transducer	\$79.00
	X			X			X		X		PMLN5011	Temple Transducer (2 Prong)	\$159.00
						X		X			PMLN6542	Mag One Ultra-Lite Headset, behind-the-head, adjustable with boom microphone and in-line push-to-talk	\$29.00
						X					PMLN6854	BEHIND THE HEAD H/DUTY HEADSET/VOX, 2 PINConnector	\$330.00
						X					PMLN7468	OVER THE HEAD H/DUTY HEADSET/VOX, 2 PIN	\$330.00
	X						X	X	X		REX4648	Replacement Windscreen (for use with Boom Microphone) and Foam Ear Pad	\$7.20
	X						X		X		RKN4094	Adapter Cable with In-Line PTT (for use with RMN4051 Headset)	\$348.02
	X						X		X		RLN5411	Ultra-Light Headset, behind-the-head with In-Line PTT and Boom Microphone	\$60.00
	X						X		X		RMN4016	Lightweight Single Muff Adjustable Headset with Swivel Boom Microphone and In-Line PTT - Intrinsically Safe (FM)	\$76.00
							X		X		RMN4051	2-Way Hard-Hat Mount Headset, Black - Noise Reduction Rating = 22dB (requires adapter cable RKN4094)	\$269.10

US VERSION

X= COMPATIBLE

CP110	DTR650	DTR700	PR20BPR4	CP185	CP100d	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
	X									0105950U15	DTR Serial Data Cable CPS/RSS	\$35.00
						X		X		1009422001	120 Volt - Wall Mount Power Supply Supplies power to the RIB. Order power supply for radio separately.	\$24.25
				X		X		X		3080369B72	9 Pin PC to Radio Interface Box Cable (IBM AT or compatible)	\$52.00
			X							68007024004	CP185 Basic Service Manual	\$25.00
						X				6816986H01	BPR 40 Basic Service Manual (only available for download in MOL).	\$0.00
						X		X		6880309N61	CP150/CP200 Basic Service Manual	\$12.00
						X		X		AAPMKN4004	Programming & Test Cable - Programming cables require a Radio Interface Box (RIB), also compatible with RLN4460 used for radio testing.	\$50.00
		X								HKKN4027A	DTR CPS Cable Kit	\$40.00
		X								HKKN4028A	DTR Clonnig cable	\$20.00
			X	X						PMDN4040_R	Test Box	\$115.00
			X	X						PMDN4041_R	RF Adapter	\$21.25
			X							PMDN4042_R	Battery Eliminator	\$95.00
			X							PMDN4043_R	BPR 40 Programming/Test Cable	\$25.00
			X							PMDN4054_R	Grounding Plate	\$26.25
			X							PMDN4060_R	BPR 40 Cloning Cable	\$12.25
				X						PMDN4076_R	Cloning Cable	\$11.00
				X						PMDN4077_R	USB Programing Cable	\$52.10
X					X		X			PMKN4128	Micro USB Programing Cable	\$30.00
										CP110	CP110 USB Programming Cable	\$50.00
						X		X		RLN4008	Radio Interface Box (RIB) Voltage Level Shifter to enable communications between radio and computer's RS232 communications adapter. Requires wall mount power serial supply or 10-18 VDC power sources.	\$200.00
					X	X	X	X		RLN4460	Test Box for Portables and Mobiles	\$395.00
						X		X		RLN5583	Flash Upgrade Adapter	\$99.75
X										RLN6303	CP110 Cloning Cable	\$20.00
						X		X		RVN4191	Portable & Mobile Programming Software (CPS) - 3 Year Subscription*	\$265.00
	X									RVN5080	DTR Computer Programming Software (CPS) - Available for free download on MOL	\$0.00
			X							RVN5081	BPR 40 CPS Software (CD) - 3 Year Subscription	\$265.00
										RVN5149	CP110 CPS Software (CD) - 3 year Subscription. Note: CP110 MURS CPS is only available for download on MOL at no charge	\$265.00
X				X						RVN5194	CP185 CPS and Tunning Software (CD) - 3 Year Subscription	\$265.00
					X		X		X	HKVN4362	For MOTOTRBO CPS/RM pricing and details, see the link below:	
									X	HKVN4622	https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90Uhn-ljto5_HfuaYAcxPkAaVXFntGt4/edit?usp=sharing	
					X							

US VERSION

X= COMPATIBLE

Call Boxes:

Allows for integration into most existing radio systems and provides direct access to personnel connected to the system. Allows for expansion of security coverage and can help improve response time without the need for additional personnel. Includes a voice instruction message for the user, automatic call box ID and user location identifiers, a courtesy light, easy push-to-talk operation, a silent tamper alert broadcast to security, low battery alert, 40-day standby battery capacity, one 12-volt, 12 amp/hour rechargeable battery, call box keys and tamper resistant screw bits. Pricing does not include radio or installation. Remote speaker microphone cable and BNC antenna adaptor for the particular radio model must be supplied by the reseller.

Use Call Box RF Kits (HK2079A, HK2080A, HK2081A) for RF module.

For radio integration into the Call Box/RTU please contact the specific call box/RTU manufacturer.

RESELLER PRICES

CALL BOXES AND PERIPHERALS

CP110	DTR650	R20BPR4	CP185	CP200	CP200d	CP200.XLS	SL300	MODEL NUMBER	DESCRIPTION	MSRP
								HK2079A	Call Box RF Kit FKP Display "e" model 5W 136-174 MHz	\$958.33
								HK2080A	Call Box RF Kit FKP Display "e" model 4W 403-512 MHz	\$958.33
								HK2081A	Call Box RF Kit FKP Display "e" model 2.5W 800/900 MHz	\$958.33
								Call Box RF Kits do not include antenna, battery, belt clip, dust connector, or charger		
								A1 Call Boxes - Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.		
				X	X	X		RRDN4362	Solar Wall or Pole Mounting	\$2,565.00
				X	X	X		RRDN4363	AC/DC Wall or Pole Mounting	\$2,465.00
				X	X	X		RRDN4365	Solar with Aluminium Stanchion (A1010) w/o Base Pedestal	\$3,395.00
				X	X	X		RRDN4366	AC/DC with Aluminium Stanchion (A1010) w/o Base Pedestal	\$3,295.00
				X	X	X		RRDN4444	A1A1010 Base Pedestal	\$450.00
								A106.5 Call Boxes - Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5' H x 10" W x 10" D. Includes antenna and set of small reflective decals.		
				X	X	X		RRDN4588	Solar Powered w/o Base Pedestal	\$2,795.00
				X	X	X		RRDN4589	AC/DC w/o Base Pedestal	\$2,695.00
				X	X	X		RRDN7776	A106.5 Base Pedestal	\$450.00
								A1410 Call Boxes - Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10'H x 14"W x 7.5"D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10 watt solar panel provides additional charging power to allow the beacon/locator light to function 24 hours a day.		
				X	X	X		RRDN4369	Solar Powered	\$3,400.00
				X	X	X		RRDN4370	AC/DC w/o Base Pedestal	\$3,300.00
				X	X	X		RRDN4447	A1410 Base Pedestal	\$450.00
				X	X	X		RRDN7782	A1410 Solar w/o Base Pedestal, with Public Address System (PA)	\$3,745.00
								A144 Call Boxes - Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4' H x 14" W x 7.5" D. Includes a 6-watt locator LED that converts to a strobe light when callbox is activated. Comes standard with a 10-watt solar panel and choice of large reflective vinyl message decal.		
				X	X	X		RRDN4590	Solar Wall or Pole Mounting	\$3,275.00
				X	X	X		RRDN4591	AC/DC Wall or Pole Mounting	\$3,175.00
								A1510 Call Boxes		
				X	X	X		RRDN7777	Solar w/o Base Pedestal	\$3,445.00
				X	X	X		RRDN7778	Solar w/o Base Pedestal, with Public Address System (PA)	\$4,000.00
				X	X	X		RRDN7779	AC/DC w/o Base Pedestal	\$3,345.00
				X	X	X		RRDN7780	AC/DC w/o Base Pedestal, with Public Address System (PA)	\$3,910.00
				X	X	X		RRDN7781	A1510 Base Pedestal	\$348.00
								ACB Call Boxes - Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick with white powder coat. It measures 20"H x 14"W x 7.5"D with a thick, clear Lexan face-plate cover. Includes activation ringer, antenna and set of small reflective decals.		
				X	X	X		RRDN4367	Solar Wall or Pole Mounting	\$2,775.00

			X	X	X		RRDN4368	AC/DC Wall or Pole Mounting			\$2,675.00		
			X	X	X		RRDN7783	Mass Notification System			\$1,945.00		

US VERSION

X= COMPATIBLE

MOBILE ANTENNAS									
CM200	CM200d	CM300	CM300d	MODEL NUMBER	DESCRIPTION	MSRP			
X	X	X	X	HAD4006	VHF 136-144 MHz, 1/4 Wave Roof Mount, Mini-U	\$24.00			
X	X	X	X	HAD4007	VHF 144-150.8 MHz, 1/4 Wave Roof Mount, Mini-U	\$24.00			
X	X	X	X	HAD4008	VHF 150.8-162 MHz, 1/4 Wave Roof Mount, Mini-U	\$24.00			
X	X	X	X	HAD4009	VHF 162-174 MHz, 1/4 Wave Roof Mount, Mini-U	\$24.00			
			X	HAE4002	UHF 403-430 MHz, 1/4 Wave Roof Mount, Mini-U	\$27.75			
			X	HAD4022	VHF, 132-174 MHz, 3.0 dB Gain, Through-Hole Mount, Mini-U	\$65.50			
X	X	X	X	HAE4003	UHF 450-470 MHz, 1/4 Wave Roof Mount, Mini-U	\$21.50			
			X	HAE4010	UHF 406-420 MHz, 3.5 dB Gain Roof Mount, Mini-U	\$77.50			
			X	HAE4011	UHF 450-470 MHz, 3.5 dB Gain Roof Mount, Mini-U	\$77.50			
			X	HAE6022	UHF, 403-527 MHz, 2dB Gain, Through-hole Mount, Mini-U	\$64.50			
X		X		RAD4000	Antenna Only (less cable & install hardware) - Standard Duty, 136-174 MHz	\$50.00			
X		X		RAD4000AMB	VHF 3dB Gain Magnetic Mount Antenna, 140-174 MHz	\$90.00			
X		X		RAE4004AMB	UHF 5dB Gain Magnetic Mount Antenna, 440-470 MHz	\$120.00			
X	X	X	X	RAE4004ARB	UHF 445-470 MHz, 5 dB Gain Roof Mount, Mini-U	\$102.00			

US VERSION

X= COMPATIBLE

				MOBILE MICROPHONES						
CM200	CM200d	CM300	CM300d	MODEL NUMBER	DESCRIPTION					MSRP
X		X		AAREX4617	Telephone Style Handset with Hang-Up Cup					\$132.00
	X		X	GMMN4065	Visor Microphone (Omni-Direction)					\$36.00
X	X	X	X	HLN9073	Microphone Hang-up Clip (requires install)					\$1.10
X	X	X	X	HLN9414	Microph Hang-up Clip (Universal – no install required)					\$13.00
X		X		HMN1035	Heavy Duty Palm Microphone with 10.5 Ft. Coil Cord					\$81.50
X		X		HMN3413	Compact Microphone with 7 Ft. Coil Cord & Hang-Up Clip					\$39.50
X		X		HMN3596	Compact Microphone with 7 Ft. Coil Cord					\$38.50
	X		X	PMMN4089	Enhanced Keypad Microphone (Alphanumeric Only, Supports Remote Monitor)					\$99.00
	X		X	PMMN4090	Compact Microphone with Clip (Does not support Remote Monitor)					\$40.00
	X		X	PMMN4091	Heavy Duty Microphone (Does not support Remote Monitor)					\$81.50
X		X		RMN5029	Enhanced Keypad Microphone & Hang-Up Clip					\$88.50

US VERSION

X= COMPATIBLE

MOBILE SERVICE TOOLS										
CM200	CM200d	CM300	CM300d	MODEL NUMBER	DESCRIPTION					MSRP
X		X		0180357A57	120 Volt - Wall Mount Power Supply Supplies power to the RIB. Order power supply for radio separately.					\$24.25
X		X		3080070N01	Programming Cable (connection from RIB to radio)					\$65.25
X		X		3080369B71	25 Pin PC to Radio Interface Box Cable (IBM XT or compatible)					\$62.00
X		X		3080369B72	9 Pin PC to Radio Interface Box Cable (IBM AT or compatible)					\$52.00
X		X		6680334F39	Allen Wrench for Antenna Connector Set Screw					\$5.00
X		X		6680388A26	Mobile Crimping Tool					\$60.00
X		X		6802966C15	CM200/CM300/PM400 Basic Service Manual					\$18.00
X		X		6802966C20	CM200/CM300/PM400 VHF Detailed Service Manual					\$25.00
X		X		6881098C00	CM200/CM300/PM400 UHF Detailed Service Manual					\$26.25
X		X		AARKN4083	Programming Cable (allows radio programming via rear accessory connector)					\$74.00
	X		X	PMKN4147	MMP Telco Programming Cable					\$17.00
X		X		RKN4081	Programming Cable with Internal RIB (direct connection from computer to radio microphone connector)					\$210.00
X		X		FKN8096	Flash/Data Adapter (for use with AARKN4081 or 3080070N01)					\$65.00
X		X		FKN8113	Adapter Cable (for use with AARKN4083)					\$43.00
X		X		RLN4008	Radio Interface Box (RIB) Voltage Level Shifter to enable communications between radio and the computer's RS232					\$200.00
X		X		RLN4460	Test Box for Portables and Mobiles Enables connection to the universal connector. Allows switching for radio testing.					\$395.00
X		X		RVN4191	Portable & Mobile Programming Software (CPS) - 3 Year Subscription Package - Portables require AAPMKN4004 Programming/Test Cable.*					\$199.00
	X		X	HKVN4362	For MOTOTRBO CPS/RM pricing and details, see the link below:					
	X		X	HKVN4622	https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90UhN-ljto5_HfuaYAcxPkAaVXFntGt4/edit?usp=sharing					

US VERSION

X= COMPATIBLE

				GENERAL MOBILE ACCESORIES						
CM200	CM200d	CM300	CM300d	MODEL NUMBER	DESCRIPTION				MSRP	
				CONTROL STATIONS						
	X		X	GKN6266	DC Power Supply Cable (works with GPN6145 Power Supply)				\$22.00	
	X		X	GLN7318	Desktop Tray without Speaker				\$40.00	
	X		X	GLN7326	Desktop Tray with Speaker				\$82.50	
	X		X	GPN6145	Switchmode Power Supply (1-25 watt models). Requires Power Supply Cable.				\$286.00	
X		X		HKN4139	12V Power Cable for Low Power Control Station 1-25W				\$21.00	
	X		X	HKN9088	Mobile Mini-U Antenna Adapter - 8 Ft. Cable				\$40.25	
X		X		HKN9455	12V Power Cable for High Power Control Station 25-60W				\$22.00	
	X		X	HLN9457	Hardware Kit for use with the Expanded Accessory Connector. Includes 16 connector pins, five (5) 8" wires with pins attached.				\$6.95	
X	X	X	X	HPN4007	Power Supply and Cable (1-60 Watt Models)				\$296.00	
	X		X	PMMN4098	Desktop Microphone				\$120.00	
X		X		RLN5390	Desktop Tray with Speaker				\$81.00	
X		X		RLN5391	Desktop Tray without Speaker				\$51.50	
X		X		RMN5068	Desk Microphone, Black				\$120.00	
				GENERAL						
X		X		GLN7282	Alarm Buzzer				\$46.25	
X		X		HLN9328	External Alarm Relay Cable - Horn & Lights				\$55.00	
X	X	X	X	HSN8145	External Speaker 7.5W				\$47.50	
X	X	X	X	RSN4001	External Speaker 13 W				\$66.00	
				HANDSFREE						
X		X		AARMN4027	Visor Mounted Microphone				\$57.25	
X	X	X	X	RLN4856	Footswitch with Remote PTT				\$80.00	
X	X	X	X	RLN4857	Pushbutton with Remote PTT				\$38.50	
				POWER CABLES						
X	X	X	X	HKN4137	Mobile Pwr Cable 10 FT, 14 AWG, 15A				\$18.00	
X	X	X	X	HKN4191	Mobile Pwr Cable 10 FT, 12 AWG, 20A				\$18.00	
	X		X	HKN4192	Mobile Pwr Cable 20 FT, 10 AWG, 20A				\$38.33	
X	X	X	X	HKN9327_R	Ignition Switch Cable				\$17.00	
X		X		HLN9242	16-Pin Accessory Kit with Expanded Connector for CM/SM/M1225. Includes 9 wires with lugs, 1 connector housing, 16 crimping terminals, 2 tie straps, and 1 extraction tool				\$16.00	
	X		X	HLN9457	16 Pin MAP Connector Kit				\$6.95	
				MOUNTING						
	X		X	FTN6083	DIN Mount Kit				\$55.00	
X		X		GLN7317	High Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)				\$21.00	
X		X		GLN7324	Low Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)				\$13.25	
X		X		HLN9227	8" Goose Neck Mounting Bracket				\$28.75	
X		X		RLN4779	Key Lock Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)				\$48.00	

	X		X	RLN6466	Low Profile Trunnion Kit (this is the trunnion kit that ships standard with the CM200d/CM2300d (RLN6469),but is					\$16.00
	X		X	RLN6467	High Profile Trunnion Kit					\$21.00
	X		X	RLN6468	Key Lock Trunnion Kit					\$122.00
				PUBLIC ADDRESS						
X		X		HKN9324_R	15 Ft. Public Address & Speaker Cable (one cable per speaker)					\$44.00
X		X		HSN1006	External Speaker for Car Kit					\$104.00
X		X		RLN5288	Public Address Kit - Includes Interface Cable (requires HSN1006 speaker)					\$419.00

US VERSION									
X= COMPATIBLE									
						VX/EVX ACCESSORIES			
X-261	X-264	VX-450	EVX-S24	EVX-261	K-2100	X-220	MODEL NUMBER	DESCRIPTION	MSRP
							ALKALINE BATTERY CASES		
		X					AAH09X501	FBA-41 Alkaline Battery Pack	\$46.68
							PORTABLE ANTENNAS		
		X					AAH72X501	ATU-16B UHF Antenna 400-420 MHz	\$14.85
		X					AAH72X502	ATU-16C UHF Antenna 420-450 MHz	\$14.85
		X					AAH72X503	ATU-16D UHF Antenna 450-470 MHz	\$14.85
		X					AAH72X504	ATU-16F UHF Antenna 470-512 MHz	\$14.85
			X				AAM23X501	ATU-20AS Regular Stubby Antenna 400-430 MHz	\$9.55
			X				AAM23X504	ATU-20CS Regular Stubby Antenna 420-450 MHz	\$9.55
			X				AAM23X502	ATU-20DS Regular Stubby Antenna 440-470 MHz	\$9.55
			X				AAM23X503	ATU-20FS Regular Stubby Antenna 450-480 MHz	\$9.55
			X				AAM28X501	ATU-21AS Super Stubby Antenna 400-420 MHz	\$9.55
			X				AAM28X502	ATU-21CS Super Stubby Antenna 420-440 MHz	\$9.55
			X				AAM28X503	ATU-21DS Super Stubby Antenna 440-460 MHz	\$9.55
			X				AAM28X504	ATU-21FS Super Stubby Antenna 460-480 MHz	\$9.55
X			X	X			AAE23X501	ATU-6A 400-430 MHz	\$14.85
X				X			AAE20X503	ATU-6DS Antenna 450-485 MHz	\$14.85
			X	X			AAE23X506	ATU-6B Antenna 420-450 MHz	\$14.85
			X	X			AAE23X502	ATU-6C Antenna 440-470 MHz	\$14.85
X			X	X			AAE23X503	ATU-6D Antenna 450-485 MHz	\$14.85
X				X			AAE23X504	ATU-6F 490-512 MHz	\$14.85
		X					AAH73X502	ATV-16A VHF Antenna 136-150 MHz	\$14.85
		X					AAH73X503	ATV-16B VHF Antenna 150-162 MHz	\$14.85
		X					AAJ10X501	ATU-16BS UHF 400-430 MHz Stubby	\$14.85
		X					AAH73X504	ATV-16C VHF Antenna 162-174 MHz	\$14.85
		X					AAJ10X502	ATU-16DS UHF 450-490 MHz Stubby	\$14.85
		X					AAH73X501	ATV-16XL VHF Untuned Antenna	\$14.85
X							AAE19X502	ATV-6B Antenna 150-163 MHz	\$15.91
X							AAE19X503	ATV-6C Antenna 161-174 MHz	\$13.79
X				X			AAG42X501	ATV-6XL Untuned VHF Antenna	\$14.85
X				X			AAE24X501	ATV-8A Antenna 134-150 MHz	\$14.85
X				X			AAE24X502	ATV-8B Antenna 150-163 MHz	\$14.85

X			X	AAE24X503	ATV-8C Antenna 162-174 MHz	\$14.85
				BATTERIES		
X	X		X	AAJ67X501	FNB-V133LI-UNI 1380 mAh Li-ion Battery	\$42.44
X	X		X	AAJ68X501	FNB-V134LI-UNI 2300 mAh Li-ion Battery	\$74.26
	X			AAK66X501	FNB-V134LIIS 2300 mAh Li-Ion Battery, Intrinsically Safe	\$127.31
X	X		X	AAL01X501	FNB-V136-UNI 1200 mAh Ni-MH Battery	\$34.71
		X		PMNN4468A	BATT LIION 2300T	\$40.00
				CARRY CASES		
		X		AAM18X501	CLIP-27 Belt Clip	\$10.61
X	X		X	AAH12X501	CLIP-20 Belt Clip	\$10.61
	X			AAJ14X501	LCC-133LN BELT LOOP CASE (FNB-V133LI-UNI) NO DISPLAY	\$33.95
	X			AAJ14X502	LCC-134LN BELT LOOP CASE (FNB-V134LI-UNI) NO DISPLAY	\$33.95
	X			AAJ14X503	LCC-133SN SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) NO DISPLAY	\$44.56
	X			AAJ14X504	LCC-134SN SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) NO DISPLAY	\$44.56
	X			AAJ14X505	LCC-133LD BELT LOOP CASE (FNB-V133LI-UNI) DISPLAY	\$33.95
	X			AAJ14X506	LCC-134LD BELT LOOP CASE (FNB-V134LI-UNI) DISPLAY	\$33.95
	X			AAJ14X507	LCC-133SD SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) DISPLAY	\$44.56
	X			AAJ14X508	LCC-134SD SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) DISPLAY	\$44.56
		X		AAM22X501	LCC-S24 Leather case with belt loop	\$36.07
		X		AAM22X502	LCC-S24S Leather case with swivel belt loop	\$46.68
X			X	AAM03X511	LCC-261 Leather case with belt loop (FNB-V133LI-UNI)	\$33.95
X			X	AAM03X512	LCC-261H Leather case with belt loop (FNB-V134LI-UNI)	\$33.95
X			X	AAM03X513	LCC-261S Leather case with swivel belt loop (FNB-V133LI-UNI)	\$44.56
X			X	AAM03X514	LCC-261SH Leather case with swivel belt loop (FNB-V134LI-UNI)	\$44.56
X				AAM04X501	LCC-264 Leather case with belt loop (FNB-V133LI-UNI)	\$33.95
X				AAM04X502	LCC-264H Leather case with belt loop (FNB-V134LI-UNI)	\$33.95
X				AAM04X503	LCC-264S Leather case with swivel belt loop (FNB-V133LI-UNI)	\$44.56
X				AAM04X504	LCC-264SH Leather case with swivel belt loop (FNB-V134LI-UNI)	\$44.59
				CHARGERS		
X	X		X	XUAAJ72X511	VAC-UNI 120V Single Unit Charger	\$38.19
X	X		X	XUAAJ72X512	VAC-UNI 220V Single Unit Charger	\$38.19
		X		AAM19X501	CD-65 Standard Charging Cradle	\$21.22
		X		AAM20X501	CD-66 Enhanced Charging Cradle	\$31.83
X	X		X	XUAAK44X511	VAC-6058 120V Multi Unit Charger	\$477.41
X	X		X	AAK45X501	VCM-5 Vehicle Charger Mounting Adapter	\$76.38
				HEADSETS AND SURVEILLANCE		
		X		AAM21X501	MH-89A4B Earpiece Microphone	\$42.44

X	X		X		AAL40X501	VH-150A IS Lightweight Behind-the-head VOX Headset	\$74.26
X	X		X		AAL41X501	VH-150B IS Lightweight Over-the-head VOX Headset	\$84.87
X	X		X		AAL82X501	MH-100 3.5MM Earpiece for RSM Audio Jack	\$20.16
X	X		X		AAL83X501	MH-101A4B 1 Wire Surveillance Kit	\$42.44
X	X		X		AAL84X501	MH-102A4B 2 Wire Surveillance Kit	\$58.35
X	X		X		AAL85X501	MH-103A4B 3 Wire Surveillance Kit	\$74.26
X	X		X		AAM02X501	MH-201A4B, Heavy Duty Headset, Over the Head, IS	\$396.78
		X			AAM26X501	VH-190 VOX Lightweight Headset	\$72.10
X	X		X		AAK50X501	MH-37A4B-1 Earpiece Microphone Single Wire Surveillance Kit	\$42.44
					SPEAKER MICROPHONES		
X	X		X		AAE46X507	MH-66A4B IP57 Submersible Speaker Microphone	\$97.60
		X			AAM24X501	MH-90A4B Compact Speaker Microphone	\$33.95
		X			AAE46X509	MH-66F4B IP57 Submersible Speaker Microphone	\$97.60
X	X		X		AAF52X501	MH-360S Compact Speaker Microphone	\$22.28
X	X		X		AAF53X501	Phone Jack	\$28.29
X	X				A13960507	MH-45B4B Noise Cancelling Speaker Microphone	\$87.00
					PORTABLE SERVICE TOOLS		
X	X		X		AAD68X501	CT-106 Interface Cable fro FIF-12	\$42.44
X	X		X	X	AAJ23X501	FIF-12 USB Interface for PC programming	\$159.14
		X			CB000262A01	Micro USB Programming Cable	\$21.45
				X	AAD66X502	CT-104A Interface Cable for FIF-12	\$42.44
	X				AAF26X002	CT-124B Firmware Cable. Requires FIF-12A.	\$63.65
	X				AAH77X001	CT-153 Clone cable	\$53.05
X	X		X		XURTS0008	CT-27A Radio to radio cloning cable	\$14.85
				X	T9101411	CT-4 Programming Cable - Radio to Radio Cloning	\$29.28
X	X		X	X	AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$360.71
X	X		X		AAJ08X001	CT-160 Connection Cable 4-Pin Mic Jack (Use with FRB-6)	\$58.35
					MOBILE MICROPHONES		
				X	AAF13X501	MD-12A8J Desktop Microphone	\$108.21
				X	AAE60X502	MH-67A8J Standard Microphone	\$42.44
				X	AAG22X501	MH-75A8J DTMF Microphone	\$58.35
					MOBILE SPEAKERS		
				X	A09260503	MLS-100 External Speaker	\$65.78
				X	AAD49X501	MLS-200 Waterproof External Speaker	\$84.87
					MOBILE POWER SUPPLY		
				X	XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$230.09
					OPTION BOARDS		

				X	XUCMR0003	installed in VX-5500/6000)	\$73.53
	X				AAH88X001	DVS-9 Mandown and voice storage	\$106.09
					MISCELLANEOUS		
	X				AAH99X101	CSS-450 Channel Selector Stopper	\$8.49

US VERSION															Legacy Vertex Standard Accessories						
X= COMPATIBLE																					
																MODEL NUMBER	DESCRIPTION	MSRP			
EVS-530	VX-820	VX-920	VX-P820	VX-P920	VX-4500	VX-4600	VX-5500	VX-6000	VX-5300	VX-54	VX-1700	VXR-7000	VXR-9000	VX-231	VX-350	VX-410	VX-420	VX-7200			
ALKALINE BATTERY CASES																					
X																			AAH09X501	FBA-41 Alkaline Battery Pack	\$46.68
	X	X	X	X															AAE11X002	FBA-34 Alkaline Battery Case VX-820/920 series	\$47.74
PORTABLE ANTENNAS																					
X																			AAH72X501	ATU-16B UHF Antenna 400-420 MHz	\$14.85
X																			AAH72X502	ATU-16C UHF Antenna 420-450 MHz	\$14.85
X																			AAH72X503	ATU-16D UHF Antenna 450-470 MHz	\$14.85
X																			AAH72X504	ATU-16F UHF Antenna 470-512 MHz	\$14.85
		X		X										X	X				AAE23X501	ATU-6A 400-430 MHZ	\$14.85
	X	X	X	X										X	X	X			AAE20X503	ATU-6DS Antenna 450-485 MHz	\$14.85
	X	X	X	X										X	X	X			AAE23X503	ATU-6D Antenna 450-485 MHz	\$14.85
														X	X				AAE23X504	ATU-6F 490-512 MHz	\$14.85
	X	X	X	X										X	X	X			AAE19X502	ATV-6B Antenna 150-163 MHz	\$15.91
	X	X	X	X										X	X	X			AAE19X503	ATV-6C Antenna 161-174 MHz	\$13.79
	X	X	X	X										X	X	X			AAG42X501	ATV-6XL Untunned VHF Antenna	\$14.85
	X	X	X	X										X	X	X			AAE24X501	ATV-8A Antenna 134-150 MHz	\$14.85
	X	X	X	X										X	X	X			AAE24X502	ATV-8B Antenna 150-163 MHz	\$14.85
	X	X	X	X										X	X	X			AAE24X503	ATV-8C Antenna 162-174 MHz	\$14.85
BATTERIES																					
	X	X																	AAJ61X001	FNB-V127LI-UNI 1380 mAh Li-Ion Battery	\$67.90
	X	X																	AAJ62X001	FNB-V128LI-UNI 2300 mAh Li-Ion Battery	\$84.87
	X	X																	AAJ63X001	FNB-V129LI-UNI 3000 mAh Li-Ion Battery	\$148.53
	X	X																	AAL73X001	FNB-V129LIIS 3000 mAh Li-Ion Battery, Intrinsically Safe	\$169.74
														X					AAJ65X001	FNB-V131LI-UNI 1380 mAh Li-Ion Battery	\$42.44
														X					AAJ66X001	FNB-V132LI-UNI 2300 mAh Li-Ion Battery	\$63.65
															X				AAJ64X001	FNB-V130LI-UNI 2300 mAh Li-Ion Battery	\$42.44
																X			AAJ60X001	FNB-V126LI-UNI 2300 mAh Li-Ion Battery	\$53.05
	X	X																	AAD83X021	FNB-V87LIA 7.4V 2300mAh Li-ion Battery	\$93.71
CARRY CASES																					
X																			AAH12X501	CLIP-20 Belt Clip	\$10.61
X																			AAJ14X501	LCC-133LN BELT LOOP CASE (FNB-V133LI-UNI) NO DISPLAY	\$33.95
X																			AAJ14X502	LCC-134LN BELT LOOP CASE (FNB-V134LI-UNI) NO DISPLAY	\$33.95
X																			AAJ14X503	LCC-133SN SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) NO DISPLAY	\$44.56
X																			AAJ14X504	LCC-134SN SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) NO DISPLAY	\$44.56
X																			AAJ14X505	LCC-133LD BELT LOOP CASE (FNB-V133LI-UNI) DISPLAY	\$33.95
X																			AAJ14X506	LCC-134LD BELT LOOP CASE (FNB-V134LI-UNI) DISPLAY	\$33.95
X																			AAJ14X507	LCC-133SD SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) DISPLAY	\$44.56
X																			AAJ14X508	LCC-134SD SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) DISPLAY	\$44.56
CHARGERS																					
X	X	X												X	X	X			XUAAJ72X511	VAC-UNI 120V Single Unit Charger (COMPLETE)	\$38.19
																			XUAAJ72X512	VAC-UNI 220V Single Unit Charger (COMPLETE)	\$38.19
																			AAM19X501	CD-65 Standard Charging Cradle	\$21.22
																			AAM20X501	CD-66 Enhanced Charging Cradle	\$31.83
X	X	X												X	X	X			XUAAK44X511	VAC-6058 120V Multi Unit Charger (COMPLETE)	\$477.41
X	X	X																	AAK45X501	VCM-5 Vehicle Charger Mounting Adapter	\$76.38
	X	X	X	X															XUAAE45X00101	VAC-921B 120 VAC Desktop Rapid charger	\$76.74
	X	X	X	X															XUAAE45X00102	VAC-921C 240 VAC Desk top rapid charger	\$76.74
HEADSETS AND SURVEILLANCE																					
X														X	X				AAL40X501	VH-150A IS Lightweight Behind-the-head VOX Headset	\$74.26
X														X	X				AAL41X501	VH-150B IS Lightweight Over-the-head VOX Headset	\$84.87
														X	X				AAL82X501	MH-100 3.5MM Earpiece for RSM Audio Jack	\$20.16
X														X	X				AAL83X501	MH-101A4B 1 Wire Surveillance Kit	\$42.44
														X	X				AAL84X501	MH-102A4B 2 Wire Surveillance Kit	\$58.35

					X	X									L9190128	Ferrite Snap-on Bead for microphone cable	\$3.02
					X	X									L9190148	Ferrite Snap-on Bead for control cable	\$5.63
X	X				X	X						X	X		XUCMR0003	when being installed in VX-5500/6000)	\$73.53

XPR™ 3300e
VHF & UHF PORTABLES
6.25e/12.5 kHz

Standard Package Includes:

- Li-ion IMPRES Li-Ion, 2100 mAh IP68 with Belt Clip (PMNN4491_)
- IMPRES™ Single-Unit Charger CEC Compliant (PMPN4174A)
- UHF or VHF Antenna (must select appropriate option)
- 2" Belt Clip (PMLN4651)
- Accessory Dust Cover (0104058J40)
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	16
Display	N/A
Keypad	N/A
Menu Navigation Buttons	N/A
Side Programmable Buttons	2
Front Programmable Buttons	N/A
Top Channel Knob Positions	16
Top Programmable (Orange) Button	N/A
Ingress Protection Rating	IP67

Enhanced Radio Features:

GPS	N/A
Expansion Card	N/A
Third Party Applications	N/A
Intrinsically Safe Option	Optional
WiFi	Optional

Premium Software Features Included in Essential Services:

Bluetooth Audio	5 Years
Bluetooth Data	5 Years
Digital Telephony	5 Years
Enhanced Privacy	5 Years
Transmit Interrupt	5 Years
Enhanced Noise Cancellation (SINC+)	5 Years
Mute Mode	5 Years
Receive Audio Leveling	5 Years
Indoor Location	N/A
Man Down	N/A
Multi-Button PTT	N/A
Text to Speech	N/A
Transmit Inhibit	N/A



Systems Supported:

Analog Conventional	Yes
Digital Conventional	Yes
IP Site Connect	Optional
Capacity Plus	Optional
Linked Capacity Plus	Optional
Connect Plus	N/A
Capacity Max	N/A
LTR/PassPort	N/A

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

Frequencies not Allowed for XPR3300 (Self Quiet)					
VHF			UHF		
139.200	144.000	148.800	403.200	422.400	427.200
153.600	158.400	160.000	432.000	446.400	456.000
163.200	168.000	172.030	460.800	465.600	480.000
172.800			499.200	504.000	508.800
			519.250		

**XPR™ 3300e
VHF & UHF PORTABLES
MODELS AND OPTIONS**

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
136-174 MHz	VHF	1W to 5W (ships 5W)	16	AAH02JDC9VA1AN	XPR 3300e 136-174 5W NKP WIFI CAPABLE	\$670.88				
403-512 MHz	UHF	1W to 4W (ships 4W)	16	AAH02RDC9VA1AN	XPR 3300e 403-512 4W NKP WIFI CAPABLE	\$712.55				

FCC INFORMATION VHF: AZ489FT7069, UHF: AZ489FT7068

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH STEP

STEP 1:

Battery Options:

STDBAT0446	Standard Battery - IMPRES Li-Ion, 2100 mAh IP68 with Belt Clip (PMNN4491_)	N/C
QA02309	IMPRES LV Hi-Cap Li-Ion, 3000 mAh Battery IP68 with Belt Clip (PMNN4493_)	\$33.33
QA06045	IMPRES LV Hi-Cap Li-Ion, 3000 mAh Batt IP68 + Vibr. Belt Clip (PMNN4488_)	\$66.67
QA04950	IMPRES LV Li-Ion TIA4950, 2900mAh IP68 with Belt Clip (PMNN4490_)*	\$70.67

"The belt clip comes as part of the battery only when ordered as an option to the radio"

* The XPR 3300e, XPR 3500e, XPR 7350e, XPR 7550e, XPR7380e and XPR7580e portable radios MUST be ordered and shipped from Motorola with UL option

QA04950 for the radios to be properly processed, certified and labeled as UL Approved in accordance with US and Canada Codes as Intrinsically Safe for use in Division 1, Division 2, Class 1, Group A, B, C, D, Class I Groups C, D, Class II Group E, F, G and Class III hazardous locations.

*HAZ LOC certified by UL to standards ANSI/TIA 4950 and CAN/CSA C22.2 NO. 157-92.
 Classification Rating Division 1, Class I, Groups C, D; Class II Group E, F, G; Class III. T3C.
 Tamb = -25 °C to +60 °C, and Classification Rating Division 2, Class I, Groups A, B, C, D.
 Intrinsically Safe when used with Motorola Battery PMNN4490A*

STEP 2:

Charger Options:

STDCHG0446	Standard Charger - IMPRES Single Unit Charger CEC Compliant (PMPN4174A) With CEC Compliant Switch Mode Power Supply for customers in CA, OR, and WA	N/C
H951	Omit Standard Charger	-\$20.00

STEP 3:

Antenna Options - You MUST choose one:

VHF Antenna Options:

QA02299	VHF Helical Antenna 136-155 MHz (PMAD4117)	N/C
QA02308	VHF Helical Antenna 144-165 MHz (PMAD4116)	N/C
QA02310	VHF Helical Antenna 152-174 MHz (PMAD4118)	N/C
QA02307	VHF Stubby Antenna 136-148 MHz (PMAD4119)	N/C
QA02305	VHF Stubby Antenna 160-174 MHz (PMAD4121)	N/C
QA02306	VHF Stubby Antenna 146-160 MHz (PMAD4120)	N/C

UHF Antenna Options:

QA02304	UHF Slim Whip Antenna, 403-512 MHz (PMAE4079)	N/C
QA02303	UHF Stubby Antenna, 403-450 MHz (PMAE4069)	N/C
QA02302	UHF Stubby Antenna, 440-490 MHz (PMAE4070)	N/C
QA02301	UHF Stubby Antenna, 470-512 MHz (PMAE4071)	N/C
H112	Omit Antenna	-\$3.50

STEP 4:

Shipping Box Options:

STDBOX0446	Standard Model Box	N/C
H415	Bulk Packaging (minimum 10 units per line item)	N/C

The XPR Series portables ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

STEP 5:

Essential Software Options:

STDSMA0771	Standard 5 Year SMA and Software Features	N/C
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Essential Repair Options:

STDESS0446	5 Year Essential Repair	N/C
QA00446	Delete Essential Repair (2 Year Warranty Only)	-\$18.33

HA00664 ADD: 5 Year Accidental Damage \$160.00
 Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

XPR™ 3300e
VHF & UHF PORTABLES
OPTIONS

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
General Options:		
Accessories		
QA02772	IMPRES Noise-Cancelling RSM w/3.5mm Audio Jack (PMMN4071)	\$85.00
QA02773	IMPRES Windporting RSM w/3.5mm Audio Jack (PMMN4073)	\$80.00
QA02774	2-Wire Surveillance Kit Black with Translucent Tube (PMLN7269)	\$38.00
QA02775	2-Wire Surveillance Kit Beige with Translucent Tube (PMLN5726)	\$38.00
Premium Software Features:		
HKVN4084	MOTOTRBO Enhanced Privacy	\$50.00
HKVN4154	MOTOTRBO IP Site Connect	\$83.00
HKVN4271	MOTOTRBO Digital Telephone Interconnect	\$33.50
HKVN4412	Bluetooth Audio 2.0 / 4.0 LE Audio License	\$50.00
HKVN4249	Bluetooth Data & Discoverable Mode	\$50.00
HKVN4413	MOTOTRBO License Capacity Plus (Single Site)	\$83.00
HKVN4414	MOTOTRBO License Capacity Plus (Multi-Site)	\$83.00
HKVN4381	MOTOTRBO License Wi-Fi	\$125.00
HKVN4373	MOTOTRBO License Enhanced Noise Cancellation (SINC+)	\$3.50
HKVN4085	MOTOTRBO Transmit Interrupt	\$50.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50

XPR™ 3500e VHF & UHF PORTABLES 6.25e/12.5 kHz

Standard Package Includes:

- Li-ion IMPRES Li-Ion, 2100 mAh IP68 with Belt Clip (PMNN4491_)
- IMPRES™ Single-Unit Charger CEC Compliant (PMPN4174A)
- UHF or VHF Antenna (must select appropriate option)
- 2" Belt Clip (PMLN4651)
- Accessory Dust Cover (0104058J40)
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	128
Display	Monochrome
Keypad	Limited
Menu Navigation Buttons	N/A
Side Programmable Buttons	2
Front Programmable Buttons	2
Top Channel Knob Positions	16
Top Programmable (Orange) Button	N/A
Ingress Protection Rating	IP67

Enhanced Radio Features:

GPS	N/A
Expansion Card	N/A
Third Party Applications	N/A
Intrinsically Safe Option	Optional
WiFi	Optional

Premium Software Features Included in Essential Services:

Bluetooth Audio	5 Years
Bluetooth Data	5 Years
Digital Telephony	5 Years
Enhanced Privacy	5 Years
Transmit Interrupt	5 Years
Enhanced Noise Cancellation (SINC+)	5 Years
Mute Mode	5 Years
Receive Audio Leveling	5 Years
Indoor Location	N/A
Man Down	N/A
Multi-Button PTT	N/A
Text to Speech	N/A
Transmit Inhibit	N/A

Systems Supported:



Analog Conventional	Yes
Digital Conventional	Yes
IP Site Connect	Optional
Capacity Plus	Optional
Linked Capacity Plus	Optional
Connect Plus	N/A
Capacity Max	N/A
LTR/PassPort	N/A

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

Frequencies not Allowed for XPR3300 (Self Quiet)					
VHF			UHF		
139.200	144.000	148.800	403.200	422.400	427.200
153.600	158.400	160.000	432.000	446.400	456.000
163.200	168.000	172.030	460.800	465.600	480.000
172.800			499.200	504.000	508.800
			519.250		

XPR™ 3500e
VHF & UHF PORTABLES
MODELS AND OPTIONS

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
136-174 MHz	VHF	1W to 5W (ships 5W)	128	AAH02JDH9VA1AN	XPR 3500e 136-174 5W LKP WIFI CAPABLE	\$729.22				
403-512 MHz	UHF	1W to 4W (ships 4W)	128	AAH02RDH9VA1AN	XPR 3500e 403-512 4W LKP WIFI CAPABLE	\$770.88				

FCC INFORMATION VHF: AZ489FT7069, UHF: AZ489FT7068

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH STEP

STEP 1:

Battery Options:

STDBAT0867	Standard Battery - IMPRES Li-Ion, 2100 mAh IP68 with Belt Clip (PMNN4491_)	N/C
QA02309	IMPRES LV Hi-Cap Li-Ion, 3000 mAh Battery IP68 with Belt Clip(PMNN4493_)	\$33.33
QA06045	IMPRES LV Hi-Cap Li-Ion, 3000 mAh Battery IP68 with Vibr. Belt Clip (PMNN4488_)	\$66.67
QA04950	IMPRES LV Li-Ion TIA4950, 2900mAh IP68 with Belt Clip (PMNN4490_)*	\$70.67

"The belt clip comes as part of the battery only when ordered as an option to the radio"

* The XPR 3300e, XPR 3500e, XPR 7350e, XPR 7550e, XPR7380e and XPR7580e portable radios MUST be ordered and shipped from Motorola with UL option QA04950 for the radios to be properly processed, certified and labeled as UL Approved in accordance with US and Canada Codes as Intrinsically Safe for use in Division 1, Division 2, Class 1, Group A, B, C, D, Class I Groups C, D, Class II Group E, F, G and Class III hazardous locations.

HAZ LOC certified by UL to standards ANSI/TIA 4950 and CAN/CSA C22.2 NO. 157-92.
 Classification Rating Division 1, Class I, Groups C, D; Class II Group E, F, G; Class III. T3C.
 Tamb = -25 °C to +60 °C, and Classification Rating Division 2, Class I, Groups A, B, C, D.
 Intrinsically Safe when used with Motorola Battery PMNN4490A

STEP 2:

Charger Options:

STDCHG0867	Standard Charger - IMPRES Single Unit Charger CEC Compliant (PMPN4174A)	N/C
	With CEC Compliant Switch Mode Power Supply for customers in CA, OR, and WA	
H951	Omit Standard Charger	-\$20.00

STEP 3:

Antenna Options - You MUST choose one:

VHF Antenna Options:

QA02299	VHF Helical Antenna 136-155 MHz (PMAD4117)	N/C
QA02308	VHF Helical Antenna 144-165 MHz (PMAD4116)	N/C
QA02310	VHF Helical Antenna 152-174 MHz (PMAD4118)	N/C
QA02307	VHF Stubby Antenna 136-148 MHz (PMAD4119)	N/C
QA02305	VHF Stubby Antenna 160-174 MHz (PMAD4121)	N/C
QA02306	VHF Stubby Antenna 146-160 MHz (PMAD4120)	N/C

UHF Antenna Options:

QA02304	UHF Slim Whip Antenna, 403-512 MHz (PMAE4079)	N/C
QA02303	UHF Stubby Antenna, 403-450 MHz (PMAE4069)	N/C
QA02302	UHF Stubby Antenna, 440-490 MHz (PMAE4070)	N/C
QA02301	UHF Stubby Antenna, 470-512 MHz (PMAE4071)	N/C
H112	Omit Antenna	-\$3.50

STEP 4:

Shipping Box Options:

STDBOX0867	Standard Model Box	N/C
H415	Bulk Packaging (minimum 10 units per line item)	N/C

The XPR Series portables ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

STEP 5:

Essential Software Options:

STDSMA0771	Standard 5 Year SMA and Software Features	N/C
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Essential Repair Options:

STDESS0867	5 Year Essential Repair	N/C
QA00867	Delete Essential Repair (2 Year Warranty Only)	-\$18.33
HA00664	ADD: 5 Year Accidental Damage	\$160.00

Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

XPR™ 3500e
VHF & UHF PORTABLES
OPTIONS

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
General Options:		
Accessories		
QA02772	IMPRES Noise-Cancelling RSM w/3.5mm Audio Jack (PMMN4071)	\$85.00
QA02773	IMPRES Windporting RSM w/3.5mm Audio Jack (PMMN4073)	\$80.00
QA02774	2-Wire Surveillance Kit Black with Translucent Tube (PMLN7269)	\$38.00
QA02775	2-Wire Surveillance Kit Beige with Translucent Tube (PMLN5726)	\$38.00
Premium Software Features:		
HKVN4084	MOTOTRBO Enhanced Privacy	\$50.00
HKVN4154	MOTOTRBO IP Site Connect	\$83.00
HKVN4271	MOTOTRBO Digital Telephone Interconnect	\$33.50
HKVN4412	Bluetooth 2.0 / 4.0 LE Audio License	\$50.00
HKVN4249	Bluetooth Data & Discoverable Mode	\$50.00
HKVN4413	MOTOTRBO License Capacity Plus (Single Site)	\$83.00
HKVN4414	MOTOTRBO License Capacity Plus (Multi-Site)	\$83.00
HKVN4381	MOTOTRBO License Wi-Fi	\$125.00
HKVN4373	MOTOTRBO License Enhanced Noise Cancellation (SINC+)	\$3.50
HKVN4085	MOTOTRBO Transmit Interrupt	\$50.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50

SL 3500e Portable UHF & VHF - 6.25e/12.5 kHz

Standard Package Includes:

- Standard Battery - Li-Ion, 2200 mAh (PMNN4468)
- Standard Charger - Micro-USB Wall Charger (25009298001)
- UHF or VHF Antenna (must select appropriate option)
- Standard Carry Holster (PMLN7190)
- Battery Door Cover (PMLN7074)
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	128
Display	OLED
Keypad	Limited
Menu Navigation Buttons	N/A
Side Programmable Buttons	1
Front Programmable Buttons	2
Top Channel Knob Positions	Toggle (+ & -)
Top Programmable (Orange) Button	N/A
Ingress Protection Rating	IP54

Enhanced Radio Features:

GPS	N/A
Expansion Card	N/A
Third Party Applications	N/A
Intrinsically Safe Option	N/A
WiFi	Optional

Premium Software Features Included in Essential Services:

Bluetooth Audio	5 Years
Bluetooth Data	5 Years
Digital Telephony	5 Years
Enhanced Privacy	5 Years
Transmit Interrupt	5 Years
Enhanced Noise Cancellation (SINC+)	5 Years
Mute Mode	5 Years
Receive Audio Leveling	5 Years
Indoor Location	N/A
Man Down	N/A
Multi-Button PTT	N/A
Text to Speech	N/A
Transmit Inhibit	N/A

Systems Supported:

Analog Conventional	Yes
Digital Conventional	Yes
IP Site Connect	Optional
Capacity Plus	Optional



Linked Capacity Plus	Optional
Connect Plus	N/A
Capacity Max	N/A
LTR/PassPort	N/A

Notes:

5 Years = included for 5 years as part of Essential Software Service Package

**SL 3500e Portable
UHF & VHF - 6.25e/12.5 kHz**

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
136-174 MHz	VHF	3W (D) 2W (A)	128	AAH88JCD9SA2AN	SL 3500e 136-174 3W LKP BT WiFi CAPABLE	\$729.22				
403-470 MHz	UHF	3W (D) 2W (A)	128	AAH88YCD9SA2AN	SL 3500e 403-470 3W LKP BT WiFi CAPABLE	\$770.88				

2W 470-480 MHz

FCC INFORMATION VHF: AZ489FT7097 / UHF: AZ489FT096

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH STEP

			STEP 1:	
Battery Options:				
STDBAT0130	Standard Battery - Li-Ion, 2200 mAh (PMNN4468)			\$0.00
			STEP 2:	
Charger Options:				
STDCHG0130	Standard Charger - Micro-USB Wall Charger (25009298001)			\$0.00
QA04770	Drop-In Single Unit Charger (PMLN7109)			\$25.00
H951	Omit Standard Charger			-\$5.00
			STEP 3:	
Antenna Options - You MUST choose one:				
VHF Antenna Options:				
QA04760	VHF Stubby Antenna, 136-144MHz 5cm (PMAD4144)			\$0.00
QA04761	VHF Stubby Antenna, 144-156MHz 5cm (PMAD4145)			\$0.00
QA04762	VHF Stubby Antenna, 156-174MHz 5cm (PMAD4146)			\$0.00
UHF Antenna Options:				
QA04763	UHF Stubby Antenna, 403-425MHz 4.5cm (PMAE4093)			\$0.00
QA04764	UHF Stubby Antenna, 420-445MHz 4.5cm (PMAE4094)			\$0.00
QA04765	UHF Stubby Antenna, 435-470MHz 4.5cm (PMAE4095)			\$0.00
Other Antenna Options:				
H112	Omit Antenna			-\$3.50
			STEP 4:	
Shipping Box Options:				
STDBOX0130	Standard Model Box			\$0.00
H415	Bulk Packaging (minimum 10 units per line item)			\$0.00
Carrying Options:				
STDBLT0130	Standard Swivel Carry Holster (PMLN7190)			\$0.00
QA04882	ALT: Flexible Hand Strap (PMLN7076)			\$7.50
QA04883	ALT: Nylon Wrist Strap (PMLN6074)			\$5.00
H301	Omit Swivel Carry Holster			-\$3.50
			STEP 5:	

The SL 3500e portables ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

Essential Repair Options:

STDESS0130	5 Year Essential Repair	N/C
QA00130	Delete Essential Repair (2 Year Warranty Only)	-\$18.33
HA00664	ADD: 5 Year Accidental Damage	\$160.00

Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

General Accessory Options:

QA04755AA	SWIVEL EARPIECE WITH MIC/PTT (PMLN7189A)	\$22.00
QA04756AA	D-STYLE EARPIECE WITH MIC/PTT (PMLN7159A)	\$38.00
QA04757AA	SWIVEL EARBUD EARPIECE WITH MIC/PTT (PMLN7156A)	\$20.00

Premium Software Features:

HKVN4084	MOTOTRBO Enhanced Privacy	\$50.00
HKVN4154	MOTOTRBO IP Site Connect	\$83.00
HKVN4271	MOTOTRBO Digital Telephone Interconnect	\$33.50
HKVN4412	Bluetooth 2.0 / 4.0 LE Audio License	\$50.00
HKVN4249	Bluetooth Data & Discoverable Mode	\$50.00
HKVN4413	MOTOTRBO License Capacity Plus (Single Site)	\$83.00
HKVN4414	MOTOTRBO License Capacity Plus (Multi-Site)	\$83.00
HKVN4381	MOTOTRBO License Wi-Fi	\$125.00
HKVN4373	MOTOTRBO License Enhanced Noise Cancellation (SINC+)	\$3.50
HKVN4085	MOTOTRBO Transmit Interrupt	\$50.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50

XPR™ 7350e & XPR™ 7380e VHF,UHF & 800/900MHz PORTABLES 6.25e/12.5 kHz

Standard Package Includes:

- For ENABLED Models, IMPRES LIION IP68 3000T (PMNN4493A, includes Belt Clip PMLN7008A)
- For CAPABLE Models, IMPRES LIION IP68 2100T (PMNN4491A, includes Belt Clip PMLN7008A)
- IMPRES™ Single-Unit Charger CEC Compliant (PMPN4174A)
- UHF, VHF , 800/900 MHz Antenna (must select appropriate option)
- Accessory Dust Cover
- 5 Year Essential Repair and Software

Main Radio Features:

	Capable	Enabled
Max. Number of Channels	32	32
Display	N/A	N/A
Keypad	N/A	N/A
Menu Navigation Buttons	N/A	N/A
Side Programmable Buttons	3	3
Front Programmable Buttons	N/A	N/A
Top Channel Knob Positions	16	16
Top Programmable (Orange) Button	Yes	Yes
Ingress Protection Rating	IP68	IP68

Enhanced Radio Features:

	Capable	Enabled
GPS	Yes	Yes
Expansion Card	Yes	Yes
Third Party Applications	Yes	Yes
Intrinsically Safe Option	Optional	Optional
WiFi	Optional	Yes

Premium Software Features Included in Essential Services:

	Capable	Enabled
Bluetooth Audio	Yes	Yes
Bluetooth Data	5 Years	Yes
Digital Telephony	Yes	Yes
Enhanced Privacy	Yes	Yes
Transmit Interrupt	Yes	Yes
Enhanced Noise Cancellation (SINC+)	5 Years	5 Years
Mute Mode	5 Years	5 Years
Receive Audio Leveling	5 Years	5 Years
Indoor Location	5 Years	5 Years
Man Down	5 Years	5 Years
Multi-Button PTT	5 Years	5 Years
Text to Speech	5 Years	5 Years
Transmit Inhibit	5 Years	5 Years



Systems Supported:

	Capable	Enabled
Analog Conventional	Yes	Yes
Digital Conventional	Yes	Yes
IP Site Connect	Yes	Yes
Capacity Plus	Yes	Yes
Linked Capacity Plus	Yes	Yes
Connect Plus	Optional	Yes
Capacity MAX	Optional	Yes
LTR/PassPort	N/A	N/A
WAVE OnCloud	Yes	Yes

For Wave OnCloud device registration, please visit: www.waveoncloud.com

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

2. The XPR 7000e series requires the PMKN4012B Programming Cable or PMKN4013C Programming and Test/Aligning Cable

Frequencies Not Allowed for XPR 7500e and XPR7300e			
VHF	UHF		800/900MHz
138 MHz	417.6 MHz	499.2 MHz	864 MHz
139.2 MHz	422.4 MHz	500 MHz	936 MHz
144 MHz	427.2 MHz	504 MHz	940.8 MHz
148.8 MHz	432 MHz	504.32 MHz	
150 MHz	436.8 MHz	505.345 MHz	
151.17 MHz	456 MHz	508.8 MHz	
153.6 MHz	460.8 MHz	512 MHz	
154.62 MHz	480 MHz ± 5kHz	514.56 MHz	
156 MHz	484.8 MHz	518.4 MHz	
158.4 MHz	489.6 MHz	519.25 MHz	
160 MHz		520 MHz	
162 MHz			
163.2 MHz			
168 MHz			
172.8 MHz			
174 MHz			
154.62 MHz			

**XPR™ 7350e & XPR™ 7380e
VHF, UHF & 800/900MHz PORTABLES
OPTIONS**

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
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XPR™ 7350e & XPR 7380e Non-Display, GPS, Bluetooth, Expansion Card - CAPABLE Models

136-174 MHz	VHF	1W to 5W (ships 5W)	32	AAH56JDC9WA1AN	XPR 7350e NKP GPS GOB BT WiFi CAPABLE	\$ 1,160.72				
403-512 MHz	UHF	1W to 4W (ships 4W)	32	AAH56RDC9WA1AN	XPR 7350e NKP GPS GOB BT WiFi CAPABLE	\$ 1,202.38				
806-941 MHz	800/900	1W to 2.5W (ships 2.5W)	32	AAH56UCC9WB1AN	XPR 7380e NKP GPS GOB BT WiFi CAPABLE	\$ 1,202.38				

XPR™ 7350e & XPR 7380e Non-Display, GPS, Bluetooth, Expansion Card - ENABLED Models

136-174 MHz	VHF	1W to 5W (ships 5W)	32	AAH56JDC9RA1AN	XPR 7350e NKP GPS BT WiFi GOB ENABLED	\$ 1,300.15			
403-512 MHz	UHF	1W to 4W (ships 4W)	32	AAH56RDC9RA1AN	XPR 7350e NKP GPS BT WiFi GOB ENABLED	\$ 1,347.35			
806-941 MHz	800/900	1W to 2.5W (ships 2.5W)	32	AAH56UCC9RB1AN	XPR 7380e NKP GPS BT WiFi GOB ENABLED	\$ 1,347.35			

FCC INFORMATION VHF: AZ489FT7066, UHF: AZ489FT7065, 800/900: AZ489FT7067

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

STEP 1:

Battery Options For Capable Models

STDBAT0871	VHF/UHF - Standard Battery - IMPRES LIION IP68 2100mAh (PMNN4491A with Belt Clip)	N/C
STDBAT0126	800/900 - Standard Battery - IMPRES LIION IP68 2100mAh (PMNN4491A with Belt Clip)	N/C
QA06102	VHF/UHF IMPRES Li-Ion Battery 3000mAh IP68 (PMNN4493A with Belt Clip)	\$66.67
QA04060	800/900 - Li-Ion Battery IMPRES 3000mAh IP68 (PMNN4493A with Belt Clip)	\$66.67
QA04070	IMPRES Li-Ion Battery 3000mAh IP68 with Vibrating Alert Belt Clip (PMNN4488A)	\$75.00
QA04950	IMPRES Li-Ion Battery TIA4950 IP68 2900T (PMNN4489A with Belt Clip)*	\$79.50

Battery Options For Enabled Models

STDBAT0871	VHF/UHF - Standard Battery - IMPRES LIION IP68 3000mAh (PMNN4493A with Belt Clip)	N/C
STDBAT0126	800/900 - Standard Battery - IMPRES LIION IP68 3000mAh (PMNN4493A with Belt Clip)	N/C
QA02300	800/900 - Li-Ion Battery IMPRES 2100mAh IP68 (PMNN4491A with Belt Clip)	N/C
QA06102	VHF/UHF Li-Ion Battery IMPRES 2100mAh IP68 (PMNN4491A with Belt Clip)	N/C
QA04070	Li-Ion Battery IMPRES 3000mAh IP68 with Vibrating Alert Belt Clip (PMNN4488A)	\$75.00
QA04950	Li-Ion Battery IMPRES LIION TIA4950 IP68 2900T (PMNN4489A with Belt Clip)*	\$79.50

* The XPR 3300e, XPR 3500e, XPR 7350e, XPR 7550e, XPR7380e and XPR7580e portable radios MUST be ordered and shipped from Motorola with UL option QA04950 for the radios to be properly processed, certified and labeled as UL Approved in accordance with US and Canada Codes as Intrinsically Safe for use in Division 1, Division 2, Class 1, Group A, B, C, D, Class I Groups C, D, Class II Group E, F, G and Class III hazardous locations.

HAZ LOC certified by UL to standards ANSI/TIA 4950 and CAN/CSA C22.2 NO. 157-92.
 Classification Rating Division 1, Class I, Groups C, D; Class II Group E, F, G; Class III. T3C.
 Tamb = -25 °C to +60 °C, and Classification Rating Division 2, Class I, Groups A, B, C, D.
 Intrinsically Safe when used with Motorola Battery PMNN4489A

STEP 2:

Charger Options:

STDCHG0807 (U/V) STD Standard Charger - IMPRES Single Unit Charger CEC Compliant (PMPN4174)	N/C
H951 Omit Standard Charger	-\$20.00

STEP 3:

Antenna Options - You MUST choose one:

VHF Antenna Options

QA02299	VHF Helical Antenna 136-155 MHz (PMAD4117)	N/C
QA02308	VHF Helical Antenna 144-165 MHz (PMAD4116)	N/C
QA02310	VHF Helical Antenna 152-174 MHz (PMAD4118)	N/C
QA02307	VHF Stubby Antenna 136-148 MHz (PMAD4119)	N/C
QA02305	VHF Stubby Antenna 160-174 MHz (PMAD4121)	N/C
QA02306	VHF Stubby Antenna 146-160 MHz (PMAD4120)	N/C
UHF Antenna Options:		
QA02304	UHF Slim Whip Antenna 403-527 MHz (PMAE4079)	N/C
QA02303	UHF Stubby Antenna 403-450 MHz (PMAE4069)	N/C
QA02302	UHF Stubby Antenna 440-490 MHz (PMAE4070)	N/C
QA02301	UHF Stubby Antenna 470-512 MHz (PMAE4071)	N/C
800/900 Antenna Options:		
QA01915	800MHz Whip Antenna 806-870 MHz (PMAF4011)	N/C
QA01916	900MHz Whip Antenna 896-941 MHz (PMAF4012) *	N/C
QA01419	800 MHz Stubby Antenna 806-870 MHz 12cm (PMAF4009)	N/C
QA01420	900 MHz Stubby Antenna 896-941 MHz 11cm (PMAF4010) *	N/C
* Note: This antenna is optimized for 900 MHz but can be used for mixed 800 &900 MHz channels or sites.		
H112	Omit Standard Antenna	-\$3.50

**XPR™ 7350e & XPR™ 7380e
VHF,UHF & 800/900MHz PORTABLES
OPTIONS**

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
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STEP 4:

Shipping Box Options:

STDBOX0807 (U/V)STD Standard Model Box	N/C
H415 Bulk Packaging (minimum 10 units per line item)	N/C

STEP 5:

The XPR Series portables ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771 Standard 5 Year SMA and Software Features	N/C
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Essential Repair Options:

STDESS0807 (U/V)STDI 5 Year Essential Repair	N/C
QA00807 (U/V)QA001 Delete Essential Repair (2 Year Warranty Only)	-\$26.67
HA00663 ADD: 5 Year Accidental Damage Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile	\$184.00

subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

MOTOTRBO Connect Plus Trunking Operation:		MSRP
	MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides enhanced performance, productivity and value for two way radio users. Please refer to the XRC 9000 Controller section (under Fixed Equipment) for more information on how to order Connect Plus trunking systems.	
QA02005	Connect Plus Trunking Operation For Enabled Models Only Includes factory loading of the Connect Plus firmware application. Connect Plus license is enabled by default.	\$0.00
QA02005	Connect Plus Trunking Operation, Only for Capable Models Includes factory loading of the Connect Plus firmware application. License HKLN4457A is required to Register and Activate the Connect Plus functionality in the radio and must be purchased separately from the QA00588 option (see details below).	\$116.66
HLN4457	Connect Plus Trunking License, Only needed for Capable Models An Entitlement ID (EID) will be delivered via e mail to the address specified during order placement. Register and Activate the Connect Plus license in the MOTOTRBO Connect Plus capable radios using MOTOTRBO CPS (version 12.0 or higher). Registration requires an internet connection. Multiple licenses can be ordered under the same line item.	\$50.00
	Notes: 1. Option QA02005 applicable only to MOTOTRBO digital capable models. 2. Option QA02005 requires MOTOTRBO CPS version 12.0 or higher. 3. Option QA02005 requires MOTOTRBO Option Board CPS (available in MOL Resource Center at no cost). 4. Connect Plus Trunking Operation requires: a. MOTOTRBO digital firmware release R02.06.30 or higher (included with factory option QA02005) b. MOTOTRBO expansion card (included in all XPR7000's by default) c. Connect Plus software (included with factory option QA02005) d. Connect Plus software license (order HLN4457 separately) 5. Please refer to the Fixed Equipment section for Connect Plus Trunking system information. 6. Please refer to the Connect Plus System Planner and your Motorola COEE team representative for pre sale support and system design considerations	
General Options:		
QA00505	IMPRES Remote Speaker Microphone with 3.5mm Audio Jack (PMMN4025)	\$90.00
QA00506	Submersible (IP57) Remote Speaker Microphone (PMMN4040)	\$75.00
QA02817	Noise Cancelling - Intrinsicly Safe (UL) Remote Speaker Microphone with 3.5mm Audio Jack (PMMN4050)	\$95.00
QA00507	Lightweight Headset (RMN5058)	\$99.00
QA00508	IMPRES 2-Wire Surveillance Kit with Clear Comfortable Acoustic Tube, Black, (PMLN6129)	\$122.00
QA00509	IMPRES 2-Wire Surveillance Kit with Clear Comfortable Acoustic Tube, Beige, (PMLN6130)	\$122.00

**XPR™ 7350e & XPR™ 7380e
VHF,UHF & 800/900MHz PORTABLES
OPTIONS**

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
Premium Software Features (CAPABLE):		
HKVN4323	MOTOTRBO Capacity Max FULL Subscriber License	\$167.00
HKVN4381	MOTOTRBO License Wi-Fi	\$125.00
HKVN4249	MOTOTRBO Bluetooth Data and Discoverable Mode	\$50.00
HKVN4432	MOTOTRBO License Indoor Location	\$83.33
HKVN4281	MOTOTRBO Text to Speech	\$10.00
HKVN4373	MOTOTRBO License Enhanced Noise Cancellation (SINC+)	\$3.50
HKVN4179	MOTOTRBO Built In Man Down	\$70.00
HKVN4072	Connect Plus Man Down	\$70.00
HKVN4280	MOTOTRBO Multi-Button PTT	\$83.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50
HKVN4384	Authenticated Radio Disable (Required for Target Radio Only)	\$3.50
HKVN4385	Transmit Inhibit	\$3.50
Premium Software Feature (ENABLED):		
HKVN4432	MOTOTRBO License Indoor Location	\$83.33
HKVN4281	MOTOTRBO Text to Speech	\$10.00
HKVN4373	MOTOTRBO License Enhanced Noise Cancellation (SINC+)	\$3.50
HKVN4179	MOTOTRBO Built In Man Down	\$70.00
HKVN4072	Connect Plus Man Down	\$70.00
HKVN4280	MOTOTRBO Multi-Button PTT	\$83.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50
HKVN4384	Authenticated Radio Disable (Required for Target Radio Only)	\$3.50
HKVN4385	Transmit Inhibit	\$3.50

XPR™ 7550e & XPR™ 7580e VHF,UHF & 800/900MHz PORTABLES 6.25e/12.5 kHz

Standard Package Includes:

- For ENABLED Models, IMPRES LIION IP68 3000T (PMNN4493A, includes Belt Clip PMLN7008A)
- For CAPABLE Models, IMPRES LIION IP68 2100T (PMNN4491A, includes Belt Clip PMLN7008A)
- IMPRES™ Single-Unit Charger CEC Compliant (PMPN4174A)
- UHF, VHF , 800/900 MHz Antenna (must select appropriate option)
- Accessory Dust Cover
- 5 Year Essential Repair and Software

Main Radio Features:

	Capable	Enabled
Max. Number of Channels	1,000	1,000
Display	Color	Color
Keypad	Full	Full
Menu Navigation Buttons	Yes	Yes
Side Programmable Buttons	3	3
Front Programmable Buttons	2	2
Top Channel Knob Positions	Continuous	Continuous
Top Programmable (Orange) Button	Yes	Yes
Ingress Protection Rating	IP68	IP68

Enhanced Radio Features:

	Capable	Enabled
GPS	Yes	Yes
Expansion Card	Yes	Yes
Third Party Applications	Yes	Yes
Intrinsically Safe Option	Optional	Optional
WiFi	Optional	Yes

Premium Software Features Included in Essential Services:

	Capable	Enabled
Bluetooth Audio	Yes	Yes
Bluetooth Data	5 Years	Yes
Digital Telephony	Yes	Yes
Enhanced Privacy	Yes	Yes
Transmit Interrupt	Yes	Yes
Enhanced Noise Cancellation (SINC+)	5 Years	5 Years
Mute Mode	5 Years	5 Years
Receive Audio Leveling	5 Years	5 Years
Indoor Location	5 Years	5 Years
Man Down	5 Years	5 Years
Multi-Button PTT	5 Years	5 Years
Text to Speech	5 Years	5 Years
Transmit Inhibit	5 Years	5 Years

Systems Supported:

Capable Enabled





Analog Conventional	Yes	Yes
Digital Conventional	Yes	Yes
IP Site Connect	Yes	Yes
Capacity Plus	Yes	Yes
Linked Capacity Plus	Yes	Yes
Connect Plus	Optional	Yes
Capacity MAX	Optional	Yes
LTR/PassPort	Optional	Optional
WAVE OnCloud	Yes	Yes

For Wave OnCloud device registration, please visit: www.waveoncloud.com

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

The XPR 7000e series requires the PMKN4012B Programming Cable or PMKN4013C Programming and Test/Aligning Cable

Frequencies Not Allowed for XPR 7500e and XPR7300e			
VHF	UHF		800/900MHz
138 MHz	417.6 MHz	499.2 MHz	864 MHz
139.2 MHz	422.4 MHz	500 MHz	936 MHz
144 MHz	427.2 MHz	504 MHz	940.8 MHz
148.8 MHz	432 MHz	504.32 MHz	
150 MHz	436.8 MHz	505.345 MHz	
151.17 MHz	456 MHz	508.8 MHz	
153.6 MHz	460.8 MHz	512 MHz	
154.62 MHz	480 MHz + 5kHz	514.56 MHz	
156 MHz	484.8 MHz	518.4 MHz	
158.4 MHz	489.6 MHz	519.25 MHz	
160 MHz		520 MHz	
162 MHz			
163.2 MHz			
168 MHz			
172.8 MHz			
174 MHz			
154.62 MHz			

**XPR™ 7550e & XPR™ 7580e
VHF, UHF & 800/900MHz PORTABLES
OPTIONS**

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
XPR™ 7550e & XPR 7580e Display with Color Display, GPS, Bluetooth, Expansion Card - CAPABLE Models										
136-174 MHz	VHF	1W to 5W (ships 5W)	1000	AAH56JDN9WA1AN	XPR 7550e FKP GPS GOB BT WiFi CAPABLE	\$1,244.05				
403-512 MHz	UHF	1W to 4W (ships 4W)	1000	AAH56RDN9WA1AN	XPR 7550e FKP GPS GOB BT WiFi CAPABLE	\$1,285.72				
806-941 MHz	800/900	1W to 2.5W (ships 2.5W)	1000	AAH56UCN9WB1AN	XPR 7580e FKP GPS GOB BT WiFi CAPABLE	\$1,285.72				
XPR™ 7550e & XPR 7580e Display with Color Display, GPS, Bluetooth, Expansion Card - ENABLED Models										
136-174 MHz	VHF	1W to 5W (ships 5W)	1000	AAH56JDN9RA1AN	XPR 7550e FKP GPS BT WiFi GOB ENABLED	\$1,394.57				
403-512 MHz	UHF	1W to 4W (ships 4W)	1000	AAH56RDN9RA1AN	XPR 7550e FKP GPS BT WiFi GOB ENABLED	\$1,441.77				
806-941 MHz	800/900	1W to 2.5W (ships 2.5W)	1000	AAH56UCN9RB1AN	XPR 7580e FKP GPS BT WiFi GOB ENABLED	\$1,441.77				

FCC INFORMATION VHF: AZ489FT7066, UHF: AZ489FT7065, 800/900: AZ489FT7067

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

STEP 1:

Battery Options For Capable Models

STDBAT0871	VHF/UHF - Standard Battery - IMPRES LIION IP68 2100mAh (PMNN4491A with Belt Clip)	N/C
STDBAT0126	800/900 - Standard Battery - IMPRES LIION IP68 2100mAh (PMNN4491A with Belt Clip)	N/C
QA06102	VHF/UHF IMPRES Li-Ion Battery 3000mAh IP68 (PMNN4493A with Belt Clip)	\$66.67
QA04060	800/900 - Li-Ion Battery IMPRES 3000mAh IP68 (PMNN4493A with Belt Clip)	\$66.67
QA04070	IMPRES Li-Ion Battery 3000mAh IP68 with Vibrating Alert Belt Clip (PMNN4488A)	\$75.00
QA04950	IMPRES Li-Ion Battery TIA4950 IP68 2900T (PMNN4489A with Belt Clip)*	\$79.50

Battery Options For Enabled Models

STDBAT0871	VHF/UHF - Standard Battery - IMPRES LIION IP68 3000mAh (PMNN4493A with Belt Clip)	N/C
STDBAT0126	800/900 - Standard Battery - IMPRES LIION IP68 3000mAh (PMNN4493A with Belt Clip)	N/C
QA02300	800/900 - Li-Ion Battery IMPRES 2100mAh IP68 (PMNN4491A with Belt Clip)	N/C
QA04060	VHF/UHF - Li-Ion Battery IMPRES 2100mAh IP68 (PMNN4491A with Belt Clip)	N/C
QA04070	Li-Ion Battery IMPRES 3000mAh IP68 with Vibrating Alert Belt Clip (PMNN4488A)	\$75.00
QA04950	Li-Ion Battery IMPRES LIION TIA4950 IP68 2900T (PMNN4489A with Belt Clip)*	\$79.50

* The XPR 3300e, XPR 3500e, XPR 7350e, XPR 7550e, XPR7380e and XPR7580e portable radios MUST be ordered and shipped from Motorola with UL option QA04950 for the radios to be properly processed, certified and labeled as UL Approved in accordance with US and Canada Codes as Intrinsically Safe for use in Division 1, Division 2, Class 1, Group A, B, C, D, Class I Groups C, D, Class II Group E, F, G and Class III hazardous locations.

HAZ LOC certified by UL to standards ANSI/TIA 4950 and CAN/CSA C22.2 NO. 157-92.

Classification Rating Division 1, Class I, Groups C, D; Class II Group E, F, G; Class III. T3C.

Tamb = -25 °C to +60 °C, and Classification Rating Division 2, Class I, Groups A, B, C, D.

Intrinsically Safe when used with Motorola Battery PMNN4489A

STEP 2:

Charger Options:

STDCHG0871 (U/V)STD Standard Charger - IMPRES Single Unit Charger CEC Compliant (PMPN4174)	N/C
H951 Omit Standard Charger	-\$20.00

STEP 3:

Antenna Options - You MUST choose one:

VHF Antenna Options

QA02299	VHF Helical Antenna 136-155 MHz (PMAD4117)	N/C
QA02308	VHF Helical Antenna 144-165 MHz (PMAD4116)	N/C
QA02310	VHF Helical Antenna 152-174 MHz (PMAD4118)	N/C
QA02307	VHF Stubby Antenna 136-148 MHz (PMAD4119)	N/C
QA02305	VHF Stubby Antenna 160-174 MHz (PMAD4121)	N/C
QA02306	VHF Stubby Antenna 146-160 MHz (PMAD4120)	N/C

UHF Antenna Options:

QA02304	UHF Slim Whip Antenna 403-527 MHz (PMAE4079)	N/C
QA02303	UHF Stubby Antenna 403-450 MHz (PMAE4069)	N/C
QA02302	UHF Stubby Antenna 440-490 MHz (PMAE4070)	N/C

QA02301	UHF Stubby Antenna 470-512 MHz (PMAE4071)	N/C
800/900 Antenna Options:		
QA01915	800MHz Whip Antenna 806-870 MHz (PMAF4011)	N/C
QA01916	900MHz Whip Antenna 896-941 MHz (PMAF4012) *	N/C
QA01419	800 MHz Stubby Antenna 806-870 MHz 12cm (PMAF4009)	N/C
QA01420	900 MHz Stubby Antenna 896-941 MHz 11cm (PMAF4010) *	N/C
	* Note: This antenna is optimized for 900 MHz but can be used for mixed 800 & 900 MHz channels or sites.	
H112	Omit Standard Antenna	-\$3.50

**XPR™ 7550e & XPR™ 7580e
VHF, UHF & 800/900MHz PORTABLES
OPTIONS**

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
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STEP 4:

Shipping Box Options:

STDBOX0871 (U/V)	STD: Standard Model Box	N/C
H415	Bulk Packaging (minimum 10 units per line item)	N/C

STEP 5:

The XPR Series portables ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771	Standard 5 Year SMA and Software Features	N/C
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Essential Repair Options:

STDESS0871 (U/V)	STDE 5 Year Essential Repair	N/C
QA00871 (U/V)	QA001: Delete Essential Repair (2 Year Warranty Only)	-\$26.67
HA00663	ADD: 5 Year Accidental Damage Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.	\$184.00

MOTOTRBO Connect Plus Trunking Operation:

	MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides enhanced performance, productivity and value for two way radio users. Please refer to the XRC 9000 Controller section (under Fixed Equipment) for more information on how to order Connect Plus trunking systems.	MSRP
QA02005	Connect Plus Trunking Operation For Enabled Models Only Includes factory loading of the Connect Plus firmware application. Connect Plus license is enabled by default.	\$0.00

QA02005	<p>Connect Plus Trunking Operation, Only for Capable Models</p> <p>Includes factory loading of the Connect Plus firmware application.</p> <p>License HKLN4457A is required to Register and Activate the Connect Plus functionality in the radio and must be purchased separately from the QA02005 option (see details below).</p>	\$116.66
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HKLN4457	<p>Connect Plus Trunking License, Only needed for Capable Models</p> <p>An Entitlement ID (EID) will be delivered via e mail to the address specified during order placement. Register and Activate the Connect Plus license in the MOTOTRBO Connect Plus capable radios using MOTOTRBO CPS (version 12.0 or higher). Registration requires an internet connection. Multiple licenses can be ordered under the same line item.</p>	\$50.00
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Notes:

1. Option QA02005 applicable only to MOTOTRBO digital capable models.
2. Option QA02005 requires MOTOTRBO CPS version 12.0 or higher.
3. Option QA02005 requires MOTOTRBO Option Board CPS (available in MOL Resource Center at no cost).
4. Connect Plus Trunking Operation requires:
 - a. MOTOTRBO digital firmware release R02.06.30 or higher (included with factory option QA02005)
 - b. MOTOTRBO expansion card (included in all XPR7000's by default)
 - c. Connect Plus software (included with factory option QA02005)
 - d. Connect Plus software license (order HKLN4457 separately)
5. Please refer to the Fixed Equipment section for Connect Plus Trunking system information.
6. Please refer to the Connect Plus System Planner and your Motorola COEE team representative for pre sale support and system design considerations

General Options:

QA00505	IMPRES Remote Speaker Microphone with 3.5mm Audio Jack (PMMN4025)	\$90.00
QA00506	Submersible (IP57) Remote Speaker Microphone (PMMN4040)	\$75.00
QA02817	Noise Cancelling - Intrinsically Safe (UL) Remote Speaker Microphone with 3.5mm Audio Jack (PMMN4050)	\$95.00
QA00507	Lightweight Headset (RMN5058)	\$99.00
QA00508	IMPRES 2-Wire Surveillance Kit with Clear Comfortable Acoustic Tube, Black, (PMLN6129)	\$122.00
QA00509	IMPRES 2-Wire Surveillance Kit with Clear Comfortable Acoustic Tube, Beige, (PMLN6130)	\$122.00

XPR™ 7550e & XPR™ 7580e
VHF, UHF & 800/900MHz PORTABLES
OPTIONS

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
QA01839	<p>LTR/PassPort Enhanced Operation. Factory Installed. Includes built-in MOTOTRBO Expansion Card and installation of Scholer-Johnson software license.</p> <p>Notes:</p> <ol style="list-style-type: none">1) Scholer-Johnson LTR/PassPort application runs on the MOTOTRBO Expansion Card. The application is compatible with both Classic and Enhanced PassPort operation.2) Scholer-Johnson LTR/PassPort application requires winSJlppTRBO programming software.3) MOTOTRBO XPR 5500e/7500e series radios require firmware R02.06 version or higher.4) Scholer-Johnson LTR/PassPort application is available only for display portable and mobile models.5) Scholer-Johnson LTR/PassPort application is compatible with UL equipped portables.6) MDC signaling is not currently available in application's conventional or LTR modes of operation for XPR 5000e/7000e series radios.7) Quik Call II signaling is not currently available in application's conventional or LTR modes of operation.	\$72.00

SL 7550e / SL 7580e / SL 7590e
UHF1, UHF2, 800 MHz, 900 MHz PORTABLES
6.25e/12.5 kHz

Standard Package Includes:

- BT100x 2300T mAh Li-Ion Battery (PMNN4468)
- Micro USB Charger, Non-Vehicular (PMPN4009)
- Pre-Installed UHF 438-470MHz (PMAE4077), UHF2 450-490MHz (PMAE4091), 800 MHz (PMAF4017), or 900
- Carry Holder (PMLN5956)
- Quick Reference Guide/Safety Booklet (68009553001)
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	1000
Display - 5 Line Color Alphanumeric	Yes
Keypad	Yes
Menu Navigation Buttons	Yes
Side Programmable Buttons	N/A
Front Programmable Buttons	2
Top Channel Knob Positions	N/A
Side Programmable (Orange) Button	Yes
Ingress Protection Rating	IP54

Enhanced Radio Features:

GPS	N/A
Expansion Card	Yes
Third Party Applications	Yes
Intrinsically Safe Option	N/A
WiFi	Yes

Premium Software Features Included in Essential Services:

Bluetooth Audio	Yes
Bluetooth Data	Yes
Digital Telephony	Yes
Enhanced Privacy	Yes
Transmit Interrupt	Yes
Enhanced Noise Cancellation (SINC+)	5 Years
Mute Mode	5 Years
Receive Audio Leveling	5 Years
Indoor Location	5 Years
Man Down	5 Years
Multi-Button PTT	N/A
Text to Speech	5 Years
Transmit Inhibit	5 Years



Systems Supported:

Analog Conventional	N/A
Digital Conventional	Yes
IP Site Connect	Yes
Capacity Plus	Yes
Linked Capacity Plus	Yes
Connect Plus	Yes
Capacity MAX	Yes
LTR/PassPort	N/A
WAVE OnCloud	Yes

For Wave OnCloud device registration, please visit: www.waveoncloud.com

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

Self-quieter Frequencies					
UHF1		UHF2		800 MHz	900 MHz
403.200 MHz ± 5 kHz	439.200 MHz ± 5 kHz	451.200 MHz ± 5kHz	487.200 MHz ± 5kHz	852.000 MHz ± 5kHz	935.840 MHz ± 5kHz
405.600 MHz ± 5 kHz	440.000 MHz ± 5 kHz	453.600 MHz ± 5kHz	489.600 MHz ± 5kHz	853.335 MHz ± 5kHz	935.960 MHz ± 40kHz
408.000 MHz ± 5 kHz	441.600 MHz ± 5 kHz	455.000 MHz ± 5kHz	492.000 MHz ± 5kHz	854.320 MHz ± 5kHz	936.040 MHz ± 40kHz
410.400 MHz ± 5 kHz	444.000 MHz ± 5 kHz	456.000 MHz ± 5kHz	494.400 MHz ± 5kHz	854.400 MHz ± 5kHz	936.200 MHz ± 5kHz
412.800 MHz ± 5 kHz	446.400 MHz ± 5 kHz	459.800 MHz ± 5kHz	499.200 MHz ± 5kHz	854.480 MHz ± 5kHz	938.400 MHz ± 5kHz
415.200 MHz ± 5 kHz	448.800 MHz ± 5 kHz	460.800 MHz ± 5kHz	501.600 MHz ± 5kHz	856.800 MHz ± 5kHz	940.800 MHz ± 5kHz
417.600 MHz ± 5 kHz	451.200 MHz ± 5 kHz	465.600 MHz ± 5kHz	504.000 MHz ± 40kHz	859.200 MHz ± 5kHz	
420.000 MHz ± 5 kHz	456.000 MHz ± 5 kHz	467.840 MHz ± 40kHz	506.400 MHz ± 5kHz	862.000 MHz ± 5kHz	
422.400 MHz ± 5 kHz	460.800 MHz ± 5 kHz	468.040 MHz ± 40kHz	508.800 MHz ± 5kHz	863.960 MHz ± 5kHz	
424.800 MHz ± 5 kHz	465.600 MHz ± 5 kHz	468.160 MHz ± 40kHz	511.200 MHz ± 5kHz	864.040 MHz ± 40kHz	
427.200 MHz ± 5 kHz	467.960 MHz ± 40 kHz	470.400 MHz ± 5kHz	513.600 MHz ± 5kHz	866.400 MHz ± 5kHz	
429.600 MHz ± 5 kHz	468.040 MHz ± 40 kHz	472.800 MHz ± 5kHz	517.400 MHz ± 5kHz	868.800 MHz ± 5kHz	
431.960 MHz ± 40 kHz		475.200 MHz ± 5kHz	518.400 MHz ± 5kHz		
432.040 MHz ± 40 kHz		477.600 MHz ± 5kHz	520.000 MHz ± 5kHz		
434.400 MHz ± 5 kHz		480.000 MHz ± 5kHz	523.200 MHz ± 5kHz		
436.800 MHz ± 5 kHz		484.800 MHz ± 5kHz			

SL 7550e / SL 7580e / SL 7590e
UHF1, UHF2, 800 MHz, 900 MHz PORTABLES
6.25e/12.5 kHz

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
403-470 MHz	UHF1	3W	1000	AAH81QCN9TA2AN	SL7550e 403-480M 3W ENG FKP WiFi GOB ENABLED	\$1,441.77				
450-512 MHz	UHF2	3W	1000	AAH81TCN9TA2AN	SL7550e 450-512M 3W ENG FKP WiFi GOB ENABLED	\$1,441.77				
806-870 MHz	800	2W	1000	AAH81VCN9TB2AN	SL7580e 806-870M 2W ENG FKP WiFi GOB ENABLED	\$1,441.77				
896-941 MHz	900	2W	1000	AAH81WCN9TB2AN	SL7590e 896-941M 2W ENG FKP WiFi GOB ENABLED	\$1,441.77				

FCC INFORMATION UHF1: AZ489FT7072, UHF2: AZ489FT7073, 800: AZ489FT7074, 900: AZ489FT7075

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION FROM EACH STEP BELOW

STEP 1:

Battery Options:

STDBAT0682 (UHF) STD Standard Battery - BT100x 2300T mAh Li-Ion Battery (PMNN4468) and Cover N/C

STEP 2:

Charger Options:

STDCHG0682 (UHF) STD Standard Charger - Micro USB Charger, Non-Vehicular (PMPN4009) N/C
H951 Omit Standard Charger -\$8.00
QA02813 ADD: SL Series Tri-Unit Charger (PMLN6701) \$71.00

STEP 3:

Carry Holster Options:

STDBLT0682 (UHF) STD Standard Carry Holster (PMLN5956) N/C
H301 Omit Standard Carry Holder -\$5.00

STEP 4:

Shipping Box Options:

STDBOX0682 (UHF) STD Standard Model Box N/C
H415 Bulk Packaging (Minimum 10 units per line item) N/C

STEP 5:

The SL 7500e series ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771 Standard 5 Year SMA and Software Features N/C

Essential Repair Options:

STDESS0682 (UHF) STD 5 Year Essential Repair N/C
QA00682 (UHF) QA008 Delete Essential Repair (2 Year Warranty Only) -\$26.67
HA00663 ADD: 5 Year Accidental Damage \$184.00
Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

SL 7550e / SL 7580e / SL 7590e
UHF1, UHF2, 800 MHz, 900 MHz PORTABLES
6.25e/12.5 kHz

RESELLER PRICES

MOTOTRBO Connect Plus Trunking Operation:	MSRP
<p>MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides enhanced performance, productivity and value for two way radio users. Please refer to the XRC 9000 Controller section (under Fixed Equipment) for more information on how to order Connect Plus trunking systems.</p>	
QA02005 Connect Plus Trunking Operation Includes factory loading of the Connect Plus firmware application.	\$0.00

RFID-Enabled Knobs For MOTOTRBO™ and Analog Radios



GENERAL INFORMATION:

Motorola Solutions RFID enabled knobs for MOTOTRBO XPR7000e, XPR 3000e, CP200d and many legacy radios makes this process more efficient. RFID tags embedded in radio volume knobs enable quick, easy and reliable tracking of radios without the need for manual logging, scanning bar codes or opening the packaging. With RFID, a single radio or an entire crate can be scanned in seconds. Enterprise Value Added Partners like CDO Technologies and RFTrail offer complete RFID tracking solutions to make your radio inventory management more efficient.

RFID-ENABLED KNOBS:

Model	Description	List
36012030001	RFID Vol Knob, CP200d/CP/EX/HT/MTX/PR400 (Qty. 20)	\$ 215.00
36012032001	RFID Vol Knob, XPR 7000, XPR 7000e series (Qty. 20)	\$ 215.00
36012034001	RFID Vol Knob, XPR 3000, XPR 3000e series (Qty. 20)	\$ 215.00

Notes:

The RFID knobs are available only as Aftermarket Parts.

The RFID knobs are sold in quantities of 20.

One (1) Year Warranty.

RFID FLEET MANAGEMENT SOLUTIONS:

Any software solution will need to be provided by the customer

CALL BOX/RTU RF KITS

GENERAL INFORMATION:

The following kits include MOTOTRBO Next Generation XPR 7550e (VHF/UHF) and XPR 7580e (800/900) ENABLED portables intended for Call Box, Remote Terminal Units (RTU), such as Motorola ACE 1000, and other Supervisory Control and Data Acquisition (SCADA) applications. The portables provide an SubMiniature A (SMA) type antenna connector.

For radio integration into the Call Box/RTU please contact the specific call box/RTU manufacturer.

Operational on all MOTOTRBO systems. Antenna, battery, charger and belt clip are not included.

CALL BOX/RTU RF KITS

Model	Description	List
HK2079A	CALL BOX RF KIT "FKP PORT E VERSION" 5W 136-174 MHz	\$ 958.33
HK2080A	CALL BOX RF KIT "FKP PORT E VERSION" 4W 403-512 MHz	\$ 958.33
HK2081A	CALL BOX RF KIT "FKP PORT E VERSION" 2.5W 800/900 MHz	\$ 958.33

**APX™ 1000
VHF & UHF PORTABLES
12.5/20/25 kHz**

Standard Package Includes:

- IMPRES LIION 1900 mAh Battery (NNTN8128)
 - ANTENNA (VHF: NAR6593, UHF: PMAE4065)
 - 2" Standard Belt Clip (PMLN4651)
 - Accessory Dust Cover
 - 12 Month Manufacturer's Warranty
- NOTE: Additional service package is required with purchase
- APX1000 Chargers must be purchased separately
 - PMPN4174 IMPRES Single Unit Charger
 - WPLN4212 IMPRES Multi Unit Charger with 1 Display
 - WPLN4219 IMPRES Multi Unit Charger with Displays

Main Radio Features:

	Model 1.5	Model 2
Max. Number of Channels	512	512
Display	Yes	Yes
Keypad	3 Soft Keys	Limited
Menu Navigation Buttons	Yes	Yes
Side Programmable Buttons	3	3
Front Programmable Buttons	3	3
Top Channel Knob Positions	Continuous	Continuous
Top Programmable (Orange) Button	Yes	Yes
Ingress Protection Rating	IP54	IP54

Enhanced Radio Features:

	Model 1.5	Model 2
GPS	Yes	Yes
Intrinsically Safe Option	N/A	N/A
Accessory Port	GCAI	GCAI
Smart PTT	Yes	Yes
Selective Radio Inhibit	Yes	Yes

Operation Modes:

	Model 1.5	Model 2
Analog and P25 Digital Conventional	Yes	Yes

Frequencies Not Allowed for APX™ 1000 VHF & UHF	
VHF	UHF
144.0000	384.0000
147.4500	385.0200
156.0000	393.2125
168.0000	407.8625
172.0250	417.7875



431.9875

442.3625

Within +/-25kHz of the specified frequency

**APX™ 1000
VHF & UHF PORTABLES
12.5/20/25 kHz**

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
APX™ 1000 VHF & UHF Model 1.5 & 2										
136-174 MHz	VHF	1W to 5W	512	H84KDD9PW5_N	APX 1000 Model 1.5	\$1,391.00				
136-174 MHz	VHF	1W to 5W	512	H84KDF9PW6_N	APX 1000 Model 2	\$1,597.00				
380-470 MHz	UHF R1	1W to 5W	512	H84QDD9PW5_N	APX 1000 Model 1.5	\$1,391.00				
380-470 MHz	UHF R1	1W to 5W	512	H84QDF9PW6_N	APX 1000 Model 2	\$1,597.00				
450-520 MHz	UHF R2	1W to 5W	512	H84SDD9PW5_N	APX 1000 Model 1.5	\$1,391.00				
450-520 MHz	UHF R2	1W to 5W	512	H84SDF9PW6_N	APX 1000 Model 2	\$1,597.00				

FCC INFORMATION VHF: AZ489FT3834, UHF1: AZ489FT4917, UHF2: AZ489FT4920

Options: TO COMPLETE AN ORDER PLEASE REVIEW EACH STEP ONLY ONE (1) CHOICE PER EACH STEP

Required

Operation Mode - You MUST Choose One:

All models ship standard with Analog Operation

QA04097 ENH: P25 Digital Conventional \$350.00

RESELLER	DESCRIPTION	MSRP
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Battery Options:

All models ship standard with IMPRES LIION 1900 mAh Battery (NNTN8128)

QA02749	IMPRES Li-Ion Battery 2300mAh (PMNN4424) Non-FM & Non-UL	\$85.00
QA04146	IMPRES Li-Ion Battery 2700mAh IP67 (PMNN4484AR) Non-FM & Non-UL	\$100.00
H207	DELETE BATTERY (NNTN8128)	-\$47.00

Antenna Options:

All models ship with a standard antenna based upon model selection (VHF: NAR6593 & UHF: PMAE4065)

QA02017	UHF2 GPS Stubby antenna (FAF5260)	\$55.00
H112	Delete Standard Antenna - Deletes the standard antenna (VHF: NAR6593 & UHF: PMAE4065)	-\$10.00

Belt Clip Options:

All models ship standard with a 2" Belt Clip (PMLN4651)

Q698	ADD: 2.5" Belt Clip (PMLN7008)	\$12.00
H301	Delete Standard 2" Belt Clip (PMLN4651)	-\$10.00

Programming & Data Cable:

Q157	APX Programming & Data Cable	\$75.00
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PMKN4012 - Used to program the radio with Customer Programming Software and Tuner Software.

PMKN4013 - Used to program and service the radio with customer Programming Software and Tuner Software.

Manual Options:

All models ship standard with a user guide CD

QA00205	Add: Data Link manager APP CD-Portables <i>Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.</i>	N/C
H88	Add: User guide APX1000 CD-ROM	\$25.00

Packaging Options:

All models ship standard with bulk packaging (up to 10 radios per box)

H842	Add: Single Unit Packaging	N/C
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Service Option Choices - You MUST Choose One

H885BK	3 Year Essential Services <i>Essential Service provides technical support, and repair coverage for internal and external components damaged due to a manufacturer's defect. This multi-year offer starts upon Device shipment and reduces unexpected expenses relating to the repair of the Device. Repairs will be made at the designated Motorola repair center. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola-on-Line return process. Devices covered under this service agreement receive service priority at the repair center, resulting in quicker repair times. No discounts are allowed on this option.</i>	\$90.00
Q887AT	5 Year Essential Services <i>Essential Service provides technical support, and repair coverage for internal and external components damaged due to a manufacturer's defect. This multi-year offer starts upon Device shipment and reduces unexpected expenses relating to the repair of the Device. Repairs will be made at the designated Motorola repair center. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola-on-Line return process. Devices covered under this service agreement receive service priority at the repair center, resulting in quicker repair times. No discounts are allowed on this option.</i>	\$162.00
HA00022AB	3 Year Essential Service with Accidental Damage <i>Essential Service with Accidental Damage provides technical support, and repair coverage for internal and external components damaged due to a manufacturer's defect, or due to water, chemical or physical damage. This multi-year offer starts upon Device shipment and reduces unexpected expenses relating to the repair of the Device. Repairs will be made at the designated Motorola repair center. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola-on-Line return process. Devices covered under this service agreement receive higher service priority at the repair depot, resulting in quicker repair times. No discounts are allowed on this option.</i>	\$234.00
HA00025AG	5 Year Essential Service with Accidental Damage	

Essential Service with Accidental Damage provides technical support, and repair coverage for internal and external components damaged due to a manufacturer's defect, or due to water, chemical or physical damage. This multi-year offer starts upon Device shipment and reduces unexpected expenses relating to the repair of the Device. Repairs will be made at the designated Motorola repair center. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola-on-Line return process. Devices covered under this service agreement receive higher service

\$360.00

RFID Enabled Volume Knob

QA04526

ADD: RFID Volume Knob

Compatible with APX4000/APX2000/APX1000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. Aftermarket purchase through parts department for fielded radios - Part Number NNTN8649.

\$25.00

See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management

HT750™
VHF & UHF MSHA PORTABLES
12.5 kHz

Life Cycle Notice Update: UHF1 model no longer available
VHF and UHF2 models available while supplies last

All HT750 portable models include:

- Standard Charger (120V Single Unit Rapid Rate Charger - AAHTN3000)
- Standard Antenna (LB NAB6064 / VHF NAD6502_R / UHF NAE6483_R)
- 2.5" Belt Clip (HLN9714)
- Dust Cover (HLN9820A)
- Two Year Warranty

Main Radio Features:

Max # of Channels	16
Display	N/A
Keypad	N/A
Menu Navigation Buttons	N/A
Side Programmable Buttons	3
Front Programmable Buttons	N/A
Top Channel Knob Positions	16
Top Programmable (Orange) Button	Yes
Ingress Protection Rating	IP54

Enhanced Radio Features:

Escalart Call Features	Yes
Intrinsically Safe Option	Optional
MSHA Option	Yes
MDC1200 Signalling	Yes
Option Board Expandability	Yes
Quik Call II Signalling	Decode
X-Pand™ Technology	Yes

Systems Supported:

Analog Conventional	Yes
Digital Conventional	N/A
LTR/PassPort	N/A
SmartNet / SmartZone	N/A
Privacy Plus	N/A

MSHA and Commonwealth of PA approved. See the below for more information.

The following frequencies are not allowed:

151.200	403.205	436.795	453.600	468.300	494.955	507.875
168.000	419.195	436.800	453.605	469.105	498.830	511.755
403.195	420.000	436.805	457.805	470.400	502.710	
403.200	420.005	453.595	459.905	483.320	504.000	



BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
136-174 MHz	VHF	1W to 5W (ships 5W)	16	AAH25KDC9AA3_N	HT750 136-174 MHz (MSHA)	\$933.33				
403-470 MHz	UHF1	1W to 4W (ships 4W)	16	AAH25RDC9AA3_N *	HT750 403-470 MHz (MSHA)	\$983.33				
450-512 MHz	UHF2	1W to 4W (ships 4W)	16	AAH25SDC9AA3_N	HT750 450-512 MHz (MSHA)	\$983.33				

FCC INFORMATION AZ489FT1625 (29.7-42/35-50 MHz) / AZ489FT3794 (136-174 MHz) / AZ489FT4826 (403-470 MHz) / AZ489FT4834 (450-512 MHz)

Note: * UHF1 model no longer available

VHF and UHF2 models available while supplies last

HT750™ VHF & UHF MSHA PORTABLES OPTIONS

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP			
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Intrinsically Safe (MSHA): Option QA01103 (NNTN7380) is rated Intrinsically Safe for use in Methane Air mixtures by the Mine Safety Health Administration (MSHA) and is Commonwealth of Pennsylvania approved for use in bituminous underground coal mines (by the Pennsylvania Bureau of Mines).

Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

STEP 1:

Battery Choices:

QA01103	NiMH, 1150 mAh, 7.2 V Battery - Intrinsically Safe (MSHA) (NNTN7380)	\$114.50
	<i>* (Not for use with LowBand models)</i>	

STEP 2:

Charger Choices:

STDCHG0672	Standard Charger (120V Single Unit Rapid Rate Charger - AAHTN3000)	N/C
H951	Omit 120 Volt Rapid Rate Charger	-\$20.00
QA00741	Single-Unit Charger with CEC Compliant Switch Mode Power Supply (PMLN5197)	\$8.00
IMPRES™ Charger:		
QA00061	IMPRES™ Single Unit Charger (WPLN4182)	\$35.00
QA00742	IMPRES Single-Unit Charger with CEC Compliant Switch Mode Power Supply (PMLN5198)	\$40.00

STEP 3:

Carry Holder Choices:

STDBLT0672	Standard Belt Clip (HLN9714)	N/C
H301	Omit Standard Belt Clip	-\$5.00

STEP 4:

Antenna Choices:

STDANT0672	Standard Antenna (LB NAB6064, VHF NAD6502_R & UHF NAE6483_R)	N/C
Q46	VHF 148-161 MHz ONLY Whip Antenna (Enhanced Perf., 7.5" - NAD6579)	N/C

QA00062	UHF 430-470 MHz Stubby Antenna (PMAE4003)	-\$2.00
H112	Omit Standard Antenna (LowBand, VHF & UHF)	-\$3.50

STEP 5:

Shipping Box Choices:

STDBOX0672	Standard Model Box	N/C
H415	Bulk Packaging (minimum 10 units per line item)	N/C

General Options:

		MSRP
QA00101	2-Wire Comfort Earpiece with Combined Microphone and PTT, Black. Surveillance Kits with Extended-Wear Comfort Earpieces include a Low Noise Enhancement (RLN6232) already attached for extra comfort and convenience (RLN5315).	\$108.00
QA00103	Travel Charger (includes voltage regulated lighter adapter, custom charger base, coil cord and mounting bracket - RLN4883)	\$89.25
H886	3 Year Service from the Start -LITE - Provides 3 years of extended hardware repair coverage beginning after the standard warranty period expires. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	\$108.00

SLN 1000 Portable

3.5 GHz Band OnGo

Standard Package Includes:

- Standard Battery - Li-Ion, 2500 mAh (PMNN4578)
- Standard Charger - Micro-USB Wall Charger (PS000150A11)
- LTE Stubby Antenna (HKAN4004A)
- Swivel Carry Holster (PMLN7932)
- Battery Door Cover (HKLN4678)
- 3 Year Essential Repair

Key Features:

Purpose Built for OnGo 3.5 GHz Network Operation
PTT Voice (WAVE client) over OnGo and WiFi
Cloud based Portal Device Management
Over the Air Programmable
High Fidelity Wideband Audio
WiFi 2.4 GHz and 5 GHz compatible
Bluetooth Profiles HFP, SPP and BLE GATT support
GNSS Support - GLONASS/Galileo/BeiDou support
IP54 Rated (Dust and blowing rain)
Dot Matrix Active View Display
Single Pin Audio Interface (OPAI)
Micro USB Charging
3FF size Removable SIM card slot

Notes:

- Device is designed for use with WAVE OnCloud PTT Services
- For Nitro Network Connectivity, Motorola Solutions Profile SIM must be purchased separately



RESELLER PRICES

BAND	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
3.5 GHz	XX	HK2120A	SLN 1000 TWO-WAY RADIO	\$825.00				

FCC INFORMATION: AZ489FT7123

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION

The SL 1000 portables ship with a Standard 3-Year Software and Repair option that covers parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Repair Options: MSRP

STDESS0436AA	3 Year Essential Repair	N/C
QA0436AA	ADD: 3 Year Accidental Damage	\$105.00

Repair coverage is expanded to include chemical, liquid and physical damage for the 3 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

XPR™ 2500
VHF & UHF MOBILES
6.25e/12.5 kHz

Standard Package Includes:

- Compact Microphone (PMMN4090)
- Low Profile Bracket (RLN6469)
- 10 ft Power Cable (HKN4191)
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	128
Display	Monochrome
Keypad (via Enhanced Microphone)	Optional
Menu Navigation Buttons	N/A
Front Programmable Buttons	4
Channel Up / Down Rocker	Yes
Control Station Operation	Yes
Handheld Control Head	N/A

Enhanced Radio Features:

GPS	N/A
Expansion Card	N/A
Third Party Applications	N/A
Remote Mount	N/A
WiFi	N/A

Premium Software Features Included in Essential Services:

Bluetooth Audio	N/A
Bluetooth Data	N/A
Digital Telephony	5 Years
Enhanced Privacy	5 Years
Transmit Interrupt	5 Years
Enhanced Noise Cancellation (SINC+)	5 Years
Receive Audio Leveling	5 Years
Mute Mode	N/A
Indoor Location	N/A
Text to Speech	N/A
Transmit Inhibit	N/A

Systems Supported:

Analog Conventional	Yes
Digital Conventional	Yes
IP Site Connect	Optional
Capacity Plus	Optional
Linked Capacity Plus	Optional
Connect Plus	N/A
Capacity Max	N/A



LTR/PassPort	N/A
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Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

Frequencies Not Allowed for XPR 2500:

153.590	153.610	172.800	422.400
153.600	172.790	172.810	

XPR™ 2500 VHF & UHF MOBILES

RESELLER PRICES

OPTIONS

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
136-174 MHz	VHF	1-25W	128	AAM02JNH9JA1AN	XPR 2500 136-174 MHz 25W Display	\$720.88				
136-174 MHz	VHF	25-45W	128	AAM02JQH9JA1AN	XPR 2500 136-174 MHz 45W Display	\$787.55				
403-470 MHz	UHF	1-25W	128	AAM02QNH9JA1AN	XPR 2500 403-470 MHz 25W Display	\$770.88				
403-470 MHz	UHF	25-40W	128	AAM02QPH9JA1AN	XPR 2500 403-470 MHz 40W Display	\$837.55				

FCC INFORMATION - VHF 25W: ABZ99FT3090, VHF 45W: ABZ99FT3091, UHF 25W: ABZ99FT4092, UHF 40W: ABZ99FT4093

Qualifies for Mix&Match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION FROM EACH STEP BELOW

STEP 1:

Microphone Options:

STDMIC0776	Standard Compact Microphone (PMMN4090). Does not support Remote Monitor.	N/C
QA03850	Heavy Duty Microphone (PMMN4091). Does not support Remote Monitor.	\$31.00
QA03848	Enhanced Keypad Microphone (PMMN4089). Supports Remote Monitor.	\$51.00
B71	Omit Microphone	-\$10.00

STEP 2:

Bracket Options:

STDBKT0776	Standard Mounting Bracket (Low Profile - RLN6469)	N/C
B65	Omit Standard Mounting Bracket	-\$4.00

STEP 3:

Cable Options: (Optional HKN9327 Ignition Switch Cable is required for installations requiring ignition sense)

STDCBL0776	Standard Power Cable (HKN4191)	N/C
B161	Omit Standard Power Cable	-\$8.00

Shipping Box Options:

STDBOX0776	Standard Model Box	N/C
B842	Bulk Packing (minimum 2 radios per box)	N/C

STEP 5:

The XPR Series mobiles ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771	Standard 5 Year SMA and Software Features	N/C
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Essential Repair Options:

STDESS0776	5 Year Essential Repair	\$0.00
QA00776	Delete Essential Repair (2 Year Warranty Only)	-\$18.33

HA00664 ADD: 5 Year Accidental Damage \$160.00
Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

Premium Software Features:

HKVN4084	MOTOTRBO Enhanced Privacy	\$50.00
HKVN4154	MOTOTRBO IP Site Connect	\$83.00
HKVN4271	MOTOTRBO Digital Telephone Interconnect	\$33.50
HKVN4413	MOTOTRBO License Capacity Plus (Single Site)	\$83.00
HKVN4414	MOTOTRBO License Capacity Plus (Multi-Site)	\$83.00
HKVN4085	MOTOTRBO Transmit Interrupt	\$50.00

XPR™ 5350e & XPR™ 5380e
VHF, UHF & 800/900MHz MOBILES
6.25e/12.5 kHz

Standard Package Includes:

- Compact Microphone (RMN5052)
- Low Profile Bracket (RLN6469A)
- 10 ft Power Cable (HKN4191)
- Radio Operation Quick Reference Cards and Safety Manual with Quick Reference Guides
- 5 Year Essential Repair and Software

Main Radio Features:

Max. Number of Channels	32
Display	Monoch.
Keypad (via Enhanced Microphone)	Optional
Menu Navigation Buttons	Yes
Side Programmable Buttons	N/A
Soft Front Programmable Buttons	4
Dual Purpose Volume / Channel Selector Knob	Yes
Control Station Operation 2	Yes
Handheld Control Head	N/A



Enhanced Radio Features:

GPS	Yes
Expansion Card	Yes
Third Party Applications	Yes
Remote Mount	Optional
WiFi	Yes

Premium Software Features Included in Essential Services:

Bluetooth Audio	Yes
Bluetooth Data	Yes
Digital Telephony	Yes
Enhanced Privacy	Yes
Transmit Interrupt	Yes
Enhanced Noise Cancellation (SINC+)	5 Years
Receive Audio Leveling	5 Years
Mute Mode	5 Years
Indoor Location	5 Years
Text to Speech	5 Years
Transmit Inhibit	5 Years

Systems Supported:

Analog Conventional	Yes
Digital Conventional	Yes
IP Site Connect	Yes

Capacity Plus	Yes
Linked Capacity Plus	Yes
Connect Plus	Yes
Capacity Max	Yes
LTR/PassPort	N/A

Notes:

5 Years = Included for 5 years as part of Essential Software Service Package

- Control Station external power supply (HPN4007), optional desktop tray, and optional desktop microphone.

- The XPR 5000e series requires the PMKN4010 Programming Cable or PMKN4016 Programming and Test/Aligning Cable.

XPR™ 5350e & XPR™ 5380e VHF, UHF & 800/900MHz MOBILES OPTIONS

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
XPR™ 5300e Numeric Display with Bluetooth, GPS, and Expansion Card - ENABLED Models										
136-174 MHz	VHF	1-25W	32	AAM28JNC9RA1AN	XPR 5350e GOB BT/GPS/WiFi ND ENABLED	\$931.92				
136-174 MHz	VHF	25-45W	32	AAM28JQC9RA1AN	XPR 5350e GOB BT/GPS/WiFi ND ENABLED	\$1,007.45				
403-470 MHz	UHF	1-25W	32	AAM28QNC9RA1AN	XPR 5350e GOB BT/GPS/WiFi ND ENABLED	\$988.57				
403-470 MHz	UHF	25-40W	32	AAM28QPC9RA1AN	XPR 5350e GOB BT/GPS/WiFi ND ENABLED	\$1,064.10				
450-512 MHz	UHF	1-40W	32	AAM28TRC9RA1AN	XPR 5350e GOB BT/GPS/WiFi ND ENABLED	\$1,064.10				
806-941 MHz	800/900	10-35W (800) 10-30W (900)	32	AAM28UMC9RA1AN	XPR 5380e GOB BT/GPS/WiFi ND ENABLED	\$1,064.10				

FCC INFORMATION: VHF 25W AZ492FT7082; VHF 45W AZ492FT7081. UHF 25W: AZ492FT7080; UHF 40W: AZ492FT7079; UHF2: AZ492FT7076; 800/900MHz: AZ492FT7083.

Quantities for mix & match (see Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION FROM EACH STEP BELOW

STEP 1:

Microphone Options:

STDMIC0511 (U/V) STD Standard Compact Microphone (RMN5052)	N/C
GA00036 Heavy Duty Microphone (RMN5053)	\$30.00
QA02406 Impres 4-way Navigation Keypad Mic (RMN5127)	\$120.00
B71 Omit Microphone	-\$10.00

STEP 2:

Bracket Options:

STDBKT0511 (U/V) STD Standard Mounting Bracket (Low Profile - RLN6469)	N/C
B65 Omit Standard Mounting Bracket	-\$4.00

STEP 3:

Cable Options: (Optional RKN4136 Ignition Switch Cable is required for installations requiring ignition sense)

STDCBL0511 (U/V) STD Standard Power Cable (HKN4191)	N/C
B161 Omit Standard Power Cable	-\$8.00

STEP 4:

Shipping Box Options:

STDBLK0511 (U/V) STD Standard Model Box	N/C
B842 Bulk Packing (minimum 2 radios per box)	N/C

STEP 5:

The XPR Series mobiles ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771

Standard 5 Year SMA and Software Features

N/C

Essential Repair Options:

STDESS0511 (U/V) ~~ST~~ 5 Year Essential Repair

N/C

QA00511 (U/V) ~~QA~~002 Delete Essential Repair (2 Year Warranty Only)

-\$26.67

HA00663 ADD: 5 Year Accidental Damage

\$184.00

Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

**XPR™ 5350e & XPR™ 5380e
VHF, UHF & 800/900MHz MOBILES
OPTIONS**

RESELLER PRICES

MOTOTRBO Connect Plus Trunking Operation:		MSRP
	MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides enhanced performance, productivity and value for two way radio users. Please refer to the XRC 9000 Controller section (under Fixed Equipment) for more information on how to order Connect Plus trunking systems.	
QA00588	Connect Plus Trunking Operation For Enabled Models Only Includes factory loading of the Connect Plus firmware application and the Connect Plus license (HKLN4457A).	N/C
	Notes: 1. Option QA00588 applicable only to MOTOTRBO digital capable models. 2. Option QA00588 requires MOTOTRBO CPS version 12.0 or higher. 3. Option QA00588 requires MOTOTRBO Option Board CPS (available in MOL Resource Center at no cost). 4. Connect Plus Trunking Operation requires: a. MOTOTRBO digital firmware release R02.50.05 or higher (included with factory option QA00588) b. MOTOTRBO expansion card (included with factory option QA00588) c. Connect Plus software (included with factory option QA00588) d. Connect Plus software license (HKLN4457 license included) 5. Please refer to the Fixed Equipment section for Connect Plus Trunking system information. 6. Please refer to the Connect Plus System Planner and your Motorola COEE team representative for pre sale support and system design considerations	
Premium Software Feature:		
HKVN4432	MOTOTRBO License Indoor Location	\$83.33
HKVN4281	MOTOTRBO Text to Speech	\$10.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50
TT3027	Estimate Kit of 3 iBeacons AVAILABLE TO ORDER VIA MOL ONLY	\$120.00
HKVN4384	Authenticated Radio Disable (Required for Target Radio Only)	\$3.50
HKVN4385	Transmit Inhibit	\$3.50

XPR™ 5550e & XPR™ 5580e VHF, UHF & 800/900MHz MOBILES 6.25e/12.5 kHz

Standard Package Includes:

- Compact Microphone (RMN5052)
- Low Profile Bracket (RLN6469A)
- 10 ft Power Cable (HKN4191)
- Radio Operation Quick Reference Cards and Safety Manual with Quick Reference Guides
- 5 Year Essential Repair and Software

Main Radio Features:

	Capable	Enabled
Max. Number of Channels	1,000	1,000
Display	5 Line Color	5 Line Color
Keypad (via Enhanced Microphone)	Optional	Optional
Menu Navigation Buttons	Yes	Yes
Side Programmable Buttons	N/A	N/A
Soft Front Programmable Buttons	4	4
Dual Purpose Volume / Channel Selector Knob	Yes	Yes
Control Station Operation	Yes	Yes
Handheld Control Head	Optional	Optional



Enhanced Radio Features:

	Capable	Enabled
GPS	Yes	Yes
Expansion Card	Yes	Yes
Third Party Applications	Yes	Yes
Remote Mount	Optional	Optional
WiFi	Optional	Yes

Premium Software Features Included in Essential Services:

	Capable	Enabled
Bluetooth Audio	Yes	Yes
Bluetooth Data	5 Years	Yes
Digital Telephony	Yes	Yes
Enhanced Privacy	Yes	Yes
Transmit Interrupt	Yes	Yes
Enhanced Noise Cancellation (SINC+)	5 Years	5 Years
Receive Audio Leveling	5 Years	5 Years
Mute Mode	5 Years	5 Years
Indoor Location	5 Years	5 Years
Text to Speech	5 Years	5 Years
Transmit Inhibit	5 Years	5 Years

Systems Supported:

	Capable	Enabled
Analog Conventional	Yes	Yes
Digital Conventional	Yes	Yes
IP Site Connect	Yes	Yes
Capacity Plus	Yes	Yes

Linked Capacity Plus	Yes	Yes
Connect Plus	Optional	Yes
Capacity Max	Optional	Yes
LTR/PassPort	Optional	Optional

Notes:

- 5 Years = Included for 5 years as part of Essential Software Service Package
- Control Station requires external power supply (HPN4007), optional desktop tray, and optional desktop microphone.
- LTR/Passport via 3rd Party Application from Scholer-Johnson. Requires option QA01839
- The XPR 5000e series requires the PMKN4010 Programming Cable or PMKN4016 Programming and Test/Aligning Cable.
- The Handheld Control Head is covered by a 1 year warranty, similar to mobile accessories

XPR™ 5550e & XPR™ 5580e VHF, UHF & 800/900MHz MOBILES OPTIONS

RESELLER PRICES

BAND SPLIT	BAND	PWR	CHAN	MODEL	MODEL DESCRIPTION	MSRP				
XPR™ 5500e Color Display with Bluetooth, GPS, and Expansion Card - CAPABLE Models										
136-174 MHz	VHF	25-45W	1000	AAM28JQN9WA1AN	XPR 5550e GPS BT/WiFi - CAPABLE	\$1,067.38				
403-470 MHz	UHF	25-40W	1000	AAM28QPN9WA1AN	XPR 5550e GOB GPS BT/WiFi - CAPABLE	\$1,117.38				
450-512 MHz	UHF	1-40W	1000	AAM28TRN9WA1AN	XPR 5550e GOB GPS BT/WiFi - CAPABLE	\$1,117.38				
806-941 MHz	800/900	10-35W (800)	1000	AAM28UMN9WA1AN	XPR 5580e GPS BT/WiFi - CAPABLE	\$1,117.38				
XPR™ 5500e Color Display with Bluetooth, GPS, and Expansion Card - ENABLED Models										
136-174 MHz	VHF	1-25W	1000	AAM28JNN9RA1AN	XPR 5550e GOB BT/GPS/WiFi - ENABLED	\$1,120.75				
136-174 MHz	VHF	25-45W	1000	AAM28JQN9RA1AN	XPR 5550e GOB BT/GPS/WiFi - ENABLED	\$1,194.40				
403-470 MHz	UHF	1-25W	1000	AAM28QNN9RA1AN	XPR 5550e GOB BT/GPS/WiFi - ENABLED	\$1,177.40				
403-470 MHz	UHF	25-40W	1000	AAM28QPN9RA1AN	XPR 5550e GOB BT/GPS/WiFi - ENABLED	\$1,251.05				
450-512 MHz	UHF	1-40W	1000	AAM28TRN9RA1AN	XPR 5550e GOB BT/GPS/WiFi - ENABLED	\$1,251.05				
806-941 MHz	800/900	10-35W (800)	1000	AAM28UMN9RA1AN	XPR 5580e GOB BT/GPS/WiFi - ENABLED	\$1,251.05				

FCC INFORMATION: VHF 25W AZ492FT7082; VHF 45W AZ492FT7081. UHF 25W: AZ492FT7080; UHF 40W: AZ492FT7079; UHF2: AZ492FT7076; 800/900MHz: AZ492FT7083.
Quantities for mix&match (See Appendix for details)

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION FROM EACH STEP BELOW

STEP 1:

Microphone Options:

STDMIC0511 (U/V)STD	Standard Compact Microphone (RMN5052)	N/C
GA00036	Heavy Duty Microphone (RMN5053)	\$30.00
QA02406	Impres 4-way Navigation Keypad Mic (RMN5127)	\$120.00
QA04996	MOTOTRBO Handheld Control Head with 9.5ft Coiled Cable	\$534.00
B71	Omit Microphone	-\$10.00

STEP 2:

Bracket Options:

STDBKT0511 (U/V)STDE	Standard Mounting Bracket (Low Profile - RLN6469)	N/C
B65	Omit Standard Mounting Bracket	-\$4.00

STEP 3:

Cable Options: (Optional RKN4136 Ignition Switch Cable is required for installations requiring ignition sense)

STDCBL0511 (U/V)STDC Standard Power Cable (HKN4191)
B161 Omit Standard Power Cable

N/C
-\$8.00

STEP 4:

Shipping Box Options:

STDBLK0511 (U/V)STDE Standard Model Box
B842 Bulk Packing (minimum 2 radios per box)

N/C
N/C

STEP 5:

The XPR Series mobiles ship with a Standard 5-Year Software and Repair option that covers 5 years of software support, a premium feature subscription, and parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Essential Software Options:

STDSMA0771 Standard 5 Year SMA and Software Features

N/C

Essential Repair Options:

STDESS0511 (U/V)STDE 5 Year Essential Repair
QA00511 (U/V)QA002(Delete Essential Repair (2 Year Warranty Only)
HA00663 ADD: 5 Year Accidental Damage

N/C
-\$26.67
\$184.00

Repair coverage is expanded to include chemical, liquid and physical damage for the 5 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

**XPR™ 5550e & XPR™ 5580e
VHF, UHF & 800/900MHz MOBILES
OPTIONS**

RESELLER PRICES

MOTOTRBO Connect Plus Trunking Operation: MSRP

MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides enhanced performance, productivity and value for two way radio users. Please refer to the XRC 9000 Controller section (under Fixed Equipment) for more information on how to order Connect Plus trunking systems.

QA00588 Connect Plus Trunking Operation For Enabled Models Only N/C
Includes factory loading of the Connect Plus firmware application. Connect Plus license is enabled by default.

QA00588 Connect Plus Trunking Operation, Only for Capable Models \$116.66
Includes factory loading of the Connect Plus firmware application.
License HKLN4457A is required to Register and Activate the Connect Plus functionality in the radio and must be purchased separately from the QA00588 option (see details below).

HKLN4457 Connect Plus Trunking License, Only needed for Capable Models \$50.00
An Entitlement ID (EID) will be delivered via e mail to the address specified during order placement. Register and Activate the Connect Plus license in the MOTOTRBO Connect Plus capable radios using MOTOTRBO CPS (version 12.0 or higher). Registration requires an internet connection. Multiple licenses can be ordered under the same line item.

Notes:

1. Option QA00588 applicable only to MOTOTRBO digital capable models
2. Option QA00588 requires MOTOTRBO CPS version 12.0 or higher.
3. Option QA00588 requires MOTOTRBO Option Board CPS (available in MOL Resource Center at no cost).
4. Connect Plus Trunking Operation requires:
 - a. MOTOTRBO digital firmware release R02.50.05 or higher (included with factory option QA00588)
 - b. MOTOTRBO expansion card (included with factory option QA00588)
 - c. Connect Plus software (included with factory option QA00588)
 - d. Connect Plus software license (order HKLN4457 separately)
5. Please refer to the Fixed Equipment section for Connect Plus Trunking system information.
6. Please refer to the Connect Plus System Planner and your Motorola COEE team representative for pre sale support and system design considerations

General Options:

QA01839 LTR/PassPort Enhanced Operation. Factory Installed. \$72.00
Option includes built-in MOTOTRBO Expansion Card and installation of Scholer-Johnson software application license.
Notes:
1) Scholer-Johnson LTR/PassPort application runs on the MOTOTRBO Expansion Card. The application is compatible with both Classic and Enhanced PassPort operation.
2) Scholer-Johnson LTR/PassPort application requires winSJlppTRBO programming software.
3) MOTOTRBO XPR 5500e/7500e series radios require firmware R02.06 version or higher.
4) Scholer-Johnson LTR/PassPort application is available only for display portable and mobile models.
5) Scholer-Johnson LTR/PassPort application is compatible with FM equipped portables.
6) MDC signaling is not currently available in application's conventional or LTR modes of operation for XPR 5500e/7500e series radios.
7) Quik Call II signaling is not currently available in application's conventional or LTR modes of operation.
8) Trident TrAVL operation using Scholer-Johnson application is not available for XPR 5500e series mobiles.
9) Expansion Card draws additional current from radio battery so using a higher capacity battery may be required.
10) To purchase aftermarket Scholer-Johnson LTR/PassPort application and winSJlppTRBO programming software please contact Scholer-Johnson Inc. at 407 645 5093.

11) For Technical support on the LTR/PassPort application please contact Scholer-Johnson Inc. at 407 645 5093.

Premium Software Features (CAPABLE):		
HKVN4323	MOTOTRBO Capacity Max FULL Subscriber License	\$167.00
HKVN4381	MOTOTRBO License Wi-Fi	\$125.00
HKVN4249	MOTOTRBO Bluetooth Data and Discoverable Mode	\$50.00
HKVN4432	MOTOTRBO License Indoor Location	\$83.33
HKVN4281	MOTOTRBO Text to Speech	\$10.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50
TT3027	Estimote Kit of 3 iBeacons AVAILABLE TO ORDER VIA MOL ONLY	\$120.00
HKVN4384	Authenticated Radio Disable (Required for Target Radio Only)	\$3.50
HKVN4385	Transmit Inhibit	\$3.50

Premium Software Feature (ENABLED):		
HKVN4432	MOTOTRBO License Indoor Location	\$83.33
HKVN4281	MOTOTRBO Text to Speech	\$10.00
HKVN4493	MOTOTRBO Mute Mode	\$10.00
HKVN4492	MOTOTRBO Receive Audio Leveling	\$3.50
TT3027	Estimote Kit of 3 iBeacons AVAILABLE TO ORDER VIA MOL ONLY	\$120.00
HKVN4384	Authenticated Radio Disable (Required for Target Radio Only)	\$3.50
HKVN4385	Transmit Inhibit	\$3.50

US VERSION

L: Legacy models - Applicable to PM400, CDM1550LS+ mobiles

PROFESSIONAL ANALOG TRUNKING MOBILE

		ACCESSORIES		
PM400	CDM1550LS+	MODEL NUMBER	DESCRIPTION	MSRP
ANTENNAS				
	L	HAD4006	VHF 1/4 Wave Through-hole Mount Antenna, 136-144 MHz	\$24.00
L	L	HAD4007	VHF 1/4 Wave Through-hole Mount Antenna, 144-150.8 MHz	\$24.00
L	L	HAD4008	VHF 1/4 Wave Through-hole Mount Antenna, 150.8-162 MHz	\$24.00
L	L	HAD4009	VHF 1/4 Wave Through-hole Mount Antenna, 162-174 MHz	\$24.00
	L	HAD4014	VHF 3dB Gain Through-hole Mount Antenna, 140-174 MHz	\$65.50
	L	HAE4002	UHF 1/4 Wave Through-hole Mount Antenna, 403-430 MHz	\$35.00
L	L	HAE4003	UHF 1/4 Wave Through-hole Mount Antenna, 450-470 MHz	\$21.50
	L	HAE4004	UHF 1/4 Wave Through-hole Mount Antenna, 470-527 MHz	\$21.50
	L	HAE4010	UHF 3.5dB Gain Through-hole Mount Antenna, 406-420 MHz	\$77.50
	L	HAE4011	UHF 3.5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$77.50
	L	HAE4012	UHF 3.5dB Gain Through-hole Mount Antenna, 470-494 MHz	\$77.50
	L	HAE4013	UHF 3.5dB Gain Through-hole Mount Antenna, 494-512 MHz	\$72.00
	L	HAF4012	700 MHz Mini U 1/4 Wave Through-hole Mount Antenna, 746-794 MHz	\$16.00
	L	HKAD4001	200 MHz 1/4 Wave Through-hole Mount Antenna, 216-225 MHz	\$32.00
	L	HKAD4002	200 MHz 5/8 Wave Through-hole Mount Antenna, 216-225 MHz	\$95.00
L		RAD4000A	Antenna Only (less cable & install hardware) - Standard Duty, 136-174 MHz	\$59.00
L	L	RAD4000AMB	VHF 3dB Gain Magnetic Mount Antenna, 140-174 MHz	\$90.00
L	L	RAE4004ARB	UHF 5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$102.00
L	L	RAE4004AMB	UHF 5dB Gain Magnetic Mount Antenna, 440-470 MHz	\$120.00
L		TAE6053	UHF 1/4 Wave Through-hole Mount Antenna, 430-450 MHz	\$20.50
CONTROL STATION ACESORIES				
PM400	CDM1550LS+			
	L	GLN7318	Desktop Tray without Speaker	\$40.00
	L	GLN7326	Desktop Tray with Speaker	\$82.50
L		HKN4139	12V Power Cable for Low Power Control Station 1-25W	\$21.00
	L	HKN9088	Mobile Mini-U Antenna Adapter - 8 Ft. Cable	\$40.25
L		HKN9455	12V Power Cable for High Power Control Station 25-60W	\$22.00
L	L	HPN4007	Power Supply and Cable (1-60 Watt Models)	\$296.00
L		RLN5390	Desktop Tray with Speaker	\$81.00
L		RLN5391	Desktop Tray without Speaker	\$51.50
	L	RMN5068	Desk Microphone, Black	\$120.00
EXCHANGEABLE BUTTON KITS				
PM400	CDM1550LS+			
	L	RLN4831	Standard Button Kit, CDM1250, CDM1550, CDM1550•LS & CDM1550•LS+: MON, SCAN, CALL, HOME, PHONE	\$19.35
	L	RLN5324	Standard Button Kit, CDM1550•LS & CDM1550•LS+: MON, SCAN, CALL, HOME, PHONE, ROAM, SITE	\$19.35
EXTERNAL SPEAKERS				
PM400	CDM1550LS+			
	L	HSN8145	7.5 Watt External Speaker - for Receiver Audio	\$47.50
	L	RSN4001	13 Watt External Loudspeaker	\$66.00
HANDSFREE ACESORIES				
PM400	CDM1550LS+			
L	L	AARMN4027	Visor Mounted Microphone	\$57.25
L	L	RLN4856	Footswitch PTT	\$61.75
L	L	RLN4857	Pushbutton PTT	\$38.50
INSTALLATION AND ALARM CONTROLS				
PM400	CDM1550LS+			
	L	GKN6272_R	External Alarm Relay and Cable	\$55.00
L		GLN7282	Alarm Buzzer	\$46.25
L	L	HKN4137	Power Cable to Battery (10 feet, 15 amp)	\$18.00

L		HKN4191	20 Amp High Power Cable to Battery	\$18.00
	L	HKN4192	Power Cable to Battery (20 feet, 20 amp)	\$38.33
L	L	HKN9327_R	Ignition Switch Cable	\$15.00
	L	HKN9557	PL259/Mini-U Antenna Adapter - 8" cable	\$12.00
L		HLN9242	when used with CM & SM Series or M1225 mobiles. Includes 9 wires with lugs, 1 connector housing, 16 crimping terminals, 2 tie straps and 1 extraction tool)	\$21.00
L		HLN9328	External Alarm Relay Cable - horn & lights	\$55.00
	L	HLN9457	Hardware Kit for use with the Expanded Accessory Connector (includes 16 connector pins, five (5) 8" wires with pins attached and an extra housing)	\$6.95
L		HSN8145	7.5 Watt External Speaker - for Receiver Audio	\$47.50
L		RSN4001	13 Watt External Loudspeaker	\$66.00
PM400	CDM1550LS+		MICROPHONES	
L	L	AAREX4617	Telephone Style Handset with Hang-Up Cup (CDM - not for use with Dual Control Head)	\$132.00
	L	AARMN4025	Compact Microphone (Supports Remote Monitor)	\$47.25
	L	AARMN4026	Enhanced Keypad Microphone (Supports Remote Monitor)	\$99.00
	L	AARMN4038	Heavy Duty Microphone (Does Not Support Remote Monitor)	\$81.50
L	L	HLN9073	Microphone Hang-Up Clip (all microphones)	\$1.10
L		HLN9414	Universal Hang-Up Clip (all microphones)	\$11.00
L		HMN1035	Heavy Duty Palm Microphone with 10.5 Ft. Coil Cord	\$81.50
L		HMN3413	Compact Microphone with 7 Ft. Coil Cord & Hang-Up Clip	\$39.50
L		HMN3596	Compact Microphone with 7 Ft. Coil Cord	\$38.50
L		RMN5029	Enhanced Keypad Microphone & Hang-Up Clip	\$88.50
PM400	CDM1550LS+		MOUNTING ACESORIES	
L	L	GLN7317	High Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	\$21.00
L	L	GLN7324	Low Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	\$13.25
L	L	RLN4779	Key Lock Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	Call for pricing
	L	RLN4781	Direct in Dashboard Mounting Kit (VHF, UHF, 200 MHz & 700 MHz)	Call for pricing
PM400	CDM1550LS+		PUBLIC ADDRESS	
L	L	HKN9324_R	15 Ft. Public Address & Speaker Cable (one cable per speaker)	\$44.00
L	L	HSN1006	External Speaker for Car Kit	\$104.00
L	L	RLN5288	Public Address Kit - Includes Interface Cable (requires HSN1006 speaker)	\$419.00
PM400	CDM1550LS+		REMOTE MOUNTS (both power cable & remote mount cable are required)	
	L	RKN4077	Remote Mount Cable, 3 meter length	\$8.25
	L	RKN4078	Remote Mount Cable, 5 meter length	\$10.50
	L	RKN4079	Remote Mount Cable, 7 meter length	\$13.00
PM400	CDM1550LS+		RETROFIT KITS	
	L	6686119B01	Dismantling Tool	\$3.76
PM400	CDM1550LS+		SERVICE EQUIPMENT Pricing for service parts can be found on MOL or by contacting Customer Service	
L	L	3080070N01	Programming Cable (connection from RIB to radio) (PM400 - requires FKN8096)	Call for pricing
	L	3080369B72	9 Pin PC to Radio Interface Box Cable (IBM AT or compatible)	Call for pricing
L	L	AARKN4083	Programming Cable (allows radio programming via rear accessory connector) (PM400 - requires FKN8113)	Call for pricing
L		FKN8096	Flash/Data Adapter (for use with RKN4081 or 3080070N01)	Call for pricing
L		FKN8113	Adapter Cable (for use with AARKN4083)	Call for pricing
	L	H5177	Programming Software), CPS tutorial, reflashing tool and freq. finder application for the HT, EX, CDM & MTX•LS Series. HVN9067 for MTX Series Privacy Plus - includes HT & MTX Series Programming & Test Cable (AARKN4074). Also is compatible with RLN4460 used for radio testing. (HVN9025 is compatible with Windows® 95/98/2000 (SP3 or later version) / Millennium (ME) / Windows NT®. HVN9067 is compatible with Windows® 95/98/Windows NT®.) A Mobile Programming Cable (AARKN4074 or AARKN4083) must be purchased separately. Note: Software requires a license	Call for pricing
L	L	RKN4081	Programming Cable with Internal RIB (direct connection from computer to radio microphone connector) (PM400 requires FKN8096)	Call for pricing
	L	RLN4008	Radio Interface Box (RIB)	Call for pricing
	L	RLN4460	Test Box for Portables and Mobiles	Call for pricing
L		RVN4191	Portable & mobile programming software (or by 3 year subscription package - portables require a minimum of 1 programming / test cable. mobiles require one of the following Programming Cables & Adapter: RKN4081 Programming Cable with FKN8096 Program Adapter, 3080070N01 Programming Cable with FKN8096 Program Adapter or AARKN4083 Programming Cable with FKN8113 Program Adapter. Note: Software requires a	Call for pricing

PM400	CDM1550LS+		USER MANUALS	
L		6802966C15	CM200/CM300/PM400 Basic Service Manual	\$18.90
L		6802966C20	CM200/CM300/PM400 VHF Detailed Service Manual	\$26.25
	L	6881091C62-D	CDM Series Basic Service Manual (English)	\$14.18
	L	6881091C63-B	CDM Series Detailed Service Manual	\$29.66
L		6881098C00	CM200/CM300/PM400 UHF Detailed Service Manual	\$26.25

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series

E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e

L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO PORTABLE ANTENNAS

0/3300eXPR 3550/LXPR 3000 Series	SL 3500e	XPR 6100	3/6380XPR 65550/7350eXPR 7550/10/7380eXPR 7580,7550SL 7550/7580eSL 7590/LXPR 7000 Series	SLN 1000	MODEL NUMBER	DESCRIPTION	MSRP
		L	L	Y	HKAN4004	Stubby LTE	\$25.70
		L	L		NAF5087	Whip Antenna 800 MHz 1/2 Wave - Intrinsicly Safe (FM)	\$35.75
		L	L		NAF5088	Whip Antenna 900 MHz 1/2 Wave - Intrinsicly Safe (FM)	\$35.75
		L	L		PMAD4067	Combination VHF Whip Antenna with GPS, 136-147 MHz - Intrinsicly Safe (FM)	\$11.50
		L	L		PMAD4068	Combination VHF Whip Antenna with GPS, 147-160 MHz - Intrinsicly Safe (FM)	\$11.50
		L	L		PMAD4069	Combination VHF Whip Antenna with GPS, 160-174 MHz - Intrinsicly Safe (FM)	\$11.50
		L	L		PMAD4086	VHF Antenna for Public Safety Microphone, 150-174 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAD4087	VHF Antenna for Public Safety Microphone, 136-153 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAD4088	VHF Flexible Whip Antenna 21cm (136-174MHz) - Intrinsicly Safe (FM)	\$21.50
		L	L		PMAD4093	VHF Stubby Antenna 11cm (136-147MHz) - Intrinsicly Safe (FM)	\$11.00
		L	L		PMAD4094	VHF Stubby Antenna 11cm (147-160MHz) - Intrinsicly Safe (FM)	\$11.00
		L	L		PMAD4095	VHF Stubby Antenna 11cm (160-174MHz) - Intrinsicly Safe (FM)	\$11.00
L-E	Y		L-E	E	PMAD4116	VHF Helical Antenna (144-165 MHz) - FM / UL Approved	\$9.27
L-E	Y		L-E	E	PMAD4117	VHF Helical Antenna (136-155 MHz) - FM / UL Approved	\$9.27
L-E	Y		L-E	E	PMAD4118	VHF Helical Antenna (152-174 MHz) - FM / UL Approved	\$9.27
L-E	Y		L-E	E	PMAD4119	VHF Stubby Antenna (136-148 MHz) - FM / UL Approved	\$10.30
L-E	Y		L-E	E	PMAD4120	VHF Stubby Antenna (146-160 MHz) - FM / UL Approved	\$10.30
E	Y		L-E	E	PMAD4121	VHF Stubby Antenna (160-174MHz) - FM / UL Approved	\$10.30
		E			PMAD4144	VHF Stubby Antenna (136-144MHz) 5cm	\$9.50
		E			PMAD4145	VHF Stubby Antenna (144-156MHz) 5cm	\$9.50
		E			PMAD4146	VHF Stubby Antenna (156-174MHz) 5cm	\$9.50
		L	L		PMAE4018	Combination UHF Whip Antenna with GPS, 403-433 MHz - Intrinsicly Safe (FM)	\$10.50
		L	L		PMAE4021	Combination UHF Stubby Antenna with GPS, 403-433 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAE4022	UHF Flexible Whip Antenna 16cm (403-470MHz) - Intrinsicly Safe (FM)	\$10.25
		L	L		PMAE4023	Combination UHF Stubby Antenna with GPS, 430-470 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAE4024	Combination UHF Whip Antenna with GPS, 430-470 MHz - Intrinsicly Safe (FM)	\$10.50
		L	L		PMAE4046	UHF Stubby Antenna for Public Safety Microphone, 403-433 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAE4047	UHF Stubby Antenna for Public Safety Microphone, 430-470 MHz - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAE4048	UHF2 + GPS Stubby Antenna, 450-527 MHz (can be used with Public Safety Microphone) - IS / FM	\$10.50
		L	L		PMAE4049	UHF Flexible Whip Antenna 16cm (450-527MHz) - Intrinsicly Safe (FM)	\$10.50
		L	L		PMAE4050	Combination GPS/ UHF 450-495 MHz Folded Monopole Antenna - Intrinsicly Safe (FM)	\$10.75
		L	L		PMAE4051	Combination GPS/ UHF 495-527 MHz Folded Monopole Antenna - Intrinsicly Safe (FM)	\$10.75
L-E	Y		L-E	E	PMAE4069	UHF Stubby Antenna (403-450 MHz) - FM / UL Approved	\$9.79
L-E	Y		L-E	E	PMAE4070	UHF Stubby Antenna (440-490 MHz) - FM / UL Approved	\$9.79
L-E	Y		L-E	E	PMAE4071	UHF Stubby Antenna (470-512 MHz) - FM / UL Approved	\$9.79
L-E	Y		L-E	E	PMAE4079	UHF Slim Whip Antenna (403-512 MHz) - FM / UL Approved	\$9.79
					PMAE4076	Antenna Kit, Stubby (420-445MHz)	\$15.00
					PMAE4077	Antenna Kit, Stubby (438-470MHz)	\$15.00
					PMAE4078	Antenna Kit, Stubby (403-425MHz)	\$15.00
					PMAE4091	UHF Stubby Antenna Kit for the 450-490 MHz range	\$15.00
					PMAE4092	UHF Stubby Antenna Kit for the 480-527 MHz range	\$15.00
					PMAE4093	UHF Stubby Antenna (403-425MHz) 4.5cm	\$9.50
					PMAE4094	UHF Stubby Antenna (420-445MHz) 4.5cm	\$12.00
					PMAE4095	UHF Stubby Antenna (435-470MHz) 4.5cm	\$9.50
					PMAF4017	Antenna Kit for the 800 MHz range	\$15.00
					PMAF4018	Antenna Kit for the 900 MHz range	\$15.00
					PMAF4003	800/900 MHz & GPS Helical Antenna (806-941 MHz) - Intrinsicly Safe (FM)	\$22.00
			L-E	Y	PMAF4009	800 MHz Short Whip Antenna 12cm (806-870MHz) - FM / UL Approved	\$14.42
			L-E	Y	PMAF4010	900 MHz Short Whip Antenna 11cm (896-941MHz) - FM / UL Approved	\$14.42

L-E	E	L-E	L-E		Y	PMAF4011	800 MHz Flexible Whip Antenna 16cm (806-870MHZ) - FM / UL Approved	\$10.30
L-E	E	L-E	L-E		Y	PMAF4012	900 MHz Flexible Whip Antenna 14cm (896-941MHZ) * - FM / UL Approved	\$10.30
L-E	E	L-E	L-E				* Note: Optimized for 900 MHz but can also be used for mixed 800 & 900 MHz CH/sites	
L-E	E	L-E	L-E			32012144001	Gray Antenna ID Band (pack of 10)	\$6.50
L-E	E	L-E	L-E			32012144002	Yellow Antenna ID Band (pack of 10)	\$6.50
L-E	E	L-E	L-E			32012144003	Green Antenna ID Band (pack of 10)	\$6.50
L-E	E	L-E	L-E			32012144004	Blue Antenna ID Band (pack of 10)	\$6.50
L-E	E	L-E	L-E			32012144005	Purple Antenna ID Band (pack of 10)	\$6.50

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series
 E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e
 L-E: Applicable to both Legacy and Enhanced radios

										BATTERIES							
0/3300e	XPR 3550/IA-4950	XPR 3000e	SL 3500e	XPR 6100	50/6380	XPR 6550	0/7350e	XPR 7550/0/7380e	XPR 7580, SL 7550	SL 7550e	0/7580e	SL 7590/7A-4950	XPR 7000/7000e	SLN 1000	MODEL NUMBER	DESCRIPTION	MSRP
			E						L-E	L-E				Y	HKLN4678A	Battery Door for PMLN7932A	\$35.00
									L-E	L-E					HKNN4013	BT90 1800 mAh Li-Ion Hi-Cap Battery	\$28.00
									L-E	L-E					PMLN6000	Battery Door Cover for BT70 Battery	\$15.05
															PMLN6001	Battery Door Cover for BT90 Battery	\$15.05
															PMLN7074	Battery Door Cover for BT100 Battery	\$35.00
									L-E	L-E					PMNN4065	NIMH, 1450 mAh, 7.2V Submersible (IP57) Battery	\$75.00
															PMNN4425	BT70 1400 mAh Li-Ion Slim Battery	\$25.00
							L	L							NNTN8129	IMPRES Li-ion, 2350 mAh, Submersible (IP67) Battery - Intrinsically Safe (FM)	\$152.00
							L	L					Y		NNTN8560	IMPRES Li-ion, 2500 mAh, Submersible (IP67) Battery - TIA4950 / UL Approved	\$175.00
				L											PMNN4066	IMPRES Li-ion, 1700 mAh, 7.2V Submersible (IP57) Battery	\$88.00
				L											PMNN4069	IMPRES Li-ion, 1400 mAh, 7.2V Submersible (IP57) Battery - Intrinsically Safe (FM)	\$134.00
				L											PMNN4077	IMPRES Li-ion, 2240 mAh, 7.2V Submersible (IP57) Battery	\$112.00
				L											PMNN4262	IMPRES Li-ion, 2850T IP57 Battery	\$123.00
L							L	L							PMNN4406	Slim Li-Ion, 1600 mAh battery, Submersible (IP68) Battery	\$66.00
L-E							L-E	L-E							PMNN4407	IMPRES Slim Li-Ion, 1650 mAh battery, Submersible (IP67) Battery	\$88.00
L-E							L-E	L-E							PMNN4409	BATT IMPRES LIION IP68 2250T	\$112.00
L-E							L-E	L-E							PMNN4544	BATT IMPRES LIION IP68 2450T	\$112.00
L-E							L-E	L-E							PMNN4448	IMPRES Hi-Cap Li-ion 2800mAh Submersible (IP67) Battery	\$146.00
			E						L-E	L-E					PMNN4468*	B100x 2300T Li-Ion Battery.	\$40.00
L-E							L-E	L-E							PMNN4488**	IMPRES Low Volt Hi-Cap 3000 mAh	\$154.00
							E	E					Y		PMNN4489	TIA IMPRES Low Volt 2900 mAh - TIA4950 / UL Approved	\$180.00
E	Y														PMNN4490	TIA IMPRES Low Volt 2900 mAh - TIA4950 / UL Approved	\$180.00
L-E							L-E	L-E							PMNN4491	IMPRES Slim Li-Ion, 2100 mAh battery	\$110.00
L-E							L-E	L-E							PMNN4493	IMPRES Low Volt Hi-Cap 3000 mAh (IP68)	\$135.00
L-E							L-E	L-E							PMNN4525	IMPRES 1950 mAh battery Submersible (IP68), -30°C rated	\$178.00
									L-E	L-E				Y	PMNN4578	BATT LIION 2500T	\$66.00
															PMLN6745	Battery Cover for BT100 Battery	\$14.00

IMPRES™: The IMPRES smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging technology and automatic reconditioning features, when used with IMPRES batteries.

* If ordering as a field replacement, must order PMLN6745 Battery Cover

** For use with Silent Alert Belt Clip (PMLN7296); battery only

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series

E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e

L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO CHARGERS & ACCESSORIES

30/3300eXPR 3550,	SL 3500e	XPR 6100	ISO/6380XPR 6550	ISO/7350eXPR 7550	ISO/7380eXPR 7580,	SL 7550eL 7550e	ISO/7580eSL 7590/7	SLN 1000	MODEL NUMBER	DESCRIPTION	MSRP
	E					L-E	L-E		25009298001	Micro-USB Charger, Switch Mode, Low Noise, 5W, US/NA	\$21.00
						L-E	L-E		3004209T03	Multi Unit Charger Power Cord	\$7.00
L-E		L	L	L-E	L-E				NLN7967	Wall Mount Kit for Multi-Unit Charger	\$21.00
L-E		L	L	L-E	L-E				NNTN7392	IMPRES™ Battery Reader (Note: This device does not charge batteries)	\$250.00
L-E		L	L	L-E	L-E				NNTN7616	IMPRES Vehicular Charger	\$418.00
L-E		L	L	L-E	L-E		L-E		PMPN4174	Single unit Charger, 120V, NA/LA, CEC compliant	\$76.00
L-E		L	L	L-E	L-E				NNTN8525	MOTOTRBO Travel Charger	\$95.00
						L-E	L-E		PMLN6687	Standard Multi-Unit Charger	\$235.00
						L-E	L-E		PMLN6701	Standard Tri-Unit Charger	\$71.00
	E							Y	PMLN7101	Standard Multi-Unit Charger, US/NA	\$225.00
	E							Y	PMLN7109	Standard Single-Unit Charger, US/NA	\$45.00
						L-E	L-E		PMPN4009	Standard Micro-USB Single-Unit Rapid	\$26.00
						L-E	L-E		PMPN4027	Travel charger, SMPS, MICRO USB-NA	\$15.00
L-E		L	L	L-E	L-E			Y	PMPN4284	IMPRES 6 pocket, 1 display charger (suggested replacement for WPLN4212 and WPLN4219)	\$655.00
									PS000150A11	Level 6 Micro USB Wall Charger	\$25.00
L-E		L	L	L-E	L-E				RLN5382	IMPRES™, Charger Display Module - retrofitable on IMPRES™ Multi-Unit Chargers	\$95.00
L-E		L	L	L-E	L-E				BR000272A01	BRACKET,WALL MOUNT for PMPN4284	\$44.00

IMPRES™: The IMPRES smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging technology and automatic reconditioning features, when used with IMPRES batteries.

*When used with IMPRES batteries, IMPRES display chargers indicate charge capacity in mAh, percentage of rated capacity, battery serial number, charge status, voltage, kit number, expected full charge capacity & more.

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series

E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e

L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO PORTABLE CARRY CASES

0/3300eXPR 3550,	SL 3500e	XPR 6100	50/6380XPR 6550	0/7350eXPR 7550,0/7380eXPR 7580,	SL 7550e	30/7580eSL 7590/7	SLN 1000	MODEL NUMBER	DESCRIPTION	MSRP
L-E		L	L	L-E	L-E			1505596202	Replacement Strap for RLN4570 and HLN6602 Chest Packs	\$5.00
L-E		L	L	L-E	L-E			4200865599	Belt (1.75" wide black leather belt)	\$20.00
L-E		L	L	L-E	L-E			4280384F89	Universal RadioPAK™ Extension Belt for waist larger than 40"	\$5.00
L-E		L	L	L-E	L-E			HLN6602	Universal Chest Pack with Radio Holder, Pen Holder & Velcro Secured Pocket	\$38.00
L-E		L	L	L-E	L-E			HLN9985	Waterproof Bag, includes large carrying strap	\$36.00
L-E		L	L	L-E	L-E			NTN5243	Shoulder Strap (for use with Cases with D-Rings)	\$23.00
L-E		L	L	L-E	L-E			RLN6486	FIREMAN'S RADIO STRAP	\$37.00
L-E		L	L	L-E	L-E			RLN6487	FIREMAN'S RADIO STRAP, XL	\$40.00
L-E		L	L	L-E	L-E			RLN6488	Anti-Sway Strap for Leather Radio Straps	\$15.00
L-E		L	L	L-E	L-E			PMLN4651	2" Belt Clip	\$12.00
		L	L					PMLN4652	2.5" Belt Clip	\$13.00
			L					PMLN5015	Nylon Carry Case with 3" Fixed Belt Loop for Display Radio (XPR 6550 and XPR 6580 only)	\$26.00
			L					PMLN5019	Hard Leather Carry Case w/2.5" Swivel Belt Loop for Display Radio (XPR 6550 & XPR 6580 only)	\$60.00
			L					PMLN5020	Hard Leather Carry Case w/3" Swivel Belt Loop for Display Radio (XPR 6550 & XPR 6580 only)	\$62.00
			L					PMLN5021	Hard Leather Carry Case w/3" Fixed Belt Loop for Display Radio (XPR 6550 & XPR 6580 only)	\$51.00
		L	L					PMLN5022	2.5" Replacement Swivel Belt Loop	\$12.00
		L	L					PMLN5023	3" Replacement Swivel Belt Loop	\$12.00
L-E				L-E	L-E			PMLN5610	2.5" Replacement Swivel Belt Loop	\$12.00
L-E				L-E	L-E			PMLN5611	3" Replacement Swivel Belt Loop	\$12.00
		L	L					PMLN5024	Nylon Carry Case with 3" Fixed Belt Loop for Non-Display Radio (XPR 6100/6350/6380 only)	\$26.00
		L	L					PMLN5028	Hard Leather Carry Case with 2.5" Swivel Belt Loop for Non-Display Radio	\$60.00
		L	L					PMLN5029	Hard Leather Carry Case with 3" Swivel Belt Loop for Non-Display Radio	\$62.00
		L	L					PMLN5030	Hard Leather Carry Case with 3" Fixed Belt Loop for Non-Display Radio	\$51.00
				L-E	L-E			PMLN5838	Hard Leather Carry Case with 3" Fixed Belt Loop for Display Radio (XPR7550)	\$51.00
				L-E	L-E			PMLN5839	Hard Leather Carry Case with 3" Fixed Belt Loop for Non-Display Radio (XPR7350)	\$51.00
				L-E	L-E			PMLN5840	Hard Leather Carry Case with 3" Swivel Belt Loop for Display Radio (XPR7550)	\$62.00
				L-E	L-E			PMLN5842	Hard Leather Carry Case with 2.5" Swivel Belt Loop for Display Radio (XPR7550)	\$60.00
				L-E	L-E			PMLN5843	Hard Leather Carry Case with 2.5" Swivel Belt Loop for Non-Display Radio (XPR7350)	\$60.00
				L-E	L-E			PMLN5844	Nylon Carry Case with 3" Fixed Belt Loop for Display Radio (XPR7550)	\$26.00
				L-E	L-E			PMLN5845	Nylon Carry Case with 3" Fixed Belt Loop for Non-Display Radio (XPR7350)	\$26.00
				L-E	L-E			PMLN5846	Hard Leather Carry Case with 3" Swivel Belt Loop for Non-Display Radio (XPR7350)	\$62.00
L-E								PMLN5863	Hard Leather Carry Case 3" Fixed Belt Loop for Limited Keypad Radio (XPR3500)	\$51.00
L-E								PMLN5864	Hard Leather Carry Case with 3" Fixed Belt Loop for Non-Display Radio (XPR3300)	\$51.00
L-E								PMLN5865	Hard Leather Carry Case with 3" Swivel Belt Loop for Limited Keypad Radio (XPR3500)	\$59.00
L-E								PMLN5866	Hard Leather Carry Case with 3" Swivel Belt Loop for Non-Display Radio (XPR3300)	\$59.00
L-E								PMLN5867	Hard Leather Carry Case with 2.5" Swivel Belt Loop for Limited Keypad Radio (XPR3500)	\$58.00
L-E								PMLN5868	Hard Leather Carry Case with 2.5" Swivel Belt Loop for Non-Display Radio (XPR3300)	\$58.00
L-E								PMLN5869	Nylon Carry Case with 3" fixed belt loop for Limited Keypad Radio (XPR3500)	\$26.00
L-E								PMLN5870	Nylon Carry Case with 3" fixed belt loop for Non-Display Radio (XPR3300)	\$26.00
					L-E	L-E		PMLN5956	Carry Holster	\$12.00
	E				L-E	L-E	Y	PMLN6074	Wrist Strap	\$9.00
L-E				L-E	L-E			PMLN7008	2.5" Belt Clip (XPR3300, XPR3500, XPR7350 and XPR7550 only)	\$13.00
					L-E	L-E		PMLN7040	Soft Leather Carry Case with 1.5" Swivel Belt Clip	\$25.00
	E							PMLN7076	Flexible Hand Strap	\$11.50
	E						Y	PMLN7128	Belt Clip (Heavy-Duty)	\$11.50
	E							PMLN7190	Swivel Carry Holster	\$12.00
L-E				L-E	L-E			PMLN7296	Silent Alert Vibrating Belt Clip used with PMNN4488 battery	\$15.00
							Y	PMLN7932A	Swivel Carry Holster	\$12.50
L-E		L	L	L-E	L-E			RLN4570	Break-Away Chest Pack	\$54.25
		L	L					1571477L01	Accessory Connector Dust Cover	\$5.50
L								PMLN6066	Accessory Connector Dust Cover	\$5.91
				L-E	L-E			15012157001	Accessory Connector Dust Cover	\$15.00
L-E		L	L	L-E	L-E			RLN4815	Universal RadioPAK™ & Utility Case (fanny pack)	\$45.00

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series
 E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e
 L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO EAR PIECES

0/3300e/PR 3550	XPR 3000 Series	SL 3500e	XPR 6100	50/6380e/PR 6550	0/7350e/PR 7550	0/7380e/PR 7580	SL 7550e/SL 7550e	0/7580e/SL 7590/7	XPR 7000 Series	SLN 1000	MODEL NUMBER	DESCRIPTION	MSRP
		E	L	L	L-E	L-E				Y	5080384F72	Replacement Foam Plugs (Qty 50-for use with RLN5887) - Noise Reduction Rating = 24dB	\$116.50
L-E			L	L	L-E	L-E					AARLN4885	Receive-Only Foam Earbud with 3.5mm plug for Remote Speaker Mic - FM / UL Approved	\$25.75
					L-E	L-E			Y		BDN6726	Earpiece with Standard Earphone, Black	\$40.00
					L-E	L-E			Y		BDN6727	Earpiece with Extra Loud Earphone, Black	\$42.00
L-E											HKLN4608	TRANSPARENT ACOUSTIC TUBE ACCY, PVC FREE	\$14.00
				L							NTN2571	Enhanced Operations Critical Wireless push-to-talk pod	\$139.00
											NTN2570	Earpiece with 12" cable and push-to-talk pod (For Enh Oper Critical Wirelss with Touch Pairing)	\$324.50
E		E	L	L	L-E	L-E	L-E	L-E			NTN2572	Earpiece with 12" cable replacement (use with NNTN8127)	\$156.00
E		E	L	L	L-E	L-E	L-E	L-E			NNTN8125	Wireless Accessory Kit, Pod + Standard Pair, 12in Cable	\$239.00
E		E	L	L	L-E	L-E	L-E	L-E			NNTN8127	Wireless Push-to-Talk Pod ONLY with power supply	\$112.00
E											NNTN8189	ACCESSORY KIT, ASSY, ACCY, BLUETOOTH ACCY KIT, SP, 12 CBL, NCHGR	\$239.00
E		E		L-E	L-E	L-E	L-E	L-E			NNTN8294	Operations Critical Wireless Earbud with 11.4" cable, inline mic, BLACK. Must be ordered with NNTN8127 wireless PTT Pod	\$40.00
E		E		L-E	L-E	L-E	L-E	L-E			NNTN8295	Operations Critical Wireless Earbud with 45.7" cable, inline mic, BLACK. Must be ordered with NNTN8127 wireless PTT Pod	\$40.00
E		E	L	L	L-E	L-E	L-E	L-E			NNTN8299	Replacement Eartips	\$3.15
L-E		E	L	L	L-E	L-E	L-E	L-E			NNTN8296	Wireless Covert Kit	\$180.00
E			L	L	L-E	L-E	L-E	L-E			PMLN7696	SURVEILLANCE, NECKLOOP AND DISCREET EARPIECE KIT	\$550.00
L-E			L	L	L-E	L-E	L-E	L-E			NNTN8385	Wireless Neckloop Y-adapter and retention hook	\$100.00
			L	L			L-E	L-E			NNTN8361	Eartips, Bulk Replacement	\$29.50
			L	L	L-E	L-E	L-E	L-E			NNTN8737	Commercial 3.5 Earbud Headset Adapter, Multipack (pk of 10 NNTN8309)	\$401.00
L-E	Y		L	L	L-E	L-E			Y		PMLN4620	D-Shell Receive Only Earpiece with 3.5mm plug for Remote Speaker Microphone - FM / UL Approved	\$19.57
L-E			L	L	L-E	L-E					PMLN7396	D-Shell Adjustable Earpiece	\$20.00
			L	L							PMLN5712*	Operation Critical Wireless Adapter (designed for radio software version R01.07.00 or later)	\$72.00
L-E	Y										PMLN7269	2-WIRE SURVEILLANCE KIT W/QUICK DISCONNECT CLEAR ACOUSTIC TUBE, BLACK	\$48.50
L-E	Y										PMLN7270	2-WIRE SURVEILLANCE KIT W/QUICK DISCONNECT CLEAR ACOUSTIC TUBE, BEIGE	\$48.50
L-E	Y										PMLN6754	IMPRES 3-Wire Surveillance Kit with quick disconnect translucent tube, black	\$130.00
L-E	Y										PMLN6755	IMPRES 3-Wire Surveillance Kit with quick disconnect translucent tube, Beige	\$130.00
L-E	Y										PMLN5727	Earpiece Inline Microphone/PTT, Swivel, MagOne	\$36.00
L-E	Y										PMLN5732	Earsset w/ Boom Microphone, Mag One	\$30.00
							L-E		Y		PMLN7156	Mag One Earbud with in-line microphone and push-to-talk	\$20.00
L-E	Y			E	E		L-E	L-E	Y		PMLN5733	Mag One Earbud with inline microphone and PTT	\$20.00
		E					L-E	L-E	Y		PMLN7157	2-Wire Surveillance Kit with translucent tube, black	\$43.00
		E					L-E	L-E	Y		PMLN7158	SURV. EARPIECE, IN-LINE MIC & PTT	\$40.00
		E					L-E	L-E	Y		PMLN7189	SWIVEL EARPIECE, IN-LINE MIC & PTT	\$29.00
		E					L-E	L-E	Y		PMLN7159	Adjustable D-style earpiece with in-line microphone and push-to-talk, black	\$43.00
				L							PMLN5993**	MOTOTRBO Wireless Adapter FM	\$72.00
				L-E	L-E						PMLN6047	Audio Adapter With Molex Jack	\$110.00
			L	L	L-E	L-E					PMLN6095	Audio Adapter, In-Line PTT Adapter, GCAI	\$284.11
			L	L	L-E	L-E			Y		PMLN6123	IMPRES 3 Wire Surveillance Kit, with Translucent Tube, Black - FM / UL Approved	\$178.19
			L	L	L-E	L-E			Y		PMLN6124	IMPRES 3 Wire Surveillance Kit, with Translucent Tube, Beige - FM / UL Approved	\$178.19
			L	L	L-E	L-E			Y		PMLN6125	Receive Only Surveillance Kit, Black (single wire) - FM / UL Approved	\$41.20
			L	L	L-E	L-E			Y		PMLN6126	Receive Only Surveillance Kit, Beige (single wire) - FM / UL Approved	\$41.20
			L	L	L-E	L-E			Y		PMLN6127	IMPRES 2 Wire Surveillance Kit, Black - FM / UL Approved	\$108.15
			L	L	L-E	L-E			Y		PMLN6128	IMPRES 2 Wire Surveillance Kit, Beige - FM / UL Approved	\$108.15
			L	L	L-E	L-E			Y		PMLN6129	IMPRES 2 Wire Surveillance Kit w/ Translucent tube - Black - FM / UL Approved	\$125.66
			L	L	L-E	L-E			Y		PMLN6130	IMPRES 2 Wire Surveillance Kit w/ Translucent tube - Beige - FM / UL Approved	\$125.66
L-E	Y		L	L	L-E	L-E			Y		NNTN8459	1-Wire Surveillance Kit with translucent tube, black	\$61.80
L-E	Y										PMLN6635	Lightweight Over-the-Head Headset, Single Muff, In-line PTT and Boom Mic	\$88.50
L-E											PMLN6761	Ultra-Lite Behind-the-Head Headset	\$37.00
L-E											PMLN6759	IMPRES Temple Transducer with boom microphone and in-line push-to-talk	\$225.00
E			L	L	L-E	L-E	L-E	L-E			PMLN7052	1-Wire Surveillance Kit for OCV/MCW	\$52.00
			L	L	L-E	L-E					RLN4760	Small Custom Earpiece, Right Ear for Surveillance Kits	\$20.50
			L	L	L-E	L-E					RLN4761	Medium Custom Earpiece, Right Ear for Surveillance Kits	\$20.50
			L	L	L-E	L-E					RLN4762	Large Custom Earpiece, Right Ear for Surveillance Kits	\$20.50
			L	L	L-E	L-E					RLN4763	Small Custom Earpiece, Left Ear for Surveillance Kits	\$20.50
			L	L	L-E	L-E					RLN4764	Medium Custom Earpiece, Left Ear for Surveillance Kits	\$20.50
			L	L	L-E	L-E					RLN4765	Large Custom Earpiece, Left Ear for Surveillance Kits	\$20.50
L-E	Y		L	L	L-E	L-E			Y		RLN4941_XL	Receive-Only Earpiece with translucent tube, rubber eartip and 3.5mm plug (for use with Remote Speaker Microphone - FM / UL Approved)	\$85.00
					L-E	L-E			Y		RLN5313	1-Wire Earpiece with Clear Acoustic Tube, Black, 3.55 mm threaded	\$54.00
L-E			L	L	L-E	L-E					PMLN7560	Receive Only Earpiece with translucent tube and rubber eartip	\$58.00
			L	L	L-E	L-E					RLN5886	Surveillance Low Noise Kit (includes (1) rubber eartip for low noise environments)	\$20.00
			L	L	L-E	L-E					RLN5887	Surveillance Extreme Noise Kit (includes (2) foam earplugs for high noise environments)	\$32.00
L-E		E	L	L	L-E	L-E	L-E	L-E	Y		RLN6242	Low Noise Kit with translucent tube and 1 clear rubber eartip.	\$7.90
L-E			L	L	L-E	L-E	L-E	L-E			67009254001	Replacement standard clear rubber eartip. Pack of 10 (replacement for PMLN5724/PMLN5726 and PMLN5957)	\$9.95
			L	L	L-E	L-E					RLN6280	Replacement Standard Earpiece - Biege	\$14.00

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series
 E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e
 L-E: Applicable to both Legacy and Enhanced radios



MOTOTRBO HEADSETS

50/3300eXPR 3550	ULXPR 3000 Series	SL 3500e	XPR 6100	KPR 6350XPR 6550	XPR 6380XPR 6580	50/7350eXPR 7550/30/7380eXPR 7580/	SL 7550eSL 7550e	30/7580eSL 7590/7	ULXPR 7000 Series	MODEL NUMBER	DESCRIPTION	MSRP
			L	L	L	L-E	L-E		Y	PMLN5096	D-Style Earset with Boom Mic - FM / UL Approved	\$63.60
			L	L	L	L-E	L-E			PMLN5101	Temple Transducer - Intrinsicly Safe (FM)	\$250.80
	Y		L	L	L	L-E	L-E		Y	PMLN5102	Ultra Lightweight Headset - FM / UL Approved	\$88.58
			L	L	L	L-E	L-E			PMLN5275*	Heavy-Duty Headset with Noise Reduction	\$533.50
			L	L	L	L-E	L-E			REX4648	Replacement Foam Earpad and Windscreen	\$7.20
			L	L	L	L-E	L-E			PMLN6852	Heavy Duty Behind-the-Head Headset with Noise-Canceling boom microphone	\$330.00
			L	L	L	L-E	L-E			PMLN7466	Heavy Duty Over-the-Head Headset with Noise-Canceling boom microphone	\$330.00
			L	L	L	L-E	L-E		Y	PMLN6853	Heavy Duty Behind-the-Head Headset with Noise-Canceling boom microphone	\$442.90
			L	L	L	L-E	L-E		Y	PMLN7467	Heavy Duty Over-the-Head Headset with Noise-Canceling boom microphone	\$442.90
E			L	L	L	L-E	L-E			RLN6490	XBT Headset BTN, Heavy Duty Headset , BT	\$699.00
E			L	L	L	L-E	L-E			RLN6491	XBT HeadsetHB, Heavy Duty Headset , BT	\$699.00
			L	L	L	L-E	L-E			RLN6495	Boom Mic for XBT Headset (replacement part)	\$157.50
			L	L	L	L-E	L-E			RLN6496	Cooling Pads for XBT Headset (replacement part)	\$10.00
			L	L	L	L-E	L-E			RLN6497	Hygiene kit for XBT Headset (replacemnt part)	\$11.50
			L	L	L	L-E	L-E			RLN6498	Universal 5V PSU for XBT Headset (replacement part)	\$45.00
L-E										PMLN6760	Heavy Duty Behind-the-Head Headset with Noise-Canceling boom microphone	\$330.00
L-E	Y									PMLN6763	Heavy Duty Behind-the-Head Headset with Noise-Canceling boom microphone, TIA4950	\$442.90
L-E										PMLN7464	Heavy Duty Over-the-Head Headset with Noise-Canceling boom microphone	\$330.00
L-E	Y								Y	PMLN7465	Heavy Duty Behind-the-Head Headset with Noise-Canceling boom microphone, TIA4950	\$442.90
			L	L	L	L-E	L-E			RMN5058	Lightweight Headset - Intrinsicly Safe (FM)	\$92.70
			L	L	L	L-E	L-E			RMN5137	3M Peltor MT Series 2-Way Comm Headset, MT7H79A Headband	\$440.26
			L	L	L	L-E	L-E			RMN5138	3M Peltor MT Series 2-Way Comm Headset, MT7H79B Neckband	\$440.26
			L	L	L	L-E	L-E			RMN5139	3M Peltor MT Series 2-Way Comm Headset, MT7H79P3E - Hard Hat Attachment	\$440.26
			L	L	L	L-E	L-E			RMN4052	HEADSET, TACTICAL W/BOOM MIC (requires adapter PMLN6095)	\$349.50
			L	L	L	L-E	L-E			RMN4057	HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector	\$130.50
			L	L	L	L-E	L-E			RMN4056	HT Series Listen Only Over-The-Head Headset with 3.5mm threaded connector	\$130.50
L-E			L	L	L	L-E	L-E			RMN5133	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector	\$132.09
L-E			L	L	L	L-E	L-E			RMN5132	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector	\$132.09
			L	L	L	L-E	L-E			RMN5135	3M PELTOR TACTICALPRO 2-WAY COMM HDST MT15H7B-07-34 5V, NECKBAND (requires adapter PMLN6095)	\$349.50
L-E			L	L	L	L-E	L-E			RMN4053	TACTICAL HARDHAT MOUNT HDST W/BOOM (requires adapter PMLN6095)	\$349.50
			L	L	L	L-E	L-E			RMN4055	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector	\$146.77
			L	L	L	L-E	L-E			RMN4053	TacticalPro Series Hard Hat Attached with Nexus connector (requires adapter PMLN6095)	\$349.50
			L	L	L	L-E	L-E			RMN5135	TacticalPro Series Neckband Headset with Nexus connector	\$349.50
			L	L	L	L-E	L-E			RMN4052	TacticalPro Series Over-The-Head Headset with Nexus connector (requires adapter PMLN6095)	\$349.50
			L	L	L	L-E	L-E			RMN4051	MT Series Hard Hat Attached with Nexus connector (requires adapter PMLN6095)	\$269.10
			L	L	L	L-E	L-E			RLN6477	MT Series Neckband Headset with Nexus connector (requires adapter PMLN6095)	\$269.10
			L	L	L	L-E	L-E			PMLN6088	MT Series Over-the-Head Headset with Nexus connector (requires adapter PMLN6095)	\$269.10
			L	L	L	L-E	L-E			PMLN6095	AUDIO ADAPTER,IN-LINE PTT ADAPTER, GCAI	\$284.11
			L	L	L	L-E	L-E			PMLN6830	Tactical Remote Ring PTT (For use with interface module PMLN6827)	\$52.00
			L	L	L	L-E	L-E			PMLN6767	Tactical Remote Body PTT (For use with interface module PMLN6827)	\$182.00
			L	L	L	L-E	L-E			PMLN6833	Tactical Temple Transducer with Noise-Canceling boom microphone (Requires interface module PMLN6827)	\$324.00
			L	L	L	L-E	L-E			PMLN6827	Tactical PTT Interface Module	\$234.00

* = 24dB FM includes a Noise-Canceling Boom Microphone for use with or without a hardhat. PTT switch on earcup - FM / UL Approved

US VERSION

L: Legacy models - Applicable to XPR 4000/6000, XPR 3000/5000/7000 and SL 7000 series
 E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e
 L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO MICROPHONES

30/3300eXPR 3550	XPR 3000 Series	SL 3500e	XPR 6100	XPR 6350	XPR 6550	XPR 6380	XPR 6580	30/7350eXPR 7550,30/7380eXPR 7580, SL 7550BL 7550e	30/7580eSL 7590/7	UL XPR 7000 Series	MODEL NUMBER	DESCRIPTION	MSRP
								L-E	L-E		RLN6562	Operations Critical Wireless Remote Speaker Microphone with Battery and Belt clip and Dual Unit Charger	\$265.00
			L	L	L			L-E	L-E	Y	NNTN8382*	IMPRES Industrial Noise Cancelling Microphone - Submersible (IP57) - UL Approved	\$221.45
			L	L	L			L-E	L-E	Y	NNTN8383*	IMPRES Industrial Noise Cancelling Microphone with threaded 3.5mm audio jack - UL Approved	\$226.60
			L	L	L			L-E	L-E	Y	PMMN4024*	Remote Speaker Microphone with 3.5mm audio jack - FM / UL Approved	\$88.00
			L	L	L			L-E	L-E	Y	PMMN4025_L	IMPRES Remote Speaker Microphone with 3.5mm audio jack - FM / UL Approved	\$105.00
			L	L	L			L-E	L-E	Y	PMMN4040	Remote Speaker Microphone - Submersible (IP57) - FM / UL Approved	\$88.00
				L	L						PMMN4041**	IMPRES Public Safety Microphone, 30" Cable	\$136.00
				L	L						PMMN4042**	IMPRES Public Safety Microphone, 24" Cable Intrinsically Safe (FM)	\$136.00
				L	L						PMMN4043**	IMPRES Public Safety Microphone, 18" Cable Intrinsically Safe (FM)	\$136.00
			L	L	L			L-E	L-E	Y	PMMN4046_L	IMPRES Remote Speaker Microphone with Volume - Submersible (IP57) - FM / UL Approved	\$103.00
				L	L						PMMN4047**	IMPRES Public Safety Microphone, 30" Cable - Submersible (IP57) Intrinsically Safe (FM)	\$228.50
				L	L						PMMN4048**	IMPRES Public Safety Microphone, 24" Cable - Submersible (IP57) Intrinsically Safe (FM)	\$228.50
				L	L						PMMN4049**	IMPRES Public Safety Microphone, 18" Cable - Submersible (IP57) Intrinsically Safe (FM)	\$228.50
			L	L	L			L-E	L-E	Y	PMMN4050	IMPRES Remote Speaker Microphone w/3.5mm Earjack, Noise Cancelling - FM / UL Approved	\$105.00
L-E	Y										PMMN4071_L	IMPRES RSM large 3.5 jack NC / UL Approved	\$106.00
L-E	Y										PMMN4073_L	IMPRES Windporting RSM, small 3.5 jack / UL Approved	\$91.00
L-E	Y										PMMN4075	RSM, small IP57, no Emerg / UL Approved	\$75.00
L-E	Y										PMMN4076	RSM small 3.5 jack, no Emerg / UL Approved	\$73.00
		y						L-E	L-E		PMMN4099	REMOTE SPEAKER MICROPHONE,IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	\$145.00
			L	L	L			L-E	L-E	Y	PMMN4125	REMOTE SPEAKER MICROPHONE WITH 2.5MM CONNECTOR	\$122.00
			L	L	L			L-E	L-E		BDN6719	One-wire Flexible Ear Receiver, black. Compatible with NNTN8383 only.	\$36.05
			L	L	L			L-E	L-E		RLN6074	Remote Speaker Microphone Replacement Coil Cord Kit (for PMMN4024 and PMMN4040)	\$70.00
			L	L	L			L-E	L-E		RLN6075	Remote Speaker Microphone Replacement Coil Cord Kit (for PMMN4025, PMMN4046, and PMMN4050)	\$85.00

Microphones: In order to support GPS with a Public Safety Microphone, both Radio and Microphone must have an Antenna.
 * When connected to the XPR 7550 IS CSA radio, it should only be used in digital mode)
 ** Antenna sold separately - PMAE4046, PMAE4047, PMAE4048, PMAD4087, PMAD4086. Listed within Antenna Section) - Intrinsically Safe (FM)

US VERSION											
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E: Enhanced models - Applicable to XPR 3000e/5000e/7000e, SL 7000e series and SL 3500e											
L-E: Applicable to both Legacy and Enhanced radios											
Call Boxes:											
Allows for integration into most existing radio systems and provides direct access to personnel connected to the system. Allows for expansion of security coverage and can help improve response time without the need for additional personnel. Includes a voice instruction message for the user, automatic call box ID and user location identifiers, a courtesy light, easy push-to-talk operation, a silent tamper alert broadcast to security, low battery alert, 40-day standby battery capacity, one 12-volt, 12 amp/hour rechargeable battery, call box keys and tamper resistant screw bits. <i>Price does not include radio or installation. Remote speaker microphone cable and BNC antenna adaptor for the particular radio model must be supplied by the reseller.</i>											
Note 1: Use Call Box RF Kits (HK2079A, HK2080A, HK2081A) for RF module. These kits use SMA type antenna connector. https://docs.google.com/spreadsheets/d/1880Fn3nXQBDGPv0K0VWVvOzZ_mAqX211_snQeplqgKM/edit#gid=1148637263											
For radio integration into the Call Box/RTU please contact the specific call box/RTU manufacturer.											
CALL BOXES AND PERIPHERALS											
10/2300eMPR 3550	SL 3500e	XPR 6100	KPR 6350MPR 6550	KPR 6380MPR 6580	10/7350eMPR 7550	10/7380eMPR 7580	SL 7550L 7550e	10/7580eSL 7590/7	MODEL NUMBER	DESCRIPTION	MSRP
									HK2079	Call Box RF Kit FKP Display "e" model 5W 136-174 MHz	\$958.33
									HK2080	Call Box RF Kit FKP Display "e" model 4W 403-512 MHz	\$958.33
									HK2081	Call Box RF Kit FKP Display "e" model 2.5W 800/900 MHz	\$958.33
										Call Box RF Kits do not include antenna, battery, belt clip, dust connector, or charger	
										A1 Call Boxes - Field programmable. Mounts on a wall, or on a PVC or aluminum stanchion. Solar or AC/DC power. The .090 thick aluminum enclosure with white powder coat measures 13"H x 9.5"W x 6.5"D. Provides protection against dust and falling rain. For indoor and outdoor use. Includes antenna and set of small reflective decals.	
		L	L	L	note 1	note 1			RRDN4362	Solar Wall or Pole Mounting	\$2,565.00
		L	L	L	note 1	note 1			RRDN4363	AC/DC Wall or Pole Mounting	\$2,465.00
		L	L	L	note 1	note 1			RRDN4365	Solar with Aluminium Stanchion (A1010) w/o Base Pedestal	\$3,395.00
		L	L	L	note 1	note 1			RRDN4366	AC/DC with Aluminium Stanchion (A1010) w/o Base Pedestal	\$3,295.00
		L	L	L	note 1	note 1			RRDN4444	A1A1010 Base Pedestal	\$450.00
									A106.5 Call Boxes - Freestanding. Solar or AC/DC power. The .090 thick, white powder-coated aluminum box measures 6.5" H x 14" W x 7.5" D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10		
		L	L	L	note 1	note 1			RRDN4588	Solar Powered w/o Base Pedestal	\$2,795.00
		L	L	L	note 1	note 1			RRDN4589	AC/DC w/o Base Pedestal	\$2,695.00
		L	L	L	note 1	note 1			RRDN7776	A106.5 Base Pedestal	\$450.00
									A1410 Call Boxes - Self-standing. The .090 thick aluminum stanchion with white powder coat measures 10" H x 14" W x 7.5" D. Thick, clear Lexan faceplate cover and includes an activation ringer, antenna and set of large reflective decals. 10		
		L	L	L	note 1	note 1			RRDN4369	Solar Powered	\$3,400.00
		L	L	L	note 1	note 1			RRDN4370	AC/DC w/o Base Pedestal	\$3,300.00
		L	L	L	note 1	note 1			RRDN4447	A1410 Base Pedestal	\$450.00
		L	L	L	note 1	note 1			RRDN7782	A1410 Solar w/o Base Pedestal, with Public Address System (PA)	\$3,745.00
									A144 Call Boxes - Flexibility. Can be wall or pole mounted for convenient accessibility. The .090 thick, white, powder-coated aluminum enclosure measures 4" H x 14" W x 7.5" D. Includes a 6-watt locator LED that converts to a strobe light when		
		L	L	L					RRDN4590	Solar Wall or Pole Mounting	\$3,275.00
		L	L	L					RRDN4591	AC/DC Wall or Pole Mounting	\$3,175.00
									A1510 Call Boxes		
		L	L	L	note 1	note 1			RRDN7777	Solar w/o Base Pedestal	\$3,445.00
		L	L	L	note 1	note 1			RRDN7778	Solar w/o Base Pedestal, with Public Address System (PA)	\$4,000.00
		L	L	L	note 1	note 1			RRDN7779	AC/DC w/o Base Pedestal	\$3,345.00
		L	L	L	note 1	note 1			RRDN7780	AC/DC w/o Base Pedestal, with Public Address System (PA)	\$3,910.00
		L	L	L	note 1	note 1			RRDN7781	A1510 Base Pedestal	\$348.00
									ACB Call Boxes - Push-to-talk communication. No door to open. The indoor/outdoor wall mount aluminum enclosure is .090 thick		
		L	L	L	note 1	note 1			RRDN4367	Solar Wall or Pole Mounting	\$2,775.00
		L	L	L	note 1	note 1			RRDN4368	AC/DC Wall or Pole Mounting	\$2,675.00
		L	L	L	note 1	note 1			RRDN7783	Mass Notification System	\$1,945.00

US VERSION

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E: Enhanced models - Applicable to XPR 3000e/5000e/7000e and sl 7000e series

L-E: Applicable to both Legacy and Enhanced radios

MOTOTRBO MOBILE ACCESSORIES

XPR 2500	XPR 4350e/XPR 4550	XPR 4380e/XPR 4580	3350/3350e/XPR 5550/5	380/5380e/XPR 5580/5	MODEL NUMBER	DESCRIPTION	MSRP
Antennas: The following antennas are intended for customers that would like one combined antenna for UHF and GPS:							
	L		L-E		HA6019	GPS/UHF 450-527 MHz 2dB Gain	\$157.00
	L		L-E		HA6020	GPS/UHF 470-527 MHz 1/4 Wave	\$137.00
	L		L-E		HA6024	GPS/UHF 470-494 MHz 3.5dB Gain	\$147.00
	L		L-E		HA6026	GPS/UHF 494-512 MHz 3.5dB Gain	\$147.00
	L	L	L-E	L-E	HA6027	UHF Antenna Kit 494-512 MHz, 3 dB Gain, Through-hole Mount	\$42.00
	L	L	L-E	L-E	HA6028	UHF Antenna Kit 470-494 MHz, 3 dB Gain, Through-hole Mount	\$42.00
	L	L	L-E	L-E	HA6029	UHF Antenna Kit 403-527 MHz, 2 dB Gain, Through-hole Mount	\$57.00
	L	L	L-E	L-E	HA6030	UHF Antenna Kit 470-527 MHz, 1/4 Wave, Through-hole Mount	\$22.50
		L	L-E	L-E	HAF4029	Combination GPS+RF, 806-941 MHz, 1/4 Wave, Through-hole Mount, Mini-U	\$116.00
		L	L-E	L-E	HAF4030	Combination GPS+RF, 806-941 MHz, 3dB gain, Through-hole Mount, Mini-U	\$144.50
		L	L-E	L-E	HAF4032	Combination GPS+RF, 806-941 MHz, 5dB gain, Through-hole Mount, Mini-U	\$135.00
		L	L-E	L-E	HAF4033	Combination GPS+RF, 806-941 MHz, 5dB gain, Through-hole Mount, Mini-U	\$152.50
	L		L-E		PMAE4030	Combination GPS/UHF, 1/4 Wave Through-hole Mount Antenna (403-430MHz)	\$126.00
	L		L-E		PMAE4031	Combination GPS/UHF, 1/4 Wave Through-hole Mount Mount Antenna (450-470MHz)	\$126.00
	L		L-E		PMAE4032	Combination GPS/UHF, 3.5dB Gain Through-hole Mount Mount Antenna (406-420MHz)	\$157.00
	L		L-E		PMAE4033	Combination GPS/UHF, 3.5dB Gain Through-hole Mount Mount Antenna (450-470MHz)	\$157.00
	L		L-E		PMAE4034	Combination GPS/UHF, 5dB Gain Through-hole Mount Mount Antenna (450-470MHz)	\$157.00
	L		L-E		RAD4214	Combination GPS/VHF, 1/4 Wave Through-hole Mount Antenna (136-144 MHz)	\$126.00
	L		L-E		RAD4215	Combination GPS/VHF, 1/4 Wave Through-hole Mount Antenna (146-150.8 MHz)	\$126.00
	L		L-E		RAD4216	Combination GPS/VHF, 1/4 Wave Through-hole Mount Antenna (150.8-162 MHz)	\$126.00
	L		L-E		RAD4217	Combination GPS/VHF, 1/4 Wave Through-hole Mount Antenna (162-174 MHz)	\$126.00
	L		L-E		RAD4218	Combination GPS/VHF, 3.0dB Gain Through-hole Mount Antenna (146-172 MHz)	\$157.00
The following antennas are intended for customers that have existing mobile antennas and want to add GPS capability:							
	L	L	L-E	L-E	PMAN4000	Fixed Mount GPS Active Antenna	\$104.50
	L	L	L-E	L-E	PMAN4001	Window Mount GPS Active Antenna	\$42.50
	L	L	L-E	L-E	PMAN4002	Mag Mount GPS Active Antenna	\$36.50
The following antennas are intended for customers who do not plan to use GPS:							
L	L		L-E		HAD4006	VHF 1/4 Wave Through-hole Mount Antenna, 136-144 MHz	\$24.00 N
L	L		L-E		HAD4007	VHF 1/4 Wave Through-hole Mount Antenna, 146-150.8 MHz	\$24.00 N
L	L		L-E		HAD4008	VHF 1/4 Wave Through-hole Mount Antenna, 150.8-162 MHz	\$24.00 N
L	L		L-E		HAD4009	VHF 1/4 Wave Through-hole Mount Antenna, 162-174 MHz	\$24.00 N
L	L		L-E		HAD4014	VHF 3.0dB Gain Through-hole Mount Antenna, 146-172 MHz	\$65.50 N
L	L		L-E		HAD4022	VHF 3.0dB Gain, Through-Hole Mount, Mini-U, 132-174 MHz	\$65.50 N
L	L		L-E		HA4002	UHF 1/4 Wave Through-hole Mount Antenna, 403-430 MHz	\$35.00 N
L	L		L-E		HA4003	UHF 1/4 Wave Through-hole Mount Antenna, 450-470 MHz	\$21.50 N
L	L		L-E		HA4004	UHF 1/4 Wave Through-hole Mount Antenna, 470-527 MHz	\$21.50
L	L		L-E		HA4011	UHF 3.5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$77.50 N
L	L		L-E		HA4013	UHF 3.5dB Gain Through-hole Mount Antenna, 494-512 MHz	\$72.00
L	L		L-E		HA6022	UHF 2dB Gain Through-hole Mount Antenna, 403-470MHz	\$64.50 N
L	L		L-E		RAE4004ARB	UHF 5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$92.00 N
L	L		L-E		RAE4163ARB	UHF Stubby Through-hole Mount Antenna, 410-430 MHz	\$61.00
L	L		L-E		RAE4164ARB	UHF Stubby Through-hole Mount Antenna, 430-450 MHz	\$61.00
L	L		L-E		RAE4168ARB	UHF Stubby Through-hole Mount Antenna, 450-470 MHz	\$61.00
800/900MHz Non-GPS Antennas only:							
		L		L-E	HAF4013	7/8/900 MHz, stubby, Through-hole Mount, Mini-U	\$43.00
		L		L-E	HAF4025	806-941 MHz, 1/4 Wave, Through-hole Mount, Mini-U	\$28.00
		L		L-E	HAF4026	806-941 MHz, 3 dB gain, Through-hole Mount, Mini-U	\$57.00
		L		L-E	HAF4027	806-941 MHz, 5 dB gain, Through-hole Mount, Mini-U	\$62.00
Replacement Antennas:							
		L		L-E	0104036I89	NMO Perm Mnt,17 ft RG58/U, Mini-UHF, Rounded Center Pin Loose	\$12.00
		L		L-E	HAF4019	Antenna only, 806-941 MHz, 1/4 Wave	\$20.00
		L		L-E	HAF4020	Antenna only, 806-941 MHz, 3dB gain	\$46.00
		L		L-E	HAF4022	Antenna only, 806-941 MHz, stubby	\$35.75
		L		L-E	HAF4023	Antenna only, 806-941 MHz, 5dB gain	\$51.00
		L		L-E	PMAN4004	Combo GPS+RF, Base Only, Through-hole Mount, Mini-U	\$104.50
Cables:							
L	L	L	L-E	L-E	HKN4137	Power Cable to Battery (10 feet, 15 amp)	\$18.00
L	L	L	L-E	L-E	HKN4191	Power Cable to Battery (10 feet, 20 amp)	\$18.00
L	L	L	L-E	L-E	HKN4192	Power Cable to Battery (20 feet, 20 amp)	\$38.33
L					HKN9327_R	Ignition Sense Cable	\$15.00
	L	L	L-E	L-E	PMKN4163	USB Programming Cable for Mobile MIC w/BT Gateway (PMMN4097)	\$20.00
	L	L	L-E	L-E	RKN4136	Ignition Sense Cable	\$35.00
Control Station Accessories:							
L	L	L	L-E	L-E	3060665A04	AC Power Supply Cable (works with GPN6145 Power Supply)	\$30.00
L	L	L	L-E	L-E	GKN6266	DC Power Supply Cable (works with GPN6145 Power Supply)	\$30.00
L	L	L	L-E	L-E	GLN7318	Desktop Tray without Speaker	\$40.00
L	L	L	L-E	L-E	GLN7326	Desktop Tray with Speaker	\$82.50
L	L	L	L-E	L-E	HKN9088	Mobile Mini-U Antenna Adapter - 8 Ft. Cable	\$40.25
L					HNL9457		\$6.95

L	L	L	L-E	L-E	HPN4007	Hardware Kit for use with the Expanded Accessory Connector (includes 16 connector pins, five (5) 8" wires with pins attached and an extra Power Supply and Cable (1-60 Watt Models)	\$296.00
	L	L	L-E	L-E	PMLN5072	Hardware Kit for Rear Accessory Connector	\$6.00
L	L	L	L-E	L-E	PMMN4098	Desktop Microphone	\$120.00
	L	L	L-E	L-E	RMN5050	Desktop Microphone	\$120.00
	L	L	L-E	L-E	RSN4005	Desktop Tray with Speaker	\$84.00
Handheld Control Head Accessories:							
			L-E	L-E	PMLN7131	MOTOTRBO Handheld Control Head for XPR 5550 /5550e/ 5580/5580e	Call For Pricing
			L-E	L-E	PMKN4174	16ft Extension Cable for MOTOTRBO Handheld Control Head (for XPR 5550/5550e / 5580/5580e)	Call For Pricing
Handsfree Accessories:							
L					RLN4856	Footswitch with Remote PTT	\$61.75
L					RLN4857	Pushbutton with Remote PTT	\$38.50
	L	L	L-E	L-E	RLN5926	Push Button PTT	\$39.00
	L	L	L-E	L-E	RMN5054 ¹	IMPRES Visor Microphone	\$60.00
Loudspeakers:							
L					HSN8145	7.5 Watt External Speaker	\$47.50
L					RSN4001	13 Watt External Speaker	\$66.00
	L	L	L-E	L-E	RSN4002	13 Watt External Speaker	\$66.00
	L	L	L-E	L-E	RSN4003	7.5 Watt External Speaker	\$48.00
	L	L	L-E	L-E	RSN4004	5 Watt External Speaker	\$44.00
Microphones:							
	L	L	L-E	L-E	3075336807	Compact Microphone Replacement Cable	\$35.00
	L	L	L-E	L-E	3075336810	Heavy Duty / Keypad Microphone Replacement Cable	\$35.00
L					GMMN4065	Visor Microphone (Omni-Direction). Supports Remote Monitor.	\$58.00
L					HLN9073	Microphone Hang-up Clip (requires install)	\$1.10
L					HLN9414	Microphone Hang-up Clip (Universal – no install required)	\$11.00
	L	L	L-E	L-E	HMN4098 ¹	IMPRES Telephone Style Handset	\$195.00
	L	L	L-E	L-E	PMKN4033	Microphone Extension Cable for RMN5052 - 10 feet	\$42.00
	L	L	L-E	L-E	PMKN4034	Microphone Extension Cable for RMN5052 - 20 feet	\$48.00
L					PMMN4089	Enhanced Keypad Microphone. Supports Remote Monitor.	\$99.00
L					PMMN4090	Compact Microphone with Clip. Does not support Remote Monitor.	\$40.00
L					PMMN4091	Heavy Duty Microphone. Does not support Remote Monitor.	\$81.50
	L	L	L-E	L-E	PMMN4097	Mobile Mic with Bluetooth Gateway	\$215.00
			L-E	L-E	RLN6490	XBT Behind-the-Neck Heavy Duty Headset with Bluetooth	\$699.00
			L-E	L-E	RLN6491	XBT Headband Style Heavy Duty Headset with Bluetooth	\$699.00
	L	L	L-E	L-E	RMN5052 ¹	Compact Microphone	\$54.00
	L	L	L-E	L-E	RMN5053 ¹	IMPRES Heavy Duty Microphone	\$85.50
	L	L	L-E	L-E	RMN5065	IMPRES Keypad Microphone Alpha Numeric Display only)	\$140.00
	L	L	L-E	L-E	RMN5127 ¹	IMPRES 4-way Navigation Keypad Mic (Alpha numeric Display only)	\$155.00
Mounting Accessories:							
L					FTN6083	DIN Mount Kit	\$40.00
	L	L	L-E	L-E	HLN9073	Microphone Hang-Up Clip (all microphones)	\$1.10
	L	L	L-E	L-E	HLN9414	Universal Hang-Up Clip (all microphones)	\$11.00
	L	L	L-E	L-E	HKN9557	PL259/Mini-U Antenna Adapter - 8' Cable	\$12.00
	L	L			RLN5933	In Dash (DIN) Mounting Kit	\$30.00
	L	L			RLN6077	Low Profile Trunnion Kit (this is the trunnion kit that ships standard with the radio (RLN6076), but is packaged for standalone sales)	\$16.00
	L	L			RLN6078	High Profile Trunnion Kit	\$21.00
	L	L			RLN6079	Key Lock Trunnion Kit	\$122.00
	L	L	L-E	L-E	RLN6465	In-Dash Mounting Kit - DIN	\$30.00
L			L-E	L-E	RLN6466	Low Profile Trunnion Kit (this is the trunnion kit that ships standard with the XPR5350 / XPR5550/ XPR2500 radios (RLN6469), but is packaged for standalone sales)	\$16.00
L			L-E	L-E	RLN6467	High Profile Trunnion Kit	\$21.00
L			L-E	L-E	RLN6468	Key Lock Trunnion Kit	\$122.00
Remote Mount Adaptor Kit Accessories:							
	L	L			PMKN4073	MOTOTRBO Mobile Remote Mount 5 Meter Cable Kit to use with PMLN5404A	\$65.00
	L	L			PMKN4074	MOTOTRBO Mobile Remote Mount 3 Meter Cable Kit to use with PMLN5404A	\$55.00
	L	L			PMLN5404	MOTOTRBO Mobile Remote Mount Adaptor Kit	\$110.00
			L-E	L-E	PMLN6404	Note: Firmware version R02.0611 or later MUST be programmed into the Mobile radio unit for proper operation	\$110.00
			L-E	L-E	PMKN4143	XPR 5000/5000e Mobile Remote Mount 3 Meter Cable for use with PMLN6404	\$55.00
			L-E	L-E	PMKN4144	XPR 5000/5000e Mobile Remote Mount 5 Meter Cable for use with PMLN6404	\$65.00
			L-E	L-E	PMLN6404	XPR 5000/5000e Mobile Remote Mount Adaptor Kit (place orders on May 1 and shipments begin on May 15)	\$110.00
						Note: Firmware version R02.06.11 or later MUST be programmed into the Mobile radio unit for proper operation of the Remote Mount Control Head configuration. For in-trunk installation, may also need a 20' radio power cable HKN4192. Cables not included, please select	
Replacement Button Kits:							
		L			HKLN4291	Standard Button Kit, XPR™ 4500, XPR™ 4550 (Monitor, Scan, Backlight, Emergency, Talkaround, Text Message, Contacts)	\$23.65
	L	L			HKLN4292	Button Kit, XPR™ 4500, XPR™ 4550 (Remote Monitor, Radio Check, Radio Disable, VOX)	\$11.29
	L	L			HKLN4293	Standard Button Kit, XPR™ 4300 (Monitor, Scan)	\$9.03
Service Equipment: Pricing for service parts can be found on MOL or by contacting Customer Service							
	L	L	L-E	L-E	HKN6184	Mobile Front Programming Cable	Call for pricing
	L	L			HLN7001	Option Board Interface Kit	\$15.05
L	L	L	L-E	L-E	HKVN4101	MOTOTRBO Radio Management (RM) license (Price quantity discount applies: 1 - 499; 500 - 999; 1000 - 4999; 5000 +). Radio Management (RM) provides a faster and more efficient way to manage and make updates to radios in a wired or over the air programming (OTAP) configuration. Each license allows for 1 additional radio to be added to RM database. Note: RM supports all MOTOTRBO radios in a wired configuration. For OTAP, you must use the XPR 4000 & XPR 5000 radios only.	\$0.00
	L	L	L-E	L-E	PMKN4010	Mobile and Repeater Rear Programming Cable	Call for pricing
	L	L	L-E	L-E	PMKN4016	Mobile and Repeater Rear Programming, Test and Alignment Cable	Call for pricing
	L	L	L-E	L-E	PMKN4018	Mobile Rear Accessory Connector Universal Cable	Call for pricing

L					PMKN4147	MMP Telco Programming Cable		Call for pricing
L					PMKN4148	MAP Programming Cable w/ USB		Call for pricing
L					PMKN4149	MAP Test Cable w/ USB		Call for pricing
L					PMKN4150	MAP Test Cable w/ DB25		Call for pricing
L					PMKN4151	MAP Universal Cable		Call for pricing
L	L	L		L-E	PMLNS496	MOTOTRBO Expansion Card (Option Board)		Call for pricing
L	L	L		L-E	RLN4460	Test Box for Portables and Mobiles		Call for pricing
L	L	L		L-E	HKVN4362	For MOTOTRBO CPS/RM pricing and details, see the link below:		Call for pricing
					HKVN4622	https://docs.google.com/spreadsheets/d/1fxphmVGAso90UHN-ljto5_HfuaYAcxPkAaVXFntGt4/edit?usp=sharing		
User Manuals:								
L					68009613001	MOTOTRBO XPR 2500 Alpha Numeric User Guide (PDF Only)		
L					68009620001	XPR 2500 Basic Service Manual (PDF Only)		
				L-E	68009515001	MOTOTRBO XPR 5000 Series Mobile Basic Service Manual		\$30.00
	L	L		L-E	688030912	MOTOTRBO System Planner		\$30.00
	L	L			6880309721	MOTOTRBO Mobile Basic Service Manual		\$30.00
	L	L			6880309722	MOTOTRBO Mobile Detailed Service Manual		\$50.00
	L	L		L-E	6880309723	MOTOTRBO Mobile Installation Guide		\$20.00
	L	L			HLN4284	Mobile User Guide CD Kit (Includes User Guides in English and French Canadian)		\$10.00
Wireless Accessories:								
	L	L		L-E	25012022001	Power Supply for Dual Unit Charger		\$25.57
	L	L		L-E	AARLN4885	Receive-Only Earbud		\$25.75
	L	L		L-E	HLN5391	Hang Up Clip, required for vehicular charger		\$18.00
				L-E	NNTN8125	Operations Critical Wireless Earpiece with 12" cable		\$239.00
				L-E	NNTN8127	Wireless Push-to-Talk Pod with power supply (Not compatible with SMARTNET/Privacy Plus, Connect Plus, or LTR/PassPort modes of operation)		\$112.00
				L-E	NNTN8294	Operations Critical Wireless Earbud with 11.4" cable, inline mic, BLACK. Optimized to work with the Intelligent Audio feature. Must be ordered with NNTN8127 wireless PTT Pod		\$40.00
				L-E	NNTN8295	Operations Critical Wireless Earbud with 45.7" cable, inline mic, BLACK. Optimized to work with the Intelligent Audio feature. Must be ordered with NNTN8127 wireless PTT Pod		\$40.00
				L-E	NNTN8299	Replacement Eartips		\$3.15
				L-E	NNTN8361	Replacement ear tips kit for wireless ear buds (20 Small, 20 Medium, 20 Large and 10 clips)		\$29.50
				L-E	NTN2572	Replacement Wireless Earpiece, 12" cable		\$156.00
				L-E	NTN2575	Replacement Wireless Earpiece, 9.5" cable		\$156.00
				L-E	NTN8821	Wireless Earpiece Maintenance Kit with 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for comfort earpiece		\$46.00
				L-E	NTN8988	Ear strap for comfort earpiece (pack of 10)		\$17.25
				L-E	PMLN6246	Swivel clip for Operations Critical and Enhanced Operations Critical Wireless pods		\$4.50
	L	L		L-E	PMLN7120	Replacement Dual Unit Charger		\$65.00
	L	L		L-E	PMLN6716	Vehicular Travel Charger		\$72.00
	L	L		L-E	PMLN6743	Replacement Swivel Clip for Long Range Wireless RSM		\$2.50
				L-E	PMLN7052	Operations Critical Wireless 1-Wire Surveillance kit with translucent tube		\$52.00
				L-E	PMLN7203	Flexible Fit Swivel Earpiece with Boom		\$41.00
	L	L		L-E	PMMN4097	Replacement Mobile Microphone with Bluetooth Gateway		\$215.00
	L	L		L-E	PMNN4461	Replacement Battery Li-Ion 1800T		\$65.00
				L-E	PMPN4027	Replacement or spare micro-USB plug-in charger for wireless pod		\$15.00
	L	L		L-E	RLN4941_XL	Receive-Only Earpiece with Comfort Eartube		\$85.00
				L-E	RLN5037	Eartube for comfort earpiece (pack of 10)		\$40.00
				L-E	RLN6500	Bluetooth Accessory Kit with NA Power Supply		\$99.00
	L	L		L-E	RLN6544	Replacement Long Range Wireless RSM with Battery and Clip		\$250.00
				L-E	RLN6550	Wireless Earpiece, Bluetooth Accessory Kit Multi (Pack of 3 PMLN6397)		\$99.00
	L	L		L-E	RLN6551	Long Range Wireless RSM with Mobile Mic Bluetooth Gateway & Vehicular Charger. Not compatible with Connect Plus mode of operation		\$500.00
	L	L		L-E	RLN6552	Long Range Wireless RSM with Mobile Mic Bluetooth Gateway, No Charger, Not compatible with Connect Plus mode of operation		\$392.00
				L-E	RLN6556	Bluetooth Accessory Kit with flexible earpiece, Bluetooth pod, and charging cradle with power supply		\$99.00

¹ These audio accessories have been optimized to work with the Intelligent Audio feature in XPR 5000/5000e series

US VERSION

L: Legacy models - Applicable to CDM series, PM1200, PM1500 mobiles

PROFESSIONAL ANALOG MOBILE

ACCESSORIES

PM1200	CDM750/1250/1550	PM1500	MODEL NUMBER	DESCRIPTION	MSRP
Antennas:					
	L	L	HAD4006	VHF 1/4 Wave Through-hole Mount Antenna, 136-144 MHz	\$24.00
	L	L	HAD4007	VHF 1/4 Wave Through-hole Mount Antenna, 144-150.8 MHz	\$24.00
	L	L	HAD4008	VHF 1/4 Wave Through-hole Mount Antenna, 150.8-162 MHz	\$24.00
	L	L	HAD4009	VHF 1/4 Wave Through-hole Mount Antenna, 162-174 MHz	\$24.00
	L		HAD4014	VHF 3dB Gain Through-hole Mount Antenna, 140-174 MHz	\$65.50
		L	HAD4017	VHF 1/4 Wave Wideband Antenna, 146-174 MHz	\$50.25
		L	HAD4022	VHF 3dB Gain Through-hole Mount Antenna, 136-174 MHz 3.4 MHz Bandwidth	\$65.50
	L		HAE4002	UHF 1/4 Wave Through-hole Mount Antenna, 403-430 MHz	\$35.00
	L	L	HAE4003	UHF 1/4 Wave Through-hole Mount Antenna, 450-470 MHz	\$21.50
	L		HAE4004	UHF 1/4 Wave Through-hole Mount Antenna, 470-527 MHz	\$21.50
	L	L	HAE4011	UHF 3.5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$77.50
	L		HAE4013	UHF 3.5dB Gain Through-hole Mount Antenna, 494-512 MHz	\$72.00
		L	HAE6010	UHF 3.5dB Gain Antenna, 380-433 MHz	\$63.00
		L	HAE6013	UHF 2dB Wideband Gain Antenna 380-470 MHz	\$60.25
L	L		RAB4002ARB	Low Band 1/4 Wave Base Loaded Antenna, 29.7-36 MHz	\$72.50
L	L		RAB4003ARB	Low Band 1/4 Wave Base Loaded Antenna, 36-42 MHz	\$82.00
L	L		RAB4004ARB	Low Band 1/4 Wave Base Loaded Antenna, 42-50 MHz	\$75.25
	L		RAD4000AMB	VHF 3dB Gain Magnetic Mount Antenna, 140-174 MHz	\$90.00
	L	L	RAE4004AMB	UHF 5dB Gain Magnetic Mount Antenna, 440-470 MHz	\$120.00
	L		RAE4004ARB	UHF 5dB Gain Through-hole Mount Antenna, 450-470 MHz	\$102.00
		L	RAE4014ARB	UHF 5dB Gain Through-hole Mount Antenna, 445-470 MHz	\$110.25
Control Station Accessories:					
	L		GLN7318	Desktop Tray without Speaker	\$40.00
		L	HKN6188	Control Head / Ignition Sense Power Cable	\$28.00
	L		HKN9088	Mobile Mini-U Antenna Adapter - 8 Ft. Cable	\$40.25
	L		HPN4007	Power Supply and Cable (1-60 Watt Models)	\$296.00
	L		RMN5068	Desk Microphone, Black	\$120.00
Exchangeable Button Kits*					
PM1200	CDM750/1250/1550	PM1500			
	L		RLN4829	Standard Button Kit, CDM750: MON, SCAN	\$15.01
	L		RLN4830	Button Kit, CDM1250, CDM1550, CDM1550 LS & CDM1550 LS+: ZONE, XPAND, HI/LO, VSTR, Emergency Icon	\$19.35
	L		RLN4831	Standard Button Kit, CDM1250, CDM1550, CDM1550•LS & CDM1550•LS+: MON, SCAN, CALL, HOME, PHONE	\$19.35
<i>NOTE: Other individual exchangeable buttons are available through RPSD. See Basic Service Manual for button numbers.</i>					
Handsfree Accessories:					
PM1200	CDM750/1250/1550	PM1500			
L	L		AARMN4027	Visor Mounted Microphone	\$57.25
		L	HLN5113	Emergency Footswitch	\$61.75
		L	HLN5131	Emergency Pushbutton Switch	\$61.75
L	L		RLN4856	Footswitch PTT	\$61.75

L	L		RLN4857	Pushbutton PTT	\$38.50
PM1200	CDM750/1250/1550	PM1500	Installation and Alarm Accessories:		
L	L		GKN6272_R	External Alarm Relay and Cable	\$55.00
	L		HKN4137	Power Cable to Battery (10 feet, 15 amp)	\$18.00
	L		HKN4191	20 Amp High Power Cable to Battery	\$18.00
	L	L	HKN4192	Power Cable to Battery (20 feet, 20 amp)	\$38.33
	L	L	HKN4258	External Alarm Cable	Call for Price
L	L		HKN9327_R	Ignition Switch Cable	\$15.00
	L		HKN9557	PL259/Mini-U Antenna Adapter - 8" cable	\$12.00
	L		HLN9457	Hardware Kit for use with the Expanded Accessory Connector (includes 16 connector pins, five (5) 8" wires with pins attached and an extra housing)	\$6.95
		L	HLN6953	Alarm Buzzer	\$58.00
		L	HSN4038	External 7.5 Watt Water Resistant Remote Mount Speaker	\$60.50
PM1200	CDM750/1250/1550	PM1500	Installation and Alarm Accessories (continued):		
	L	L	HSN4040	3.2 OHM EXTERNAL SPEAKER ASSEMBLY	\$76.00
L	L		HSN8145	7.5 Watt External Speaker - for Receiver Audio	\$47.50
	L		RSN4001	13 Watt External Loudspeaker	\$66.00
PM1200	CDM750/1250/1550	PM1500	Microphones:		
L	L		AAREX4617	Telephone Style Handset with Hang-Up Cup (CDM - not for use with Dual Control Head)	\$132.00
L	L		AARMN4025	Compact Microphone (Supports Remote Monitor)	\$47.25
	L		AARMN4026	Enhanced Keypad Microphone (Supports Remote Monitor)	\$99.00
L	L		AARMN4038	Heavy Duty Microphone (Does Not Support Remote Monitor)	\$81.50
	L	L	HLN1457	Handset with Hang-Up Cup	\$285.00
	L		HLN9073	Microphone Hang-Up Clip (all microphones)	\$1.10
		L	HMN1089	Water Resistant Microphone	\$68.00
		L	HMN1090	Palm Microphone	\$75.00
		L	HMN4079	Enhanced Keypad Microphone	\$320.00
PM1200	CDM750/1250/1550	PM1500	Mounting Accessories:		
		L	5564610H02	Quick Release Lock (used with HLN6909)	Call for Price
	L		GLN7317	High Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	\$21.00
	L		GLN7324	Low Profile Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	\$13.25
		L	HKN6164	Remote Mount Cable 131 ft.	Call for Price
		L	HKN6165	Remote Mount Cable 115 ft.	Call for Price
		L	HKN6166	Remote Mount Cable 75 ft.	Call for Price
		L	HKN6167	Remote Mount Cable 50 ft.	Call for Price
		L	HKN6168	Remote Mount Cable 30 ft.	Call for Price
		L	HKN6169	Remote Mount Cable 17 ft.	Call for Price
		L	HKN6170	Remote Mount Cable 10 ft.	Call for Price
		L	HKN6186	Remote Mount Trunnion	Call for Price
		L	HLN6909	Quick Release High Power Trunnion (used with 5564610H02)	Call for Price
		L	HLN6910	High Power Trunnion (requires HLN6909 and 5564610H02)	\$103.00
	L		RLN4774	3 Point Mounting Bracket (LowBand)	\$20.00
	L		RLN4779	Key Lock Mounting Bracket (VHF, UHF, 200 MHz & 700 MHz)	Call for Price
	L		RLN4781	Direct in Dashboard Mounting Kit (VHF, UHF, 200 MHz & 700 MHz)	Call for Price
PM1200	CDM750/1250/1550	PM1500	Public Address and Accessories:		
	L		HKN9324_R	15 Ft. Public Address & Speaker Cable (one cable per speaker)	\$44.00

	L		HSN1006	External Speaker for Car Kit	\$104.00
	L		RLN5288	Public Address Kit - Includes Cable (requires HSN1006 Speaker)	\$419.00
PM1200	CDM750/1250/1550	PM1500	Remote Mounts: Note: both power cable & remote mount cable are required		
L			HKKN4018	Remote Mount Cable, 33 ft. (PM1200 only)	\$111.50
L			HKLN4331	Remote Mount Kit - PM1200	\$419.25
L			HKLN4340	Power Cable 20 ft.	\$66.00
L			HKLN4341	Remote Mount Cable, 17 ft. (PM1200 only)	\$57.50
	L		RKN4077	Remote Mount Cable, 3 meter length	\$8.25
	L		RKN4078	Remote Mount Cable, 5 meter length	\$10.50
	L		RKN4079	Remote Mount Cable, 7 meter length	\$13.00
	L		RLN4801	Remote Mount Kit - CDM750 models (requires HKN4192 power cable)	\$93.50
PM1200	CDM750/1250/1550	PM1500	Retrofit Kits:		
	L		6686119B01	Dismantling Tool	\$3.76
	L		AAHHLN4182	DTMF Decode Option Board - Field Install Only (only compatible with CDM1250 & CDM1550)	\$82.50
	L		AAHLN9725	Voice Storage Option Board - Field Install Only	\$74.75
		L	HK1321	PM1500 Single Control Head Retrofit Kit: includes (1) HKN6188A - Ignition Sense Cable, (1) HKN6186 - Control Head Bracket, (1) HSN4039A - External Speaker, (1) PMLN4907 - Control Head and (1) HMN1089A - Speaker Microphone. Remote Mount Cable must be purchased separately.	\$583.73
L			HKLN4345	Interface Boards for PM1200 Option Boards	\$36.00
L			HKLN4346	QC II Decoder Option Board (PM1200 only, requires HKLN4345)	\$43.00
	L		RLN4823	Mobile Option Board Installation Kit (required to install Option Boards)	\$18.00
PM1200	CDM750/1250/1550	PM1500	Service Equipment: Pricing for service parts can be found on MOL or by contacting Customer Service		
	L		1009422001	Supply 9 V DC, 1.5 A, WALL MOUNT	Call for pricing
	L		3080070N01	Programming Cable (connection from RIB to radio) (PM400 - requires FKN8096)	Call for pricing
	L		3080369B72	9 Pin PC to Radio Interface Box Cable (IBM AT or compatible)	Call for pricing
L	L		AARKN4083	Programming Cable (allows radio programming via rear accessory connector) (PM400 - requires FKN8113)	Call for pricing
	L		H5177	Portable & Mobile Programming Software Plus (CPS+) - 3 Year Subscription Package - HVN9025 includes CPS/PPCPS (PassPort® Customer Programming Software), CPS tutorial, reflashing tool and freq. finder application for the HT, EX, CDM & MTX•LS Series. HVN9067 for MTX Series Privacy Plus - includes HT & MTX Series Programming & Test Cable (AARKN4074). Also is compatible with RLN4460 used for radio testing. (HVN9025 is compatible with Windows® 95/98/2000 (SP3 or later version) / Millennium (ME) / Windows NT®. HVN9067 is compatible with Windows® 95/98/Windows NT®.) A Mobile Programming Cable (AARKN4074 or AARKN4083) must be purchased separately. Note: Software requires a license agreement and is not intended for resale.	Call for pricing
		L	HKN6183	RS-232 Programming Cable	Call for pricing
		L	HKN6184	Mobile Front Programming Cable	Call for pricing
L	L		RKN4081	Programming Cable with Internal RIB (direct connection from computer to radio microphone connector) (PM400 requires FKN8096)	Call for pricing
	L		RLN4008	Radio Interface Box (RIB)	Call for pricing
	L		RLN4460	Test Box for Portables and Mobiles	Call for pricing
		L	RVN4185	Mobile Software CD, Version R01.00.00 - 3 Year Subscription Requires one of the following Programming Cables - HKN6183 (RS-232) or HKN6184 (USB). Note: Software requires a license agreement and is not intended for resale.	Call for pricing
		L	RVN4186	Portable/Mobile Software 2 CD Set - 3 Year Subscription - (includes RVN4185 & RVN4181). Requires one of the following Programming Cables - HKN6183 (RS-232) or HKN6184 (USB). Note: Software requires a license agreement and is not intended for resale.	Call for pricing
L			RVN5165	PM1200 Mobile CPS	Call for pricing

PM1200	CDM750/1250/1550	PM1500	User Manuals:	
	L		6881091C62-D CDM Series Basic Service Manual (English)	\$14.18
	L		6881091C63-B CDM Series Detailed Service Manual	\$29.66

US VERSION

WAVE

DEALER PRICING - AGENT MODEL (Motorola Invoices End customer)

GENERAL INFORMATION

WAVE is a Software as a Service SaaS offering that doesn't require any advanced setup or quoting. There are multiple subscription types with WAVE:

WAVE PTT App

WAVE Two-Way Radio

WAVE PTT Dispatch

WAVE Critical Communications Feature Set

WAVE PTT LMR Interop Add-on

Wave Streaming Video Add-on

For Wave device registration, please visit: www.waveoncloud.com

WARRANTY

WAVE is a best effort service. Support is available 8X5 for customers with a current subscription. All pricing is based a Per User Per Month (PUPM)

Warranty Service, please contact Motorola Technical Support at 800-927-2744 # 3, 5, 3.

MODEL NUMBER	DESCRIPTION	MSRP
WAVE Standard Features		
WAVE PTT Mobile App (for Android & iOS)		
N/A	Wave PTT Mobile App - Monthly subscription	\$ 8.00
	<i>Optional Add Ons</i>	
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00
N/A	WAVE Streaming Video Mobile Add on - Monthly Subscription	\$ 14.00
WAVE PTT Dispatch		
N/A	WAVE Dispatch - Monthly Subscription	\$ 32.00
	<i>Optional Add Ons</i>	
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00
N/A	WAVE Streaming Video Dispatch Add on - Monthly Subscription	\$ 130.00
WAVE Two-Way Radio (TLK100/150)		
N/A	WAVE Two-Way Radio - Monthly subscription	\$ 35.00
N/A	WAVE Two-Way Radio 2 Year contract - Monthly subscription	\$ 35.00
	<i>Optional Add Ons</i>	
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00

	WAVE MOTOTRBO Radio (XPR 7000e, XPR 5000e, SL 7000e Series)	
N/A	MOTOTRBO XPR 7000e, XPR 5000e, SL 7000e series Monthly Subscription (New in MOTOTRBO Release R2.10)	\$ 8.00

	LMR Interop Gateway	
TT3182A	WAVE Gateway	\$ 650.00
TT3705A	WAVE Gateway	\$ 850.00

WAVE Safeguard (formerly known as Critical Communications)

	WAVE PTT Mobile App (for Android & iOS)	
N/A	Wave PTT Mobile App and Critical Communications - Monthly subscription	\$ 20.00
	<i>Optional Add Ons</i>	
N/A	WAVE Streaming Video Mobile Add on - Monthly Subscription	\$ 14.00

	WAVE PTT Dispatch	
N/A	Wave PTT Dispatch And Critical Communications - Monthly Subscription	\$ 120.00
	<i>Optional Add Ons</i>	
N/A	WAVE Streaming Video Dispatch Add on - Monthly Subscription	\$ 130.00

	WAVE Two-Way Radio (TLK100/150)	
N/A	WAVE Two-Way Radio - Monthly subscription	\$ 45.00
N/A	WAVE Two-Way Radio 2 Year contract - Monthly subscription	\$ 45.00
	*Software version R2.0 of the TLK devices is needed for this package	

	LMR Interop Gateway	
TT3182A	WAVE Gateway	\$ 650.00
TT3705A	WAVE Gateway	\$ 850.00

US VERSION

WAVE

DEALER PRICING - RESELLER MODEL (Motorola invoices Reseller, Reseller Invoices end customer)

GENERAL INFORMATION

WAVE is a Software as a Service SaaS offering that doesn't require any advanced setup or quoting. There are multiple subscription types with WAVE:

- WAVE PTT App
- WAVE Two-Way Radio
- WAVE PTT Dispatch
- WAVE PTT LMR Interop Add-on
- Wave Streaming Video Add-on

For Wave device registration, please visit: www.waveoncloud.com

WARRANTY

WAVE is a best effort service. Support is available 8X5 for customers with a current subscription. All pricing is based a Per User Per Month (PUPM)

Warranty Service, please contact Motorola Technical Support at 800-927-2744 # 3, 5, 3.

MODEL NUMBER	DESCRIPTION	MAP				
WAVE Standard Features						
WAVE PTT Mobile App (for Android & iOS)						
N/A	Wave PTT Mobile App - Monthly subscription	\$ 8.00				
	<i>Optional Add Ons</i>					
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00				
N/A	WAVE Streaming Video Mobile Add on - Monthly Subscription	\$ 14.00				
WAVE PTT Dispatch						
N/A	WAVE Dispatch - Monthly Subscription	\$ 32.00				
	<i>Optional Add Ons</i>					
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00				
N/A	WAVE Streaming Video Dispatch Add on - Monthly Subscription	\$ 130.00				
WAVE Two-Way Radio (TLK100/150)						
N/A	WAVE Two-Way Radio 2 Year contract - Monthly subscription	\$ 35.00				
	<i>Optional Add Ons</i>					
N/A	WAVE PTT LMR Interop Add On - PROMO:FREE FOR NEW CUSTOMERS THAT SIGN UP THROUGH SEP 30, 2020	\$ 5.00				
WAVE MOTOTRBO Radio (XPR 7000e, XPR 5000e, SL 7000e Series)						
N/A	MOTOTRBO XPR 7000e, XPR 5000e, SL 7000e series Monthly Subscription (New in MOTOTRBO Release R2.10)	\$ 8.00				
LMR Interop Managed Services						
HKVN4830A	TIER 1 LMR Multitentant Gateway HP Prodesk 400 G5 or equivalent**1	N/A				
HKVN4831A	TIER 2 LMR Multitentant Gateway HP DL360 Gen10 or equivalent**2	N/A				
HKVN4832A	TIER 3 LMR Multitentant Gateway HP DL380 or equivalent**3	N/A				

*TIERED PRICING APPLIES PER PRICING PLAN AND NOT PER RESELLER ACCOUNT. PRICING PER SUBSCRIBER PER TIER APPLIES AS STEPS AND WILL MOVE TO THE NEXT TIER ONCE THE CURRENT TIER HAS BEEN

****1- TIER 1 Minimum Requirement**

- Processor family - Intel 9th generation Core i5 (recommended i5-8500T/9500T)
 - Process cores - 4/6 core with 2.2 Ghz
 - RAM - 8GB DDR4
 - Storage - 250GB SSD
 - Networking - 1 NIC
 - Remote management - Remote desktop connectivity
 - Support - As per customer requirement
 - Software requirement (customer to provide license keys only) Windows 10 Pro OS, the OS is required to be pre-installed by customer before initiating configuration request to MSI.
- MSI recommendation : HP PRODESK 400 G5 DESKTOP MINI

****2- TIER 2 Minimum Requirement**

- Processor family - Intel Xeon Scalable series (recommended 5218/5220)
 - Process cores - 8 core with 2.2/2.4 Ghz+
 - RAM - 16GB DDR4
 - Storage - 500GB (10K speed HDD)
 - Networking - 2 NICs
 - Power supply - Redundant
 - Remote management - HPE iLO Advanced (\$)
 - Support - As per customer requirement
 - Software requirement (customer to provide license keys only) Windows OS 2016 Standard Server license, the OS is not required to be pre-installed by customer. MSI will remotely install the OS.
- MSI recommendation : HPE ProLiant DL360 Gen10 Server

****3- TIER 3 Minimum Requirement**

- Processor family - Intel Xeon Scalable series (recommended 5218/5220)
 - Process cores - 16/18 core with 2.2/2.4 Ghz+
 - RAM - 64GB DDR4
 - Storage - 2TB (10K speed HDD)
 - Networking - 4+ NICs (depends upon type of TRBO system)
 - Power supply - Redundant
 - Remote management - HPE iLO Advanced (\$)
 - Support - As per customer requirement
 - Software requirements - customer to provide license keys only: VMWare ESxi license (v6.5) and Windows OS 2016 Standard Server license, the OS is not required to be pre-installed by customer. MSI will remotely install the OS.
- MSI recommendation : HPE ProLiant DL380 Gen10 Server

US VERSION

LEX L11
MISSION CRITICAL CERTIFIED FOR ATT/FIRSTNET NETWORK/VERIZON

The LEX L11 Mission-Critical LTE Device is designed with first responders in mind; it's the result of our tireless quest to understand the way you actually work.

Every feature and function is thoughtfully considered, from the rugged, easy to operate design to the always loud and clear audio to the advanced end to end secure mobile platform and the enhanced accessibility provided by a suite of accessories.

Rugged and durable yet streamlined and slim, you can count on the LEX L11 to perform when it's needed most. When hardware, software, and accessories work seamlessly together, the result is a device that works seamlessly for you.

RESELLER PRICE PAGES

Standard Package Includes:

- Ruggedized LEX L11 Handset with Android 7.1 Nougat OS
- 5.0" touch screen
- Standard - 2500 mAh removable battery (10 hours)
- Charging / Data cable
- Heavy-Duty 6W AC charger
- Quick Start guide
- 1 Year Warranty

UNIQUE DESIGN WITH UNIQUE APPLICATIONS

- INTUITIVE CONTROLS MAKE OPERATION NATURAL**
- BEST-IN-CLASS AUDIO QUALITY AND PERFORMANCE**
- OUTPERFORMS EVEN IN THE HARSHTEST ENVIRONMENTS**
- END-TO-END SECURE MOBILE PLATFORM**
- RADIO COLLABORATION**
- ACCESSORIES SUITE**

ORDERING EXAMPLE OF LEX L11

LINE ITEM 1:

- 1. HK2108: LEX L11 HANDHELD
 - 1a. QA07475AA: ALT: IMPRES2 Li-Ion 5000 mah Battery (OPTIONAL)
 - 1b. VA00898AA: 3YR ESSENTIAL SERVICE

LINE ITEM 2:

- 2. HKVN4631A: 3 YEAR SOFTWARE SUBSCRIPTION

LEX L11 LTE DEVICE RESOURCES: https://www.motorolasolutions.com/en_us/products/lte-user-devices/lexl11.html#tabproductinfo

Model:	Description	MSRP
HK2108A	STEP 1: MODEL LEX L11 HANDHELD	APC: 171 \$1,000.00
QA07474AA	STEP 2: BATTERY OPTIONS (OPTIONAL) <i>If no battery option is selected, the LEX L11 will ship with the standard 2500 mAH battery. Selecting this option replaces the standard battery and battery cover with the high capacity battery and battery cover.</i> ADD: High Capacity Battery & Back Cover	APC: 790 \$ 50.00
QA02850UM	STEP 3: OTHER DEVICE OPTIONS (OPTIONAL) <i>Select one of these options if required. NOTE: The Black options (QA02850ZT) is not stocked at the Distribution Center, so longer lead times will be incurred for this device. TAA model will ship in APRIL (16-22 weeks lead time)</i> Note: The Black option (QA02850ZT) is not stocked at the Distribution Center, so longer lead times will be incurred for this device LEXL11 TRADE AGREEMENT ACT MODEL THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT	APC: 790 \$ 100.00
QA02850ZT	LEXL11 BLACK COVERT MODEL THIS CONFIGURATION INCLUDES BLACK EMERGENCY BUTTON, NO GREEN RING ROUND THE PTT BUTTON OR CAMERA AND NO WHITE LII	APC: 790 \$ 50.00

STEP 4: SFS OPTIONS (MUST SELECT ONE)

The LEX L11 has choices for service & repair coverage levels.
 Select Essential Service with fast repair turnaround time,
 add on Accidental Damage to protect your investment, or choose the standard one year warranty.

VA00898AA	3YR ESSENTIAL SERVICE	APC: 185	\$ 38.00
VA00906AA	3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	APC: 185	\$ 90.00
VA00899AA	5YR ESSENTIAL SERVICE	APC: 185	\$ 74.00
VA00907AA	5YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	APC: 185	\$ 180.00
QA06507AC	DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	APC: 185	\$ -

STEP 5: SOFTWARE SUBSCRIPTION (MUST BE ORDERED)

Note: This software must be ordered or the device will not have access to software updates
 Qty 1 per order is sufficient for any qty of devices, but every order must include this line item.

HKVN4631A	3 YEAR SOFTWARE SUBSCRIPTION	APC: 206	\$ -
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AFTERMARKET ACCESSORIES

HN001154A01	Standard Battery Back Cover	APC: 790	\$12.00
PMNN4545A	Battery IMPRES2 LIION 2500	APC: 453	\$95.00
HN001155A01	High Capacity Battery Back Cover	APC: 790	\$15.00
PMNN4546A	Battery IMPRES2 LIION 5000	APC: 453	\$125.00
PMPN4349A	Charger Desktop Multi Unit IMPRES 2 1 Display EXT PS US (12 SLOT) (Each slot can accommodate a device with standard or high capacity ba	APC: 785	\$1,500.00
PMPN4359A	Charger Desktop Dual Unit IMPRES 2 EXT PS NA (Includes 2 charging slots: 1 slot accommodates the device with either standard or high cap	APC: 785	\$100.00
CB000756A01	CABLE,1000 MM,LEX L11 USBA TO USBC Works with wall charger PS000150A351 (purchased separately)	APC: 785	\$20.00
CB000754A01	CABLE,1000 MM,LEX L11 USBC TO USBC Works with wall charge PS000278A01 (purchased separately).	APC: 790	\$40.00
HN001197A01	MICRO SD PLUG (package of 15)	APC: 790	\$10.00
HN001195A01	NANO SIM DOOR TRAY (PACKAGE OF 5)	APC: 790	\$10.00
PMLN7779A	Vehicular Charging Cable	APC: 785	\$60.00
PMLN7845A	Carry Holster (The holster includes a Peter Jones stud. Please select one of the following Peter Jones Attachment clips for the holster)	APC: 271	\$50.00
PMLN7540	3.5mm earbud with inline microphone and push-to-talk	APC: 607	\$23.00
PMLN7541	3.5mm two-wire earpiece with translucent tube	APC: 607	\$69.00
PMLN7912	Accessory Kit, CHGR Vehicular, with Suction Base (INcludes a vehicular cradle and Ram mount. Vheiclular charging Cable (PMLN7779A) should be orde	APC: 608	\$60.00
GMDN0497A	PETER JONES BELT DOCK 38MM (this belt dock can be used with belts 38mm in width)	APC: 607	\$11.50
GMDN0566AC	PETER JONES BELT LOOP 50MM AND DOCK (Includes a leather loop for belts up to 50mm in width)	APC: 607	\$28.00
WALN4307A	PETER JONES SCREW MOUNT (Used with garments that accommodate screw-to-fit docks)	APC: 607	\$18.00
GMDN0386A	CARRY CASE ASSEMBLY, CLAMSHELL (Sew-on dock for mounting on uniforms, body armor, and other clothing types)	APC: 607	\$13.00
PS000278A01	PS WALL 100-240V FIXED BLADE US/JP PPS L6 USB-C Use this Wall Charger with CB000754A01 Quick Charging Wall Cab	APC: 785	\$22.00
PS000150A31	PS WALL 240VAC UNIVERSAL US/JPN ADAPTER 5VDC/1.5A L6 USB-A DETACHABLE Use this Wall Charger with CB000756A01 Standard Wall	APC: 785	\$15.00

MSI DEVICE APPLICATIONS

WAVE Tactical Please contact the Product Manager: matthew.dedecker@motorolasolutions.com
 KODIAK/EPTT Please contact the Product Manager: Dave.lafferty@motorolasolutions.com
 CRYPTR MICRO Please visit the CRPTR MICRO PCAT Page https://aem-prod-author.motorolasolutions.com/content/msi/catalog/dup/products/crypтр_micro/crypтр_micro.print.html?wcmmode=disabled

RESOURCES INFORMATION FOR LEX L11

SALES REFERENCE MATERIALS:

LEX L11 PRODUCT DETAIL PAGE: www.motorolasolutions.com/lexl11

MARKETING AND SALES COLLATERAL: www.motorolasolutions.com/sales

Log in using core ID and password then navigate to the LEX L11 product detail page

PRODUCT MANAGER: JUDY WALKER

Judy.walker@motorolasolutions.com

847-576-1285

US VERSION

VML 750

LTE VEHICLE MODEM

VML750 LTE Vehicle Modem harnesses the power of Verizon 3G/4G LTE and Band 14 Public Safety LTE, providing high speed data with the priority, control, security and performance required by Government & Public Safety agencies and may also be used to empower employees in operations-critical roles at business and industrial enterprises.

RESELLER VERSION

UNIQUE DESIGN

Supports 2 SIM cards for Verizon 3G/4G LTE, Private LTE B20 network and Public Safety LTE B14 for FirstNet
Roof-mounted external antennas with Multiple-In-Multiple-Out (MIMO) configuration for extend range and data speed
Mobile WiFi 802.11b/g/n 2.4 GHz Access Point supports up to 32 simultaneous users with 164 ft (50 m) line-of-sight range
Flexible mounting options for installation in a mass transit bus, school bus, utility truck, patrol car, fire apparatus or ambulance.
Built-in GPS with vehicle tracking, route optimization and integration of Computer Aided Dispatch (CAD) services
MIL-STD 810G rated ruggedized design withstands heat, cold, rain, humidity, dust and vibration
IP66 sealed for protection against tight dust and powerful water jets
Wired Connectivity: 1 Ethernet port (10/100 Mbps, RJ-45) and 1 USB 2.0 port
Optional CRYPTR FIPS-140-2 compliant security storage module

APPLICATION EXAMPLES

Mass Transit Busses and Trains - real time location tracking with live video feed or internet access for passengers
School Bus - real time location tracking with live video feed and student boarding and departure record
Utility Truck - high speed work ticket updates with instant status reports
Private security patrol car - real time location tracking, live video and inspection reports
Ambulance - access patient records, medical history, insurance information and transmit vital statistics while still in route
Limousine Service - provide Wi-Fi connection for high profile clients, especially for international business travelers who need data service

For more information, please visit: http://www.motorolasolutions.com/en_us/products/lte-user-devices/vml750.html

Sample Configuration for Verizon Wireless 3G/4G Network

Line 1	F0025	VML750 LTE VEHICULAR MODEM
1A	VA00190AA	VML750 VSM Hardware Option for R3.2
1B	VA00192AA	VML750 Verizon Wireless Software version R3.2
1C	VA00042AA	RJ45 LAN Cable
1D	VA00864AA	SFS: 2 YEAR SERVICE FROM THE START: BRONZE
Line 2	HKVN4256A	Verizon Wireless Software License

Line 3	T1740	VML750 MDT SOFTWARE
Line 4	F6789	VML 750 Antenna Kit
4A	VA00072AA	VML 750 Antenna Verizon Wireless 12 ft

MODEL	Description	MSRP
	Main Model	
F0025	VML750 LTE VEHICULAR MODEM	\$ 700.00
	1. Hardware Version (Required)	
VA00190AA	VML750 VSM OPTION FOR R3.2	\$ 1,000.00
	2. Software Version (Required)	
VA00192AA	VML750 SW VZW R3.2 (requires HKVN4256A)	\$ -
	3. LAN Cable Options (choose 1 option)	
VA00042AA	RJ45 LAN Cable Option	\$ 25.00
VA00045AA	USB Cable Option for VML750	\$ 40.00
	4. Add: Extended Warranty Service	
VA00860AA	SFS: 3 YEAR SERVICE FROM THE START: ESSENTIAL PACKAGE purchase) and rapid in-house product repair through Motorola's support centers and world-class service centers. Purchased up front with the	\$ 135.00
VA00864AA	SFS: 2 YEAR SERVICE FROM THE START: BRONZE purchase) and rapid in-house product repair through Motorola's support centers and world-class service centers. Purchased up front with the	\$ 100.00
	Software License (Required)	
HKVN4256A	Verizon Wireless Software License	\$ 450.00
HKVN4257A	Public Safety LTE Band 14 License	\$ 300.00
HKVN4258A	Public Safety LTE Band 14 Upgrade License for switching from Verizon to work exclusively on a PSLTE B14 network.	\$ 300.00
T1740	VML750 Mobile Data Terminal Software NOTE: For service on Motorola-provided Public Safety LTE Networks (example: Harris County), PS LTE SIM cards need to be ordered separately. Please ask your Channel Account Manager to connect you with the LTE Product Management to confirm if a SIM card purchase is necessary, and to discuss 2FF and/or 3FF SIM Profile Options. Price per SIM Profile Option is \$50 each. Volume discounts may apply.	\$ -
	Antenna Kits (Required)	
F6789	VML 750 Antenna Kit	\$ -

VA00072AA	VML750 Antenna Verizon Wireless 12 ft	\$ 225.00
VA00070AA	VML750 Antenna Verizon Wireless 17 ft	\$ 250.00
VA00131AA	Add Band 14 Antenna to Verizon Wireless 12 ft option	\$ 90.00
VA00132AA	Add Band 14 Antenna to Verizon Wireless 12 ft option	\$ 100.00
VA00133AA	Band 14 only 12 ft option	\$ 180.00
VA00134AA	Band 14 only 17 ft option	\$ 195.00
VA00135AA	Add Verizon Wireless to Band 14 antenna - 12 feet option	\$ 120.00
VA00136AA	Add Verizon Wireless to Band 14 antenna - 17 feet option	\$ 140.00
VA00137AA	Band 14 and Verizon Wireless antenna - 12 feet option	\$ 300.00
VA00138AA	Band 14 and Verizon Wireless antenna - 17 feet option	\$ 335.00

US VERSION

TLK 150 WAVE MOBILE LTE / Wi-Fi

PRICES

Standard Package Includes:

- Wideband Compact Microphone (PMMN4129A)
- LTE Dash/Glass Mount Antenna (AN00358A01)
- GNSS Dash/Glass Mount Antenna (AN00358A01)
- 10 ft Power Cable (HKN4137B)
- 3 Year Essential Repair and Radio Software

Main Radio Features:

Number of Talkgroups	96
Display	Monochrome
Menu Navigation Buttons	Yes
Front Programmable Buttons	2
Channel Up / Down Buttons	Yes
Control Station Operation	Yes
GPS	Yes
Wideband Audio	Yes
Dedicated Emergency/SOS Button	Yes
Dedicated Contact Button	Yes
WiFi	Yes
Cloud Device Management Capability	Yes



Software Features Included with WAVE Subscription:

WAVE SW Package Options	WAVE	WAVE SAFEGUARD
PTT (Private and Group Calls)	Yes	Yes
Presence (ON/OFFLINE)	Yes	Yes
Instant Personal Alert	Yes	Yes
Priority Talkgroup Scanning	Yes	Yes
Broadcast Calls	Yes	Yes
Geolocation	Yes	Yes
Emergency Calling and Alert	N/A	Yes
Ambient and Discreet Listening	N/A	Yes
User Check and Monitoring	N/A	Yes
Area Based Talkgroups	N/A	Yes
LMR Interoperability	Add On	Yes

Notes:

3 Years = Included for 3 years as part of Essential Service and Radio Software Package

FCC INFORMATION: AZ492FT7127

MODEL	MODEL DESCRIPTION	MSRP
HK2131A*	TLK 150, WAVE Two-Way Mobile - with No Contract	\$449.00
	TLK 150, WAVE Two-Way Mobile - with 2 Year Contract	\$149.00

* Price does not include WAVE Monthly Subscription. See below for Subscription Information.

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION

Essential Service Options:

STDSMA0642 Standard 3 Year Essential Services N/C

Subscriptions: YOU MUST CHOOSE ONE (1) MONTHLY SUBSCRIPTION

WAVE Subscription Information:

https://docs.google.com/spreadsheets/d/1mFGX4lqhZOva-kxvRNW5AS0_N5Mm61tBI1QwFuhwL-U/edit?usp=sharing

AFTERMARKET ACCESSORIES	MSRP
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Audio:

GMMN4065	Visor Microphone (Omni-Direction)	\$58.00
PMMN4129	Wideband Compact Microphone	\$48.00
AC000240A01	Wideband External Speaker	\$85.00
PMMN4098	Desktop Microphone	\$120.00
HLN9073	Microphone Hang-Up Clip (Requires Install)	\$1.10
HLN9414	Microphone Hang-Up Clip (No Install)	\$13.00
PMMN4127	WM500 Operation Critical Bluetooth RSM	\$193.00

Antennas:

AN000359A01	GNSS Dash Mount Antenna	\$19.95
AN000358A01	LTE Antenna	\$25.95

Cables:

HKN4137	Mobile Pwr Cable 10 FT, 14 AWG, 15A	\$18.00
HKN4192	Power Cable to Battery (20 feet, 20 amp)	\$38.33
HKN9327_R	Ignition Switch Cable	\$17.00
PMLN8153	Power Supply Adaptor and Cable, 15V	\$105.00

Mounting:

FTN6083	DIN Mount Kit	\$55.00
RLN6466	Low Profile Trunnion Kit	\$16.00
RLN6467	High Profile Trunnion Kit	\$21.00
RLN6468	Key Lock Trunnion Kit	\$122.00

Miscellaneous:

GLN7318	Desktop Tray Without Speaker	\$40.00
HLN9457	16 Pin MAP Connector Kit	\$6.95
RLN4836_R	External PTT with Emergency Footswitch	\$61.75

RLN4856	Remote Mount Footswitch PTT	\$61.75
RLN4857	Push Button with Remote PTT	\$38.50

For more information on WAVE products, see our WAVE Price Page here:

[WAVE Products Price Page](#)

US VERSION

TLK 100 WAVE PORTABLE LTE / Wi-Fi

Standard Package Includes:

- LTE Stubby Antenna (HKAN4002A)
- 2300T Li-Ion Battery (PMNN4468A)
- Micro USB Wall Charger (PS000150A11)
- Battery Door Cover (HKLN4678A)
- Swivel Carry Holster (PMLN7932A)
- 2 Year Essential Repair and Radio Software

Main Radio Features:

Number of Talkgroups	96
Display	Active View Display
Side Programmable Buttons	1
Channel Up / Down Button	Yes
GPS	Yes
Dedicated Emergency/SOS Button	No
WiFi	Yes
Bluetooth	Yes
Cloud Device Management Capability	Yes

Software Features Included with WAVE Subscription:

WAVE SW Package Options	WAVE	WAVE SAFEGUARD
PTT (Private and Group Calls)	Yes	Yes
Presence (ON/OFFLINE)	Yes	Yes
Instant Personal Alert	Yes	Yes
Priority Talkgroup Scanning	Yes	Yes
Broadcast Calls	Yes	Yes
Geolocation	Yes	Yes
Emergency Calling and Alert	N/A	Yes
Ambient and Discreet Listening	N/A	Yes
User Check and Monitoring	N/A	Yes
Area Based Talkgroups	N/A	Yes
LMR Interoperability	Add On	Yes

Notes:

2 Years = Included for 2 years as part of Essential Service and Radio Software Package

FCC INFORMATION: AZ489FT7117



MODEL	MODEL DESCRIPTION	MSRP	
HK2112A*	TLK 100, WAVE Two-Way Portable - with No Contract	\$350.00	
	TLK 100, WAVE Two-Way Portable - with 2 Year Contract	\$0.00	

* Price does not include WAVE Monthly Subscription. See below for Subscription Information.

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION	MSRP
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Essential Service Options:

STDESS0635AA Standard 2 Year Essential Services

N/C

Subscriptions: YOU MUST CHOOSE ONE (1) MONTHLY SUBSCRIPTION

WAVE Subscription Information:

https://docs.google.com/spreadsheets/d/1mFGX4lqhZOva-kxvRNW5AS0_N5Mm61tBI1QwFuhwL-U/edit?usp=sharing

AFTERMARKET ACCESSORIES	MSRP
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Audio:

5080384F72	Replacement Foam Plug-Ins	\$116.00
RLN6242A	Quick Disconnect Acoustic Tube	\$7.90
RLN6282A	Replacement Ear Tips, Pack of 50	\$41.50
PMLN7189A	Swivel Earpiece, In-Line Mic & PTT	\$29.00
PMLN7156A	Earbud with In-Line Mic/PTT, Mag One	\$20.00
PMLN7157A	2-Wire with Translucent Tube, Black	\$43.00
PMLN7158A	One-Wire Surveillance Earpiece, In-Line Mic & PTT	\$40.00
PMLN7159A	Adjustable D-Style Earpiece, In-Line Mic & PTT	\$43.00
PMMN4127	WM500 Operation Critical Bluetooth RSM	\$193.00
PMMN4125	Remote Speaker Microphone	\$122.00

Antennas:

32012144001	Gray Antenna ID Band (pack of 10)	\$6.50
32012144002	Yellow Antenna ID Band (pack of 10)	\$6.50
32012144003	Green Antenna ID Band (pack of 10)	\$6.50
32012144004	Blue Antenna ID Band (pack of 10)	\$6.50
32012144005	Purple Antenna ID Band (pack of 10)	\$6.50
HKAN4002A	TLK 100 VZW LTE Antenna	\$9.50

Batteries:

PMNN4468A	Li-Ion Battery 2300MAH (BT100x)	\$40.00
HKLN4678A	TLK 100 Battery Door	\$35.00

Carrying Solutions:

PMLN7932A	Swivel Carry Holster	\$12.50
PMLN7128A	Belt Clip (Heavy-Duty)	\$11.50
PMLN6074A	Nylon Wrist Strap	\$9.00

Chargers and Power Adapters:

PS000150A11 Level 6 Micro USB Wall Charger
PMLN7101A MUC Charger US/NA
PMLN7987A SUC Charger US/NA

\$25.00

\$225.00

\$41.50

For more information on WAVE products, see our WAVE Price Page here:

[WAVE Products Price Page](#)

US VERSION

Nitro

NITRO PRICE PAGES OVERVIEW

General Information:

Nitro is the next generation professional communications solution that combines business-critical voice with lightning-fast private broadband data. It utilizes the Citizens Broadband Radio Service (CBRS) spectrum. Nitro delivers reliable, clear push-to-talk over a private broadband data network. All of this is managed through the Nitro Portal in the cloud.

Features:

- | | | |
|--------------------------|--|-------------------------------|
| - 2-4x WiFi Range | - Simplified provisioning | - Security and access control |
| - 2x WiFi Capacity | - Centralized, web-based configuration | - Transparent device updates |
| - Cloud-based core (aaS) | - Interoperation with LMR (WAVE) | - Simple network architecture |



Below is a brief summary of each of the Nitro Price Page tabs included here:

"NITRO Infrastructure - Capital" Option

- All Nitro hardware components (CBSD, Routers, OnPrem Edge Gateway, and PTP Servers) are offered for purchase in the typical Capital Purchase model ("Capital").
- A smaller monthly subscription is still required to connect to the Nitro Cloud Core and for SW & HW
- Higher upfront costs, but a lower monthly subscription.
- These items are only available through COEE & ordered through the Nitro Request Form.

"NITRO Infrastructure - Monthly Service Fee" Option

- Key Nitro hardware components (CBSD, Routers, OnPrem Edge Gateway, and PTP Servers) are offered for a monthly service fee that includes equipment usage, Nitro Cloud Core connection fees, as well as Essential Service with Advanced Replacement.
- No additional subscriptions are required to connect to the Nitro Cloud Core.
- Lower upfront costs, but a higher monthly subscription.
- These items are only available through COEE & ordered through the Nitro Request Form.

Nitro Recommended Switches

- Switching equipment can be purchased by the Dealer through MOL, COEE or other means.

- Alternatively, Partners and Customers can provide their own switching ("BYOD Switches"), however certain requirements must be met to satisfy the NITRO switching requirements. Please see the Nitro System Planner for details on "BYOD Switches."

Nitro User Equipment & SIM's

- All Nitro End Users devices that connect to a Nitro network require a Nitro SIM card. These can be purchased through MOL.
- All Nitro End User devices require a data subscription to connect to a Nitro network. There are only two (2) flavors: Basic Data and Unlimited Data.
- These subscriptions are activated through the Nitro Portal.

Ancillary Items

- This tab provides a list of commonly used optional hardware items for a Nitro network. They include items such as antennas, line, mounting equipment, AC/DC converters, arrestors, and Fiber jumpers.
- Ancillary equipment can be purchased by the Dealer through MOL, COEE or through other means.

NOTE:

For additional information on the certification process, Nitro, and the "Nitro Request Form," please visit Partner Central.

Please consult the Nitro System Planner for a detailed list of required equipment for designing and deploying a Nitro network.

In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. The purchase or use of any of the subscription services which are features available through the NITRO solution will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

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Literature & Information (Available on Motorola Online and/or Partner Central):

<https://learning.motorolasolutions.com/>

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US VERSION

Nitro

NITRO MSRP PRICES - CAPITAL OPTION

General Information:

Nitro is the next generation professional communications solution that combines business-critical voice with lightning-fast private broadband data. It utilizes the Citizens Broadband Radio Service (CBRS) spectrum. Nitro delivers reliable, clear push-to-talk over a private broadband data network. All of this is managed through the Nitro Portal in the cloud.

Features:

- 2-4x WiFi Range
- 2x WiFi Capacity
- Cloud-based core (aaS)
- Simplified provisioning
- Centralized, web-based configuration
- Interoperation with LMR (WAVE)
- Security and access control
- Transparent device updates
- Simple network architecture



Each Initial NITRO Network is comprised of the following components:

- 2 Routers (Juniper SRX 345 Firewall/Router) connected to the Nitro Cloud Core
- 1-X Edge Timing Master (uFalconSTG PTP) for timing to CBSD's w/o access to GPS (eg, Indoor CBSD's)
- SLX 2000's, SLX 4000's and SLX 5000's CBSD's to provide NITRO coverage & capacity.
- Optional NITRO On-Prem Edge Gateways

NOTE:

Nitro CBSD's and Infrastructure components below are not available to order on MOL. Channel Partners must be certified and go through the Center of Excellence Engineering (CoEE) Team using the "Nitro Request Form."

For additional information on the certification process, Nitro, and the "Nitro Request Form," please visit Partner Central.

All SLX purchased still require monthly subscriptions for connecting to the Nitro Cloud Core. (See below)

All NITRO monthly subscriptions are activated through the Nitro Portal after installation and require minimum two (2) year contracts.

All SLX CBSD's require:

a minum of one (1) SRX345 Router for connection to the Nitro Cloud (two recommended)

a timing source; either GPS or minimum of one (1) FibroLAN PTP server

Please consult the Nitro System Planner for a detailed list of required equipment for designing and deploying a Nitro network.

Customer-specific WAN IP information may be required for Firewall/Routers if Static IP is desired. Please see the Nitro System Planner for DHCP and Static IP requirements.

See Partner Empower agreements for more detailed service terms and conditions.

In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. The purchase or use of any of the subscription services which are features available through the NITRO solution will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

Nitro Infrastructure Equipment

MODEL	DESCRIPTION	MSRP
AAE20048ENA1AN	SLX 2000 Indoor CBSD 3550-3700M 250mW NOT AVAILABLE ON MOL Includes: CBSD w/ 64 active stream support, wall/ceiling mount hardware, integrated 8dBi antenna, copper ethernet or fiber backhaul, POE++ or 12V DC input, integrated GPS receiver,	\$4,450.00
AAE40048ENB2AN	SLX 4000 Outdoor CBSD 3550-3700M 316mW NOT AVAILABLE ON MOL Includes: CBSD w/ 64 active stream support, pole/wall mount hardware (including adapter bands), copper ethernet backhaul, DC -40 to -57V, 10m DC power cable, GPS antenna for direct	\$7,850.00
AAE50048INB2AN	SLX 5000 Outdoor CBSD 3550-3700M 2W NOT AVAILABLE ON MOL Includes: CBSD w/ 64 active stream support, integrated 17dBi antenna, copper ethernet or fiber backhaul, integrated GPS receiver, DC power connector, and requires -40 to -57 VDC	\$7,900.00
SELECT MOUNTING OPTION:		
	CA03683AA SLX5000 Wall/Pole Mount Bracket	\$350.00
SELECT GPS ANTENNA OPTION:		
	CA03682AA ADD: Direct Mount GPS Antenna 4	\$230.00
SELECT CONNECTOR ADAPTER MANDATORY (must select one):		

CA03684AB CONNECTOR-ADAPTOR,RJ45, SLX 5000
 CA03685AA CONNECTOR-ADAPTOR,SFP, SLX 5000

\$85.00
 \$85.00

Note: SLX 2000, SLX 4000 & SLX 5000 purchased still require Monthly Subscriptions to connect to the Nitro Cloud Core. See pricing for subscriptions below.

NETWORKING

MODEL	DESCRIPTION	MSRP
Nitro Firewall/Router (two required)		
T8577A	JUNIPER SRX 345 FIREWALL NOT AVAILABLE ON MOL Notes: All NITRO networks require a minimum of one (1) SRX 345 for connectivity to the NITRO Cloud Core. Connection will be through the customer provided Internet connection.	\$1,610.00
PTP TIMING SOURCE		
DSBNDLMSI2	Edge Timing Grand Master Bundle (includes the uFalconSTG PTP, AC/DC Power Adapter, and a rack mounting shelf) NOT AVAILABLE ON MOL Notes: All NITRO CBSD'S require a timing source, either PTP or GPS. The FibroLAN uFalcon above provides PTP timing for up to 32 CBSD's, AC/DC power adapter and the rack mounting	\$5,700.00
OnPrem Edge Gateway		
SQM01SUM0319A	Nitro OnPrem Edge Gateway NOT AVAILABLE ON MOL Includes: Nitro On-Prem Edge Gateway hardware (HP DL 20 appliance), NA AC power cord, and software. If redundancy or expansion is required, order quantity two (2).	\$6,350.00

Note: Nitro OnPrem Edge Gateway require additional Monthly Subscription to connect to the Nitro Cloud Core. See pricing below.

- *Redundant/Expansion Edge Gateway requires a 2nd switch
- **Redundant PTP Server requires a 2nd switch, if connected

[Nitro Infrastructure Subscriptions](#)

The following subscriptions are required per component purchased above and include the following:

- Nitro Cloud Core Functionality, Core EPC - MME/HSS, SAS Services, Cloud/OnPrem S&P Gateway
- Nitro Cloud Provisioning, Fault Management, Performance Management via the Nitro Portal
- Essential Services, Software & Firmware Updates including 3rd party SW, Technical Support, 5-year Hardware Warranty
- All NITRO monthly subscriptions are activated through the Nitro Portal after installation and require minimum two (2) year contracts.

SLX 2000	SLX 2000 Indoor CBSD 3550-3700M 250mW Connection	\$35.00
SLX 4000	SLX 4000 Outdoor CBSD 3550-3700M 316mW Connection	\$60.00
SLX 5000	SLX 5000 Outdoor CBSD 3550-3700M 2W Connection	\$70.00
SLX Dual Carrier	Enables Dual Carrier capability on the SLX 2000, SLX 4000, and SLX 5000 Nitro CBSD's. Dual carrier support can be used to provide additional user capacity (64 additional streams) or to enable higher downlink throughput via Carrier Aggregation. For the SLX 4000 and SLX 5000, Dual-carrier can also be deployed as 2-cell (or split cell) providing improved coverage and capacity to the CBSD. Enabled via the Nitro Portal per CBSD at time of registration. No additional hardware required for SLX 2000; additional antenna equipment required for SLX 4000 and SLX 5000 if external antennas are required. Consult the Nitro System Planner for technical details.	\$60.00
OnPrem Edge Gateway	Nitro OnPrem Edge Gateway	\$40.00

Literature & Information (Available on Motorola Online and/or Partner Central):

<https://learning.motorolasolutions.com/>

Infrastructure Repair:

Motorola's authorized Repair Depot will repair or coordinate the repair or replacement of the Infrastructure equipment provided by Motorola, including third-party infrastructure equipment supplied as part of the system solution. The Repair Depot will manage the logistics of equipment repair/replace (including shipment and return of repaired equipment), repair or replace Motorola equipment, and coordinate the repair or replacement of third-party solution components. Repair for certain network elements may be conducted on-site by Motorola's vendors or partners. Customer will pay shipping costs to Motorola. For more information, refer to the Nitro Infrastructure Essential Statement of Work or contact your Motorola representative or your Motorola Customer Support Manager.

<http://ecat.comm.mot.com/ecat/pricebooks/dup/infrep2.htm>

Infrastructure Repair with Advanced Replacement:

In addition to Infrastructure repair, Motorola Solutions provides Advanced Replacement hardware exchange service for all Nitro infrastructure supplied by Motorola Solutions under the Monthly Service Fee Subscription sales model or as an Optional service on the CapitalPurchased sales model. Motorola will provide Customer with an advanced replacement unit(s) or Field Replacement Units (FRU's) in exchange for Customer's malfunctioning Equipment. Malfunctioning Equipment will be evaluated and repaired by the infrastructure repair depot and returned to the depot's inventory upon completion of repair for use in subsequent Advanced Replacements.

Advanced Replacement:

Optional Adv Replacement is available, purchased yearly for a given contract, and includes the following equipment

Pricing is calculated by taking the unit price times the quantity of units purchased in that system.

MODEL	DESCRIPTION	MSRP
AAE20048ENA1AN	SLX 2000 Indoor CBSD 3550-3700M 250mW	\$294.69
AAE40048ENB2AN	SLX 4000 Outdoor CBSD 3550-3700M 316mW	\$443.44
AAE50048INB2AN	SLX 5000 Outdoor CBSD 3550-3700M 2W	\$445.63
T8577A	JUNIPER SRX 345 FIREWALL	\$170.44
DSBNDLMSI2	uFalconSTG PTP	\$349.38
DSBNDLMSI21	uFalconSTG PTP w/ ACDC adptr-Expansion	\$345.00
DSMFALCONST8SEGHOC	EDGE TIMING MASTER, 4XUNI, 10/100/1000BASE T PORTS	\$338.44
SQM01SUM0319A	Nitro OnPrem Edge Gateway	\$377.81

US VERSION

Nitro

NITRO MSRP PRICES - MONTHLY SERVICE OPTION

General Information:

Nitro is the next generation professional communications solution that combines business-critical voice with lightning-fast private broadband data. It utilizes the Citizens Broadband Radio Service (CBRS) spectrum. Nitro delivers reliable, clear push-to-talk over a private broadband data network. All of this is managed through the Nitro Portal in the cloud.

Features:

- 2-4x WiFi Range
- 2x WiFi Capacity
- Cloud-based core (aaS)
- Simplified provisioning
- Centralized, web-based configuration
- Interoperation with LMR (WAVE)
- Security and access control
- Transparent device updates
- Simple network architecture



Each Initial Network Connection Subscription includes:

- 2 Routers (Juniper SRX 345 Firewall/Router)
- 1 Edge Timing Grand Master Bundle (includes the uFalconSTG PTP with ACDC adaptor and 19" shelf with hardware)

NOTE:

Nitro Subscriptions are not available to order on MOL. Channel Partners must be certified and go through the Center of Excellence Engineering (CoEE) Team using the "Nitro Request Form." For additional information on the certification process, Nitro, and the "Nitro Request Form," please visit Partner Central. Please consult the Nitro System Planner for a detailed list of required equipment for designing and deploying a Nitro network. Customer-specific WAN IP information may be required for Firewall/Routers if Static IP is desired. Please see the Nitro System Planner for DHCP and Static IP requirements.

In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. The purchase or use of any of the subscription services which are features available through the NITRO solution will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

Nitro Infrastructure Subscriptions

		COVERAGE OPTIONS	
MODEL	DESCRIPTION		MSRP/mo
SLX 2000	SLX 2000 Indoor CBSD 3550-3700M 250mW Includes: CBSD w/ 64 active stream support, wall/ceiling mount hardware, integrated 8dBi antenna, copper ethernet or fiber backhaul, POE++ or 12V DC input, integrated GPS receiver, PTP		\$130.00
SLX 4000	SLX 4000 Outdoor CBSD 3550-3700M 316mW Includes: CBSD w/ 64 active stream support, pole/wall mount hardware (including adapter bands), copper ethernet backhaul, DC -40 to -57V, 10m DC power cable, GPS antenna for direct		\$180.00
SLX 5000	SLX 5000 Outdoor CBSD 3550-3700M 2W Includes: CBSD w/ 64 active stream support, integrated 17dBi antenna, pole/wall mount hardware (including adapter bands), Connector Adapter (RJ45 or SFP) for copper ethernet or fiber		\$195.00
SLX Dual Carrier	Enables Dual Carrier capability on the SLX 2000, SLX 4000, and SLX 5000 Nitro CBSD's. Dual carrier support can be used to provide additional user capacity (64 additional streams) or to enable higher downlink throughput via Carrier Aggregation.		\$60.00

		NETWORKING OPTIONS	
OnPrem Edge Gateway	Nitro OnPrem Edge Gateway Includes: edge gateway hardware (HP DL 20 appliance), edge gateway software, management through the Nitro cloud portal		\$150.00
Edge Timing Grand Master	Redundant/Expansion Edge Timing Grand Master Bundle Includes: uFalcon-STG Edge Timing Master, AC (100-240V) to DC (48V) power adapter, and 19" Rack Shelf. Provides PTP timing for up to 32 CBSD's. timingOCXO supports up to 2hr holdover		\$80.00

Notes:

- 1) Redundant Edge Gateway requires a 2nd switch (not provided).
- 2) Redundant PTP Server requires a 2nd switch, if connected. (not provided)
- 3) All subscriptions include Essential Services: software updates, firmware updates, technical support, advanced replacement hardware maintenance, etc.
- 4) All subscriptions include Complete Management through the Nitro Cloud Core: fault management, performance management, subscription, etc.

Nitro Infrastructure Ancillary Equipment - Purchased CapEx

For additional site-specific and optional ancillary items for the SLX 2000, SLX 4000, SLX 5000 and Edge Timing Grand Master PTP server, please see the "Nitro Ancillary Items" page. These items are all available for purchase on MOL.

For a list of MSI recommended Switches for Nitro, please see the Nitro Recommended Switches tab for pricing and part numbers. These items are all available for purchase on MOL.

Customer-specific WAN IP information may be required for Firewall/Routers. Please see the Nitro System Planner for DHCP and Static IP requirements.

Literature & Information (Available on Motorola Online and/or Partner Central):

<https://learning.motorolasolutions.com/>

Advanced Replacement:

Advanced Replacement for the above items is included in the Monthly Service Fee.

US VERSION

Nitro RECOMMENDED SWITCHES

NITRO MSRP PRICES

General Information:

The following are the Motorola Solutions recommended switches for Nitro networks. These switches can be on-boarded through the Nitro Portal and configurations files easily downloaded. They can also be fault-managed through the Nitro Portal.

Features:

- Pre-configured Nitro Switch/IP Plans
- Fault Managed through the Nitro Portal
- MSI Technical Support

NOTE:



EX3400-24p



EX4300-32F



EX4300-48MP

Nitro Infrastructure - Recommended Switching Equipment - Purchased CapEx

Ethernet / Fiber Switches listed below are available on MOL.

Ethernet Switch

REQUIRED BASE

MODEL	DESCRIPTION	MSRP
EQ000238A01	EX3400-24P SWITCH BNDL W/ RED 600W PSU, 2 US PWRCRDS Base 24-port Switch for connecting up to 14 CBSD's via standard ethernet. If an OnPrem Edge Gateway is connected, up to 12 CBSD's can be connected via standard ethernet.	\$2,135.00

OPTIONAL ACCESSORIES

DSJPSU600ACAFO	Juniper EX3400 600W AC Power Supply, front-to-back airflow Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$392.00
DSCBLEXPWRC13US	Juniper AC power cable, U.S. for EX3400-24P Switch	\$21.00
DSEXSP1GELX	Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF One SFP is needed for the CBSD and another one is needed for the switch.	\$573.00
DSEXSP1GESXR20	Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF One SFP is needed for the CBSD and another one is needed for the switch.	\$287.00

Fiber Switch

REQUIRED BASE

MODEL	DESCRIPTION	MSRP
DSEX430032F	Juniper EX4300 32-port 100/1000BASE-X Includes Juniper ENHANCED LIMITED LIFETIME WARRANTY.	\$4,755.00
DSCBLEXPWRC13US	Juniper AC power cable, U.S. for EX3400-24P Switch	\$21.00

OPTIONAL ACCESSORIES

DSEXSP1GELX	Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF	\$573.00
DSEXSP1GESXR20	Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF	\$287.00
DSEXSP1GETR20	Juniper Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module	\$216.00

Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module

PoE++ Switch

REQUIRED BASE

MODEL	DESCRIPTION	MSRP
EQ000239A01	EX4300-48MP SWITCH BNDL W/ RED 1400W PSU, 2 US PWRCRDS, 24XPERP 1G 24X100M/1G/2 5G/5G/10G COPPER Base 48-port Switch for connecting up to 20 CBSD's via POE++.	\$6,550.00

OPTIONAL ACCESSORIES

DSJPSU1400ACAFO	Juniper EX4300-MP 1400W AC Power Supply Power cord must be ordered separately; see DSCBLPWRC15MHTUS below.	\$600.00
DSCBLPWRC15MHTUS	Juniper AC power cable, U.S. for EX4300-48MP Switch	\$54.00
DSEXUM4SFPPMR	Juniper EX4300MP 4-port 1GbE/10GbE SFP+ Uplink Module - required for Fiber connections	\$796.00
DSEXSP1GELX	Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF One SFP is needed for the CBSD and another one is needed for the switch.	\$573.00
DSEXSP1GESXR20	Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF One SFP is needed for the CBSD and another one is needed for the switch.	\$287.00

SFP Guide:

Utilize the guide below to determine the type and number of SFP's required.

DSEXSP1GELX or DSEXSP1GESXR20

	EX3400	EX4300
Fiber Connection (per)	0	2

*Two are required for each fiber connection (between switches, switch to CBSD, etc.)

DSEXSP1GETR20

	EX3400	EX4300
Firewall (per)	0	2
PTP Server (per)	0	2
OnPrem Edge Gateway (per)	0	2
Service Laptop Access	0	1
Mirror Port	0	1

*Optional. Each switch has a port for this purpose. You can access the whole RAN network from any switch, so you may or may not want one on every switch.

*Optional. Each switch has a port for this purpose. You can access the whole RAN network from any switch, so you may or may not want one on every switch.

US VERSION

Nitro USER EQUIPMENT & SIMS

NITRO MSRP PRICES

In order to access a Nitro Network, a Nitro SIM card is required prior to activation. This applies to MSI Radios and BYOD devices.

Nitro SIM cards can be ordered via MOL.

User subscriptions are purchased & activated via the Nitro Portal.

[Nitro SIMs](#)

MODEL	DESCRIPTION	MSRP
HK2116A	Nitro SIM Card (10-Pack) Includes: quantity 10 of the Singleton Triple-SIM (2FF, 3FF, 4FF)	\$100.00
DSMTE2L12G2B07US	LTE ONGO CBRS CELL-ETH BRIDGE INT V2, US ACCESSORY KIT INCLUDED	\$395.00

[Data Subscription Plans](#)

Purchased and Activated on Nitro Portal.

PTT plans purchased and activated separately on WaveOnCloud Portal

MODEL	DESCRIPTION	MSRP/mo
NA	Nitro Basic Data Plan (Data Only) Monthly	\$3.00
NA	Nitro Unlimited Data Plan (Data Only) Monthly - MSI Radio	\$12.00
NA	Nitro Unlimited Data Plan (Data Only) Monthly - BYOD	\$15.00

Nitro Basic Data Plan:

Provides basic connectivity to the Nitro network. This plan is intended to provide basic connectivity to the Nitro Network for applications such as PTT communication, low speed data, and low throughput IIOT.

- Plan supports speeds up to 250-300 Kbps and data usage up to 1GB per month. Overage rates may apply.
- Plan does not include WAVE PTT subscription fees. PTT Plans can be added through the WaveOnCloud Portal.

Nitro Unlimited Data Plan:

Provides basic connectivity to the Nitro network plus Unlimited Data usage. This plan is intended to provide basic connectivity to the Nitro Network plus Unlimited Data usage for users requiring medium to high speed data, Video applications, or demanding IIOT applications.

v- Plan supports speeds up to 300Mbps and Unlimited monthly usage. Usage based on Dual, aggregated 20 MHz carriers, 256-QAM on downlink and 64-QAM on uplink. Performance is dependent on device capabilities, configurations, network loading, proximity to the CBSD, and adjacent cell interference.

)- Plan does not include and PTT capability. PTT Plans can be added through the WaveOnCloud Portal.

For details on the WAVE Features visit shop.motorolasolutions.com

US VERSION

Nitro ANCILLARY ITEMS

NITRO MSRP PRICES

Below are the Motorola recommended ancillary items. Ancillary items are available to order on MOL.

SLX 2000

MODEL	DESCRIPTION	MSRP
PMLN7773A	Power Adapter Kit	\$200.00
3087791G01	Power Cord, US	\$22.00
PMAN4010A	ANTENNA GPS/GLONASS MAG MOUNT	\$69.00
BR000448A01	SLX 2000 Suspended Ceiling Mounting Kit	\$180.00
DSPOE171A60	POE-171A-60 SINGLE-PORT 10/100/1000MBPS 802.3BT POE INJECTOR (60W)	\$207.00
DSVERVORORL	VERACITY OUTREACH LITE ETHERNET EXTENDER	\$295.00
DSVERVORORM	VERACITY OUTREACH MAX ETHERNET AND POE EXTENDER	\$323.00
DSEXSP1GELX	SFP SM - 1000BASE-LX, LC DPX, 10km, 1310nm, -40/85	\$573.00
DSEXSP1GESXR20	SFP MM - 1000BASE-SX, LC DPX, 550m, 850nm, -40/85 (OM1/2)	\$287.00

SLX 4000

MODEL	DESCRIPTION	MSRP
DSGNSS1TMG26N	GLOBAL GNSS TIMING ANTENNA, 26DB, GPS, GLONASS, GALILEO AND BEIDOU	\$250.00
DSGNSS1TMG40N	GLOBAL GNSS TIMING ANTENNA, 40DB, GPS, GLONASS, GALILEO AND BEIDOU	\$271.00
DSGPSTMG MNT	MOUNT KIT, COLLAR BRACKET	\$32.50
DSGPSTMGLMNT	L MNT FOR GPS TIMING	\$24.00
DSGPS06NFF	BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W,	\$107.00
PS000435A01	AC-DC SINGLE 48VDC 154W 3A OUTPUT INDUSTRIAL POWER SUPPLY WITH PFC - IP65This requires CN001149A01 and CN001148A01 (quantity 1 each).	\$235.00
CN001149A01	CONNECTOR STANDARD-BTB,3,CONNECTOR STANDARD-CABLE JOINER 3 POLES	\$12.00
CN001148A01	CONNECTOR STANDARD-BTB,3,CONNECTOR STANDARD-CABLE JOINER 2 POLES	\$13.00
AN000368A01	9DBI OMNIDIRECTIONAL ANTENNA, 3.3-3.8GHZ, N FEMALE CONNECTOR	\$235.00
DSSJS33006517001	16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$424.25
DSL2TNMPL	3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$21.75
L1704A	LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	\$2.85
DSALPUF140	HYBRID SPD, WEATHERIZED CONSTRUCTION FOR SPEEDS UP TO AND >1GBE, RJ45	\$94.00
DSSCMM052020	MINICAB 120 VAC 20 A W/TVSS	\$645.00
DS11011110	SPD, 48V DC DEFENDER, PARALLEL OR SERIES INSTALLED	\$203.00
DSLPGTVNFF	DC-7000 MHz N FEM BI-DIRECTION, 150W MAX SURGE CURRENT: 10kA MULTIPLE	\$54.00

SLX 5000

MODEL	DESCRIPTION	MSRP
BR000509A01	BRACKET, SLX 5000 MOUNTING KIT	\$440.00
CN001708A01	CONNECTOR-ADAPTOR,RJ45, SLX 5000	\$95.00
CN001709A01	CONNECTOR-ADAPTOR,SFP, SLX 5000	\$95.00
AN000378A01	TIMING ANTENNA, DIRECT MOUNT GPS ANTENNA 4	\$340.00
DSGPSTMG MNT	MOUNT KIT, COLLAR BRACKET	\$32.50
DSGPSTMGLMNT	L MNT FOR GPS TIMING	\$24.00

DSGPS06NFF	BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W,	\$107.00
PS000435A01	AC-DC SINGLE 48VDC 154W 3A OUTPUT INDUSTRIAL POWER SUPPLY WITH PFC - IP65This requires CN001149A01 and CN001148A01 (quantity 1 each).	\$235.00
CN001149A01	CONNECTOR STANDARD-BTB,3,CONNECTOR STANDARD-CABLE JOINER 3 POLES	\$12.00
CN001148A01	CONNECTOR STANDARD-BTB,3,CONNECTOR STANDARD-CABLE JOINER 2 POLES	\$13.00
DSS3307BPNF	9DBI OMNIDIRECTIONAL ANTENNA, 3.3-3.8GHZ, N FEMALE CONNECTOR	\$212.00
DSSJS33006517001	16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$424.25
DSL2TNMPL	3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$21.75
L1704A	LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	\$2.85
DSALPUF140	HYBRID SPD, WEATHERIZED CONSTRUCTION FOR SPEEDS UP TO AND >1GBE, RJ45	\$94.00
DSSCMM052020	MINICAB 120 VAC 20 A W/TVSS	\$645.00
DS11011110	SPD, 48V DC DEFENDER, PARALLEL OR SERIES INSTALLED	\$203.00
DSEXSP1GELX	SFP SM - 1000BASE-LX, LC DPX, 10km, 1310nm, -40/85	\$573.00
DSEXSP1GESXR20	SFP MM - 1000BASE-SX, LC DPX, 550m, 850nm, -40/85 (OM1/2)	\$287.00

PTP Server

MODEL	DESCRIPTION	MSRP
DSBNDLMSI21	uFalconSTG PTP w/ AC/DC adptr - This bundle includes the PTP server with the AC/DC power adapter and is appropriate when a 2nd co-located PTP server is required (ie, expansion or	\$5,600.00
DSFPA40	AC (100-240V) TO DC (48V) POWER ADAPTER, 40W	\$270.00
DSRM2	19" RACK SHELF, UP TO 2DLAxx, LTAxx AND OTHER HALF RACKS	\$150.00
DSGNSS1TMG26N	GLOBAL GNSS TIMING ANTENNA, 26DB, GPS, GLONASS, GALILEO AND BEIDOU	\$250.00
DSGNSS1TMG40N	GLOBAL GNSS TIMING ANTENNA, 40DB, GPS, GLONASS, GALILEO AND BEIDOU	\$271.00
DSGPSTMGMNT	MOUNT KIT, COLLAR BRACKET	\$26.00
DSGPSTMGLMNT	L MNT FOR GPS TIMING	\$24.00
DSGPS06NFF	BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W,	\$107.00

If supplying your own GPS antenna and cabling, please consult the Nitro System Planner for specifications related to the Nitro PTP GPS Antenna requirements.

FOR PTP SERVER GPS RUNS UP TO 100FT

DSEC150HF	Coaxial Cable, 1/4" Hiflex, 50 ohm with black PE jacket (per foot)	\$1.82
DSNF50B14X	Connector, N female interface for EC1-50-HF	\$25.75
DSNM50B14X	Connector, N male interface for EC1-50-HF	\$25.80
DS240PTMCR	CONNECTOR:CNT-240 TNC STRAIGHT MALE	\$9.00
DS240PSMCCR	CONNECTOR:CNT-240 SMA STRAIGHT MALE	\$11.65

FOR PTP SERVER GPS RUNS UP TO 200FT

DSEC450HF	Coaxial Cable, 1/2" Hiflex, 50 ohm with black PE jacket (per foot)	\$2.40
DSNF50B12X	Connector, N female interface for EC4-50-HF	\$29.16
DSNM50B12X	Connector, N male interface for EC4-50-HF	\$29.16
DSNM50BL12X	Connector, N male right angle interface for EC4-50-HF	\$47.02

Fiber Optic Jumpers (Multi-Mode)

Used for Switch to CBSD or Switch to Switch connections; please ensure proper SFP modules are ordered and installed.

MODEL	DESCRIPTION	MSRP
DS943980541075	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 7.5M	\$82.00
DS9439805410015	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 15M	\$111.25
DS9439805410030	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 30M	\$170.00
DS9439805410050	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 50M	\$248.25
DS9439805410075	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 75M	\$346.00

DS9439805410100	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 100M	\$444.00
DS9439805410150	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 150M	\$640.00
DS9439805410200	JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 200M	\$835.00
DS942984731075	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 7.5M	\$258.50
DS9429847310015	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 15M	\$276.50
DS9429847310030	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 30M	\$315.00
DS9429847310050	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 50M	\$361.00
DS9429847310075	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 75M	\$421.00
DS9429847310100	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 100M	\$481.25
DS9429847310150	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 150M	\$602.00
DS9429847310200	JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 200M	\$722.25

US VERSION

NITRO EVOLVE Portable

MSRP PRICES

3.5 GHz Band OnGo

Standard Package Includes:

- Standard Battery - Li-Ion, 2900 mAh (BT000592A01)
- Battery Door - STD 2900 MAH (HKLN5001A)
- Standard Charger - Micro-USB Wall Charger (PS000150A11)
- Carry Holster & 3" Belt Clip (PMLN8254A)

Key Features:

- PTT Voice (WAVE client) over OnGo and WiFi
- Cloud based Portal Device Management
- Over the Air Programmable
- High Fidelity Wideband Audio
- WiFi 2.4 GHz and 5 GHz compatible
- Bluetooth Profiles HFP, SPP and BLE GATT support
- GNSS Support - GLONASS/Galileo/BeiDou support
- IP68 Rated
- 5" Ruggedized Display (Glove touch/wet)
- Single Pin Locking Audio Interface (OPAI)
- Micro USB Charging
- Dual 3FF size Removable SIM card slots

Notes:

- Device is designed for use with WAVE OnCloud PTT Services

**EVOLVE MODELS ARE CURRENTLY
ORDERABLE FOR PRE-SHIP ACCEPTANCE
ONLY
ALL ORDERS WILL REMAIN ON HOLD
UNTIL PRODUCT SHIP ACCEPTANCE IS
COMPLETED**



In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. The purchase or use of any of the subscription services which are features available through the NITRO solution will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

BAND	CHAN	MODEL	MODEL DESCRIPTION	MSRP
3.5 GHz	96	HK2136A	EVOLVE SMART RADIO	\$999.00

FCC INFORMATION: AZ489FT7134

Options: TO COMPLETE AN ORDER YOU MUST CHOOSE ONE (1) OPTION

EVOLVE portables ship with a Standard 3-Year Software and Repair option that covers parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE FOR EACH STEP

	MSRP
STEP 1:	
Battery Options: (Required Selection)	
STDBAT0845AA STD: LIION 2900 MAH BATTERY BT00059A01 & HKLN5001A Battery Door	\$0.00
QA08143AA ADD: LIION 5800 MAH TIA4950 BT000593A01 & HKLN5002A Battery Door	\$80.00
STEP 2:	
Nitro Sim Option: (Optional Selection)	
QA07787AA ADD: NITRO SIM CARD	0.00
* SIM CARD OPTION ONLY REQUIRED FOR OPERATION ON NITRO CBRS NETWORKS	
STEP 3:	

Essential Repair Options: (Required Selection)

STDESS0845AA	3 Year Essential Service	\$58.33
QA08142AA	ENH: 3Y ESSENTIAL W ACCIDENT DAMAGE	\$88.33

Repair coverage is expanded to include chemical, liquid and physical damage for the 3 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.

Aftermarket Accessory:

	MSRP
BT000592A01 BATT LIION 2900T	\$80.00
BT000593A01 BATT LIION TIA4950 5800T	\$160.00
PS000150A11 WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,US/JP	\$25.00
HKLN5001A COVER-DOOR,COVER-DOOR,BATTERY STD 2900 MAH	\$24.00

HKLN5002A	COVER-DOOR,COVER-DOOR,BATTERY HIGH CAP 5800 MAH	\$24.00
PMLN8254A	CARRY ACCESSORY-PLASTIC CARRY HOLSTER WITH 3" BELT CLIP	\$36.00
PMMN4125B	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE	\$122.00
PMMN4127A	AUDIO ACCESSORY-OPERATIONAL CRITICAL WIRELESS REMOTE SPEAKER MIC WM500	\$193.00
*PMLN8123A	EP910W OPERATIONAL CRITICAL WIRELESS EARPIECE PTT	\$75.00
PMLN8191A	AUDIO ACCESSORY-EARPIECE,1-WIRE ENH CLEAR TUBE EARPIECE, 2.5MM SINGLE PIN, ANGLED	\$50.00
PMPN4169A	CHGR VEHICULAR ADAPTER VPA	\$65.00
PMLN7965B	3" BELT CLIP	\$12.00
NTN8266B	BELT CLIP KIT (2.5")	\$12.00
PMLN8092A	ACCESSORY KIT,ACOUSTIC TUBE WITH RUBBER EARBUD, REPLACEMENT KIT	\$12.00

* Available December 2020

U.S. RESELLER

SLN 1000 Portable

3.5 GHz Band OnGo

RESELLER PRICES

Standard Package Includes:

Key Features

- Standard Charger - Micro-USB Wall Charger (PS000150A11)
- LTE Stubby Antenna (HKAN4004A)
- Swivel Carry Holster (PMLN7932)
- Battery Door Cover (HKLN4678)
- 3 Year Essential Repair

Key Features:

Purpose Built for OnGo 3.5 GHz Network Operation

PTT Voice (WAVE client) over OnGo and WiFi

Cloud based Portal Device Management

Over the Air Programmable

High Fidelity Wideband Audio

WiFi 2.4 GHz and 5 GHz compatible

Bluetooth Profiles HFP, SPP and BLE GATT support

GNSS Support - GLONASS/Galileo/BeiDou support

IP54 Rated (Dust and blowing rain)

Dot Matrix Active View Display

Single Pin Audio Interface (OPAI)

Micro USB Charging

3FF size Removable SIM card slot



Notes:

- Device is designed for use with WAVE OnCloud PTT Services
- For Nitro Network Connectivity, Motorola Solutions Profile SIM must be purchased separately

In this Pricebook there are Subscription Services that require Subscription Service Terms and Conditions which have been included, please see the Subscriptions Services Agreement. The purchase or use of any of the subscription services which are features available through the NITRO solution will require an Amendment to Contract #4400016317 to incorporate the Subscription Services Terms and Conditions included here.

BAND	MODEL	MODEL DESCRIPTION	MSRP				
3.5 GHZ	HK2120A	SLN 1000 TWO-WAY RADIO	\$825.00				

FCC INFORMATION: AZ489FT7123

Options: TO COMPLETE AN ORDER YOU MUST SELECT ONE (1) CHOICE

The SL 1000 portables ship with a Standard 3-Year Software and Repair option that covers parts and labor warranty coverage. Essential with Accidental Damage can be purchased to add coverage for accidental breakage and liquid damage.

MSRP

Essential Repair Options:

STDESS0436AA	3 Year Essential Repair	N/C
QA0436AA	ADD: 3 Year Accidental Damage Repair coverage is expanded to include chemical, liquid and physical damage for the 3 year term on your Motorola Solutions portable or mobile subscriber radio. Essential with Accidental Damage starts upon purchase. Repairs will be made at the designated Motorola repair depot. Local pickup or repair charges are not included. Motorola Solutions will pay inbound shipping charges only with use of the Motorola Online return process. Motorola will pay outbound shipping charges via normal shipping methods. No discounts are allowed on this option.	\$105.00

US VERSION

SLN1000 ANCILLARY ITEMS

NITRO MSRP PRICES

SLN 1000 ACCESSORIES

MODEL NUMBER	DESCRIPTION	MSRP	
Antenna			
HKAN4004A	Stubby LTE	\$25.70	
Battery			
PMNN4578A	Li-Ion 2500T Battery	\$66.00	
Carry Solutions			
PMLN7932A	Swivel Carry Holster	\$12.50	
PMLN7128A	Belt Clip (Heavy-Duty)	\$11.50	
PMLN6074A	Nylon Wrist Strap	\$9.00	
Chargers and Power Adapters			
PS000150A11	Level 6 Micro USB Wall Charger	\$25.00	
PMLN7101A	MUC Charger US/NA	\$225.00	
PMLN7109A	SUC Charger US/NA	\$45.00	
Audio Accessories			
PMLN7189A	Swivel Earpiece, In-Line Mic & PTT	\$29.00	
PMLN7156A	Earbud with In-Line Mic/PTT, Mag One	\$20.00	
PMLN7157A	2-Wire with Translucent Tube, Black	\$43.00	
PMLN7158A	One-Wire Surveillance Earpiece, In-Line Mic & PTT	\$40.00	
PMLN7159A	Adjustable D-Style Earpiece, In-Line Mic & PTT	\$43.00	
Miscellaneous			
HKLN4678A	Battery Door	\$35.00	
5080384F72	Replacement Foam Plug-Ins	\$116.50	
RLN6242A	Quick Disconnect Acoustic Tube	\$7.90	
RLN6282	Replacement Ear Tips, Pack of 50	\$45.25	

SUBSCRIPTION SERVICES AGREEMENT

Motorola Solutions, Inc. ("Motorola") and _____ ("Customer") enter into this Subscription Services Agreement ("Agreement") pursuant to which Customer will purchase and Motorola will sell a subscription to access the subscription services described below. Motorola and Customer may be referred to individually as a "Party" and collectively as the "Parties."

The terms of the Agreement, including addendums, exhibits, and attachments combined with the terms of any applicable Incorporated Documents will govern the products and services offered pursuant to this Agreement. To the extent there is a conflict between the terms and conditions of the Agreement and the terms and conditions of the applicable Incorporated Documents, the Incorporated Documents take precedence.

1. DEFINITIONS

Capitalized terms used in this Agreement have the meanings set forth below. Any reference to the purchase or sale of software or other Intellectual Property shall mean the sale or purchase of a license or sublicense to use such software or Intellectual Property in accordance with this Agreement.

"Administrator" means Customer's designated system administrator who receives administrative logins for the Subscription Services and issues access rights to Customer's Users.

"Anonymized" means having been stripped of any personal or correlating information revealing original source or uniquely identifying a person or entity.

"Confidential Information" means any information that is disclosed in written, graphic, verbal, or machine-recognizable form, and is marked, designated, or identified at the time of disclosure as being confidential or its equivalent; or if the information is in verbal form, it is identified as confidential at the time of disclosure and is confirmed in writing within thirty (30) days of the disclosure. Confidential Information does not include any information that: is or becomes publicly known through no wrongful act of the receiving Party; is already known to the receiving Party without restriction when it is disclosed; is or becomes, rightfully and without breach of this Agreement, in the receiving Party's possession without any obligation restricting disclosure; is independently developed by the receiving Party without breach of this Agreement; or is explicitly approved for release by written authorization of the disclosing Party.

"Customer Data" means Native Data provided by Customer to Motorola hereunder to be processed and used in connection with the Subscription Services. Customer Data does not include data provided by third parties and passed on to Motorola.

"Deliverables" means all written information (such as reports, analytics, Solution Data, specifications, designs, plans, drawings, or other technical or business information) that Motorola prepares for Customer in the performance of the Services and is obligated to provide to Customer pursuant to the applicable Statement of Work. The Deliverables, if any, are more fully described in the Statement of Work.

"Documentation" means the technical materials provided by Motorola to Customer in hard copy or electronic form describing the use and operation of the Solution and Software, including any technical manuals, but excluding any sales, advertising or marketing materials or proposals.

"Effective Date" means the date of the last signature on this Agreement, unless access to the Subscription Service occurs later, in which case, the Effective Date will be the date when Customer first has access to the Subscription Services.

“Feedback” means comments or information, in oral or written form, given to Motorola by Customer, in connection with or relating to the Solution and Subscription Services.

“Force Majeure” which means an event, circumstance, or act that is beyond a Party’s reasonable control, such as an act of God, an act of the public enemy, an act of a government entity, strikes, other labor disturbances, supplier performance, hurricanes, earthquakes, fires, floods, epidemics, embargoes, war, riots, or any other similar cause.

“Licensed Product” means 1) Software, whether hosted or installed at Customer’s site, 2) Documentation; 3) associated user interfaces; 4) help resources; and 5) any related technology or other services made available by the Solution.

“Native Data” means data that is created solely by Customer or its agents.

“Proprietary Rights” means the patents, patent applications, inventions, copyrights, trade secrets, trademarks, trade names, mask works, know-how, ideas and concepts, moral rights, processes, methodologies, tools, techniques, and other intellectual property rights.

“Software” means the Motorola owned or licensed off the shelf software programs delivered as part of the Licensed Products used to provide the Subscription Services, including all bug fixes, updates and upgrades.

“Solution” means collectively, the Software, servers and any other hardware or equipment operated by Motorola and used in conjunction with the Subscription Services.

“Solution Data” means Customer Data that is transformed, altered, processed, aggregated, correlated or operated on by Motorola, its vendors or other data sources and data that has been manipulated or retrieved using Motorola know-how to produce value-added content that is made available to Customer with the Solution and Subscription Services.

“Statement of Work” If included, the Statement of Work (“SOW”) describes the Subscription Services, Deliverables (if any), Licensed Products and Solution that Motorola will provide to Customer under this Agreement, and the other work-related responsibilities that the parties owe to each other. The Statement of Work may contain a performance schedule.

“Subscription Services” means those subscription services to be provided by Motorola to Customer under this Agreement, the nature and scope of which are more fully described in the Documentation, proposal, SOW, or other Solution materials provided by Motorola, as applicable.

“Users” means Customer’s authorized employees or other individuals authorized to utilize the Subscription Services on behalf of Customer and who will be provided access to the Subscription Services by virtue of a password or equivalent security mechanism implemented by Customer.

2. SCOPE

21 **Subscription Services.** Motorola will provide to Customer the Subscription Services and Deliverables (if any). As part of the Subscription Services, Motorola will allow Customer to use the Solution described in the Statement of Work, Documentation, proposal, or other Solution materials provided by Motorola (“Incorporated Document(s)”), as applicable. Some Subscription Services will also be subject to additional terms unique to that specific Subscription Service. Such additional terms will be set forth in an Addendum. In the event of a conflict between an Addendum and the body of the

Agreement, the Addendum will govern resolution of the conflict. Motorola and Customer will perform their respective responsibilities as described in this Agreement and any applicable Incorporated Documents.

22 **Changes.** Customer may request changes to the Services. If Motorola agrees to a requested change, the change must be confirmed in writing and signed by authorized representatives of both parties. A reasonable price adjustment will be made if any change affects the time of performance or the cost to perform the Services.

23 **Non-solicitation.** During the term of this Agreement and for twelve (12) months thereafter, Customer will not actively solicit the employment of any Motorola personnel who is involved directly with providing any of the Services.

3. TERM

31 **Term.** Unless a different Term is set forth in an applicable Addendum or the Incorporated Documents, the Term of this Agreement begins on the Effective Date and continues for twelve (12) months. The Agreement automatically renews annually on the anniversary of the Effective Date, unless either Party notifies the other of its intention to not renew the Agreement (in whole or part) at least thirty (30) days before the anniversary date or until termination by either Party in accordance with the Termination section of this Agreement.

32 **Minimum Initial Term.** For certain Subscription Services, a minimum initial term greater than one year may be required ("Minimum Initial Term"). Following the Minimum Initial Term, this Agreement will automatically renew upon each anniversary of the Effective Date for a successive renewal term of the same duration as the Minimum Initial Term, unless either Party: 1) notifies the other of its intention to not renew the Agreement (in whole or part) at least thirty (30) days before the anniversary date; 2) requests an alternate term; or 3) terminates in accordance with the termination provision in the Agreement, including non-payment of fees for the renewal period by the anniversary date.

33 **Renewals.** The terms and conditions of the Agreement and will govern any renewal periods.

4. **CUSTOMER OBLIGATIONS.** Customer will fulfill all of its obligations in this Agreement, including applicable addendums and Incorporated Documents in a timely and accurate manner. Failure to do so may prevent Motorola from performing its responsibilities.

41 **Access.** To enable Motorola to perform the Subscription Services, Customer will provide to Motorola reasonable access to relevant Customer information, personnel, systems, and office space when Motorola's employees are working on Customer's premises, and other general assistance. Further, if any equipment is installed or stored at Customer's location in order to provide the Subscription Services, Customer will provide, at no charge, a non-hazardous environment with adequate shelter, heat, light, power, security, and full and free access to the equipment.

42 **Customer Information.** If the Documentation, Statement of Work, proposal, or other related documents contain assumptions that affect the Subscription Services or Deliverables, Customer will verify that they are accurate and complete. Any information that Customer provides to Motorola concerning the Subscription Services or Deliverables will be accurate and complete in all material respects. Customer will make timely decisions and obtain any required management and third party approvals or consents that are reasonably necessary for Motorola to perform the Subscription Services and its other duties under this Agreement. Unless the Statement of Work states the contrary, Motorola may rely upon and is not required to evaluate, confirm, reject, modify, or provide advice concerning any assumptions and

Customer-provided information, decisions and approvals described in this paragraph.

43 **Risk of Loss.** If any portion of the Solution resides on Customer premises or is under Customer's control in any way, Customer shall at all times exercise reasonable care in using and maintaining the Solution in accordance with Motorola's instructions for proper use and care. Risk of loss to any equipment in Customer's possession will reside with Customer until removed by Motorola or its agent or returned by Customer. Customer will be responsible for replacement costs of lost or damaged equipment, normal wear and tear excluded.

44 **Equipment Title.** Unless Customer is purchasing equipment pursuant to the terms in the Addendum entitled "Equipment Purchase" and unless stated differently in this Agreement or in the Incorporated Documents, title to any equipment provided to Customer in connection with the Subscription Services remains vested in Motorola at all times. Any sale of equipment pursuant to this Agreement will be governed by the terms and conditions set forth in the Equipment Purchase Addendum.

45 **Enable Users.** Customer will properly enable its Users to use the Subscription Services, including providing instructions for use, labeling, required notices, and accommodation pursuant to applicable laws, rules, and regulations. Unless otherwise agreed in the Incorporated Documents, Customer will train its Users on proper operation of the Solution and Licensed Products. Customer agrees to require Users to acknowledge and accept the limitations and conditions of use of the Licensed Products in this Agreement prior to allowing Users to access or use Subscription Services.

46 **Non-preclusion.** If, as a result of the Subscription Services performed under this Agreement, Motorola recommends that Customer purchase products or other services, nothing in this Agreement precludes Motorola from participating in a competitive opportunity or otherwise offering or selling the recommended products or other services to Customer. Customer represents that this paragraph does not violate its procurement or other laws, regulations, or policies.

5. Subscription Fees.

51 **Recurring Fees.** Unless stated differently in an applicable addendum, Incorporated Documents or otherwise arranged in writing with Motorola, Services will be provided in exchange for annual pre-paid Subscription Fees. Motorola will submit an invoice for the first year of subscription fees on the Effective Date. On each anniversary of the Effective Date, Motorola will issue an invoice for the annual subscription fees for the following year.

51.1 **No Purchase Order Requirement.** For a Subscription Services Term exceeding one year, Customer affirms that a purchase order or notice to proceed is not required for Motorola to proceed with the entire scope of work described in the Incorporated Documents for subsequent years, including but not limited to multi-year subscription agreements.

52 **Start Up Fees.** Start up fees apply to certain Subscription Services. If the Subscription Service includes start up fees, Motorola will submit an invoice for the start up fees on the Effective Date.

53 **Fee Change.** Motorola reserves the right to change the subscription fees at the end of each Subscription Services Term. Except for any payment that is due on the Effective Date, Customer will make payments to Motorola within thirty (30) days after the date of each invoice. Motorola reserves the right to terminate Service for non-payment of fees.

54 **No Price Guarantee.** Notwithstanding any language to the contrary, the pricing and fees associated with this Agreement will not be subject to any most favored pricing commitment or other similar low price guarantees.

55 **Taxes.** The Subscription Fees and start up fees do not include any excise, sales, lease, use, property, or other taxes, assessments or duties, all of which will be paid by Customer, except as exempt by law. If Motorola is required to pay any of those taxes, it will send an invoice to Customer and Customer will pay to Motorola the amount of the taxes (including any interest and penalties) within thirty (30) days after the date of the invoice. Motorola will be solely responsible for reporting taxes on its income or net worth.

6. ACCEPTANCE; SCHEDULE; FORCE MAJEURE

61 **Acceptance.** The Licensed Products will be deemed accepted upon the delivery of usernames and passwords or other validation mechanism to Customer. If usernames and passwords have been issued to Customer prior to the Effective Date, the Licensed Products will be deemed accepted on the Effective Date.

62 **Schedule.** All Subscription Services will be performed in accordance with the performance schedule included in the Statement of Work, or if there is no performance schedule, within a commercially reasonable time period.

63 **Force Majeure.** Neither Party will be liable for its non-performance or delayed performance if caused by a Force Majeure. Each Party will notify the other in writing if it becomes aware of any Force Majeure that will significantly delay performance. The notifying Party will give the notice promptly (but in no event later than fifteen (15) days) after it discovers the Force Majeure.

7. LIMITED LICENSE

7.1 **Licensed Products.** Use of the Licensed Products by Customer and its Users is strictly limited to use in connection with the Solution or Subscription Services during the Term. Customer and Users will refrain from, and will require others to refrain from, doing any of the following with regard to the Software in the Solution: (i) directly or indirectly, by electronic or other means, copy, modify, or translate the Software; (ii) directly or indirectly, by electronic or other means, reproduce, reverse engineer, distribute, sell, publish, commercially exploit, rent, lease, sublicense, assign or otherwise transfer or make available the Licensed Products or any part thereof to any third party, or otherwise disseminate the Licensed Product in any manner; (iii) directly or indirectly, by electronic or other means, modify, decompile, or disassemble the Software or part thereof, or attempt to derive source code from the Software; or (iv) remove any proprietary notices, labels, or marks on the Software or any part of the Licensed Products. Motorola Solutions reserves all rights to the Software and other Licensed Products not expressly granted herein, including without limitation, all right, title and interest in any improvements or derivatives conceived of or made by Motorola that are based, either in whole or in part, on knowledge gained from Customer Data. Customer agrees to abide by the copyright laws of the United States and all other relevant jurisdictions, including without limitation, the copyright laws where Customer uses the Solution. Customer agrees to immediately cease using the Solution if it fails to comply with this paragraph or any other part of this Agreement. If Software is subject to a click wrap, end user license agreement or is otherwise packaged with or subject to a separate end user license, such license will apply to the use of Software and Licensed Product.

7.2 **Proprietary Rights.** Regardless of any contrary provision in the Agreement, Motorola or its third party providers own and retain all of their respective Proprietary Rights in the Software, Solution, and Licensed Product. Nothing in this Agreement is intended to restrict their Proprietary Rights. All intellectual property developed, originated, or prepared by Motorola in connection with providing Services to Customer remain vested exclusively in Motorola, and this Agreement does not grant to Customer any shared development rights of intellectual property. No custom development work is to be performed under

this Agreement.

8. DATA AND FEEDBACK

81 **Solution Data.** To the extent permitted by law, Motorola, its vendors and licensors are the exclusive owners of all right, title, and interest, in and to the Solution Data, including all intellectual property rights therein. Motorola grants Customer a personal, royalty-free, non-exclusive license to: (i) access, view, use, copy, and store the Solution Data for its internal business purposes and, (ii) when specifically permitted by the applicable Statement of Work, publish Solution Data on its websites for viewing by the public.

82 **Customer Data.** To the extent permitted by law, Customer retains ownership of Customer Data. Customer grants Motorola and its subcontractors a personal, royalty-free, non-exclusive license to use, host, cache, store, reproduce, copy, modify combine, analyze, create derivatives from, communicate, transmit, publish, display, and distribute such Customer Data for the purpose of providing the Subscription Services to Customer, other Motorola Customers and end users, including without limitation, the right to use Customer Data for the purpose of developing new or enhanced solutions. In addition to the rights listed above, Customer grants Motorola a license to sell an Anonymized version of Customer Data for any purpose.

83 **Feedback.** Any Feedback given by Customer is entirely voluntary and, even if designated as confidential, will create no confidentiality obligation for Motorola. Motorola is free to use, reproduce, license or otherwise distribute and exploit the Feedback without any obligation to Customer. Customer acknowledges that Motorola's receipt of the Feedback does not imply or create recognition by Motorola of either the novelty or originality of any idea. The parties further agree that all fixes, modifications and improvement to the Licensed Product or Subscription Service conceived of or made by Motorola that are based, either in whole or in part, on the Feedback are the exclusive property of Motorola and all right, title and interest in and to such fixes, modifications or improvements to the Licensed Product or Subscription Service will vest solely in Motorola.

9 WARRANTY

9.1 **"AS IS".** THE SOLUTION AND SUBSCRIPTION SERVICES ARE PROVIDED "AS IS". MOTOROLA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. Customer acknowledges that the Deliverables may contain recommendations, suggestions or advice from Motorola to Customer (collectively, "Recommendations"). Motorola makes no warranties concerning those Recommendations, and Customer alone accepts responsibility for choosing whether and how to implement the Recommendations and the results to be realized from implementing them.

9.2 **Availability and Accuracy.** Customer acknowledges that functionality of the Solution as well as availability and accuracy of Solution Data is dependent on many elements beyond Motorola's control, including databases managed by Customer or third parties and Customer's existing equipment, software, and Customer Data. Therefore, Motorola does not guarantee availability or accuracy of data, or any minimum level of coverage or connectivity. Interruption or interference with the Subscription Services or Solution may periodically occur. Customer agrees not to represent to any third party that Motorola has provided such guarantee.

9.3 **Equipment Sale.** Warranty for any equipment sold pursuant to this Agreement will be set forth in Equipment Purchase Addendum.

10. DISCLAIMERS

10.1 **Existing Equipment and Software.** If Customer's existing equipment and software is critical to

operation and use of the Subscription Services, Customer is solely responsible for supporting and maintaining Customer's existing equipment and software. Connection to or interface with Customer's existing equipment and software may be required to receive Subscription Services. Any failures or deficiencies of Customer's existing equipment and software may impact the functionality of the Solution and the Subscription Services to be delivered. Any vulnerabilities or inefficiencies in Customer's system may also impact the Solution and associated Subscription Services.

102 **Privacy.** Customer bears sole responsibility for compliance with any laws and regulations regarding tracking; location based services; gathering, storing, processing, transmitting, using or misusing; or otherwise handling personally identifiable information ("PII"), including information about Users of the Solution or citizens in the general public. Further, it is Customer's sole responsibility to comply with any laws or regulations prescribing the measures to be taken in the event of breach of privacy or accidental disclosure of any PII. Enacting and enforcing any internal privacy policies for the protection of PII, including individual disclosure and consent mechanisms, limitations on use of the information, and commitments with respect to the storage, use, deletion and processing of PII in a manner that complies with applicable laws and regulations will be Customer's sole responsibility. Motorola will not evaluate the sufficiency of such policies and disclaims any responsibility or liability for privacy practices implemented by Customer, or lack thereof. Customer acknowledges and agrees that Subscription Services and the Solution are not designed to ensure individual privacy. Customer will inform Users that the Solution may enable visibility to PII, as well as physical location of individuals. Further, if the Solution or Subscription Services are available to the general public pursuant to this Agreement, Customer will provide the appropriate privacy notification. Neither Motorola nor Customer can provide any assurance of individual privacy in connection with the Solution. Further, Customer is solely responsible for determining whether and how to use data gathered from social media sources for the purpose of criminal investigations or prosecution. Customer will hold Motorola harmless from any and all liability, expense, judgment, suit, or cause of action, which may accrue against Motorola for causes of action for damages related to tracking, location based services, breach of privacy, and the use or misuse of PII provided that Motorola gives Customer prompt, written notice of any such claim or suit. Motorola shall cooperate with Customer in its defense or settlement of such claim or suit.

103 **Social Media.** If Customer purchases Subscription Services that utilize social media, Customer acknowledges and agrees that such Subscription Services are not designed to ensure individual privacy. In such case, Customer will inform Users that the Solution and Subscription Services may enable visibility to PII, as well as physical location of individuals. Further, if the Solution or Subscription Services are available to the general public pursuant to this Agreement, Customer will provide the appropriate privacy notification. Neither Motorola nor Customer can provide any assurance of individual privacy in connection with the Solution or Subscription Services utilizing social media. Further, Customer is solely responsible for determining whether and how to use data gathered from social media sources for the purpose of criminal investigations or prosecution. Customer will hold Motorola harmless from any and all liability, expense, judgment, suit, or cause of action, which may accrue against Motorola for causes of action for damages related to tracking, location based services, breach of privacy, and the use or misuse of PII provided that Motorola gives Customer prompt, written notice of any such claim or suit. Motorola shall cooperate with Customer in its defense or settlement of such claim or suit.

104 **Misuse.** Motorola reserves the right to discontinue service at any time without notice to Users that misuse the Service, jeopardize the Licensed Product or public safety in any way.

11. LIMITATION OF LIABILITY

11.1 **Liability Limit.** Except for personal injury or death, Motorola's total liability, whether for breach of contract, warranty, negligence, strict liability in tort, or otherwise, will be limited to the direct damages recoverable under law, but not to exceed the price of twelve (12) months of Subscription Services provided under this Agreement. **ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF**

SUCH LOSSES OR DAMAGES, THEY AGREE THAT MOTOROLA WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOODWILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT OR THE PERFORMANCE OF THE SUBSCRIPTION SERVICES BY MOTOROLA. This limitation of liability provision survives the expiration or termination of this Agreement and applies notwithstanding any contrary provision. No action for contract breach or otherwise relating to the transactions contemplated by this Agreement may be brought more than one (1) year after the accrual of the cause of action, except for money due upon an open account.

112 **Additional Disclaimers.** MOTOROLA DISCLAIMS ANY AND ALL LIABILITY FOR ANY AND ALL LOSS OR COSTS OF ANY KIND ASSOCIATED WITH 1) THE INTERRUPTION, INTERFERENCE OR FAILURE OF CONNECTIVITY, VULNERABILITIES OR SECURITY EVENTS, WHETHER OR NOT THEY ARE DISCOVERED BY MOTOROLA; 2) PERFORMANCE OF CUSTOMER'S EXISTING EQUIPMENT AND SOFTWARE OR ACCURACY OF CUSTOMER DATA; 3) IF ANY PORTION OF THE SOLUTION OR LICENSED PRODUCT RESIDES ON CUSTOMER'S PREMISES, DISRUPTIONS OF AND/OR DAMAGE TO CUSTOMER'S OR A THIRD PARTY'S INFORMATION SYSTEMS, EQUIPMENT, AND THE INFORMATION AND DATA, INCLUDING, BUT NOT LIMITED TO, DENIAL OF ACCESS TO A LEGITIMATE SYSTEM USER, AUTOMATIC SHUTDOWN OF INFORMATION SYSTEMS CAUSED BY INTRUSION DETECTION SOFTWARE OR HARDWARE, OR FAILURE OF THE INFORMATION SYSTEM RESULTING FROM THE PROVISION OR DELIVERY OF THE SERVICE; 4) AVAILABILITY OR ACCURACY OF SOLUTION DATA; 5) INTERPRETATION, USE OR MISUSE IN ANY WAY OF SOLUTION DATA; 6) IMPLEMENTATION OF RECOMMENDATIONS PROVIDED IN CONNECTION WITH THE SUBSCRIPTION SERVICES; 7) TRACKING, AND LOCATION BASED SERVICES, BREACH OF PRIVACY, AND THE USE OR MISUSE OF PERSONALLY IDENTIFIABLE INFORMATION.

113 **Essential term.** The parties acknowledge that the prices have been set and the Agreement entered into in reliance upon these limitations of liability and that all such limitations form an essential basis of the bargain between the parties.

12 DEFAULT AND TERMINATION

121 **Default By a Party.** If either Party fails to perform a material obligation under this Agreement, the other Party may consider the non-performing Party to be in default (unless a Force Majeure causes the failure) and may assert a default claim by giving the non-performing Party a written, detailed notice of default. Except for a default by Customer for failing to pay any amount when due under this Agreement which must be cured immediately, the defaulting Party will have thirty (30) days after receipt of the notice of default to either cure the default or, if the default is not curable within thirty (30) days, provide a written cure plan. The defaulting Party will begin implementing the cure plan immediately after receipt of notice by the other Party that it approves the plan. If Customer is the defaulting Party, Motorola may stop work on the project until it approves the Customer's cure plan.

122 **Failure To Cure.** If a defaulting Party fails to cure the default as provided above in Section 12.1, unless otherwise agreed in writing, the non-defaulting Party may terminate any unfulfilled portion of this Agreement. In the event of a termination for default, the defaulting Party will promptly return to the non-defaulting Party any of its Confidential Information. If Customer is the non-defaulting Party, terminates this Agreement as permitted by this Section, and procures the Services through a third party, Customer may as its exclusive remedy recover from Motorola reasonable costs incurred to procure the Services (but not additional or out of scope services) less the unpaid portion of the Contract Price. Customer agrees to mitigate damages and provide Motorola with detailed invoices substantiating the

charges.

123 **No Refund.** If a subscription is terminated for any reason prior to the end of the Subscription Services Term or other subscription period set forth in the Incorporated Documents or otherwise agreed to in writing by the Parties, no refund or credit will be provided.

124 **Cancellation Fee.** If an Initial Minimum Term applies and Customer terminates prior to the end of the Initial Minimum Term, Customer will be required to pay a cancellation fee of up to fifty percent (50%) of the remaining balance of subscription fees for the Initial Minimum Term.

125 **Return of Discount.** If Customer is afforded a discount in exchange for a term commitment longer than one year, early termination will result in an early termination fee, representing a return of the discount off of list price.

126 **Return Confidential Information.** Upon termination or expiration of the Agreement, Customer will return or certify the destruction of all Confidential Information and Solution Data.

127 **Connection Terminated.** Certain Subscription Services require a connection to Customer systems to access Customer Data (e.g. predictive or analytic services). Upon termination, connection to relevant data sources will be disconnected and Motorola will no longer extract any CustomerData.

128 **Equipment Return.** Any equipment provided by Motorola for use with the Subscription Services, must be returned within thirty (30) days of the date of termination, at Customer's expense. If equipment is not returned within this time frame, Motorola reserves the right to invoice the Customer for the purchase price of the unreturned equipment.

129 **Five Year Term.** Motorola provides equipment for use in connection with certain Subscription Services. Upon expiration and non-renewal of a five (5) year subscription Term, Title to the equipment will automatically transfer to Customer upon the subscription expiration date.

13. DISPUTES

13.1 **Settlement.** The parties will attempt to settle any dispute arising from this Agreement (except for a claim relating to intellectual property or breach of confidentiality) through consultation and a spirit of mutual cooperation. The dispute will be escalated to appropriate higher-level managers of the parties, if necessary. If cooperative efforts fail, the dispute will be mediated by a mediator chosen jointly by the parties within thirty (30) days after notice by one of the parties demanding non-binding mediation. The parties will not unreasonably withhold consent to the selection of a mediator, will share the cost of the mediation equally, may agree to postpone mediation until they have completed some specified but limited discovery about the dispute, and may replace mediation with some other form of non-binding alternative dispute resolution ("ADR").

13.2 **Litigation.** A Party may submit to a court of competent jurisdiction any claim relating to intellectual property, breach of confidentiality, or any dispute that cannot be resolved between the parties through negotiation or mediation within two (2) months after the date of the initial demand for non-binding mediation. Each Party consents to jurisdiction over it by that court. The use of ADR procedures will not be considered under the doctrine of laches, waiver, or estoppel to affect adversely the rights of either Party. Either Party may resort to the judicial proceedings described in this section before the expiration of the two-month ADR period if good faith efforts to resolve the dispute under these procedures have been

unsuccessful; or interim relief from the court is necessary to prevent serious and irreparable injury to the Party.

14. SECURITY.

14.1 **Industry Standard.** Motorola will maintain industry standard security measures to protect the Solution from intrusion, breach, or corruption. During the term of Agreement, if the Solution enables access to Criminal Justice Information (“CJI”), as defined by the Criminal Justice Information Services Security Policy (“CJIS”), Motorola will provide and comply with a CJIS Security Addendum. Any additional Security measure desired by Customer may be available for an additional fee.

14.2 **Background checks.** Motorola will require its personnel that access CJI to submit to a background check based on submission of FBI fingerprint cards.

14.3 **Customer Security Measures.** Customer is independently responsible for establishing and maintaining its own policies and procedures and for ensuring compliance with CJIS and other security requirements that are outside the scope of the Subscription Services provided. Customer must establish and ensure compliance with access control policies and procedures, including password security measures. Further, Customer must maintain industry standard security and protective data privacy measures. Motorola disclaims any responsibility or liability whatsoever for the security or preservation of Customer Data or Solution Data once accessed or viewed by Customer or its representatives. Motorola further disclaims any responsibility or liability whatsoever that relates to or arise from Customer's failure to maintain industry standard security and data privacy measures and controls, including but not limited to lost or stolen passwords. Motorola reserves the right to terminate the Service if Customer's failure to maintain or comply with industry standard security and control measures negatively impacts the Service, Solution, or Motorola's own security measures.

14.4 **Breach Response Plan.** Both parties will maintain and follow a breach response plan consistent with the standards of their respective industries.

15. CONFIDENTIAL INFORMATION AND PROPRIETARY RIGHTS

15.1. CONFIDENTIAL INFORMATION.

15.1.1. **Treatment of Confidential Information.** During the term of this Agreement, the parties may provide each other with Confidential Information. Licensed Products, and all Deliverables will be deemed to be Motorola's Confidential Information. Each Party will: maintain the confidentiality of the other Party's Confidential Information and not disclose it to any third party, except as authorized by the disclosing Party in writing or as required by a court of competent jurisdiction; restrict disclosure of the Confidential Information to its employees who have a “need to know” and not copy or reproduce the Confidential Information; take necessary and appropriate precautions to guard the confidentiality of the Confidential Information, including informing its employees who handle the Confidential Information that it is confidential and is not to be disclosed to others, but those precautions will be at least the same degree of care that the receiving Party applies to its own confidential information and will not be less than reasonable care; and use the Confidential Information only in furtherance of the performance of this Agreement or pursuant to the license granted immediately below.

15.1.2. **Ownership of Confidential Information.** The disclosing Party owns and retains all of its Proprietary Rights in and to its Confidential Information, except the disclosing Party hereby grants to the receiving Party the limited right and license, on a non-exclusive, irrevocable, and royalty-free basis, to use

the Confidential Information for any lawful, internal business purpose in the manner and to the extent permitted by this Agreement.

15.2 PRESERVATION OF PROPRIETARY RIGHTS.

15.2.1 Proprietary Solution. Customer acknowledges that the Licensed Products and any associated Documentation, data, and methodologies used in providing Services are proprietary to Motorola or its third party licensors and contain valuable trade secrets. In accordance with this Agreement, Customer and its employees shall treat the Solution and all Proprietary Rights as Confidential Information and will maintain the strictest confidence.

15.2.2. Ownership. Each Party owns and retains all of its Proprietary Rights that exist on the Effective Date. Motorola owns and retains all Proprietary Rights that are developed, originated, or prepared in connection with providing the Deliverables or Services to Customer, and this Agreement does not grant to Customer any shared development rights. At Motorola's request and expense, Customer will execute all papers and provide reasonable assistance to Motorola to enable Motorola to establish the Proprietary Rights. Unless otherwise explicitly stated herein, this Agreement does not restrict a Party concerning its own Proprietary Rights and is not a grant (either directly or by implication, estoppel, or otherwise) of a Party's Proprietary Rights to the other Party.

15.3 Remedies. Because Licensed Products contain valuable trade secrets and proprietary information of Motorola, its vendors and licensors, Customer acknowledges and agrees that any actual or threatened breach of this Section will constitute immediate, irreparable harm to Motorola for which monetary damages would be an inadequate remedy, and that injunctive relief is an appropriate remedy for such breach. Notwithstanding anything in this Agreement to the contrary, Motorola reserves the right to obtain injunctive relief and any other appropriate remedies from any court of competent jurisdiction in connection with any actual, alleged, or suspected breach of Section 3, infringement, misappropriation or violation of Motorola's Property Rights, or the unauthorized use of Motorola's Confidential Information. Any such action or proceeding may be brought in any court of competent jurisdiction. Except as otherwise expressly provided in this Agreement, the parties' rights and remedies under this Agreement are cumulative.

16. GENERAL

16.1 Future Regulatory Requirements. The Parties acknowledge and agree that this is an evolving technological area and therefore, laws and regulations regarding Subscription Services and use of the Solution may change. Changes to existing Subscription Services or Solution required to achieve regulatory compliance may be available for an additional fee. Any required changes may also impact the Fees for services.

16.2 Compliance with Applicable Laws. Each Party will comply with all applicable federal, state, and local laws, regulations and rules concerning the performance of this Agreement. Further, Customer will comply with all applicable export and import control laws and regulations in its use of the Licensed Products and Subscription Services. In particular, Customer will not export or re-export the Licensed Products without Motorola's prior written consent, and, if such consent is granted, without Customer first obtaining all required United States and foreign government licenses. Customer further agrees to comply with all applicable laws and regulations in providing the Customer Data to Motorola, and Customer warrants and represents to Motorola that Customer has all rights necessary to provide such Customer Data to Motorola for the uses as contemplated hereunder. Customer shall obtain at its indemnify expense

all necessary licenses, permits and regulatory approvals required by any and all governmental authorities as may from time to time be required in connection with its activities related to this Agreement. To the extent permitted by applicable law, Customer will defend, indemnify, and hold harmless Motorola from and against any violation of such laws or regulations by Customer or any of its agents, officers, directors, or employees.

16.3 **Audit.** Motorola reserves the right to monitor and audit use of the Subscription Services. Customer will cooperate and will require Users to cooperate with such monitoring or audit.

16.4 **Assignability.** Except as provided herein, neither Party may assign this Agreement or any of its rights or obligations hereunder without the prior written consent of the other Party, which consent will not be unreasonably withheld. Any attempted assignment, delegation, or transfer without the necessary consent will be void. Notwithstanding the foregoing, Motorola may assign this Agreement to any of its affiliates or its right to receive payment without the prior consent of Customer. In addition, in the event Motorola separates one or more of its businesses (each a "Separated Business"), whether by way of a sale, establishment of a joint venture, spin-off or otherwise (each a "Separation Event"), Motorola may, without the prior written consent of the other Party and at no additional cost to Motorola, assign this Agreement such that it will continue to benefit the Separated Business and its affiliates (and Motorola and its affiliates, to the extent applicable) following the Separation Event. Motorola may subcontract any of the work, but subcontracting will not relieve Motorola of its duties under this Agreement.

16.5 **Subcontracting.** Motorola may subcontract any portion of the Subscription Services without prior notice or consent of Customer.

16.6 **Waiver.** Failure or delay by either Party to exercise a right or power will not be a waiver of the right or power. For a waiver of a right or power to be effective, it must be in a writing signed by the waiving Party. An effective waiver of a right or power will not be construed as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

16.7 **Severability.** If a court of competent jurisdiction renders any part of this Agreement invalid or otherwise unenforceable, that part will be severed and the remainder of this Agreement will continue in full force and effect.

16.8 **Independent Contractors.** Each Party will perform its duties under this Agreement as an independent contractor. The parties and their personnel will not be considered to be employees or agents of the other Party. Nothing in this Agreement will be interpreted as granting either Party the right or authority to make commitments of any kind for the other. This Agreement will not constitute, create, or be interpreted as a joint venture, partnership or formal business organization of any kind.

16.9 **Headings.** The section headings in this Agreement are inserted only for convenience and are not to be construed as part of this Agreement or as a limitation of the scope of the particular section to which the heading refers. This Agreement will be fairly interpreted in accordance with its terms and conditions and not for or against either Party.

16.10 **Governing Law.** This Agreement and the rights and duties of the parties will be governed by and interpreted in accordance with the laws of the State of Illinois.

16.11 **Notices.** Notices required under this Agreement to be given by one Party to the other must be in writing and either personally delivered or sent to the address provided by the other Party by certified mail, return receipt requested and postage prepaid (or by a recognized courier service, such as Federal Express, UPS, or DHL), or by facsimile with correct answerback received, and will be effective upon receipt.

16.12 **Authority To Execute Agreement.** Each Party represents that it has obtained all necessary approvals, consents and authorizations to enter into this Agreement and to perform its duties under this Agreement; the person executing this Agreement on its behalf has the authority to do so; upon execution and delivery of this Agreement by the parties, it is a valid and binding contract, enforceable in accordance with its terms; and the execution, delivery, and performance of this Agreement does not violate any bylaw, charter, regulation, law or any other governing authority of the Party.

16.13 **Return of Equipment.** Upon termination of the contract for any reason, Customer shall return to Motorola all equipment delivered to Customer, if any.

16.14 **Survival Of Terms.** The following provisions survives the expiration or termination of this Agreement for any reason: if any payment obligations exist, Section 5 (Subscription Fees); Section 11 (Limitation of Liability); Section 12 (Default and Termination); Section 13 (Disputes); Section 15 (Confidential Information and Proprietary Rights);; and all General provisions in Section 16.

16.15 **ENTIRE AGREEMENT.** This Agreement and any Incorporated Documents or related attachments constitute the entire agreement of the Parties regarding the subject matter of this Agreement and supersedes all previous agreements, proposals, and understandings, whether written or oral, relating to this subject matter. This Agreement may be amended or modified only by a written instrument signed by authorized representatives of both Parties. The preprinted terms and conditions found on any Customer purchase or purchase order, acknowledgment or other form will not be considered an amendment or modification of this Agreement, even if a representative of each Party signs that document.

In witness whereof, the parties hereto have executed this Agreement as of the Effective Date.

CUSTOMER

MOTOROLA SOLUTIONS, INC.

BY: _____

BY: _____

NAME: _____

NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

BILL TO ADDRESS:

SHIP TO ADDRESS:

Name: _____

Name: _____

Address: _____

Address: _____

Address: _____

Address: _____

Phone #: _____

Phone #: _____

Email: _____

Note: Invoices will be emailed to this address.

FINAL DESTINATION:

Name: _____

Address: _____

Address: _____

Phone #: _____

SMARTPTT PLUS
FOR ALL MOTOTRBO SYSTEMS

SmartPTT

SmartPTT PLUS is a control room solution that's closely integrated into the MOTOTRBO system infrastructure to deliver flexible and scalable console functionality. Based around an IP network, it gives you smooth scalability so that your system can grow with your organization's needs.

The solution's IP connectivity also enables you to deploy SmartPTT PLUS as a distributed system, with consoles located wherever you need them. A highly customizable user interface allows you to manage your organization in the way that suits you best. The solution is modular, so you only need to buy the functionality you need.

Additional reference materials including ordering guides, brochures, manuals can be found at :

- MOL (<https://businessonline.motorolasolutions.com>) located at: MOL Resource Center > Product Info > Systems > MOTOTRBO > Sold and Supported
- SmartPTT (<http://www.smartptt.com>) or 1-786-362-5525

SmartPTT PLUS New License

Three components must be ordered for new licence key: 1 SmartPTT PLUS Core, 1 or multiple Connectivity Module and Subscriber Licences for each radio in the radio system. Optional modules can be added for further functionality.

SmartPTT PLUS CORE

The SmartPTT PLUS Core software package consists of the following elements:

·Core functions: Voice Dispatch, Fleet Administration, Event Logging, Alarm & Lone Worker, Man Down, Text Messages and Email, Job Ticketing and Telemetry. (NOTE: Job Ticketing not supported on Connect Plus or Capacity Max, Telemetry not supported on Connect Plus)

·1 Radio Server licence, 1 Dispatcher licence and 10 Subscriber Licences.

·1 free year software updates.

The Core must be ordered for new SmartPTT PLUS solution along with one or multiple Connectivity Module and Radio Licences which will open access to the radio systems and the numbers of radios the Dispatcher will connect to. Further functionality can be added with optional modules with the initial order or aftermarket.

Connectivity Modules

One Connectivity module must be ordered for each radio system that the SmartPTT PLUS console will be dispatching to. To connect to multiple systems, multiple connectivity modules are required.

SMARTPTT PLUS IPSC CONNECTIVITY

This module opens SmartPTT PLUS connectivity to one IP Site Connect system.

SMARTPTT PLUS CAP+ CONNECTIVITY

This module opens SmartPTT PLUS connectivity to one Capacity Plus system.

SMARTPTT PLUS LCP CONNECTIVITY

This module opens SmartPTT PLUS connectivity to one Linked Capacity Plus system.

SMARTPTT PLUS CONNECT+ CONNECTIVITY

This module opens SmartPTT PLUS connectivity to one Connect Plus system.

SMARTPTT PLUS CAPACITY MAX CONNECTIVITY

This module opens SmartPTT PLUS connectivity to one Connect Plus system.

SMARTPTT PLUS 4-WIRE E&M CONNECTIVITY

Opens SmartPTT PLUS connectivity to one analog 4-wire E&M system. Calls in the 4-wire system are transformed into group calls in the MOTOTRBO system and vice versa.

Subscriber Licenses

One Subscriber License must be purchased for each radio used in the MOTOTRBO system. Note: 10 radios licences are included in SmartPTT PLUS Core package. For example: if there are 120 radios, then 110 SmartPTT PLUS Subscriber Licenses need to be ordered.

Subscriber licences can also be purchased aftermarket, 10 units is the minimum.

Optional Modules

In addition to the key functionality provided in SmartPTT PLUS Core, further functionality can be added by purchasing optional modules.

These functional modules or additional dispatcher client and radio server can be purchased with the initial order or aftermarket to expand an existing SmartPTT PLUS licence key.

Dispatch positions and Radio Servers

SMARTPTT PLUS ADD DISPATCHER

The Additional Dispatcher adds support for one additional Dispatcher Client. Note: One dispatcher is included with the core.

SMARTPTT PLUS BACK-UP RADIO SERVER

The Additional Radio Server adds support for one additional Radio Server for redundancy (back-up server).

SMARTPTT PLUS ADD RADIO SERVER

The Additional Radio Server adds support for one additional Radio Server for multiple server architecture. (Seldom used, if you think this is needed please contact your MSI Sales Rep.)

Functional Modules

SMARTPTT PLUS IP SYSTEM BRIDGE

The IP System Bridge provides bridging capability between two or more radio systems. It enables communications between radios located on different networks with permanent and dynamic bridging of voice and data calls. Supported in: IPSC, Cap Plus, LCP, and with limited functionality in Connect Plus.

SMARTPTT PLUS VOICE RECORDING

The Voice Recording module provides advanced voice recording capabilities: all calls recorded, inc. individual calls, audio files stored in MP3 format on Radio Server and Dispatcher, files can be played back from the Dispatcher console event viewer or any standard sound player.

Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

SMARTPTT PLUS LOCATION POSITIONING

The Location Positioning module expands SmartPTT PLUS Core with location-based functionalities including: GPS and/or GLONASS location, speed and direction of radio users, location logs and full history of movements, geofencing and speed policy and route management.

Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

SMARTPTT PLUS PHONE CONNECT

The Phone Connect module enables integration with phone systems and allows users to make and receive phone calls from radios or the dispatcher console. Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

SMARTPTT PLUS RF COVERAGE MONITORING

The RF Coverage Monitoring module provides a graphical representation of the network coverage area based on RSSI level of the received signals from GPS-enabled MOTOTRBO radios. This module only works with the Location Positioning module.

Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

SMARTPTT PLUS SYSTEM MONITORING

The System Monitoring module provides advanced analytics on the performance and utilization of the MOTOTRBO systems including: real-time voice and data activity monitoring, system topology, network diagnostics and control, alarm log and alarm notifications, RF Coverage Monitoring, Monitoring analytics and reports.

Supported in: IPSC, Capacity Plus, LCP, and Connect Plus systems (Note: RF Coverage Monitoring is not available as part of System Monitoring for Connect PLUS systems)

SMARTPTT PLUS WEB DATA CLIENT

The Web Data Client module allows access to SmartPTT PLUS data functionality from a web interface. Data functionality includes: radio check and radio kill, real-time location monitoring with detailed reports, text messaging and radio registration. The module gives access to 5 registered web client users. Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

SMARTPTT PLUS INDOOR POSITIONING

The Indoor Positioning module allows SmartPTT PLUS to receive location information from indoor location hardware beacons, and to use this information to track and display the location of radios that are indoors. The Indoor Positioning module works in conjunction with third-party indoor location software and hardware (beacons and/or option boards). Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

Annual Software Maintenance

When SmartPTT PLUS Core is purchased, a year of free SmartPTT PLUS software updates and support is provided. After a year, the Annual SW Updates and Support licence must be purchased. The Annual SW Updates and Support license entitles the customer to unlimited SmartPTT PLUS SW updates (all new releases and maintenance releases;) SmartPTT PLUS license updates and restores; and SmartPTT PLUS technical phone support. To request a quote please download and complete the request form from MOL Resource Center > Product Info > Systems > MOTOTRBO > SAS.

Upgrade from Enterprise to PLUS

The upgrade path from SmartPTT Enterprise to SmartPTT PLUS is as follows: all radio licences, system connectivity and functional modules in the Enterprise licence are transferred to the PLUS licence. Customers need to purchase:

- The Connectivity module(s) for the system(s) for which they want to connect
- The Upgrade Subscriber Licence for each radio in the system. This is waived for SmartPTT Enterprise consoles purchased before May 31, 2016
- If new functionality is required, additional functional modules must be added
- Also, NAI Data and Voice licences need to be activated on the repeaters, except in Connect Plus and Capacity Max systems.

To request a quote please complete this online request form:

<http://goo.gl/forms/6DScU2qSyZ>

For additional questions, please contact ats.support@motorolasolutions.com

US VERSION					
		GW3-TRBO®			
		FOR MOTOTRBO			



MAXIMIZE INVESTMENT. ENSURE AVAILABILITY. OPTIMIZE PERFORMANCE.

Managing a radio system can be overwhelming. Trying to make sense of system activity and equipment alarms is challenging enough when RF or IT is not your first language. Attempting to translate that information into what it means, in terms of system availability and health, is difficult and time consuming. What you need is a trusted and simple solution with detailed reporting and analysis presented in an intuitive way. Let GW3-TRBO® do the heavy lifting with a centralized and comprehensive monitoring and management solution that will provide you with the complete picture.

GW3-TRBO is a Windows-based software solution that monitors and proactively manages all data collected from a MOTOTRBO® System(s). By using this software, System Administrators are able to maintain constant visibility into how their system is performing, which helps them to make more informed and data-driven decisions regarding their radio resources. This user-friendly software solution helps to ensure system availability, optimize system performance and maximize

Reference materials including ordering guides, brochures, solution briefs, and manuals are available at: genesishworld.com/resources or by calling +1 877-548-0465 or by emailing sales@genesishworld.com

GW3-TRBO Network Management Software for Capacity Max (L3633)

GW3-TRBO REQUIRES IP connectivity to: Trunk Controller(s), System Advisor(s), VRC Gateway(s), and all repeaters. GW3-TRBO for Capacity Max (L3633) includes

Licensing:					
1 GW3-TRBO Capacity Max Monitoring License					
6 Capacity Max Site Monitoring Licenses					
1 GW3-TRBO Client Connection					
Archive For Up To 6 Months					
1 Year Software Warranty					

Core Modules:						
Alias Manager						
Security Manager						
Site and System Input Manager						
Trigger Notifications						
Live Views:						
Activity by Talkgroup with Emergencies						
Affiliation Display						
All Activity Screen						
Channel Status Display						
System Activity Summary						
SysVista Performance Dashboard						
Suspect Activity Monitor						
iVista Dashboard and iVista Map						
15+ Reports Including:						
Busy Detail						
Channel Usage						
Radios with Zero Usage						
System Diagnostics						
System Usage						
*Note: PC not included						

GW3-TRBO Network Management Software for Capacity Max (L3633)

STEP 1:

GW3-TRBO Network Management Host Software:

MSRP

L3633	GW3-TRBO Network Management Host Software for Capacity Max	\$18,500.00
	Software USB drive and remote Genesis installation support included. Includes licenses for monitoring up to 6 sites of Capacity Max. *Note: PC not included.	

OR

L3597	GW3-TRBO MOL Add-On Model	\$0.00
	This should only be ordered to add features or capacity to an EXISTING GW3-TRBO solution.	

STEP 2:

GW3-TRBO Software Licensing:

MSRP

TT05276AA	GW3-TRBO Additional 1 Site Monitoring	\$2,000.00
	1 Additional Site Monitoring Input. Above those included in the base package (L3633) for Capacity Max.	
TT05706AA	GW3-TRBO Additional 10 Sites Monitoring	\$13,600.00
	10 Additional Site Monitoring Inputs. Above those included in the base package (L3633) for Capacity Max.	
TT05488AA	GW3-TRBO Additional 1 Simultaneous Client License	\$6,800.00
	1 Additional Client Software license. This option allows the additional connection of a Client to the GW3 Host. Client software can be installed on as many machines as desired, but only the licensed quantity of clients can be connected to the Host at one time. *Note: PC not included.	
TT05596AA	GW3-TRBO Archive Up to 12 Months	\$4,000.00
	Archives MOTOTRBO Activity to SQL database for up to 12 months. *Note: Requires MS SQL Server Standard not included.	
TT05282AA	GW3-TRBO GenSPOut	\$1,000.00
	Includes 1 Connection. Allows a customizable data feed from GW3-TRBO to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc.	
TT06068AA	GW3-TRBO GenSPOut 1 Additional Connection	\$600.00
	1 Additional Licensed Connection. To add-on to GenSPOut Base.	
TT05721AA	GW3-TRBO Interface to RFI Advanced Power Monitor (APM)	\$3,300.00
	Includes 5 APM Connection Licenses. GW3-TRBO polls the Advanced Power Monitor for its current power levels at user-defined intervals. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Requires one connection license per APM. *Note: APM hardware devices not included.	
TT05722AA	GW3-TRBO Interface to RFI APM 1 Additional Connection	\$264.00
	1 Additional APM Connection. Includes a connection to the Advanced Power Monitor to poll for its current power levels at user-defined intervals. Requires one connection license per APM. *Note: APM hardware devices not included.	

		STEP 3:			
GW3-TRBO Hardware:				MSRP	
DDN1537	GW3-TRBO Host Computer			\$4,200.00	
	Machine to meet or exceed specifications published for Desktop Host at: genesisworld.com/trbospecs for the GW3-TRBO Host PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, UPS Battery Backup, and mouse pad. If system has more than 1,200 subscribers or more than 6 sites, order a GW3-TRBO Host Server.				
DDN1538	GW3-TRBO Server Host			\$14,688.00	
	REQUIRED for any system that has more than 1,200 subscribers or more than 6 sites. Machine to meet or exceed specifications published for Server Host at: genesisworld.com/trbospecs for the GW3-TRBO Server PC. Includes 5 Year NBD Service Warranty, Windows OS Server, MS Excel & MS SQL Server Standard. Also includes a standard bezel and static rails.				
DDN1539	GW3-TRBO Client Workstation			\$4,200.00	
	Machine to meet or exceed specifications published for Client at: genesisworld.com/trbospecs for the GW3-TRBO Client PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, and mouse pad.				
TT05159AA	GW3-TRBO External Alarm Relay Box			\$720.00	
	USB hardware box that closes up to 8 relays based on GW3-Trigger events. Use this to turn on alarms, lights, etc. *Note: must be located on the GW3-TRBO host.				
		STEP 4:			
Extended GW3-TRBO Software Support:				MSRP	
TT3321A	Additional 12 months GW3-TRBO software support for L3633 package. Includes support for up to 6 sites and 1 client. Must order			\$4,500.00	
TT06320AA	Additional 12 months GW3-TRBO software support for 1 additional site or client.			\$360.00	
GW3-TRBO Training					
Contact sales@genesisworld.com for GW3-TRBO remote and onsite training options					

GW3-TRBO Network Management Software for Capacity Plus / Multi-Site Capacity Plus / IP Site Connect (L3619)

GW3-TRBO REQUIRES IP connectivity to: all master repeaters and peers on the network. GW3-TRBO for Capacity Plus / Multi-Site Capacity Plus / IP

Licensing:

3 Peer Network Licenses (aka Sites or IPSC Master Repeaters)

1 GW3-TRBO Client Connection

Archive For Up To 6 Months

1 Year Software Warranty

Core Modules:

Alias Manager

Security Manager

Site and System Input Manager

Trigger Notifications

Live Views:

Activity by Talkgroup with Emergencies

All Activity Screen

Channel Status Display

System Activity Summary

SysVista Performance Dashboard

Suspect Activity Monitor

iVISTA Dashboard and iVista Map

15+ Reports Including:

Busy Detail

Channel Usage

Radios with Zero Usage

System Diagnostics

System Usage

Radio Commands:

Radio Call Alert

Radio Disable / Radio Enable

Radio Check

Radio Remote Monitor

Radio Snapshot

*Note: PC not included

GW3-TRBO Network Management Software for Capacity Plus / Multi-Site Capacity Plus / IP Site Connect (L3619)

STEP 1:

GW3-TRBO Network Management Host Software:				MSRP
L3619	GW3-TRBO Network Management Host Software for: Capacity Plus, Multi-Site Capacity Plus, IP Site Connect			\$13,200.00
	Software USB drive and remote Genesis installation support included. Includes licenses for monitoring 3 sites of Capacity Plus / Multi-Site Capacity Plus or 3 peer networks of IPSC. *Note: PC not included.			
		OR		
L3597	GW3-TRBO MOL Add-On Model			\$0.00
	This should only be ordered to add features or capacity to an EXISTING GW3-TRBO solution.			
		STEP 2:		
GW3-TRBO Software Licensing:				MSRP
TT05276AA	GW3-TRBO Additional 1 Site Monitoring			\$2,000.00
	1 Additional Site Monitoring Input. Above those included in the base package (L3619) for Capacity Plus / Multi-Site Capacity Plus. 1 Additional peer network input for IP Site Connected networks above the quantity included in the base packages.			
TT05706AA	GW3-TRBO Additional 10 Sites Monitoring			\$13,600.00
	10 Additional Site Monitoring Inputs. Above those included in the base package (L3619) for Capacity Plus / Multi-Site Capacity Plus. 10 Additional peer network inputs for IP Site Connected networks above the quantity included in the base packages.			
TT05488AA	GW3-TRBO Additional 1 Simultaneous Client License			\$6,800.00
	1 Additional Client Software license. This option allows the additional connection of a Clients to the GW3 Host. Client software can be installed on as many machines as desired, but only the licensed quantity of clients can be connected to the Host at one time. *Note: PC not included.			
TT05596AA	GW3-TRBO Archive Up to 12 Months			\$4,000.00
	Archives MOTOTRBO Activity to SQL database for up to 12 months. *Note: Requires MS SQL Server Standard not included.			
TT05282AA	GW3-TRBO GenSPOut			\$1,000.00
	Includes 1 Connection. Allows a customizable data feed from GW3-TRBO to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc.			
TT06068AA	GW3-TRBO GenSPOut 1 Additional Connection			\$600.00
	1 Additional Licensed Connection. To add-on to GenSPOut Base.			
TT05721AA	GW3-TRBO Interface to RFI Advanced Power Monitor (APM)			\$3,300.00
	Includes 5 APM Connection Licenses. GW3-TRBO polls the Advanced Power Monitor for its current power levels at user-defined intervals. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Requires one connection license per APM. *Note: APM hardware devices not included.			
TT05722AA	GW3-TRBO Interface to RFI APM 1 Additional Connection			\$264.00
	1 Additional APM Connection. Includes a connection to the Advanced Power Monitor to poll for its current power levels at user-defined intervals. Requires one connection license per APM. *Note: APM hardware devices not included.			
TT05520AA	GW3-TRBO Upgrade to Capacity Max or Connect Plus for users who own L3619 Host			\$5,000.00
	For users who own L3619 Host.			

		STEP 3:			
GW3-TRBO Hardware:					MSRP
DDN1537	GW3-TRBO Host Computer				\$4,200.00
	Machine to meet or exceed specifications published for Desktop Host at: genesisworld.com/trbospecs for the GW3-TRBO Host PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, UPS Battery Backup, and mouse pad. If system has more than 1,200 subscribers or more than 6 sites, order a GW3-TRBO Host Server.				
DDN1538	GW3-TRBO Server Host				\$14,688.00
	REQUIRED for any system that has more than 1,200 subscribers or more than 6 sites. Machine to meet or exceed specifications published for Server Host at: genesisworld.com/trbospecs for the GW3-TRBO Server PC. Includes 5 Year NBD Service Warranty, Windows OS Server, MS Excel & MS SQL Server Standard. Also includes a standard bezel and static rails.				
DDN1539	GW3-TRBO Client Workstation				\$4,200.00
	Machine to meet or exceed specifications published for Client at: genesisworld.com/trbospecs for the GW3-TRBO Client PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, and mouse pad.				
TT05159AA	GW3-TRBO External Alarm Relay Box				\$720.00
	USB hardware box that closes up to 8 relays based on GW3-TRBO Trigger events. Use this to turn on alarms, lights, etc. *Note: must be located on the GW3-TRBO host.				
		STEP 4:			
Extended GW3-TRBO Software Support:					MSRP
TT3320A	Additional 12 months GW3-TRBO software support for L3619 package. Includes support for up to 3 sites and 1 client. Must order additional sites/clients as needed.				\$3,175.00
TT06320AA	Additional 12 months GW3-TRBO software support for 1 additional site or client.				\$360.00
GW3-TRBO Training					
Contact sales@genesisworld.com for GW3-TRBO remote and onsite training options.					
GW3-TRBO for Connect Plus					
GW3-TRBO REQUIRES IP connectivity to: XRT Gateway(s), XRC Controller(s), and all repeaters. GW3-TRBO for Connect Plus (L3620) includes the following features:					
Licensing:					
1 GW3-TRBO Connect Plus Monitoring License					
6 Connect Plus Site Monitoring Licenses					
1 GW3-TRBO Client Connection					
Archive For Up To 6 Months					
1 Year Software Warranty					
Core Modules:					
Alias Manager					

Security Manager					
Site and System Input Manager					
Trigger Notifications					
Live Views:					
Activity by Talkgroup with Emergencies					
Affiliation Display					
All Activity Screen					
Channel Status Display					
System Activity Summary					
SysVista Performance Dashboard					
Suspect Activity Monitor					
iVista Dashboard and iVista Map					
15+ Reports Including:					
Busy Detail					
Channel Usage					
Radios with Zero Usage					
System Diagnostics					
System Usage					
*Note: PC not included					

GW3-TRBO Network Management Software for Connect Plus (L3620)

STEP 1:

GW3-TRBO Network Management Host Software:

MSRP

L3620	GW3-TRBO Network Management Host Software for Connect Plus		\$19,800.00
	Software USB drive and remote Genesis installation support included. Includes licenses for monitoring up to 6 sites of Connect Plus. *Note: PC not included.		

OR

L3597	GW3-TRBO MOL Add-On Model		\$0.00
	This should only be ordered to add features or capacity to an EXISTING GW3-TRBO solution.		

STEP 2:

GW3-TRBO Software Licensing:

MSRP

TT05276AA	GW3-TRBO Additional 1 Site Monitoring		\$2,000.00
	1 Additional Site Monitoring Input. Above those included in the base package (L3620) for Connect Plus.		
TT05706AA	GW3-TRBO Additional 10 Sites Monitoring		\$13,600.00
	10 Additional Site Monitoring Inputs. Above those included in the base package (L3620) for Connect Plus.		
TT05488AA	GW3-TRBO Additional 1 Simultaneous Client License		\$6,800.00
	1 Additional Client Software license. This option allows the additional connection of a Client to the GW3 Host. Client software can be installed on as many machines as desired, but only the licensed quantity of clients can be connected to the Host at one time. *Note: PC not included.		
TT05596AA	GW3-TRBO Archive Up to 12 Months		\$4,000.00
	Archives MOTOTRBO Activity to SQL database for up to 12 months. *Note: Requires MS SQL Server Standard not included.		
TT05282AA	GW3-TRBO GenSPOut		\$1,000.00
	Includes 1 Connection. Allows a customizable data feed from GW3-TRBO to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc.		
TT06068AA	GW3-TRBO GenSPOut 1 Additional Connection		\$600.00
	1 Additional Licensed Connection. To add-on to GenSPOut Base.		
TT05721AA	GW3-TRBO Interface to RFI Advanced Power Monitor (APM)		\$3,300.00
	Includes 5 APM Connection Licenses. GW3-TRBO polls the Advanced Power Monitor for its current power levels at user-defined intervals. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Requires one connection license per APM. *Note: APM hardware devices not included.		
TT05722AA	GW3-TRBO Interface to RFI APM 1 Additional Connection		\$264.00
	1 Additional APM Connection. Includes a connection to the Advanced Power Monitor to poll for its current power levels at user-defined intervals. Requires one connection license per APM. *Note: APM hardware devices not included.		

		STEP 3:			
GW3-TRBO Hardware:				MSRP	
DDN1537	GW3-TRBO Host Computer			\$4,200.00	
	Machine to meet or exceed specifications published for Desktop Host at: genesisworld.com/trbospecs for the GW3-TRBO Host PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, UPS Battery Backup, and mouse pad. If system has more than 1,200 subscribers or more than 6 sites, order a GW3-TRBO Host Server.				
DDN1538	GW3-TRBO Server Host			\$14,688.00	
	REQUIRED for any system that has more than 1,200 subscribers or more than 6 sites. Machine to meet or exceed specifications published for Server Host at: genesisworld.com/trbospecs for the GW3-TRBO Server PC. Includes 5 Year NBD Service Warranty, Windows OS Server, MS Excel & MS SQL Server Standard. Also includes a standard bezel and static rails.				
DDN1539	GW3-TRBO Client Workstation			\$4,200.00	
	Machine to meet or exceed specifications published for Client at: genesisworld.com/trbospecs for the GW3-TRBO Client PC. Includes 4 Year NBD Service Warranty, Windows OS, MS Excel & MS SQL Express. Also, includes a wired mouse, keyboard, monitor, and mouse pad.				
TT05159AA	GW3-TRBO External Alarm Relay Box			\$720.00	
	USB hardware box that closes up to 8 relays based on GW3-Trigger events. Use this to turn on alarms, lights, etc. *Note: must be located on the GW3-TRBO host.				
		STEP 4:			
Extended GW3-TRBO Software Support:				MSRP	
TT3319A	Additional 12 months GW3-TRBO software support for L3620 package. Includes support for up to 6 sites and 1 client. Must order			\$4,500.00	
TT06320AA	Additional 12 months GW3-TRBO software support for 1 additional site or client.			\$360.00	
GW3-TRBO Training					
Contact sales@genesisworld.com for GW3-TRBO remote and onsite training options					

SCOUT™ CONSOLE
FOR MOTOTRBO™ TRUNKING SYSTEMS

GENERAL INFORMATION:

Avtec's Scout™ is a VoIP (Voice over Internet Protocol) wire-line console intended for commercial and operation-critical Connect Plus trunking systems. Avtec Inc. is a technology leader for dispatch consoles with over 30 years of history designing and implementing dispatch console solutions all over the world.

As a qualified MOTOTORBO Application Provider, Avtec has enhanced their Scout console to integrate it with Connect Plus systems as part of the MOTOTRBO Application Development Program.

Key SCOUT console system features include:

- Scalable architecture from 1-60 console positions.
- Dedicated media workstation for console audio.
- True IP architecture.
- Customizable graphical user interface.
- Supports live system updates.
- Integrates with third party CAD.
- Integrates with SIP telephone systems.
- Integrates with IP-enabled logging recorders.

Visit www.avtecinc.com for literature information on Avtec Scout console for Linked Capacity Plus, Connect Plus, and Capacity Max systems.

How to request a quote:

To request a quote for a Scout console system, complete this online request form at <http://goo.gl/forms/A2vKhI024CZnPkuu2>

For additional questions, please contact ats.support@motorolasolutions.com

TRBOnet PLUS FOR ALL MOTOTRBO SYSTEMS

TRBOnet PLUS

TRBOnet PLUS is a control room solution that's closely integrated into the MOTOTRBO system infrastructure to deliver flexible and scalable console functionality. Based around an IP network, it gives you smooth scalability so that your system can grow with your organization's needs.

The solution's IP connectivity also enables you to deploy TRBOnet PLUS as a distributed system, with consoles located wherever you need them. A highly customizable user interface allows you to manage your organization in the way that suits you best. The solution is modular, so you only need to buy the functionality you need.

Additional reference materials including ordering guides, brochures, manuals, and software can be found at :

MOL (<https://businessonline.motorolasolutions.com>) located at: MOL Resource Center > Product Info > Systems > MOTOTRBO > SAS

TRBOnet (<http://www.TRBOnet.com>) or 1-872-222-8726

TRBOnet PLUS New License

Three components must be ordered for new licence key: 1 TRBOnet PLUS Core, 1 or multiple Connectivity Module and Subscriber Licences for each radio in the radio system. Optional modules can be added for further functionality.

TRBOnet PLUS CORE

The TRBOnet PLUS Core software package consists of the following elements:

·Core functions: Voice Dispatch, Fleet Administration, Event Logging, Alarm & Lone Worker, Man Down, Text Messages and Email, Job Ticketing and Telemetry. (NOTE: Job Ticketing not supported on Connect Plus or Capacity Max, Telemetry not supported on Connect Plus)

·1 Radio Server licence, 1 Dispatcher licence and 10 Subscriber Licences.

·1 free year software updates.

The Core must be ordered for new TRBOnet PLUS solution along with one or multiple Connectivity Module and Radio Licences which will open access to the radio systems and the numbers of radios the Dispatcher will connect to. Further functionality can be added with optional modules with the initial order or aftermarket.

Connectivity Modules

One Connectivity module must be ordered for each radio system that the TRBOnet PLUS console will be dispatching to. To connect to multiple systems, multiple connectivity modules are required.

TRBOnet PLUS IPSC CONNECTIVITY

This module opens TRBOnet PLUS connectivity to one IP Site Connect system.

TRBOnet PLUS CAP+ CONNECTIVITY

This module opens TRBOnet PLUS connectivity to one Capacity Plus system.

TRBOnet PLUS LCP CONNECTIVITY

This module opens TRBOnet PLUS connectivity to one Linked Capacity Plus system.

TRBOnet PLUS CONNECT+ CONNECTIVITY

This module opens TRBOnet PLUS connectivity to one Connect Plus system.

TRBOnet PLUS CAPACITY MAX CONNECTIVITY

This module opens TRBOnet PLUS connectivity to one Connect Plus system.

Subscriber Licenses

One Subscriber Licence must be purchased for each radio used in the MOTOTRBO system. Note: 10 radios licences are included in TRBOnet PLUS Core package. For example: if there are 120 radios, then 110 TRBOnet PLUS Subscriber Licenses need to be ordered. Subscriber licences can also be purchased aftermarket, 10 units is the minimum.

Optional Modules

In addition to the key functionality provided in TRBOnet PLUS Core, further functionality can be added by purchasing optional modules.

These functional modules or additional dispatcher client and radio server can be purchased with the initial order or aftermarket to expand an existing TRBOnet PLUS licence key.

Dispatch positions and Radio Servers

TRBOnet PLUS ADDITIONAL DISPATCHER

The Additional Dispatcher adds support for one additional Dispatcher Client. Note: One dispatcher is included with the core.

TRBOnet PLUS BACK-UP RADIO SERVER

The Additional Radio Server adds support for one additional Radio Server for redundancy (back-up server).

TRBOnet PLUS ADDITIONAL RADIO SERVER

The Additional Radio Server adds support for one additional Radio Server for multiple server architecture. (Seldom used, if you think this is needed please contact your MSI Sales Rep.)

Functional Modules

TRBOnet PLUS IP SYSTEM BRIDGE

The IP System Bridge provides bridging capability between two or more radio systems. It enables communications between radios located on different networks with permanent and dynamic bridging of voice and data calls. Supported in: IPSC, Cap Plus, LCP, and with limited functionality in Connect Plus.

TRBOnet PLUS VOICE RECORDING

The Voice Recording module provides advanced voice recording capabilities: all calls recorded, inc. individual calls, audio files stored in MP3 format on Radio Server and Dispatcher, files can be played back from the Dispatcher console event viewer or any standard sound player.

Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

TRBOnet PLUS LOCATION POSITIONING

The Location Positioning module expands TRBOnet PLUS Core with location-based functionalities including: GPS and/or GLONASS location, speed and direction of radio users, location logs and full history of movements, geofencing and speed policy and route management.

Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

TRBOnet PLUS PHONE CONNECT

The Phone Connect module enables integration with phone systems and allows users to make and receive phone calls from radios or the dispatcher console. Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

TRBOnet PLUS RF COVERAGE MONITORING

The RF Coverage Monitoring module provides a graphical representation of the network coverage area based on RSSI level of the received signals from GPS-enabled MOTOTRBO radios. This module only works with the Location Positioning module.

Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

TRBOnet PLUS EXTENDED ALARM MANAGEMENT

The Extended Alarm Management module enables TRBOnet PLUS to manage alarms from different sources, including external alarm panels via TCP/IP and RS232.

Supported in: IPSC, Cap Plus, LCP, Capacity Max, and Connect Plus systems

TRBOnet PLUS WEB DATA CLIENT

The Web Data Client module allows access to TRBOnet PLUS data functionality from a web interface. Data functionality includes: radio check and radio kill, real-time location monitoring with detailed reports, text messaging and radio registration. The module gives access to 5 registered web client users. Supported in: IPSC, Capacity Plus, LCP, Capacity Max, and Connect Plus systems.

TRBOnet PLUS INDOOR POSITIONING

The Indoor Positioning module allows TRBOnet PLUS to receive location information from indoor location hardware beacons, and to use this information to track and display the location of radios that are indoors. The Indoor Positioning module works in conjunction with third-party indoor location software and hardware (beacons and/or option boards).

Supported in: IPSC, Capacity Plus, LCP, and Capacity Max systems.

Annual Software Maintenance

When TRBOnet PLUS Core is purchased, a year of free TRBOnet PLUS software updates and support is provided. After a year, the Annual SW Updates and Support licence must be purchased. The Annual SW Updates and Support license entitles the customer to unlimited TRBOnet PLUS SW updates (all new releases and maintenance releases;) TRBOnet PLUS license updates and restores; and TRBOnet PLUS technical phone support. To request a quote please download and complete the request form from MOL Resource Center > Product Info > Systems > MOTOTRBO > SAS.

Upgrade from Enterprise to PLUS

The upgrade path from TRBOnet Enterprise to TRBOnet PLUS is as follows: all radio licences, system connectivity and functional modules in the Enterprise licence are transferred to the PLUS licence. Customers need to purchase:

- The Connectivity module(s) for the system(s) they want to connect to
- The Upgrade Subscriber Licence for each radio in the system. This is waived for TRBOnet Enterprise consoles purchased before May 31, 2016
- If new functionality is required, additional functional modules must be added
- Also, NAI Data and Voice licences need to be activated on the repeaters, except in Connect Plus and Capacity Max systems.

To request a quote please complete this online request form:

<http://goo.gl/forms/vLMxZbLdQf>

For additional questions, please contact ats.support@motorolasolutions.com

US VERSION

MTR3000 MOTOTRBO & ANALOG CONVENTIONAL BASE RADIO GENERAL INFORMATION

RESELLER PRICES

Please note: The MTR3000 Repeater has been discontinued and is no longer available for purchase. The below software and accessory sections for this repeater will be retained for reference purposes.

MSRP

Premium System Software:

Use the part numbers below to purchase Premium Software feature Entitlement ID's (EID) for the MTR3000 repeaters. You will receive the EID via an e-mail. Use the MOTOTRBO CPS/RM to register the serial number and activate the specific feature in the firmware of the desired unit. Internet connection is required during the registration, but the activation can be done offline.

Premium Software Features included in Essential SW & Repair Services (NEW PURCHASES)	MTR 3000
Enhanced GPS	5 Years
Digital Voting	5 Years
Dynamic Mixed Mode	5 Years
IP Repeater Programming	5 Years

Prices effective 9/30/19

DDN9957	HI-SPEED USB CABLE 6FT (TYPE A -B)	\$20.00
HKLN4439*	Capacity Plus Repeater License	\$1,925.00
HKVN4110*	Linked Capacity Plus New System Deployment	\$5,773.00
HKVN4112*	Linked Capacity Plus Upgrade from Capacity Plus	\$3,850.00
HKVN4324	Capacity Max Repeater License	\$6,927.00
HKVN4243**	Digital Voting Operation	\$1,444.00
HKVN4044	Dynamic Mixed Mode Software Upgrade	\$289.00
HKVN4047	IP Repeater Programming and Upgrade License	\$289.00
	Activate in the MOTOTRBO CPS 6.0 or later. Once activated, the CPS can connect to an unlimited number of repeaters, one at a time.	
HKVN4055**	Enhanced GPS	\$866.00
HKVN4066**	Digital Telephone Interconnect Upgrade	\$674.00
HKVN4178*	Restricted Access to System Security	\$0.00
HKVN4208*	Data Network Application Interface (IP Wireline Data Gateway)	\$866.00
HKVN4209*	Voice Network Application Interface (IP Wireline Voice Gateway) for use with AVTEC SCOUT and WAVE	\$289.00

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the voice Repeater that is connected to the phone patch box and Digital Voting Only in the Voting Repeater).

For MOTOTRBO CPS/RM model/pricing please click the link below:

https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90Uhn-ljto5_HfuaYAcxPkAaVXFntGt4/edit#gid=0

Kit & Accessories: MTR3000 Field Replaceable Units (FRUs)

All Field Replacement Units (FRUs) are available through Customer Care and Service Division (RPSD) 1-800-927-2744.

SERVICE ACCESSORIES:**FRU MTR3000**

DLN6710	FRU VHF 100W PA 136-174	\$3,450.00
DLN6712	FRU VHF 136-174 EXCITER	\$1,500.00
DLN6713	FRU VHF 136-174 RECEIVER	\$1,500.00
DLN6701	FRU UHF 100W PA (403-470 MHz)	\$3,500.00
DLN6702	FRU UHF 100W PA (470-524 MHz)	\$3,450.00
DLN6703	FRU UHF 403-470 MHz, EXCITER	\$1,500.00
DLN6704	FRU UHF 450-524 MHz, EXCITER	\$1,500.00
DLN6705	FRU UHF 403-470 MHz, RECEIVER	\$1,500.00
DLN6706	FRU UHF 450-524 MHz, RECEIVER	\$1,500.00
DLN6714	FRU 800/900 MHZ 100W PA	\$3,450.00
DLN6715	FRU 800/900 MHZ EXCITER	\$1,500.00
DLN6716	FRU 800/900 MHZ RECEIVER	\$1,500.00

POWER SUPPLY FRU MTR3000s

DLN6707	FRU MTR3000 AC/DC POWER SUPPLY	\$1,000.00
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CONTROL/WIRELINE/MISCELLANEOUS FRU MTR3000s

DLN6719	FRU STATION CONTROL TCXO FOR VHF AND UHF	\$1,300.00
DLN6718	FRU STATION CONTROL OCXO FOR 800/900 MHz	\$1,600.00
DLN6720	FRU 4 WIRE WIRELINE	\$450.00

MICROPHONES/SPEAKERS/TEST CABLE:

HSN1006	EXTERNAL SPEAKER	\$104.00
0185180U01	CABLE FOR EXTERNAL SPEAKER	\$18.25
GMMN4063	SERVICE MIC	\$72.00
30009493001	RECEIVER AUDIO TEST CABLE	\$65.25

CABINETS/RACKS & HARDWARE

CLN6679	RACK MOUNT HARDWARE	\$50.00
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US VERSION

MCD 5000 DESKSET SYSTEM DESKSET AND RADIO GATEWAY UNIT

The MCD 5000 Deskset System is a powerful and easy-to-deploy VoIP solution which can now connect to your MOTOTRBO system. You can now reach all of your field personnel using MOTOTRBO from the MCD 5000 Deskset. Ideal for dispatch environments, back-up sites, alternate locations, special events and call monitoring. Scalable from small operations to complex control centers and geographically disbursed operations. The system is easy to use allowing timely and efficient management of your radio communications. With IP technology, you have the flexibility to quickly install desksets where you need them using your IP network infrastructure. You can easily expand communication capabilities throughout your organization for increased safety, awareness and coordination.

GENERAL INFORMATION:

SIMPLE AND FLEXIBLE

The MCD 5000 Deskset connects over your IP network to MCD 5000 Radio Gateway Units (RGUs), each of which supports up to four Motorola radios. The inherent flexibility of this solution allows you to tailor configurations from a single deskset and a single radio to multiple desksets and multiple radios. Further increasing your capabilities, the MCD 5000 Deskset allows deskset users to dynamically switch between MCD 5000 RGUs.

Flexible communication options allow the use of the handset, Push-To-Talk (PTT) switch and built-in condenser microphone, or headset, footswitch and desk microphone accessories.

THE INCREASED FUNCTIONALITY OF MOTOTRBO

Combine the cost-effective and adaptable MCD 5000 Deskset System with MOTOTRBO digital two way communications for increased clarity, capacity and efficiency. The MCD 5000 Deskset System supports MOTOTRBO IP Site Connect, MOTOTRBO Capacity Plus, MOTOTRBO Linked Capacity Plus, MOTOTRBO Connect Plus and MOTOTRBO Capacity Max systems.

The MOTOTRBO digital platform rejects static and noise so communication is clearer over a far wider area than analog. Data applications also run more efficiently, creating an optimal environment for field personnel.

The MCD 5000 Deskset System and MOTOTRBO together create an ideal solution for corporation and university campuses, hotel complexes, hospitals, utilities and any remote field office and command centers that need broad, flexible and affordable communications.

CONFIGURATION AND REPORTING TOOLS

Provide timely support and save travel time when you remotely access your system to configure and troubleshoot the MCD 5000 Deskset and RGU using the MCD 5000 Deskset System Configuration Tool (CT) application. You can also run reports and perform queries for information you need to make real-time decisions.

Supervisor reporting tools allow monitoring of each MCD 5000 Deskset System devices (MCD 5000 Deskset/MCD 5000 RGU) to enhance training and operational efficiencies.

RADIO EMULATION & CONTROL

The MCD 5000 Deskset emulates the buttons and display of the connected MOTOTRBO radio and performs all the functions of the radio control head.

There are also soft keys that can be customized to the unique needs of installations and users for quick control of the standard functions of each radio. For increased security, user profiles can establish which radio resources are allowed to be seen and accessed.

Radio features capable from the Deskset vary from simple 'talk and listen' to Virtual Control Head access to functions of the 2-way radio (PTT IDs, Emergencies, Call Alerts and other advanced signaling for Motorola radios).

An activity log on each MCD 5000 Deskset displays the last operations performed by the user as well as received transmissions.

FEATURES SUPPORTED

--Emergency Alarm and Call	--Talk, Listen
--Channel Steer/Talk Group Select	--PTT Alias ID
--Private, Group and All Call	--Scan
--Voice and Emergency Interrupt	--Keypad Texting

COMPONENTS

The MCD 5000 Deskset System consists of the following components:

MCD 5000 DESKSET - IP-based deskset that provides dispatch capability when connected to a radio. Each MCD 5000 Deskset can only connect to and monitor one radio channel at a time.

DESKSET AUDIO ACCESSORIES (optional) – each MCD 5000 Deskset is capable of supporting one Desktop Paddle Microphone or one Headset Jackbox in addition to a Push-To-Talk (PTT) Foot Switch.

MCD 5000 RADIO GATEWAY UNIT (RGU) – is used to connect radios to the MCD 5000 Deskset System. Each MCD 5000 RGU can interface up to 4 radios to the MCD 5000 Deskset System IP network. A MCD 5000 Deskset user can create a talkpath over the IP network to a radio resource connected to the MCD 5000 RGU. The MCD 5000 Deskset can only connect to and monitor one radio channel at a time.

IP NETWORK –can be deployable on customer's existing WAN/LAN IP Network or on a dedicated IP network for the deskset system.

TWO-WAY RADIO DEVICES – MOTOTRBO XPR5550e Control Station are used with the MCD 5000 Deskset to provide access to the customer's Land Mobile radio (LMR) system.

CONFIGURATION TOOL (CT) APPLICATION – used to configure all parameters and settings on the MCD 5000 Deskset and MCD 5000 RGU. The CT Application can be located remotely anywhere on the IP network or locally using Ethernet connection. The CT Client PC runs on Microsoft Windows® 7 (64-bit) or Windows 10 Pro (64-bit) or Windows 10 IoT Enterprise LTSB 2015/2016 (64-bit) OS.

RESOURCES:

- MCD 5000 Deskset System manuals can be found on MOL - <https://motonline.mot-solutions.com>
Resource Center/Software/Two-Way/Dispatch Console/MCD 5000 Deskset System

ORDERING REQUIREMENTS:

STEP 1: ORDER THE MCD 5000 DESKSET

MCD 5000 Deskset is a desktop console that provides digital control to a variety of Motorola radios. The MCD 5000 Deskset may connect directly to a radio or it may connect to a selected radio over an IP network via the MCD 5000 Radio Gateway Unit (RGU). Through the digital control link the MCD 5000 Deskset emulates the control head of the radio allowing the deskset to perform all the functions that can be performed using the radio control head.

Below are the ordering instructions:

1. Order the MCD 5000 Deskset Hardware (F2380) - Required
2. Order a MCD 5000 Deskset Power Supply for each MCD 5000 Deskset (FHN7469A) - Required

3. Order an ETHERNET CABLE (FKN8695) for each MCD 5000 Deskset to connect to LAN Switch - Required. Available through MSI or may be customer provided.
-- Ethernet Cable 10' with Red and Black (FKN8695)

4. Dependent on Deskset Configuration - Order RADIO INTERFACE CABLE to connect radio to deskset directly if not using a MCD 5000 RGU.

-- FKN0012 - Cable - MCD 5000 to MOTOTRBO XPR5550e Control Station

STEP 2: ORDER MCD 5000 DESKSET ACCESSORIES - OPTIONAL

The MCD 5000 Deskset ships standard with a built-in condenser microphone, an internal front panel speaker, and a K-style handset with a Push-To-Talk (PTT) button.

In addition, the following **OPTIONAL** MCD 5000 Deskset accessories are also available for ordering:

MCD 5000 Deskset Wall Mount Kit (FHN7394) - Max of 1 per deskset

PTT Footswitch (BLN6732B) - Max of 1 per deskset

Desktop Paddle Microphone (RMN5068) OR MCD 5000 Headset Jackbox (FHN7470) - Max of 1 per deskset

Local Logging Cable (FKN8696) to connect a generic analog voice logger to deskset - Max of 1 per deskset

VIP Cable (FKN8697) - Max of 1 per deskset

NOTE: The Desktop Paddle Microphone and Headset cannot be used simultaneously since they use the same connector on the MCD 5000 Deskset.

Below are the ordering instructions:

1. Order a MCD 5000 Deskset Wall Mount Kit (FHN7394) for each MCD 5000 Deskset - Optional

2. Order a PTT Footswitch (BLN6732B) for each MCD 5000 Deskset - Optional

NOTE: Each MCD 5000 Deskset can support up one PTT footswitch. The PTT footswitch provides two foot pedals in a rugged, metal housing with a 7 foot cable. One pedal is used for the general transmit feature while the other pedal is used for the monitor feature.

3. Order a Desktop Paddle Microphone (RMN5068) for each MCD 5000 Deskset - Optional

NOTE: Desktop Paddle Microphone and Headset cannot be used simultaneously since they use the same connector on the MCD 5000 Deskset.

4. Order a Headset for each MCD 5000 Deskset - Optional

- A headset may be used with the MCD 5000 Deskset to allow the deskset user to listen to receive audio and to talk on the radio channel. The MCD 5000 Deskset supports one headset per deskset. The headset must be connected to a MCD 5000 Deskset Headset Jackbox (FHN7470).

- A headset consist of two parts, a base and a top.

- The Headset Base consists of an amplifier unit with volume control, an optional PTT switch, a connector for connecting to the headset jack, a clip for attaching the amplifier to the user's clothing and either a 15 or 25 foot cable for connecting to the jack.

- The Headset Top consists of an earpiece, a microphone, a cable for connecting to the bottom section and a clip for attaching the cable to the user's clothing.

To use a headset with the MCD 5000 Deskset the following **MUST** be ordered per deskset:

Order MCD 5000 Headset Jackbox Hardware (FHN7470)

Order Headset Base - choose base (RLN6098 - Headset Base with PTT switch, 15' CBL) OR (RLN6099A - Headset Base with PTT Switch, 25' CBL)

Order Headset Top - several to choose from - see below:

RMN5150A - EncorePro 510 Over-the-Head Monaural Noise Canceling Headset

RMN5151A - EncorePro 520 Over-the-Head Binaural Noise-Canceling Headset

5. Order a MCD 5000 Logger Cable (FKN8696) for each MCD 5000 Deskset - Optional

NOTE: The MCD 5000 Deskset contains a local 4W-E&M logging output with the ability to connect a generic external voice logger directly to the MCD 5000 Deskset.

6. Order a MCD 5000 VIP Cable (FKN8697) for each MCD 5000 Deskset - Optional

STEP 3: ORDER MCD 5000 RADIO GATEWAY UNITS (RGUs)

MCD 5000 RGU is used to connect radios to the MCD 5000 Deskset System. Each MCD 5000 RGU can interface up to 4 radios to the MCD 5000 Deskset System IP network. A MCD 5000 Deskset user can create a talkpath over the IP network to a radio resource connected to the MCD 5000 RGU. The MCD 5000 Deskset can only connect to and monitor one radio channel at a time.

Below are the ordering instructions:

1. Order the MCD 5000 RGU Hardware (F7879B) - Required

2. Order a MCD 5000 RGU Power Supply for each MCD 5000 RGU (FHN7469A) - Required

3. Order an ETHERNET CABLE for each MCD 5000 RGU to connect to LAN Switch - Required (Available thru MSI or may be customer provided)
-- Ethernet Cable 10' with Red and Black (FKN8695)

4. Order the RADIO INTERFACE CABLE for each radio connected to each MCD 5000 RGU (each RGU can connect up to 4 radios) - Required
-- Cable - MCD 5000 RGU to MOTOTRBO XPR5550e Control Station (FKN0012)

5. Order a RGU RACKMOUNT SHELF (FTN7490) - Optional. Each rackmount can fit up to 2 RGU's.

STEP 4: ORDER THE CONFIGURATION TOOL (CT) APPLICATION CD

The Configuration Tool (CT) application is a Windows based utility, used to configure all parameters and settings on the MCD 5000 Deskset and MCD 5000 RGU. The CT can be located remotely anywhere on the IP network or locally using Ethernet connection. ONE required per system.

Below are the ordering instructions:

1. Order the Configuration Tool (CT) Application CD - ONE REQUIRED per System: FVN5847

2. Order a Configuration Tool (CT) Workstation - TT3492 (Z2 Mini-Win 10) - Optional

3. Order a DVD Drive for the Z2 Mini Workstation - DSF2B56AA (USB EXTERNAL DVD DRIVE FOR Z2 MINI) - Optional

4. Order a Monitor for the Z2 Mini Workstation - DSTG191B (TECH GLOBAL EVOLUTION SERIES 19 INCH NON TOUCH) - Optional

NOTE: CT Application (FVN5847) can be installed on a technician PC and doesn't need to be connected to the MCD 5000 Deskset System at all times.

IMPORTANT NOTE:

Information Assurance (OS Hardening) is orderable for the Z2 Mini Workstation if requested by the customer. OS Hardening removes nonessential tools and utilities from the Windows Operating System, which could be used to help an attacker gain unauthorized access to system settings or data. The hardening process includes several hardening measures, such as closing unused ports, defining password according to definite password rules, and provide limited users privileges.

If IA (OS Hardening) is required, then the CT workstation, TT3492, MUST be supplied from Motorola along with OS Hardening CD - FVN5956. In addition, if the CT Workstation is purchased from Motorola, then order McAfee Windows Anti-Virus Client to install on the workstation - T7885.

If IA OS Hardening is NOT a customer requirement --- below are the CT Application PC requirements for supplying own PC:

Processor: Intel Xeon E5-1603, 2.8 GHz 1066MHz memory Quad Core

System Memory: 4 GB

Free Space on Hard Disk: 10 GB

Network Adapter with LAN 10/100 Mbps

Screen Resolution: 1024 x 768

Operating System: Microsoft Windows 7 Professional SP 1 (64-bit) OR Windows 10 Professional (64-bit) OR Windows 10 IoT Enterprise LTSC 2015/2016 (64-bit)

STEP 5: ORDER SPARES / FIELD REPLACEMENT UNITS (FRUs) - OPTIONAL

FHN7290AS - FRU: K-Style Handset (includes coiled cable) for the MCD 5000 Deskset

FHN7394AS - MCD 5000 Deskset Wall Mount Kit

FKN8696AS - Cable - MCD 5000 Deskset to Logger

FHN7470AS - MCD 5000 Headset Jackbox & Cable

FKN8694AS - Cable - MCD 5000 Deskset to Headset Jackbox

FHN7469AS - MCD 5000 Deskset / RGU Power Supply with USA Power Cord

FKN8695AS - Ethernet Cable 10'

FKN8704AS - Cable - MCD 5000 RGU Ground Cable

FKN0012A- Cable - MCD 5000 RGU to MOTOTRBO XPR5550e Control Station

DSF2B56AA - External DVD Drive for the Z2 Mini Workstation

DSY7B61AA - Vesa Mounting Sleeve for the Z2 Mini Workstation

CONFIGURATION

MODELS		MSRP
F2380A	MCD 5000 DESKSET	\$1,800.00
F7879B	SM, RADIO GATEWAY UNIT (RGU)	\$1,800.00
TT3492A	Z2 MINI WORKSTATION 258G 8G NON RET	\$2,500.00
DSF2B56AA	USB EXTERNAL DVD DRIVE FOR Z2 MINI	\$172.00
DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	\$1,398.00

CABLES		MSRP
FKN8695AS	ETHERNET CABLE 10' WITH RED & BLACK LABELS	\$47.00
FKN0012A	CABLE RGU TO MOTOTRBO (XPR 5550e)	\$100.00

POWER SUPPLY		MSRP
FHN7469A	MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	\$106.20

SOFTWARE APPLICATION		MSRP
FVN5847A	MCD 5000 DESKSET SYSTEM CONFIG TOOL	\$250.00

DESKSET ACCESSORIES		MSRP
FHN7394A	MCD 5000 DESKSET WALL MOUNT KIT	\$50.00
FHN7470A	MCD 5000 DESKSET HEADSET JACK BOX & CABLE	\$301.65
FKN8696A	CABLE - MCD 5000 DESKSET TO LOGGER	\$75.16
FKN8697A	CABLE - MCD 5000 DESKSET TO VIP (R2.0)	\$40.00
FTN7490	MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	\$200.00
DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT	\$77.00
RMN5068A	DESKTOP MIC	\$120.00
BLN6732B	FOOT, SWITCH TRADITIONAL	\$135.00
RLN6098A	HDST MODULE BASE W/PTT, 15' CBL	\$210.00
RLN6099A	HDST MODULE BASE W/PTT, 25' CBL	\$242.00
RMN5150A	ENCOREPRO 510 OVER-THE-HEAD MONAURAL NOISE CANCELING HEADSET	\$149.00
RMN5151A	ENCOREPRO 520 OVER-THE-HEAD BINAURAL NOISE CANCELING HEADSET	\$156.00

INFORMATION ASSURANCE		MSRP
FVN5956A	MCD 5000 WINDOWS SUPPLEMENTAL	\$50.00
T7885A	MCAFFEE WINDOWS AV CLIENT	\$165.00

FIELD REPLACEMENT UNITS		MSRP
FHN7290A	FRU: K-STYLE HANDET (INCLUDES COLIED CABLE) FOR MCD 5000 DESKSET	\$93.71
FKN8694A	FRU: CABLE - MCD 5000 DESKSET TO HEADSET JACK BOX	\$83.34
FKN8704A	FRU: CABLE - MCD 5000 DESKSET RGU GROUND CABLE	\$62.51

US VERSION

SLR 8000 REPEATERS 12.5 kHz

Each SLR 8000 Includes:

- 120V AC Power Cord
- 5 Year Essential Repair and Software
- Quick Start Guide

Features:

- 1-100W transmit power
- Integrated 5A battery charger
- Supports Two Simultaneous Voice Paths in Digital TDMA Mode
- Operates in Analog or Digital Mode
- Supports all MOTOTRBO system architectures
- Remote Diagnostics Alarms and Controls (RDAC)
- 100% Continuous Duty Cycle
- Internal Power Supply
- Rack Mountable
- Automated Battery Back-up (Battery sold separately)



*Please also see the list of available Premium Software feature options below which must be purchased in addition to the repeater.

Prices effective 9/30/19

MODEL NUMBER	PWR	DESCRIPTION	MSRP
T8319	1-100W	SLR 8000 Base Radio	\$4,503.00

FCC INFORMATION: UHF: ABZ99FT4098, VHF: ABZ99FT3095, 8/900 MHz: ABZ99FT5101

You must specify a Transmit (TX) and Receive (RX) frequency at time of order. Please see the SLR 8000 ordering guide available on MOL for specific

https://businessonline.motorolasolutions.com/DOCS/US/ProductInformation_Manuals_Two-WayBaseStations-Repeaters_SLR8000/SLR%208000%20US%20Ordering%20Guide%20MOL.pdf

REQUIRED

Prices effective 9/30/19

SELECT FREQUENCY OPTION:	DESCRIPTION	MSRP
CA02965AA	ADD: VHF (136-174 MHz)	\$4,156.00
CA02962AA	ADD: UHF1 (400-470 MHz)	\$4,156.00
CA03385AA	ADD: 800 MHz	\$4,387.00
CA03414AA	ADD: 900 MHz	\$4,387.00

OPTIONAL

OPTIONAL CONFIGURATIONS:	DESCRIPTION	MSRP
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The following configuration steps are optional. Select those you are interested in receiving.

Duplexer - If a duplexer is ordered, you MUST order a preselector

CA02984AA	ADD : DUPLEXER, UHF (403-435MHz)	\$1,380.00
CA02985AA	ADD : DUPLEXER, UHF (435-470MHz)	\$1,380.00
CA02981AA	ADD : DUPLEXER, VHF (136-146 MHz)	\$1,380.00
CA02982AA	ADD : DUPLEXER, VHF (144-160 MHz)	\$1,380.00
CA02983AA	ADD : DUPLEXER, VHF (158-174 MHz)	\$1,380.00
CA03386AA	ADD: DUPLEXER, 800 MHz	\$1,380.00

Preselector - If a duplexer is ordered, you MUST order a preselector

CA02989AA	ADD: PRESELECTOR, UHF (350-470MHZ)	\$500.00
CA02986AA	ADD: PRESELECTOR, VHF (136-154MHZ)	\$500.00
CA02987AA	ADD: PRESELECTOR, VHF (150-174MHZ)	\$500.00

External Circulator - If an external circulator is ordered, you MUST also order wireline

CA02991AA	ADD: CIRCULATOR, UHF (403-470 MHz)	\$1,500.00
CA02992AA	ADD: CIRCULATOR, VHF (136-146 MHz)	\$1,500.00
CA02993AA	ADD: CIRCULATOR VHF (144-160MHz)	\$1,500.00
CA02994AA	ADD: CIRCULATOR VHF (158-174MHz)	\$1,500.00
CA03387AA	ADD: CIRCULATOR 800 MHz	\$1,000.00

Antenna Relay - If an antenna relay is ordered, you MUST also order the wireline

CA02995AA	ADD: ANTENNA RELAY	\$250.00
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Wireline - If an antenna relay, circulator or Spectra TAC has been ordered, you MUST also order the wireline

CA02996AA	ADD: WIRELINE	\$400.00
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Power Cable - US AC power cord is included in the standard package, the below options will replace the US standard power cord

CA02968AA	ADD : POWER CABLE, EUROPE	N/C
CA02969AA	ADD : POWER CABLE, UK	N/C
CA02970AA	ADD: POWER CABLE, AUSTRALIA	N/C
CA02972AA	ADD: POWER CABLE BRAZIL	N/C

DC Power Cable

CA02971AA	ADD : POWER CABLE, DC	\$25.00
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Interface Cables

CA02977AA	ADD: AUXILIARY SYSTEM CABLE	\$50.00
CA02978AA	ADD: COMMUNITY REPEATER PANEL CABLE	\$50.00
CA02979AA	ADD: ANALOG/DIGITAL PHONE PATCH CABLE	\$50.00
<u>Factory Test Report</u>		
CA03040AA	ADD: SLR 8000 FACTORY TEST REPORT	N/C
<u>Miscellaneous</u>		
CA03000AA	ADD: BASE STATION OPERATION	N/C
CA03041AA	ADD: SLR 8000 BSIM CD	N/C
<u>Spectra TAC - If Spectra TAC is ordered, you MUST also order the wireline</u>		
CA02999AA	ENH: SPECTRA TAC	\$150.00

For technical training on Motorola products, please visit:

<https://learning.motorolasolutions.com/>

US VERSION

SLR 8000 REPEATER ACCESSORIES

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
Premium System Software:		

Use the part numbers below to purchase Premium Software feature Entitlement ID's (EID) for the SLR 8000 repeaters. You will receive the EID via an e-mail. Use the MOTOTRBO CPS/RM to register the serial number and activate the specific feature in the firmware of the desired unit. Internet connection is required during the registration, but the activation can be done offline. Premium system software part numbers for the SLR 8000 are the same as the MTR. The SLR 800 repeaters contain an integrated Chassis ID module which retains the MOTOTRBO Premium Software features that were enabled on the unit.

Premium Software Features included in Essential SW & Repair Services (NEW PURCHASES)	SLR 8000
Enhanced GPS	5 Years
Digital Voting	5 Years
Dynamic Mixed Mode	5 Years
IP Repeater Programming	5 Years

Prices effective 9/30/19

HKLN4439*	Capacity Plus Single Site Digital Trunking	\$1,925.00	
HKVN4112*	Linked Capacity Plus Upgrade from Capacity Plus -	\$3,850.00	
HKVN4110*	Linked Capacity Plus New System Deployment -	\$5,773.00	#REF!
HKVN4324*	Capacity Max Repeater License	\$6,927.00	
HKVN4243**	Digital Voting Operation	\$1,444.00	
HKLN4442	RDAC Multiple System Monitoring Upgrade License	\$250.00	
HKVN4044	Dynamic Mixed Mode Upgrade License (Analog & Digital Automatic Call Switching)	\$289.00	
HKVN4055**	Enhanced Scheduled GPS License	\$866.00	
HKVN4178*	Restricted Access to System Security	\$0.00	
HKVN4047	IP Repeater Programming and Upgrade License Activate in the MOTOTRBO CPS 6.0 or later. Once activated,CPS can connect to an unlimited number of repeaters, one at a time.	\$289.00	
HKVN4066**	Digital Telephone Interconnect Upgrade	\$674.00	
HKVN4366A	Digital Local Audio	\$289.00	
HKVN4208*	Data Network Application Interface (IP Wireline Data Gateway)	\$866.00	
HKVN4209*	Voice Network Application Interface (IP Wireline Voice Gateway) for use with AVTEC SCOUT and WAVE	\$289.00	

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the voice Repeater that is connected to the phone patch box and Digital Voting Only in the Voting Repeater).

Service, Programming Accessories and Cables:

	For MOTOTRBO CPS/RM model/pricing please click the link below: https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90UhN-ljto5_HfuaYAcxPkAaVXFntGt4/edit#gid=0	
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30009477001	Repeater Programming Cable (USB A TO USB B)	Call for Pricing
PMKN4166	Test Cable (for test box and external speaker)	Call for Pricing
RLN4460	Test Box for Portables and Mobiles	Call for Pricing
GMMN4063	Service Mic	Call for Pricing
3082933N08	120V AC Line Cord	Call for Pricing
PMKN4167	Battery Back-up Cable	Call for Pricing

Network Devices:

DSJG411AABA	HP MSR2003 AC ROUTER	\$767.00
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DSHPJ9782A HP Procurve 2530-24 Ethernet Switch (Available to order via MOL only)

\$356.00

Infrastructure Repair:

Infrastructure Repair service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors when applicable.

Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's Infrastructure Depot Operations (IDO).

Upon completion, the repaired unit will be shipped via normal shipping methods. Motorola will pay for outbound shipping via Motorola's normal shipping methods.

For more information, contact your Motorola representative or your Motorola Customer Support Manager.

Infrastructure Repair

<http://ecat.comm.mot.com/ecat/pricebooks/dup/infrep2.htm>

Infrastructure Repair with Advanced Replacement:

Infrastructure Repair with Advanced Replacement service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors when applicable. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's Infrastructure Depot Operations (IDO). When available, Motorola will provide Customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s). Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair. Motorola will pay the inbound shipping charges only with use of the Motorola's designated delivery service. Motorola will also pay for outbound shipping via Motorola's normal shipping methods.

Infrastructure Repair with Advanced Replacement

<http://ecat.comm.mot.com/ecat/pricebooks/dup/infrep.htm>

US VERSION

**SLR 1000
REPEATERS
12.5 kHz**

SUGGESTED RETAIL

Each SLR 1000 Includes:

- 12V DC Power Cord (Requires 12V power source)
- Wall Mount Bracket
- 5 Year Essential Repair and Software
- Quick Start Guide

Features:

- 1-10W transmit power
- IP65 Rated, UL Outdoor Part 22 (60950-22)
- Supports Two Simultaneous Voice Paths in Digital TDMA Mode
- Operates in Analog or Digital Mode
- Supports all MOTOTRBO system architectures
- Remote Diagnostics Alarms and Controls (RDAC)
- 100% Continuous Duty Cycle
- Pole Mount Kit Sold Separately
- AC Power Supply Sold Separately



Frequencies Not Allowed for SLR 1000:

When using an External Repeater Mounted Antenna, the following frequencies are not allowed for the SLR 1000:
400, 403.2, 422.4, 425, 441.6, 450, 460.8, 475, 480, 499.2, 500

*Please also see the list of available Premium Software feature options below which must be purchased in addition to the repeater.

REQUIRED

Prices effective 9/30/19

CATALOG MODEL	DESCRIPTION	BAND	MSRP
AAR11SDGANQ1AN	SLR 1000 400-512M 10W	UHF	\$4,272.00
AAR11JDGANQ1AN	SLR 1000 136-174M 10W	VHF	\$4,272.00

FCC INFORMATION: UHF: ABZ99FT4100, VHF: ABZ99FT3096

OPTIONAL

OPTIONAL CONFIGURATIONS	DESCRIPTION	MSRP
Untuned UHF Internal Duplexers (for use with 10 Watt SLR 1000 only) - Requires Install & Tuning in the Field		
GA01589AA	ADD: UHF DUPLEXER (ROHS) 410-430MHZ (5MHz separation RX or TX)	\$900.00
GA01590AA	ADD: UHF DUPLEXER (ROHS) 430-480MHZ (5MHz separation RX or TX)	\$900.00
GA01591AA	ADD: UHF DUPLEXER (ROHS) 480-527MZ (5MHz separation RX or TX)	\$900.00
Untuned VHF Internal Duplexers (for use with 10 Watt SLR 1000 only) - Requires Install & Tuning in the Field		

GA01589AC	ADD: VHF DUPLEXER (ROHS) 136-156MHZ (5MHz separation RX or TX)	\$900.00
GA01590AC	ADD: VHF DUPLEXER (ROHS) 154-174MHZ (5MHz separation RX or TX)	\$900.00

Internal Antenna Switch (for use with 10 Watt SLR 1000 only) - Requires Install & Configuration in the Field

GA01592AA	ADD: ANTENNA SWITCH (FOR EXTENDED RANGE DIRECT MODE)	\$300.00
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Please note - NOT compatible with above duplexers. This mode of operation requires a software license

External UHF Repeater Mounted Antenna

GA01593AA	ADD: EXTERNAL MOUNTED ANTENNA (400-460MHZ)	\$133.00
GA01594AA	ADD: EXTERNAL MOUNTED ANTENNA (440-495MHZ)	\$133.00
GA01595AA	ADD: EXTERNAL MOUNTED ANTENNA (490-512MHZ)	\$133.00

External VHF Repeater Mounted Antenna

GA01593AC	ADD: EXTERNAL MOUNTED ANTENNA (136-154MHz)	\$133.00
GA01594AC	ADD: EXTERNAL MOUNTED ANTENNA (146-164MHz)	\$133.00
GA01595AC	ADD: EXTERNAL MOUNTED ANTENNA (160-174MHz)	\$133.00

Note: For use with duplexer or antenna switch. If the duplexer or antenna switch accessories are not used, external antennas are required

Note: See above table for self-quieting frequencies

Note: Not recommended for areas that are susceptible to lightning

Power Accessories:

GA01596AA	ADD: AC POWER ADAPTOR KIT FOR INDOOR USE (INCLUDES BRACKET)	\$200.00
GA01597AA	ADD: AC POWER ADAPTOR KIT FOR OUTDOOR USE (HARD WIRE)	\$400.00

Mounting Accessories:

GA01598AA	ADD: POLE MOUNTING KIT	\$150.00
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Note: Fits poles 2-2.75"

SLR 1000 REPEATER ACCESSORIES

MODEL NUMBER	DESCRIPTION	MSRP
Duplexers:		
HKFE4000A	UHF Duplexer (RoHS) 410-430MHz (5MHz separation RX or TX)	\$900.00
HKFE4001A	UHF Duplexer (RoHS) 430-480MHz (5MHz separation RX or TX)	\$900.00
HKFE4002A	UHF Duplexer (RoHS) 480-527MHz (5MHz separation RX or TX)	\$900.00

Antennas and Switch:

HKAE4003A	SLR 1000 External Repeater Mounted Antenna (400-460MHz)	\$133.00
HKAE4004A	SLR 1000 External Repeater Mounted Antenna (440-495MHz)	\$133.00
HKAE4005A	SLR 1000 External Repeater Mounted Antenna (490-530MHz)	\$133.00
PMLN7263A	SLR 1000 Antenna Switch for Extended Range Direct Mode Operation	\$300.00

Power Accessories:

PMLN7773A	SLR 1000 AC POWER ADAPTOR FOR INDOOR APPLICATION (INCLUDES BRACKET, REQUIRES AC LINE CORD)	\$200.00
3087791G01	POWER CORD, US PLUG	\$20.00
PMLN7771A	SLR 1000 AC POWER ADAPTOR FOR OUTDOOR APPLICATION (HARD WIRE)	\$400.00

Mounting Accessories:

PMLN7213A	SLR 1000 Pole Mount Adaptor Kit (Fits poles 2-2.75")	\$150.00
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Premium System Software: SAME SOFTWARE LICENSES AS SLR 5700

Premium Software Features included in Essential SW & Repair Services	SLR 1000
Enhanced GPS	5 Years
Digital Voting	5 Years
Dynamic Mixed Mode	5 Years
IP Repeater Programming	5 Years

Prices effective 9/30/19

HKLN4427	Capacity Plus Single Site Digital Trunking	\$1,925.00
HKVN4089	Linked Capacity Plus Upgrade from Capacity Plus -	\$3,850.00
HKVN4099	Linked Capacity Plus New System Deployment -	\$5,773.00
HKVN4324	Capacity Max Repeater License	\$6,927.00
HKVN4242	Digital Voting Operation	\$1,444.00
HKLN4442	RDAC Multiple System Monitoring Upgrade License	\$250.00
HKLN4456	Dynamic Mixed Mode Upgrade License (Analog & Digital Automatic Call Switching)	\$288.00
HKVN4048**	Enhanced Scheduled GPS License	\$866.00
HKVN4177*	Restricted Access to System Security	\$0.00
HKVN4047	IP Repeater Programming and Upgrade License	\$289.00
Activate in the MOTOTRBO CPS 6.0 or later. Once activated, the CPS can connect to an unlimited number of repeaters, one at a time.		
HKVN4049**	Digital Telephone Interconnect Upgrade	\$674.00
HKVN4205*	Data Network Application Interface (IP Wireline Data Gateway)	\$866.00
HKVN4206*	Voice Network Application Interface (IP Wireline Voice Gateway) for use with AVTEC SCOUT and WAVE	\$289.00
HKVN4488	Extended Range Direct Mode Operation	\$462.00

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the voice Repeater that is connected to the phone patch box and Digital Voting Only in the Voting Repeater).

Service, Programming Accessories and Cables: (SAME CPS/PROGRAMMING CABLE AS SLR 5700 - NEW TEST CABLE ADAPTER)

	For MOTOTRBO CPS/RM model/pricing please click the link below: https://docs.google.com/spreadsheets/d/1fxphrmVGAsO90UhN-ljto5_HfuaYAcxPkAaVXFntGt4/edit#gid=0	
CB000174A02	SLR 1000 STATION ACCY TEST CABLE ADAPTER	CALL
PMKN4166	Test Cable (for test box and external speaker. Requires CB000174A02 adapter for SLR 1000)	CALL
30009477001	Repeater Programming Cable (USB A TO USB B)	CALL
PMLN7265AS	SLR 1000 Miscellaneous Hardware Kit (Spare plugs and seals)	CALL

General Accessories:

MN003557A01	MOTOTRBO SLR 1000 Repeater Basic Service and Installation Manual (PDF ONLY) - NAG	N/C
MN003581A01	MOTOTRBO SLR 1000 Series Quick Start Guide (PDF ONLY) - NAG	N/C

US VERSION

MTR2000 MOTOTRBO™ UPGRADE VHF & UHF, 800/900 MHz GENERAL INFORMATION

Please note: The MTR2000 MOTOTRBO Upgrade has been discontinued and is no longer available for purchase. The below software and accessory sections for this Upgrade kit will be retained for reference purposes.

MSRP

Software:

For MOTOTRBO CPS/RM model/pricing please click the link below:

https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90UhN-ljto5_HfuaYAcxPkAaVXFntGt4/edit#gid=0

DDN9957	HI-SPEED USB CABLE 6FT (TYPE A -B)	\$20.00
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Premium System Software:

Use the part numbers below to purchase Premium Software feature Entitlement ID's (EID) for the MTR2000 upgraded repeaters. You will receive the EID via an e-mail. Use the MOTOTRBO CPS/RM to register the serial number and activate the specific feature in the firmware of the desired unit. Internet connection is required during the registration, but the activation can be done offline.

Prices effective 9/30/19

HKVN4044**	Dynamic Mixed Mode Software Upgrade	\$289.00
HKLN4439*	Capacity Plus Repeater License	\$1,925.00
HKVN4110*	Linked Capacity Plus New System Deployment	\$5,773.00
HKVN4112*	Linked Capacity Plus Upgrade from Capacity Plus	\$3,850.00
HKVN4055**	Enhanced GPS	\$866.00
HKVN4178*	Restricted Access to System Security	\$0.00

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the voice Repeater that is connected to the phone patch box).

Peripherals:	Existing peripherals that are being utilized for the MTR2000 can retrofit the MTR3000 once it is upgraded. There is no need to purchase a new Duplexer, Preselector or Circulator or Antenna Relay.
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Kit & Accessories:	MTR3000 Field Replaceable Units (FRUs)
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All Field Replacement Units (FRUs) are available through Customer Care and Service Division (RPSD) 1-800-927-2744.

FRU MTR3000:

DLN6703	FRU UHF 403-470 MHz, EXCITER	\$1,500.00
DLN6705	FRU UHF 403-470 MHz, RECEIVER	\$1,500.00
DLN6707	FRU: MTR3000 AC/DC POWER SUPPLY	\$1,000.00
DLN6715	FRU 800/900 MHZ EXCITER	\$1,500.00
DLN6716	FRU 800/900 MHZ RECEIVER	\$1,500.00
DLN6712	FRU VHF 136-174 EXCITER	\$1,500.00
DLN6713	FRU VHF 136-174 RECEIVER	\$1,500.00
DLN6720	FRU: 4 WIRELINE BOARD	\$450.00
DLN6721	FRU: BACKPLANE	\$67.00

CONTROL/WIRELINE/MISCELLANEOUS FRU MTR3000s:

DLN6719	FRU STATION CONTROL TCXO FOR VHF AND UHF	\$1,300.00
DLN6718	FRU STATION CONTROL OCXO FOR 800/900 MHz	\$1,600.00

MICROPHONES/SPEAKERS/TEST CABLE:

HSN1006	EXTERNAL SPEAKER	\$104.00
0185180U01	CABLE FOR EXTERNAL SPEAKER	\$18.25
GMMN4063*	SERVICE MIC	\$72.00
*The Upgraded MTR2000 requires the use of the GMMN4063 service microphone		
30009493001	RECEIVER AUDIO TEST CABLE	\$65.25

CABINETS/RACKS & HARDWARE

CLN6679	RACK MOUNT HARDWARE	\$50.00
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US VERSION

SLR 5700 REPEATERS 12.5 kHz

Each SLR 5700 Includes:

- 120V AC Power Cord
- 5 Year Essential Repair and Software
- Quick Start Guide

Features:

- 1-50W transmit power
- Integrated 3A battery charger
- Supports Two Simultaneous Voice Paths in Digital TDMA Mode
- Operates in Analog or Digital Mode
- Supports all MOTOTRBO system architectures
- Remote Diagnostics Alarms and Controls (RDAC)
- 100% Continuous Duty Cycle
- Internal Power Supply
- Rack Mountable
- Wall-mount Kits Sold Separately
- Automated Battery Back-up (Battery sold seperately)
- IP Site Connect (Digital Mode Only)



Frequencies Not Allowed for SLR 5700:

N/A - there are no self quieting frequencies on the SLR5700 models

Frequencies Not Allowed for SLR 5700:

N/A - there are no self quieting frequencies on the SLR5700 models

*Please also see the list of available Premium Software feature options below which must be purchased in addition to the repeater.

Prices effective 9/30/19

BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL	MSRP
136-174 MHz	VHF	1-50W	1	AAR10JCGANQ1AN	\$3,579.00
403-470 MHz	UHF	1-50W	1	AAR10QCGANQ1AN	\$3,694.00
450-512 MHz	UHF2	1-50W	1	AAR10TCGANQ1AN	\$3,694.00

FCC INFORMATION: UHF: ABZ99FT4096, VHF: ABZ99FT3094, UHF2: ABZ99FT4097

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<https://learning.motorolasolutions.com/>

US VERSION

SLR 5700 REPEATER ACCESSORIES

0.00

MODEL NUMBER	DESCRIPTION	MSRP
Premium System Software:		

Use the part numbers below to purchase Premium Software feature Entitlement ID's (EID) for the SLR 5700 repeaters. You will receive the EID via an e-mail. Use the MOTOTRBO CPS/RM to register the serial number and activate the specific feature in the firmware of the desired unit. Internet connection is required during the registration, but the activation can be done offline. Premium system software part numbers for the SLR 5700 are the same as the XPR8400 series.

Premium Software Features included in Essential SW & Repair Services (NEW PURCHASES)	SLR 5700
Enhanced GPS	5 Years

Digital Voting	5 Years
Dynamic Mixed Mode	5 Years
IP Repeater Programming	5 Years

Prices effective 9/30/19

HKLN4427*	Capacity Plus Single Site Digital Trunking	\$1,925.00
HKVN4089*	Linked Capacity Plus Upgrade from Capacity Plus -	\$3,850.00
HKVN4099*	Linked Capacity Plus New System Deployment -	\$5,773.00
HKVN4324*	Capacity Max Repeater License	\$6,927.00
HKVN4242**	Digital Voting Operation	\$1,444.00
HKLN4442	RDAC Multiple System Monitoring Upgrade License	\$250.00
HKLN4456	Dynamic Mixed Mode Upgrade License (Analog & Digital Automatic Call Switching)	\$289.00
HKVN4048**	Enhanced Scheduled GPS License	\$866.00
HKVN4177*	Restricted Access to System Security	\$0.00
HKVN4047	IP Repeater Programming and Upgrade License Activate in the MOTOTRBO CPS 6.0 or later. Once activated,CPS can connect to an unlimited number of repeaters, one at a time.	\$289.00
HKVN4049**	Digital Telephone Interconnect Upgrade	\$674.00
HKVN4205*	Data Network Application Interface (IP Wireline Data Gateway)	\$866.00
HKVN4206*	Voice Network Application Interface (IP Wireline Voice Gateway) for use with AVTEC SCOUT and WAVE	\$289.00
HKVN4488	Extended Range Direct Mode Operation NEW R2.7.1!!	\$462.00

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the voice Repeater that is connected to the phone patch box and Digital Voting Only in the Voting Repeater).

Crescent Power Amplifiers: *** Available to order via MOL only *** Frequency is required at time of order		
DSP1020MOVC5	P10 SERIES Amplifier, 136-174MHZ, 20-50W Input, 100W Output, 23A Current Draw Replacement for RDD5565A, RDD5563A, RDD5548A, RDD5564A. Requires DSRM50M or DSRM60M Power Supply	\$1,670.00
DSP1020MOUC5	P10 SERIES Amplifier, 406-512MHZ, 20-50W Input, 100W Output, 23A Current Draw Replacement for RDE6067A, RDE6068A, RDE6069A, RDE6106A, RDE6105A. Requires DSRM50M or DSRM60M Power Supply	\$1,759.00
DSRM60M	RM60M Astron Power Supply, 13.8VDC, 50A Continuous, 55A ICS	\$702.00
DSRM50M	RM50M Astron Power Supply, 13.8VDC, 37A Continuous, 50A ICS	\$516.00
CDQRDN9900	DPS-30 Duracomm, Filtered Power Supply, 13.8VDC, 30A Max	\$314.00
DSP1020MOUPS	P10 SERIES, C5 Amplifier, 406-512MHZ, 20-50W Input, 100W Ooutput, 13.8DC / 110AC Includes an integrated 110V AC Power Supply; Frequency is required at time of order	\$2,458.00

Duplexers - All duplexers have female type "N" connectors.

<u>Untuned Duplexers (for use with standard repeater) - Requires Tuning in the Field</u>		
HFD8188	VHF Duplexer, 144-155 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$722.00
HFD8189	VHF Duplexer, 155-162 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
HFD8190	VHF Duplexer, 162-174 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
DSCP10725UNTUNED	UHF Duplexer - Untuned 406-500 MHz (N-female 4-8 MHz spacing) Pre-tuned 460 MHz (Low) and 465 MHz (High) Tuning instructions are included in the shipment and must be followed in order to keep the warranty in place	\$368.00
HFE8400	UHF Duplexer, 406-450 MHz (minimum & maximum freq. separation 5 MHz)	\$571.00
HFE8401	UHF Duplexer, 470-495 MHz (minimum & maximum freq. separation 3 MHz)	\$599.00
HFE8454	UHF Duplexer, 490-527 MHz (minimum & maximum freq. separation 3 MHz)	\$498.00
<u>Untuned Duplexers (for use with 100 Watt power amplifiers) - Requires Tuning in the Field</u>		
9175300H01	VHF Duplexer (RoHS) 132-146MHz (5MHz separation RX or TX)	\$1,518.00
9175300H02	VHF Duplexer (RoHS) 144-160MHz (5MHz separation RX or TX)	\$1,556.50
9175300H03	VHF Duplexer (RoHS) 158-174MHz (5MHz separation RX or TX)	\$1,518.00
9175300H05	UHF Duplexer (RoHS) 403-435MHz (5MHz separation RX or TX)	\$2,387.00

9175300H06	UHF Duplexer (RoHS) 435-470MHz (5MHz separation RX or TX)	\$1,556.50
9175300H07	UHF Duplexer (RoHS) 470-494MHz (5MHz separation RX or TX)	\$1,518.00
9175300H08	UHF Duplexer (RoHS) 494-512MHz (5MHz separation RX or TX)	\$1,518.00

Tuned Duplexers (for use with standard repeater) - Must Specify Frequency for Tuning

HFD8465	VHF Duplexer, 150-160 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
DSCP10725TUNED	UHF Duplexer - Tuned 406-500 MHz (N-female 4-8 MHz spacing)	\$391.00

Duplexer Cables - An N-Type Male to N-Type Male and N-Type Male to BNC Male cables are needed to connect the XPR8300 to a Duplexer

0112004B04	N - Type Male to N - Type Male 24" (to connect repeater to external duplexer or preselector)	\$124.63
0112004U04	N - Type Male to BNC Male 24" (to connect repeater to external duplexer or preselector)	\$79.20
3082081X01	Right angle N-Type Male to straight N-Type Male 30" (to connect 100W PA to external duplexer/preselector)	\$53.35

Antennas- Contact Dealer Support Services for antennas

Mounting Accessories:

PMLE5031	Wall Mount Bracket Kit	\$216.73
PMLE4548	Rack Mount Duplexer/Filter Enclosure Kit (includes mounting screws)	\$320.00

Preselectors:

HFD8461	VHF Preselector, 144-160 MHz	\$336.00
HFD8462	VHF Preselector, 160-174 MHz	\$336.00
HFE8459	UHF Preselector, 440-474 MHz	\$1,667.67

To order Preselectors TUNED, place your order through Customer Care Services at 800-422-4210.

To order Preselectors UN-TUNED, order directly through Customer Care Services. Preselectors must be mounted externally when using an XPR™ 8300 Repeater.

All preselectors have female type "N" connector. A type "N" male to male connector is required for proper operation (0112004B04 or 0112004U04). The length of the cable depends on your application. Call Customer Care Services to find a cable for your individual application or for additional preselector options.

US VERSION

SLR 5700 REPEATER ACCESSORIES

0.00

MODEL NUMBER	DESCRIPTION	MSRP
Lightning Protection Recommendation Accessories:		
DSISB50LNC2	RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NF ANT, NF EQUIP	\$84.00

Coaxial Cable In-Line Arrestors:

RRX4032	Tower Mounting Hardware for Lightning Arrestor	\$15.00
DSISB50LNC2MA	RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP	\$84.00

Service, Programming Accessories and Cables:

	For MOTOTRBO CPS/RM model/pricing please click the link below: https://docs.google.com/spreadsheets/d/1fxphrmVGAso90Uhn-ljto5_HfuaYAcxPkAaVXFNtGt4/edit#gid=0	
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30009477001	Repeater Programming Cable (USB A TO USB B)	Call for Pricing
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Service, Programming Accessories and Cables (continued):

PMKN4166	Test Cable (for test box and external speaker)	Call for Pricing
RLN4460	Test Box for Portables and Mobiles	Call for Pricing
HSN1006	External Speaker	Call for Pricing
GMMN4063	Service Mic	Call for Pricing
PMKN4167	Battery Back-up Cable	Call for Pricing

Network Devices:

DSJG411	HP MSR2003 AC ROUTER	\$767.00
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DSHPJ9782A	HP Procurve 2530-24 Ethernet Switch (Available to order via MOL only)	\$356.00
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General Accessories:

MN001436A01	MOTOTRBO SLR Repeater Basic Service and Installation Manual (PDF ONLY)	N/C
MN001443A01	MOTOTRBO SLR 5000 Series Quick Start Guide (PDF ONLY)	N/C
6880309T12	MOTOTRBO System Planner	\$30.00
3087791G01	120V AC Line Cord	\$20.00

Infrastructure Repair:

Infrastructure Repair service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors when applicable. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's Infrastructure Depot Operations (IDO). Upon completion, the repaired unit will be shipped via normal shipping methods. Motorola will pay for outbound shipping via Motorola's normal shipping methods. For more information, contact your Motorola representative or your Motorola Customer Support Manager.

Infrastructure Repair

<http://ecat.comm.mot.com/ecat/pricebooks/dup/infrep2.htm>

Infrastructure Repair with Advanced Replacement:

Infrastructure Repair with Advanced Replacement service covers all Motorola-manufactured equipment, as well as equipment from select third-party infrastructure vendors when applicable. Factory trained and certified technicians troubleshoot, analyze, test, and repair your equipment at Motorola's Infrastructure Depot Operations (IDO). When available, Motorola will provide Customer with an Advanced Replacement unit(s) or FRU(s) in exchange for Customer's malfunctioning FRU(s). Non-standard configurations, Customer-modified Infrastructure and certain third party Infrastructure are excluded from Advanced Replacement service. Malfunctioning FRU (s) will be evaluated and repaired by IDO and returned to IDO FRU inventory upon completion of repair. Motorola will pay the inbound shipping charges only with use of the Motorola's designated delivery service. Motorola will also pay for outbound shipping via Motorola's normal shipping methods.

Infrastructure Repair with Advanced Replacement

<http://ecat.comm.mot.com/ecat/pricebooks/dup/infrep.htm>

US VERSION

XPR™8380/8400 REPEATERS

Please note: The XPR Repeaters have been discontinued and are no longer available for purchase. The below accessory section for these repeaters will be retained for reference purposes.

XPR™8380/8400 REPEATER ACCESSORIES

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
Premium System Software:		
Use the part numbers below to purchase Premium Software feature Entitlement ID's (EID) for the XPR8380 and XPR8400 repeaters. You will receive the EID via an e-mail. Use the MOTOTRBO CPS/RM to register the serial number and activate the specific feature in the firmware of the desired unit. Internet connection is required during the registration, but the activation can be done offline.		
HKLN4427*	Capacity Plus Single Site Digital Trunking Note: Use this part number to purchase Entitlement ID's (EID) to Register and Activate the Capacity Plus trunking in XPR 8300 and XPR 8400 repeaters. You will receive the EID via an e-mail. Register the Serial Numbers of the units, to be upgraded, and Activate the trunking via the RVN5115 MOTOTRBO CPS. Internet connection is required during the registration, but the activation can be done offline.	\$1,917.00
		effective 9/30/19
HKVN4089*	Linked Capacity Plus Upgrade from Capacity Plus - Requires a 32MB repeater + XPR8380 Or XPR8400	\$3,850.00
HKVN4099*	Linked Capacity Plus New System Deployment - Requires a 32MB repeater + XPR8380 Or XPR8400	\$5,773.00
HKVN4324*	Capacity Max Repeater License	\$6,927.00
HKVN4242**	Digital Voting Operation	\$1,444.00
HKLN4442	RDAC Multiple System Monitoring Upgrade License	\$250.00
HKLN4456	Dynamic Mixed Mode Upgrade License (Analog & Digital Automatic Call Switching)	\$289.00
HKVN4048**	Enhanced Scheduled GPS License	\$866.00
HKVN4177*	Restricted Access to System Security	\$0.00
HKVN4047	IP Repeater Programming and Upgrade License Activate in the MOTOTRBO CPS 6.0 or later. Once activated, the CPS can connect to an unlimited number of repeaters, one at a	\$289.00
HKVN4049**	Digital Telephone Interconnect Upgrade	\$674.00
HKVN4205*	Data Network Application Interface (IP Wireline Data Gateway)	\$866.00
HKVN4206*	Voice Network Application Interface (IP Wireline Voice Gateway) for use with AVTEC SCOUT and WAVE	\$289.00

* These System level options must be used to enable the corresponding feature in All Repeaters in the Radio system: both voice and data revert.

** These software options are to be enabled only in the Repeaters that will support the specific feature (e.g. Enhanced GPS in the Data Revert Repeaters and Telephone Interconnect in the Voice Repeater that is connected to the phone patch box and Digital Voting Only in the voting Repeater).

Crescent Power Amplifiers: * Available to order via MOL only *** Frequency is required at time of order**

DSP1020MOVC5	P10 SERIES Amplifier, 136-174MHZ, 20-50W Input, 100W Output, 23A Current Draw Replacement for RDD5565A, RDD5563A, RDD5548A, RDD5564A. Requires DSRM50M or DSRM60M Power Supply	\$1,670.00
DSP1020MOUC5	P10 SERIES Amplifier, 406-512MHZ, 20-50W Input, 100W Output, 23A Current Draw Replacement for RDE6067A, RDE6068A, RDE6069A, RDE6106A, RDE6105A. Requires DSRM50M or DSRM60M Power Supply	\$1,759.00
DSP1515MOJKC6	P15 SERIES Amplifier, 764-870 MHZ, 15-25W Input, 150W Output, 42A Current Draw Replacement for DSP1510K1C1001. Requires R1684 Power Supply. Can be tuned to 100W Output at time of order entry	\$2,678.00
DSP1520MOJKC6	P15 SERIES Amplifier, 764-870 MHZ, 20-50W Input, 150W Output, 42A Current Draw Replacement for DSP1520K1C1001. Requires R1684 Power Supply. Can be tuned to 100W Output at time of order entry	\$2,678.00
DSP1515MOLC6	P15 SERIES Amplifier, 928-942MHz, 15-25W Input, 150W Output, 42A Current Draw Replacement for DSP1510L1C1001. Requires R1684 Power Supply. Can be tuned to 100W Output at time of order entry	\$2,678.00
DSP1520MOLC6	P15 SERIES Amplifier, 928-942MHz, 20-50W Input, 150W Output, 42A Current Draw Replacement for DSP1520L1C1001. Requires R1684 Power Supply. Can be tuned to 100W Output at time of order entry	\$2,678.00
DSRM60M	RM60M Astron Power Supply, 13.8VDC, 50A Continuous, 55A ICS	\$702.00
DSRM50M	RM50M Astron Power Supply, 13.8VDC, 37A Continuous, 50A ICS	\$516.00
CDQRDN9900	DPS-30 Duracomm, Filtered Power Supply, 13.8VDC, 30A Max	\$314.00
DSP1020MOVPS	P10 SERIES, C5 Amplifier, 136-174MHZ, 20-50W Input, 100W Output, 13.8DC / 110 AC Includes an integrated 110V AC Power Supply; Frequency is required at time of order	\$2,228.00
DSP1020MOUPS	P10 SERIES, C5 Amplifier, 406-512MHZ, 20-50W Input, 100W Ooutput, 13.8DC / 110AC Includes an integrated 110V AC Power Supply; Frequency is required at time of order	\$2,458.00
DSP820MOJKPS	P8 SERIES, C5 Amplifier, 764-870MHZ, 20-50W Input, 80W Output, 13.8DC / 110AC Includes an integrated 110V AC Power Supply	\$2,637.00
DSP820MOLPS	P8 SERIES, C5 Amplifier, 928-942MHZ, 20-50W Input, 75W Output, 13.8DC / 110AC Includes an integrated 110V AC Power Supply	\$2,637.00

US VERSION

**XPR™ 8380/8400 REPEATER
ACCESSORIES**

RESELLER PRICES

MODEL NUMBER	DESCRIPTION	MSRP
Duplexers - All duplexers have female type "N" connectors.		
<u>Untuned Duplexers (for use with standard repeater) - Requires Tuning in the Field</u>		
HFD8188	VHF Duplexer, 144-155 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$722.00
HFD8189	VHF Duplexer, 155-162 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
HFD8190	VHF Duplexer, 162-174 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
DSCP10725UNTUNED	UHF Duplexer - Untuned 406-500 MHz (N-female 4-8 MHz spacing) Pre-tuned 460 MHz (Low) and 465 MHz (High) Tuning instructions are included in the shipment and must be followed in order to keep the warranty in place	\$368.00
HFE8400	UHF Duplexer, 406-450 MHz (minimum & maximum freq. separation 5 MHz)	\$571.00
HFE8401	UHF Duplexer, 470-495 MHz (minimum & maximum freq. separation 3 MHz)	\$599.00
HFE8454	UHF Duplexer, 490-527 MHz (minimum & maximum freq. separation 3 MHz)	\$498.00

Untuned Duplexers (for use with 100 Watt power amplifiers) - Requires Tuning in the Field

9175300H01	VHF Duplexer (RoHS) 132-146MHz (5MHz separation RX or TX)	\$1,518.00
9175300H02	VHF Duplexer (RoHS) 144-160MHz (5MHz separation RX or TX)	\$1,556.50
9175300H03	VHF Duplexer (RoHS) 158-174MHz (5MHz separation RX or TX)	\$1,518.00
9175300H05	UHF Duplexer (RoHS) 403-435MHz (5MHz separation RX or TX)	\$2,387.00
9175300H06	UHF Duplexer (RoHS) 435-470MHz (5MHz separation RX or TX)	\$1,556.50
9175300H07	UHF Duplexer (RoHS) 470-494MHz (5MHz separation RX or TX)	\$1,518.00
9175300H08	UHF Duplexer (RoHS) 494-512MHz (5MHz separation RX or TX)	\$1,518.00

Tuned Duplexers (for use with standard repeater) - Must Specify Frequency for Tuning

HFD8465	VHF Duplexer, 150-160 MHz (minimum & maximum freq. separation 4.5 MHz/6 MHz)	\$611.00
DSCP10725TUNED	UHF Duplexer - Tuned 406-500 MHz (N-female 4-8 MHz spacing)	\$391.00
0112004B04	N - Type Male to N - Type Male 24" (to connect repeater to external duplexer or preselector)	\$124.63
0112004U04	N - Type Male to BNC Male 24" (to connect repeater to external duplexer or preselector)	\$79.20
3082081X01	Right angle N-Type Male to straight N-Type Male 30" (to connect 100W PA to external duplexer/preselector)	\$53.35

Antennas- Contact Dealer Support Services for antennas

Mounting Accessories:

PMLE4476	Wall Mount Kit (includes wall mount bracket and screws)	\$115.00
PMLE4548	Rack Mount Duplexer/Filter Enclosure Kit (includes mounting screws)	\$320.00

Preselectors:

HFD8461	VHF Preselector, 144-160 MHz	\$336.00
HFD8462	VHF Preselector, 160-174 MHz	\$336.00
HFE8459	UHF Preselector, 440-474 MHz	\$1,666.67

To order Preselectors TUNED, place your order through Customer Care Services at 800-422-4210.

To order Preselectors UN-TUNED, order directly through Customer Care Services. Preselectors must be mounted externally when using an XPR™ 8300 Repeater.

All preselectors have female type "N" connector. A type "N" male to male connector is required for proper operation (0112004B04 or 0112004U04). The length of the cable depends on your application. Call Customer Care Services to find a cable for your individual application or for additional preselector options.

Lightning Protection Recommendation Accessories:

DSISB50LNC2	RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NF ANT, NF EQUIP	\$84.00
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Coaxial Cable In-Line Arrestors:

RRX4032	Tower Mounting Hardware for Lightning Arrestor	\$15.00
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DSISB50LNC2MA

RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP

\$84.00

Service, Programming Accessories and Cables:

	For MOTOTRBO CPS/RM model/pricing please click the link below: https://docs.google.com/spreadsheets/d/1fXphrmVGAsO90UhN-ljto5_HfuaYAcxPkAaVXFntGt4/edit#gid=0	
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PMKN4010

US VERSION

Mobile and Repeater Rear Programming Cable

Call for Pricing

RESELLER PRICES

ACCESSORIES

MODEL NUMBER	DESCRIPTION	MSRP
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Service, Programming Accessories and Cables (continued):

PMKN4016	Mobile and Repeater Rear Programming, Test and Alignment Cable	Call for Pricing
RKN4152	Battery Back-up Cable	Call for Pricing
PMLN5270	MOTOTRBO Connector Board Service Kit	Call for Pricing

Network Devices:

DSJG411	HP MSR2003 AC ROUTER	\$767.00
DSHPJ9782A	HP Procurve 2530-24 Ethernet Switch (Available to order via MOL only)	\$356.00

General Accessories:

6816814H01	MOTOTRBO Repeater Installation Guide	\$22.00
6816810H01	MOTOTRBO Repeater Basic Service Manual	\$33.00
6816811H01	MOTOTRBO Repeater Detailed Service Manual	\$55.00
6880309T12	MOTOTRBO System Planner	\$33.00
3087791G01	120V AC Line Cord	\$22.00

US VERSION

CAPACITY MAX SYSTEM SERVER (CMSS) FOR MOTOTRBO™ CAPACITY MAX DIGITAL TRUNKING SYSTEMS VHF/UHF/800/900 MHz

The CMSS Includes:

- 2 120 VAC Power Cables
- 1 CPU License Key
- 19" Rack Mounting Kit
- Velcro Strap Kit

Please refer to the MOTOTRBO Capacity Max System Planner for more details on system configurations and trunking features.

General Information:

The CMSS is the heart of our next generation Digital Trunking solution, Capacity Max. The CMSS is a single system-level server that contains three system-level functions, the Trunking Controller, System Advisor Server and MNIS Voice/Radio Command (VRC) Gateway.



MOTOTRBO Capacity Max is the next generation professional digital trunking communications solution that provides more performance, productivity and value for your business. Capacity Max supports up to 15 trunked repeaters for voice and data per site providing capacity for up to 3000 users/site. Additionally you can facilitate up to 6 additional dedicated data ("data revert") repeaters, supporting intensive text, GPS and data use. The architecture is very flexible, and allows for centralized or distributed equipment deployment as required, it's also easy to add more capacity and coverage.

- | | | | |
|----------------------------|---------------------------------------|-------------------|----------------------------|
| - Critical Site Assignment | - Radio & Talkgroup Site Restrictions | - Group Call | - Key Based Authentication |
| - Dynamic Site Assignment | - Enhanced Channel Access | - All Call | - Voice & Data Encryption |
| - Enhanced Registration | - Talkgroup Scan | - Emergency Call | - OTA Programming |
| - Enhanced Roaming | - Group Broadcast Call | - Emergency Alarm | - Advanced Late Entry |

NOTE:

- For Capacity Max to operate in the UHF and VHF bands it requires at least one YG FB8 or FCC Auction Exclusive use channel for control channel at each site. Please refer to FCC 90.187 for additional regulatory compliance
- The Capacity Max System Server, Model #: SQM01SUM0281A, is not available to order on MOL. Channel Partners must go through the Center of Excellence Engineering (CoEE) Team.

[Request Link](#)

- ST Support Services will be mandatory for all Capacity Max System purchases unless the Channel Partner has completed the Capacity Max training requirements. This will be verified by the CoEE Team. Classes can be accessed via the Learning Management Portal on MOL.

For questions, please contact: ats.support@motorolasolutions.com

Capacity Max System Server & Premium Software Features

Required

Prices effective 9/30/19

MODEL	DESCRIPTION	MSRP
SQM01SUM0281B	Capacity Max System Server	\$17,893.00
Required	This primary CMSS may also run a primary VRC Gateway and/or a primary System Advisor.	
Only one of the following is required:		
HKVN4313	MOTOTRBO Capacity Max Trunking Controller	\$20,204.00
System	The system supports one (1) primary Trunk Controller and up to four (4) additional Trunk Controllers for redundancy. (Note: A system with a Single Site Trunk Controller license only supports	
System	The system supports one (1) primary Trunk Controller and up to four (4) additional Trunk Controllers for redundancy. (Note: A system with a Single Site Trunk Controller license only supports	
Required for Multi-Site Systems:		
HKVN4314	MOTOTRBO Capacity Max Site License Required for multisite systems.	\$8,659.00
	Allows connection of an RF site to the system; needed for each additional RF site beyond the first site, which is included with the Trunk Controller License.	

Capacity Max System-level Licenses

Optional

All System-level licenses must be purchased for both primary and redundant CMSS's

Prices effective 9/30/19

MODEL	DESCRIPTION	MSRP
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HKVN4395	MOTOTRBO Capacity Max Single Site to Multi-Site Trunk Controller Expansion Each CMSS with a Single Site Trunk Controller will require its own expansion license (2 per system max).	\$11,545.00
HKVN4315	MOTOTRBO Capacity Max System Advisor License One (1) System Advisor license required for each CMSS running a System Advisor in the system.	\$6,927.00
HKVN4316	MOTOTRBO Capacity Max System Advisor NBI License License required for each CMSS running a System Advisor which has the NBI interface.	\$6,927.00
HKVN4317	MOTOTRBO Capacity Max VRC Gateway License Up to fifteen (15) primary MNIS VRC Gateways supported per system.	\$3,464.00
HKVN4318	MOTOTRBO Capacity Max VRC Gateway Single Talkpath License Up to 100 simultaneous external voice talkpaths supported per primary/alternate MNIS VRC Gateway and up to 1500 total simultaneous external voice talkpaths across all primary/alternate	\$1,444.00
HKVN4321	MOTOTRBO Capacity Max Data Gateway License Optional; Enables the connection of one (1) MNIS Data Gateway to the system; The MNIS Data Gateway provides the wireline data interface to Motorola and/or 3rd party data applications. Up to fifteen (15) primary MNIS Data Gateways supported per system. Up to fifteen (15) alternate MNIS Data Gateways supported per system for redundancy. One (1) license required for each primary MNIS Data Gateway in the system AND they are needed for each CMSS running a Trunk Controller (up to five (5)) in the system. No additional licenses needed for alternate MNIS Data Gateways. (15 MNIS Data Gateways x 5 Trunk Controllers = 75 max licenses per system.) <small>NOTE: MNIS Data Gateway licenses are controlled by the CMSS appliances with the Trunk Controller and are not needed for the primary or alternate MNIS Data Gateways themselves.</small>	\$5,773.00
HKVN4694	MOTOTRBO Capacity Max Site to Support Dynamic Group Number Assignment (DGNA) License Optional; Enables a console operator to add and remove a dynamic talk group to individual radios. One (1) license required for each site with a CMSS and Trunk Controller (TC). For example, if a customer has (2) CMSS's with TC enabled (1 primary, 1 redundant) at 10 Sites, you would need to purchase (20) DGNA licenses.	\$1,255.00

CMSS Field Upgrades

MODEL	DESCRIPTION	MSRP
T8734A	MOTOTRBO M2020.01 Capacity Max System Server SW Upgrade (MyView Portal) - E-mail address required	\$430.00
T8733A	MOTOTRBO M2020.01 Capacity Max System Server SW Upgrade (USB)	\$430.00
T8481A	MOTOTRBO 2.10.x Capacity Max System Server SW Upgrade (MyView Portal) - CMSS Serial Number (435 xxx xxxx) and E-mail address required	\$430.00
T8482A	MOTOTRBO 2.10.x Capacity Max System Server SW Upgrade (USB) - CMSS Serial Number (435 xxx xxxx) required	\$430.00
T8483A	MOTOTRBO Capacity Max System Server SW Update Launch Pad (MyView Portal) - E-mail address required	Updated and required for M2020.01 \$0.00
T8486A	MOTOTRBO Capacity Max System Server SW Update Launch Pad (DVD) Updated and required for M2020.01	\$0.00
T8480A	MOTOTRBO 2.9 Capacity Max System Server SW Upgrade (USB)	\$430.00
MOL Download	Configuration Guides	\$0.00
MOL Download	Configuration Guides	\$0.00

The Capacity Max Bridge(CMB) is now available. The existing connect plus system should be at a minimum of R1.8 and above to use the Migration Bridge . Learn more about CMB at:<http://www.motorolasolutions.com/capacitymaxbridge>
Refer to the XRT 9100 Tab for more information on Bridge configuration requirements.

PC Workstation & Network Accessories

Optional

Motorola recommends the networking equipment listed below. To aid in deployments, Motorola provides configuration files for these switches and routers.

MODEL	DESCRIPTION	MSRP
TT3492	HP Z2 G4 MINI WORKSTATION (Replaces Z440 Workstation) Optional; for Radio Management Server and/or MNIS Data Gateway(s). For Radio Management, the Z2 mini is recommended for smaller fleet sizes, i.e. 500-1000 units*	\$2,500.00
DSSUBDESKTOP	HP Z240 DESKTOP, 8 GB memory Optional; for Radio Management, this desktop is recommended for medium fleet sizes, i.e. 900-5,000 units*	\$1,845.00
DSSUBSERVER1	HPE DL360 Gen10, Intel® Xeon® 4110 processor, 16 GB memory Optional; for Radio Management, this server is recommended for large fleet sizes, i.e. 4000-10,000 units*	\$6,498.00
for additional details or contact your MOTOTRBO Product Specialist: Radio Management System Planner		
DSJG411	HP MSR2003 AC ROUTER	\$767.00
DSHPJ9782A	SWITCH HP PROCURVE 2530-24 SWITCH	\$356.00
DSJG739ASTD	ROUTER, HPE MSR 4P GIG-T SWITCH SIC MODULE	\$340.00
TDN1113	Ethernet Cable, 50'	\$45.00

Radios and Repeaters also require Capacity Max software licences, please reference those specific product pages for further information

Literature & Information (Available on Motorola Online and/or Partner Central):

Capacity Max Product Fact Sheet

Capacity Max Installation & Configuration Manual

Capacity Max System Advisor

Capacity Max System Planner

Configuration Files

Capacity Max System Operations, Troubleshooting & Maintenance Guide

Warranty:

5 Year Essential Repair and Software

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US VERSION

XRC 9100 Trunking Controller FOR MOTOTRBO™ CONNECT PLUS DIGITAL TRUNKING SYSTEMS VHF/UHF/800/900 MHz

NOTICE: The Connect Plus XRC 9100 has been discontinued and is no longer available for purchase. The below model, software and accessory sections for this solution will be retained for

The XRC 9100 Controller Includes:

- 120 VAC Power Cable
- 3 ft. Ethernet Cable
- Quick Start Guide
- 19" Rack Mounting Kit

Please refer to the MOTOTRBO Connect Plus System Planner for more details on system configurations and trunking features.

General Information:

The XRC 9100 is the central call processing equipment in MOTOTRBO™ Connect Plus digital trunking solutions. The XRC 9100 is a powerful multiprocessor computer designed to provide call processing and real-time resource management. The XRC 9100 controller is designed as an Internet Protocol (IP) device that can be configured for Connect Plus single site or multi-site trunking operation.

MOTOTRBO Connect Plus is the next generation professional digital trunking communications solution that provides more performance, productivity and value for your business. Connect Plus supports up to fifteen (15) repeaters per site, which provide twenty-nine (29) slots per site to be used as voice or data resources, and up to two hundred-fifty (250) sites when the XRC 9100 controller is ordered for multi-site operation. Connect Plus Trunking uses 2:1 TDMA technology with a control channel slot based architecture which provides the following key trunking features:

- PTT-ID
- User Priority Levels
- Emergency Call and Alert Operation
- Site Restrictions
- Dynamic Site Assignment
- Busy Queuing and Call Back
- Redundant Controller
- Network Wide All Call
- Site Registration
- Selective Call and Call Alert
- OTA Code Plug Transfer
- Automatic Roaming
- Group Scan across Radio Zones
- Rotating Control Slots

Note: For Connect Plus to operate in the UHF and VHF bands it requires at least one YG FB8 or FCC Auction Exclusive use channel for control channel @ each site.

Please refer to FCC 90.187 for additional regulatory compliance information.

Please refer to FCC 90.187 for additional regulatory compliance information.

XRC 9100 Controller Models & Premium Software Features:

MODEL	DESCRIPTION	MSRP*
TT2653	XRC 9100 Single Site Trunking Controller	\$48,078.00
TT2654	XRC 9100 Multi-Site Trunking Controller	\$57,693.00
HKVN4303	XRC 9100 Multi-Site Upgrade Package	\$9,615.00
HKVN4290	XRC Fast GPS Channel License	\$619.00
TT3718	XRC NID Change License - Requires e-mail address, Serial Number, and new NID required at time of order.	\$8,000.00

Ordering Requirements:

1. One XRC 9100 controller is required per trunking site.
2. If you are purchasing a new system, please include the text "0000" in the Network ID field.
3. If you are purchasing a system expansion, please provide the existing 4 digit (i.e. 0123) "NETWORK ID" when entering the order.
4. All XRC 9100 controllers interconnected for multi-site operation require to have the same NETWORK ID.
5. Existing NETWORK ID and XRC 9100 controller SERIAL NUMBER required when ordering XRC 9100 Multi-Site Upgrade Package (HKVN4303).
6. Uninterrupted Power Supply (UPS) backup required for continuous operation of XRC 9100 controller and networking equipment during power outages.
7. The XRC 9100 controller and other Connect Plus Trunking system equipment can be ordered as part of the Assembled Trunked System (ATS)

program for staging at Motorola CCSI (Customer Center for System Integration).

8. Racks / cabinet equipment is required for system staging at CCSI.

9. Please refer to the Connect Plus System Planner and your Motorola ACES team representative for pre-sale support and system design considerations.

10. A site ID needs to be provided for service during the warranty period. To generate one, please fill out the ""CSP short form"" and send it back to Motorola at CCOF129@email.mot.com . You will be asked to provide a PO if the proper entitlement is not provided. The form and the instructions are available in:

Motorola Online > Resource Center > Services > Warranty Information > Customer Support Plan (CSP) Short Form.

11. Enter one line item for each controller requiring an Upgrade.

12. When ordering an upgrade HKVN4294, please make sure to include the Connect Plus Network ID for the system, the Connect Plus Electronic Serial Number (TRxxxxxx) & e-mail in the appropriate fields for each controller in the order line item notes of the Connect Plus Upgrade Workbook found on MOL. The Serial Number is found via the Network Manager while connected to the specific controller. Not submitting the completed workbook to Motorola (as instructed in the workbook) will delay processing of the order. An e-mail containing the upgrade will be sent to the address entered in the order. Each upgrade is approximately 3M in size. If your e-mail account cannot manage this size file, a CD version of the upgrade will be mailed to you ONLY if HKVN4143 is ordered along with the XRC 9100 Field Upgrade Package.

Literature & Information (available on Motorola Online):

Connect Plus System Brochure

XRC 9100 Controller User and Installation Guide

Connect Plus Frequently Asked Questions

XRC 9100 Controller Specifications Sheet

Connect Plus System Planner

Warranty:

Two (2) Year Standard Warranty. Note: Motorola offers an "up-lift" to standard warranty, providing two business day replacement. This service can be purchased anytime during Motorola Standard Warranty (equipment failures prior to uplift purchases are excluded from the two business day cycle time). For more information contact your Motorola Dealer or Motorola Sales Account Manager.

XRC 9000 Field Upgrades

MODEL	DESCRIPTION	MSRP
TT2308	XRC 9000 Field Upgrade Package (R1.0A)	\$0.00
TT2391	XRC 9000 Field Upgrade Package (R1.1)	\$0.00
HKVN4165	XRC 9000 Field Upgrade Package (R1.2.3); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4221	XRC 9000 Field Upgrade Package (R1.3); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4228	XRC 9000 Field Upgrade Package (R1.4); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4262	XRC 9000 Field Upgrade Package (R1.5); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4294	XRC 9000 Field Upgrade Package (R1.6); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
MOL Download	XRC 9000 Field Upgrade (R1.7 and later) - MOL Resource Center >Software>Two-Way>MOTOTRBO>Connect Plus - Firmware ** It is mandatory to upgrade the MOTOTRBO™ XRC to release R1.6 before upgrading it to R1.7 (R2.6.0) or later releases.	\$0.00

Questions?

Contact Motorola at 1-800-422-4210.

The Capacity Max Bridge is now available, learn more at:

<http://www.motorolasolutions.com/capacitymaxbridge>

US VERSION

**XRC 9100 Trunking Controller
FOR MOTOTRBO™ CONNECT PLUS DIGITAL TRUNKING SYSTEMS
VHF/UHF/800/900 MHz**

SUGGESTED RETAIL

Connect Plus Digital Trunking System
Site Equipment

- The following equipment is included as a reference to help you build the Connect Plus sites. Final system configuration will be determined by the number of repeaters and specific site requirements.
- Proper site grounding and lightning protection are important considerations for safe and reliable operation of the Connect Plus trunking system. Refer to the Motorola Quality Standards Fixed Network Equipment Installation Manual R56 for more details.
- Please refer to the Connect Plus System Planner and your Motorola ACES team representative for pre-sale support and system design considerations.

NETWORKING EQUIPMENT:

MODEL	DESCRIPTION	MSRP
DSJG411	HP MSR2003 AC ROUTER	\$767.00
DSHPJ9782A	HP Procurve 2530-24 Ethernet Switch (Available to order via MOL only)	\$356.00
TDN1113	Ethernet Cable (50 ft).	\$45.00
23844-00-00R	Cord Set 18AWG SVT 3Cond 7.5FT	\$10.00

BACKUP POWER:

For XRC 9100 Controller and Networking Equipment

MODEL	DESCRIPTION	MSRP
DSSMART1000RM2U	Rack Mount Line Interactive Stand-By Power Supply (1kVA). Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R	\$720.00
DSGXTR0900N007	UPS, GXT RACKMOUNT 1000VA/900W, 7 MIN RUNTIME 120V SOFTWIRED (7 MIN RUNTIME @ FULL LOAD)	\$1,500.00
DSGXTR09001038	UPS, GXT RACKMOUNT 1000VA/900W, 38 MIN RUNTIME 120V SOFTWIRED (38 MIN RUNTIME @ FULL LOAD)	\$2,389.00
DS201193G1L	Rack Mount Rail Kit for 4-Post Racks. Use for DSGXTR0900N007 and DSGXTR09001038 UPS Units.	\$135.00
DS2POSTRMKITWM	Horizontal Rack Mount Kit for 2 –Post Installation. Use for DSSMART1000RM2U UPS.	\$105.00

NOTE: When ordering UPSs and determining the CRSD date, please keep in mind that the battery warranty is voided if batteries are not put in service or charged within 4 months of ship date.

SITE AC DISTRIBUTION AND AC SURGE PROTECTION:

MODEL	DESCRIPTION	MSRP
BLN6200B	AC Power Strip, 6 outlet (No Surge Protection)	\$94.00
DSOP820B	PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	\$966.00
DS1101378	RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNSOP820B	\$62.00
DS11013781	RACK MT ADAPTER PLATE, 19 IN SCH FOR DSOP820B, DSOP820B2 & DSNSOP820B	\$73.00

RACKS / CABINETS:

MODEL	DESCRIPTION	MSRP
DQ55053703	7 ft (84") 19" EIA (2 posts) 45 RU Open Frame Rack	\$238.00
DQ46353705	7.5 ft (90") 19" EIA (2 posts) 51 RU Open Frame Rack	\$650.00
DSTGT1133742	6.5 ft. Beige Cabinet (19" w x 78" h x 30"d) Square Punched Rails, Top and Side Panels, Vertical Rails. Leveling Feet,	\$4,075.00
DSTGT1033742	7 ft. Beige Cabinet (19" w x 84" h x 30" d) Square Punched Rails, Top and Side Panels, Vertical Rails. Leveling Feet,	\$4,315.00

REPEATER EQUIPMENT:

Please refer to the MOTOTRBO Fixed Equipment section for XPR 8300 / XPR 8380 / MTR 3000 repeaters and RF peripherals available for Connect Plus trunking operation.

US VERSION

XRT 9100 Connect Plus Gateway FOR MOTOTRBO™ CONNECT PLUS DIGITAL TRUNKING SYSTEMS VHF/UHF/800/900 MHz

NOTICE: The Connect Plus XRT 9100 has been discontinued and is no longer available for purchase. The below model, software and accessory sections for this solution will be

The XRT 9100 Gateway Includes:

- 120 VAC Power Cable
- 3 ft. Ethernet Cable
- Quick Start Guide
- 19" Rack Mounting Kit

Please refer to the MOTOTRBO Connect Plus System Planner for more details on system configurations and trunking features.

General Information:

XRT 9100 Gateway is designed to perform protocol translation for equipment and applications wishing to interact with the MOTOTRBO™ Connect Plus digital trunking system.

XRT 9100 is an Internet Protocol (IP) based device that allows connectivity from authorized clients that are part of the Motorola Solutions Application Development Partner (ADP) Program.

The XRT 9100 Application Protocol Interface (API) is a published document available to all Motorola Solutions Application Development Partners.

The total number of Talk Paths registered by all clients cannot exceed the number of registered talk paths IDs licensed for the XRT 9100 which is a maximum of 750 with the 1.6 Release. Please refer to the XRT 9100 Gateway User Guide for Talk Path definition.

The number of licensed Talk Paths determines how many Group and Private IDs can be registered by all clients, but not the maximum number of simultaneous calls.

The maximum number of simultaneous calls on a single XRT 9100 has increased from 30 to 100 with the 1.6 Release.

R1.2 supports Emergency Alert to console and Network Wide All Call from console.

XRT 9100 Gateway Models:

MODEL	DESCRIPTION	MSRP
TT2657	XRT 9100 Gateway (No Registered ID)	\$8,876.00
HKVN4305	XRT 9100 Connect Plus Talk Path 10-Pack (Used with TT2657 - now fulfilled via EID - 1.6 Release and above only).	\$4,328.00
HKVN4306	XRT 9100 Connect Plus Talk Path 100-Pack (Used with TT2657 - now fulfilled via EID - 1.6 Release and above only).	\$39,940.00
HKVN4578	CAPACITY MAX BRIDGE SERVICE LICENSE (E-mail required, see migration notes below in red).	\$0.00

Ordering Requirements:

1. The XRT 9100 Gateway is only required on Connect Plus systems needing Avtec Scout™ or Genesis GW3-TRBO® (this may also be required for future ADP applications on Connect Plus).
2. Uninterrupted Power Supply (UPS) backup required for continuous operation of XRT 9100 Gateway and networking equipment during power outages.
3. The XRT 9100 Gateway and other Connect Plus Trunking system equipment can be ordered as part of the Assembled Trunked System (ATS) program for staging at Motorola CCSI (Customer Center for System Integration).
4. Racks / cabinet equipment is required for system staging at CCSI.
5. Please refer to the Connect Plus System Planner and your Motorola ACES/COEE team representative for pre-sale support and system design considerations.

6. When ordering an upgrade, please make sure to include the Connect Plus Network ID for the system, the Connect Plus Electronic Serial Number (TRxxxxxx) & e-mail in the appropriate fields for each controller in the order line item notes of the Connect Plus Upgrade + Workbook found on MOL. The Serial Number is found via the Network Manager while connected to the specific controller. Not submitting the completed workbook to Motorola (as instructed in the workbook) will delay processing of the order. An e-mail, containing the upgrade, will be sent to the address entered in the order. Each upgrade is approximately 3M in size. If your e-mail account cannot manage this size file, a CD version of the upgrade will be mailed to you ONLY if HKVN4143 is ordered along with the XRC 9000 Field Upgrade Package.

XRT 9100 for Connect Plus to Capacity Max Migration

1. A dedicated XRT 9100 Gateway is required at the existing connect plus site to allow bridged connection between the Connect Plus sites and Capacity Max sites
2. The Capacity Max Bridge (CMB) is a subscription software license (EID) required at Capacity Max site to enable bridged connection between Capacity Max and Connect Plus sites
3. The Capacity Max Bridge (CMB) subscription software license is now available to order at NO CHARGE!!

LICENSE NUMBER	DESCRIPTION	MSRP
HKVN4578A	CAPACITY MAX BRIDGE SERVICE LICENSE	\$0.00

4. No Talkpath License is required on XRT 9100 for Connect Plus to Capacity Max Bridged Operation
5. The minimum Connect Plus system release to use the CMB is R 1.8 and above

US VERSION

Literature & Information (available on Motorola Online):

XRT 9100 Gateway User Guide
 Connect Plus System Planner

Warranty:

Two (2) Year Standard Warranty. Note: Motorola offers an “up-lift” to standard warranty, providing two business day replacement. This service can be purchased anytime during Motorola Standard Warranty (equipment failures prior to uplift purchases are excluded from the two business day cycle time). For more information contact your Motorola Dealer or Motorola Sales Account Manager.

Questions?

Contact Motorola at 1-800-422-4210.

XRT 9000 Field Upgrades

MODEL	DESCRIPTION	MSRP
HKVN4166	XRT 9000 Field Upgrade Package (R1.2.3); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4222	XRT 9000 Field Upgrade Package (R1.3); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4229	XRT 9000 Field Upgrade Package (R1.4); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4263	XRT 9000 Field Upgrade Package (R1.5); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4295	XRT 9000 Field Upgrade Package (R1.6); E-mail Only. Submission of the Upgrade Workbook is required. Workbook	\$0.00
HKVN4261	XRT 9100 10 Registered Talk Path IDs (License Bundle Only - Used with TT2657 - 1.5 Release only).	\$3,462.00
HKVN4264	XRT 9100 100 Registered Talk Path IDs (License Bundle Only - Used with TT2657 - 1.5 Release only).	\$31,952.00
MOL Download	XRT 9000 Field Upgrade (R1.7 and later) - MOL Resource Center >Software>Two-Way>MOTOTRBO>Connect Plus - Firmware ** It is mandatory to upgrade the MOTOTRBO™ XRT to release R1.6 before upgrading it to R1.7 (R2.6.0) or later releases.	\$0.00

For technical training of Motorola products, please visit:

<https://learning.motorolasolutions.com/>

US VERSION

XRI 9100 Telephone Interconnect Gateway FOR MOTOTRBO™ CONNECT PLUS DIGITAL TRUNKING SYSTEMS VHF/UHF/800/900 MHz

NOTICE: The Connect Plus XRI 9100 has been discontinued and is no longer available for purchase. The below model, software and accessory sections for this

The XRI 9100 Gateway Includes:

- 120 VAC Power Cable
- 19" Rack Mounting Kit
- 3 ft. Ethernet Cable
- Quick Start Guide

General Information:

XRI 9100 enables connectivity between a Connect Plus system and the telephone network.

XRI 9100 Telephone Interconnect Gateway supports up to sixteen (16) simultaneous telephone lines (PSTN/PBX).

XRI 9100 Telephone Interconnect Gateway supports Landline to Radio/Radio to Landline/Landline to Talkgroup operation.

XRI 9100 Telephone Interconnect Gateway supports Half Duplex operation.

XRI 9100 Telephone Interconnect Gateway is supported in Connect Plus Release R1.5 and above.

With the Connect Plus 1.7 Release, the XRI can now connect to two different types of SIP Gateways (one at a time):

- SIP to PSTN or PBX Gateway. At least one SIP gateway device is required to interface PSTN or PBX phone lines with the IP network.
(The Cisco SPA8800 is an approved and validated device).
- SIP Digital Telephony Gateway. Via the validated Cisco Unified Communications Manager, also known as Call Manager or CUCM.
Connection to SIP Digital Telephony Gateway requires the SIP-10 or SIP-20 feature license.

Please refer to the MOTOTRBO Connect Plus System Planner and XRI 9100 User Guide for more information.

US VERSION

XRI 9100 Gateway Models & Premium Software Features:

MODEL	DESCRIPTION	MSRP
TT2743A	XRI 9100 Telephone Interconnect Gateway - IP Address Required at time of order	\$81,000

HKVN4391	SIP-10 Telephony License - supports 10 simultaneous calls. E-mail address required.	\$1,300
HKVN4392	SIP-20 Telephony License - supports 20 simultaneous calls. E-mail address required.	\$2,470

Ordering Requirements:

1. One XRI 9100 Gateway is supported per Connect Plus system. Requires IP Address at time of order.
2. SIP gateway devices (Cisco SPA 8800) must be purchased separately. One SPA8800 support 4 telephone lines.
3. SIP Digital Telephony Gateway requires the SIP-10 or SIP-20 telephony license
4. A Key Manager File is required for both SIP Gateway types (including SPA8800); please contact Technical Support 800-927-2744 with the SIP Gateway IP Address(es) and they will open a case where a custom Key Manager File will be created for you.

Literature & Information (available on Motorola Online):

XRI 9100 User Guide
XRI 9100 Quick Reference Guide
XRI 9100 Specifications Sheet
Connect Plus System Planner

Warranty:

Two (2) Year Standard Warranty. Note: Motorola offers an “up-lift” to standard warranty, providing two business day replacement. This service can be purchased anytime during Motorola Standard Warranty (equipment failures prior to uplift purchases are excluded from the two business day cycle time). For more information contact your Motorola Dealer or Motorola Sales Account Manager.

XRI 9100 Field Upgrades

MODEL	DESCRIPTION	MSRP
MOL Download	XRI 9100 Field Upgrade (R1.7) - MOL Resource Center >Software>Two-Way>MOTOTRBO>Connect Plus - Firmware	\$0.00
HKVN4296	XRI 9100 Field Upgrade (R1.6)	\$0.00

Questions?

Contact Motorola at 1-800-422-4210.

For technical training of Motorola products, please visit:

<https://learning.motorolasolutions.com/>

	Vendor Part Number:	PART DESCRIPTION	VENDOR NAME
CDN1145A	F2PNF-C	3/8" TYPE N FEMALE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN1148A	F2PDR-C	F2PDR-C 3/8" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN6501	L4.5PNM-RC	L4.5PNM-RC 5/8" TYPE N MALE RINGFLARE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN6502	L4.5PNF-RC	L4.5PNF-RC 5/8" TYPE N FEMALE RINGFLARE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN6503	L4.5PDM-RC	L4.5PDM-RC 5/8" 7-16 DIN MALE RINGFLARE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN6504	L4.5PDF-RC	L4.5PDF-RC 5/8" 7-16 DIN FEMALE RINGFLARE CONNECTOR	COMMSCOPE TECHNOLOGI
CDN6518	42396A-9	42396A-9 5/8" STANDARD HANGER KIT	COMMSCOPE TECHNOLOGI
DDN1051	861-5M5M3-200	CES/CAB CABLE 200 FOOT	GRAYBAR ELECTRIC CO
DDN1054	7625M5M3-050	CES/CAB PLENUM CABLE 50 FOOT	GRAYBAR ELECTRIC CO
DDN1055	762-5M5M3-100	CES/CAB PLENUM CABLE 100 FOOT	GRAYBAR ELECTRIC CO
DDN1077	78EZDF-M	7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1078	78EZDM-M	78EZDM-M DIN MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1079	78EZNF-M	78EZNF-M N FEMALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1080	78EZNM-M	78EZNM-M N MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1082	158EZDF-M	158EZDF-M DIN FEMALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1083	158EZDM-M	158EZDM-M DIN MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI
DDN1088	L4TNM-PSA	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE	COMMSCOPE TECHNOLOGI
DDN1089	L4TNF-PSA	L4TNF-PSA TYPE N FEMALE PS FOR 1/2 IN CABLE	COMMSCOPE TECHNOLOGI
DDN1090	L4TDM-PSA	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE	COMMSCOPE TECHNOLOGI
DDN1091	L4TDF-PSA	L4TDF-PSA 7-16 DIN FEMALE PS FOR 1/2 IN CABLE	COMMSCOPE TECHNOLOGI
DDN1399	SHS2355-01	PLANTRONICS USB HEADSET BASE W/ PTT	GRAYBAR ELECTRIC CO
DDN1400	MX412/S	SHURE DESKTOP GOOSENECK MICROPHONE 12" NECK	GRAYBAR ELECTRIC CO
DDN1428	X2U	XLR TO USB ADAPTER SHURE	GRAYBAR ELECTRIC CO
DDN1429	A412B	ANGLED DESKTOP GOOSENECK BASE SHURE	GRAYBAR ELECTRIC CO
DDN1509	L4DR-PS	L4DR-PS 1/2 INCH 7-16 MALE RIGHT ANGLE CONN	COMMSCOPE TECHNOLOGI
DDN8176	DSMTPM800	N-FEMALE TERMINATION - MTPM800	PCTEL INC
DDN9383	AL7DF-PSA	AL7DF-PSA 1-5/8" 7-16 DIN FEMALE POSITIVE STOP CONNECTOR	COMMSCOPE TECHNOLOGI
DDN9502	AL7DM-PSA	AL7DM-PSA 1-5/8" 7-16 DIN MALE POSITIVE STOP CONNECTOR	COMMSCOPE TECHNOLOGI
DDN9503	AL7NF-PSA	AL7NF-PSA 1-5/8" TYPE N FEMALE POSITIVE STOP CONNECTOR	COMMSCOPE TECHNOLOGI
DDN9504	AL7NM-PSA	AL7NM-PSA 1-5/8" TYPE N MALE POSITIVE STOP CONNECTOR	COMMSCOPE TECHNOLOGI
DDN9509	245171	245171 WEATHERPROOFING KIT, 7/8" TO 1/2" CABLES	COMMSCOPE TECHNOLOGI
DDN9511	19256B	STANDARD HOISTING GRIP FOR 7/8" CABLE	COMMSCOPE TECHNOLOGI
DDN9682	F4PNMV2-HC	F4PNMV2-HC 1/2" TYPE N MALE PLATED CONNECTOR	COMMSCOPE TECHNOLOGI
DDN9743	TK-TW	TK-TW TORQUE WRENCH KIT FOR 7-16 DIN & TYPE N COUPLING NUTS	COMMSCOPE TECHNOLOGI
DDN9748	11231-719	19 INCH BLACK SHELF	GRAYBAR ELECTRIC CO
DDN9758	F2TNM-PL	F2TNM-PL 3/8" TYPE N MALE POSITIVE LOCK CONNECTOR FOR FSJ250 CABLE	COMMSCOPE TECHNOLOGI
DDN9769	F1TNM-HC	F1TNM-HC 1/4" TYPE N MALE CONNECTOR FOR FSJ1-50A CABLE	COMMSCOPE TECHNOLOGI
DDN9817	R8-TC	R8-TC TRANSIT CASE WITH FOAM MOLDING FOR R8000	FREEDOM COMMUNICATIO
DDN9818	R8-TSC	R8-TSC TRANSIT CASE WITH FOAM MOLDING FOR SOFT CASE	FREEDOM COMMUNICATIO
DDN9819	R8-HC	R8-HC PROTECTIVE GLOVE CASE WITH LCD PROTECTION	FREEDOM COMMUNICATIO
DDN9836	AC24009	DMM TEST LEADS / AC24009	AEROFLEX WICHITA INC
DDN9837	AC24011	10 AMP CURRENT SHUNT 0.01 OHM / AC24011 / R1794A	AEROFLEX WICHITA INC

DDN9840	AC25012	SOFT PADDED CARRYING CASE FOR AEROFLEX 3920 / AC25012	AEROFLEX WICHITA INC
DDN9841	AC25013	KIT, 10/20 DB PADS, TNC / AC25013	AEROFLEX WICHITA INC
DDN9842	AC25014	SCOPE PROBE KIT / AC25014	AEROFLEX WICHITA INC
DDN9845	AC25029	ACCESSORY POUCH / AC25029	AEROFLEX WICHITA INC
DDN9846	AC25036	DC TO AC CONVERTER, 12VDC TO 110-120VAC / AC25036	AEROFLEX WICHITA INC
DDN9847	AC25042	ANTENNA BNC 50 MHZ / AC25042	AEROFLEX WICHITA INC
DDN9851	AC25059	6 DB / 150 WATT 1.5 GHZ ATTENUATOR / AC25059 / RRDN6901A	AEROFLEX WICHITA INC
DDN9852	AC25060	10 DB / 150 WATT 1.5 GHZ ATTENUATOR / AC25060 / RRDN6902A	AEROFLEX WICHITA INC
DDN9853	AC25061	50 OHM 250 WATT 5 GHZ TERMINATION / AC25061 / RRDN6903A	AEROFLEX WICHITA INC
DDN9854	AC25081	SITE SURVEY SOFTWARE / AC25081	AEROFLEX WICHITA INC
DDN9855	AC4105	RETURN LOSS BRIDGE 1.3 GHZ / AC4105	AEROFLEX WICHITA INC
DDN9856	AC8645	MICROPHONE / AC8645	AEROFLEX WICHITA INC
DDN9857	CALFB392X	CALIBRATION CERTIFICATE / CALFB392X	AEROFLEX WICHITA INC
DQ20216101	202161-01	BREAKOUT BOX FOR APX & XTL MOBILES AUDIO TESTS	FREEDOM COMMUNICATIO
DQ390XOPT604	390XOPT604	APX-7000 AUTOTEST & ALIGNMENT/ 390XOPT604	AEROFLEX WICHITA INC
DQ3920B23195	QUOTE - 23195	3920B SERIES RADIO TEST SET W/OPTS PER QUOTE - FISHER WIRELESS SRVCS	AEROFLEX WICHITA INC
DQ8800SX23163	QUOTE - 23163	8800SX SERIES RADIO TEST SET W/OPTS PER QUOTE - RADIO COMM SERVICES	AEROFLEX WICHITA INC
DQ8800SX23196	QUOTE - 23196	8800SX SERIES RADIO TEST SET W/OPTS PER QUOTE - FISHER WIRELESS SRVCS	AEROFLEX WICHITA INC
DQR8VSWR	R8-VSWR	R8000 ANTENNA BRIDGE KIT	FREEDOM COMMUNICATIO
DS01009420001	1009420001	ODU-A 28GHZ, TR1008, LO, B1 (27520.0 - 28025.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01009420002	1009420002	ODU-A 28GHZ, TR1008, LO, B1 ((28528.0 - 29033.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01009420003	1009420003	ODU-A 28GHZ, TR1008, LO, B1 (27968.0 - 28473.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01009420004	1009420004	ODU-A 28GHZ, TR1008, LO, B1 (28976.0 - 29481.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01009504002	1009504002	DRYLINE DEHYDRATOR, LOW-PRESSURE MEMBRANE, WALL MOUNTABLE, 115 VAC	CAMBIUM NETWORKS LIM
DS01010208001	1010208001	ODU-A 11GHZ, TR 490&500,LO,B5(10700.0-10890.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01010208002	1010208002	ODU-A 11GHZ,TR 490&500,HI,B5 11200.0-11390.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010208003	1010208003	ODU-A 11GHZ,TR 490&500,LO,B6 (10855.0-11045.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01010208004	1010208004	ODU-A 11GHZ,TR490&500,HI,B6 11355.0-11545.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010208005	1010208005	ODU-A 11GHZ, TR 490 & 500, LO, B7(11010.0 - 11200.0 MHZ), RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010208006	1010208006	ODU-A 11GHZ, TR490&500,HI,B7(11510.0-11700.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010208007	1010208007	ODU-A 11GHZ, TR530, LO, B1 (10675.0 - 10855.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010208008	1010208008	ODU-A 11GHZ, TR530, HI, B1 (11205.0 - 11385.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010209001	2.50E+12	ODU-A 18GHZ, TR1010&1008, LO,B1(17685.0 - 17985.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010209002	1010209002	ODU-A 18GHZ,TR1010&1008, HI,B1(18695.0 - 18995.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010209003	1010209003	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (17930.0 - 18230.0 MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209004	1010209004	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (18940.0 - 19240.0 MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209005	1010209005	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (18180.0 - 18480.0 MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209006	1010209006	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (19190.0 - 19490.0MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209007	1010209007	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (18400.0 - 18700.0 MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209008	1010209008	ODU-A 18GHZ, TR1010 & 1008, LO, B2 (19410.0 - 19710.0 MHZ),RECTANGULAR	CAMBIUM NETWORKS LIM
DS01010209013	1010209013	ODU-A 18GHZ,TR1560,LO,B3 (17700.0 - 18140.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010209014	1010209014	ODU-A 18GHZ,TR1560,HI,B3 (19260.0 - 19700.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210001	1010210001	ODU-A,23GHZ,TR1008,LO,B1(21994.0-22330.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM

DS01010210002	1010210002	ODU-A,23GHZ,TR1008,LO,B1(23002.0-23338.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210003	1010210003	ODU-A,23GHZ,TR1008,LO,B1(22274.0-22610.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210004	1010210004	ODU-A,23GHZ,TR1008,LO,B1(23282.0-23618.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210005	1010210005	ODU-A,23GHZ,TR1200,LO,B5,21200-21600MHZ,RCTNGLR WG,NEG POL	CAMBIUM NETWORKS LIM
DS01010210006	1010210006	ODU-A 23GHZ, TR1200, HI, B5 (22400.0 - 22800.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210007	1010210007	ODU-A 23GHZ, TR1200, LO, B6 (21600.0 - 22000.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210008	1010210008	ODU-A 23GHZ, TR1200, HI, B6 (22800.0 - 23200.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210009	1010210009	ODU-A 23GHZ, TR1200, LO, B7 (22000.0 - 22400.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010210010	1010210010	ODU-A 23GHZ, TR1200, HI, B7 (23200.0 - 23600.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403001	1010403001	ODU-A 26GHZ, TR800, LO, B1 (24250.0 - 24450.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403002	1010403002	ODU-A 26GHZ, TR800, LO, B1 (25050.0 - 25250.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403003	1010403003	ODU-A 26GHZ, TR800, LO, B1 (24549.0 - 24885.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403004	1010403004	ODU-A 26GHZ, TR800, LO, B1 ((25557.0 - 25893.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403005	1010403005	ODU-A 26GHZ, TR800, LO, B1 (24829.0 - 25165.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403006	1010403006	ODU-A 26GHZ, TR800, LO, B1 ((25837.0 - 26173.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403007	1010403007	ODU-A 26GHZ, TR800, LO, B1 (25109.0 - 25445.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010403008	1010403008	ODU-A 26GHZ, TR800, LO, B1 ,(26117.0 - 26453.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010411007	1010411007	ODU-A 6GHZ,TR252, LO, B1 (5925.0 - 6025.0 MHZ), RECTANGULAR WG, NEG PO	CAMBIUM NETWORKS LIM
DS01010411008	1010411008	ODU-A 6GHZ,TR252, HI, B1 (6175.0- 6275.0 MHZ), RECTANGULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010411009	1010411009	ODU-A 6GHZ,TR252, LO, B2 (6000.0 - 6100.0 MHZ), RECTANGULAR WG, NEG PO	CAMBIUM NETWORKS LIM
DS01010411010	1010411010	ODU-A 6GHZ,TR252, HI, B2 (6250.0 - 6350.0 MHZ), RECTANGULAR WG, NEG PO	CAMBIUM NETWORKS LIM
DS01010411011	1010411011	ODU-A 6GHZ,TR252, LO, B3 (6075.0 - 6175.0 MHZ), RECTANGULAR WG, NEG PO	CAMBIUM NETWORKS LIM
DS01010411012	1010411012	ODU-A 6GHZ,TR252, HI, B3 (6325.0 - 6425.0 MHZ), RECTANGULAR WG, NEG PO	CAMBIUM NETWORKS LIM
DS01010411022	1010411022	ODU-A 6GHZ, TR160, HI, B1, RWG, NP	CAMBIUM NETWORKS LIM
DS01010411023	1010411023	ODU-A 6GHZ, TR160, HI, B2, RWG, NEG	CAMBIUM NETWORKS LIM
DS01010411024	1010411024	ODU-A 6GHZ, TR160, LO, B1, RWG, NP	CAMBIUM NETWORKS LIM
DS01010411025	1010411025	ODU-A 6GHZ, TR160, LO, B2, RWG, NEG	CAMBIUM NETWORKS LIM
DS01010411026	1010411026	ODU-A 6GHZ, TR170, HI, B1, RWG, NEG	CAMBIUM NETWORKS LIM
DS01010411027	1010411027	ODU-A 6GHZ, TR170, LO, B1, RWG, NEG	CAMBIUM NETWORKS LIM
DS01010419001	1010419001	CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	CAMBIUM NETWORKS LIM
DS01010430001	1010430001	SFP SX GIG-E OPTICAL PLUGGABLE MODULE - 850 NM	CAMBIUM NETWORKS LIM
DS01010431001	1010431001	SFP LX GIG-E OPTICAL PLUGGABLE MODULE - 1310 NM	CAMBIUM NETWORKS LIM
DS01010433001	1010433001	ODU-A 38GHZ, TR700, HI, B4 (38864.0 - 39452.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433002	1010433002	ODU-A 38GHZ, TR700, LO, B1 (38595.0 - 38805.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433003	1010433003	ODU-A 38GHZ, TR700, HI, B1 (39295.0 - 39505.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433004	1010433004	ODU-A 38GHZ, TR700, LO, B2 (38795.0 - 39005.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433005	1010433005	ODU-A 38GHZ, TR700, HI, B2 (39495.0 - 39705.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433006	1010433006	ODU-A 38GHZ, TR700, LO, B3 (38995.0 - 39205.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433007	1010433007	ODU-A 38GHZ, TR700, HI, B3 (39695.0 - 39905.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433008	1010433008	ODU-A 38GHZ, TR700, LO, B4 (39195.0 - 39405.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433009	1010433009	ODU-A 38GHZ, TR700, HI, B4 (39895.0 - 40105.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433010	1010433010	ODU-A 38GHZ, TR700, HI, B4 (37044.0 - 37632.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010433011	1010433011	ODU-A 38GHZ, TR700, HI, B4 (38304.0 - 38892.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM

DS01010433012	1010433012	ODU-A 38GHZ, TR700, HI, B4 (37604.0 - 38192.0 MHZ), CIRCULAR WG	CAMBIUM NETWORKS LIM
DS01010583001	1010583001	ODU-A 13GHZ, TR266, LO, B1 (12751.0 - 12814.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583002	1010583002	ODU-A 13GHZ, TR266, LO, B1 ((13017.0 - 13080.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583003	1010583003	ODU-A 13GHZ, TR266, LO, B1 (12807.0 - 12870.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583004	1010583004	ODU-A 13GHZ, TR266, LO, B1 (13073.0 - 13136.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583005	1010583005	ODU-A 13GHZ, TR266, LO, B3 (12863.0 - 12926.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583006	1010583006	ODU-A 13GHZ, TR266, LO, B1 (13129.0 - 13192.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583007	1010583007	ODU-A 13GHZ, TR266, LO, B1 ((12919.0 - 12982.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010583008	1010583008	ODU-A 13GHZ, TR266, LO, B1 ((13185.0 - 13248.0 MHZ)), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584001	1010584001	ODU-A 15GHZ, TR420, LO, B4 (14501.0 - 14613.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584002	1010584002	ODU-A 15GHZ, TR420, LO, B4 (14921.0 - 15033.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584003	1010584003	ODU-A 15GHZ, TR420, LO, B4 (14606.0 - 14725.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584004	1010584004	ODU-A 15GHZ, TR420, LO, B4 (15026.0 - 15145.0 MHZ)	CAMBIUM NETWORKS LIM
DS01010584005	1010584005	ODU-A 15GHZ, TR420, LO, B4 (14718.0 - 14837.0 MHZ)	CAMBIUM NETWORKS LIM
DS01010584006	1010584006	ODU-A 15GHZ, TR420, LO, B4 ((15138.0 - 15257.0 MHZ)	CAMBIUM NETWORKS LIM
DS01010584007	1010584007	ODU-A 15GHZ, TR420, LO, B4 (14816.0 - 14928.0 MHZ)	CAMBIUM NETWORKS LIM
DS01010584008	1010584008	ODU-A 15GHZ, TR420, LO, B4 (15236.0 - 15348.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584009	1010584009	ODU-A 15GHZ, TR420, LO, B4 (14403.0 - 14522.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584010	1010584010	ODU-A 15GHZ, TR420, LO, B4 ,(14893.0 - 15012.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584011	1010584011	ODU-A 15GHZ, TR420, LO, B4 (14515.0 - 14634.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584012	1010584012	ODU-A 15GHZ, TR420, LO, B4 (15005.0 - 15124.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584013	1010584013	ODU-A 15GHZ, TR420, LO, B4 ,(14627.0 - 14746.0 MHZ),RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584014	1010584014	ODU-A 15GHZ, TR420, LO, B4 ,(15117.0 - 15236.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584015	1010584015	ODU-A 15GHZ, TR420, LO, B4 ,(14739.0 - 14858.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584016	1010584016	ODU-A 15GHZ, TR420, LO, B4 (15229.0 - 15348.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584020	1010584020	ODU-A 15GHZ, TR420, LO, B4 ,(14500.0 - 14625.0 MHZ) RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01010584021	1010584021	ODU-A 15GHZ, TR420, LO, B4 ,(15228.0 - 15353.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584022	1010584022	ODU-A 15GHZ, TR420, LO, B4,(14627.0 - 14746.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584023	1010584023	ODU-A 15GHZ, TR420, LO, B4 (14942.0 - 15061.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584024	1010584024	ODU-A 15GHZ, TR420, LO, B4 ,(14725.0 - 14844.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584025	1010584025	ODU-A 15GHZ, TR420, LO, B4 (15040.0 - 15159.0 MHZ)RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584026	1010584026	ODU-A 15GHZ, TR420, LO, B4 (14823.0 - 14942.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584027	1010584027	ODU-A 15GHZ, TR420, LO, B4 (15138.0 - 15257.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584028	1010584028	ODU-A 15GHZ, TR420, LO, B4 (14400.0 - 14512.0 MHZ) RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS01010584029	1010584029	ODU-A 15GHZ, TR420, LO, B4 ((15044.0 - 15156.0 MHZ)), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS01010584030	1010584030	ODU-A 15GHZ, TR420, LO, B4 (14498.0 - 14610.0 MHZ) RECTANGULAR WG, NEG	CAMBIUM NETWORKS LIM
DS01010584031	1010584031	ODU-A 15GHZ, TR420, LO, B4 ((15142.0 - 15254.0 MHZ), RECTANGULAR WG, N	CAMBIUM NETWORKS LIM
DS01010584032	1010584032	ODU-A 15GHZ, TR420, LO, B4 ,(14596.0 - 14708.0 MHZ)RECTANGULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010584033	1010584033	ODU-A 15GHZ, TR420, LO, B4 ,(15240.0 - 15352.0 MHZ),RECTANGULAR WG, N	CAMBIUM NETWORKS LIM
DS01010589001	1010589001	RF CNNCTR,N,MALE,RT ANGL 400 CBL	CAMBIUM NETWORKS LIM
DS01010610001	1010610001	ODU-A 7GHZ, TR154, LO, B1 (7428.0 - 7484.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610002	1010610002	ODU-A 7GHZ, TR154, HI, B1 (7582.0 - 7638.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610005	1010610005	ODU-A 7GHZ, TR154, LO, B3 (7512.0 - 7568.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM

DS01010610006	1010610006	ODU-A 7GHZ, TR154, HI, B3 (7666.0 - 7722.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610027	1010610027	ODU-A 7GHZ, TR161, LO, B8 (7344.0 - 7407.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610068	1010610068	ODU-A 7GHZ, TR300, LO, B1 (7090.0 - 7210.0 MHZ)	CAMBIUM NETWORKS LIM
DS01010610069	1010610069	ODU-A 7GHZ, TR300, HI, B1 (7390.0 - 7510.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610072	1010610072	ODU-A 7GHZ, TR300, LO, B3 (7330.0 - 7450.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010610073	1010610073	ODU-A 7GHZ, TR300, HI, B3 (7630.0 - 7750.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611001	1010611001	ODU-A 8GHZ, TR119 / 126, LO, B1 (8279.0 - 8307.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611002	1010611002	ODU-A 8GHZ, TR119 / 126, HI, B1 (8398.0 - 8426.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611003	1010611003	ODU-A 8GHZ, TR119 / 126, LO, B2 (8293.0 - 8321.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611004	1010611004	ODU-A 8GHZ, TR119 / 126, HI, B2 (8412.0 - 8440.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611005	1010611005	ODU-A 8GHZ, TR119 / 126, LO, B3 (8307.0 - 8335.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611006	1010611006	ODU-A 8GHZ, TR119 / 126, HI, B3 (8426.0 - 8454.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611007	1010611007	ODU-A 8GHZ, TR119 / 126, LO, B4 (8321.0 - 8349.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611008	1010611008	ODU-A 8GHZ, TR119 / 126, HI, B4 (8440.0 - 8468.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611009	1010611009	ODU-A 8GHZ, TR119 / 126, LO, B5 (8335.0 - 8363.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611010	1010611010	ODU-A 8GHZ, TR119 / 126, HI, B5 (8454.0 - 8482.0 MHZ), CIRCULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010611021	1010611021	ODU-A 8GHZ, TR208, LO, B2 (8099.0 - 8169.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611022	1010611022	ODU-A 8GHZ, TR208, HI, B2 (8307.0 - 8377.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611023	1010611023	ODU-A 8GHZ, TR208, LO, B3 (8155.0 - 8225.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611024	1010611024	ODU-A 8GHZ, TR208, HI, B3 (8363.0 - 8433.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611025	1010611025	ODU-A 8GHZ, TR208, LO, B4 (8211.0 - 8281.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611026	1010611026	ODU-A 8GHZ, TR208, HI, B4 (8419.0 - 8489.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611027	1010611027	ODU-A 8GHZ, TR266, LO, B1 (7905.0 - 8024.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611028	1010611028	ODU-A 8GHZ, TR266, HI, B1 (8171.0 - 8290.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611029	1010611029	ODU-A 8GHZ, TR266, LO, B2 (8017.0 - 8136.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611030	1010611030	ODU-A 8GHZ, TR266, HI, B2 (8283.0 - 8402.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611031	1010611031	ODU-A 8GHZ, TR311, LO, B2 (7835.0 - 7971.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611032	1010611032	ODU-A 8GHZ, TR311, HI, B2 (8146.0 - 8282.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611033	1010611033	ODU-A 8GHZ, TR311, LO, B3 (7717.0 - 7867.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611034	1010611034	ODU-A 8GHZ, TR311, HI, B3 (8028.0 - 8178.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611036	1010611036	ODU-A 8GHZ, TR360, LO, B1 (7750.0 - 7870.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611037	1010611037	ODU-A 8GHZ, TR360, HI, B1 (8110.0 - 8230.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611038	1010611038	ODU-A 8GHZ, TR360, LO, B2 (7870.0 - 7990.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611039	1010611039	ODU-A 8GHZ, TR360, HI, B2 (8230.0 - 8350.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611040	1010611040	ODU-A 8GHZ, TR360, LO, B3 (7990.0 - 8110.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010611041	1010611041	ODU-A 8GHZ, TR360, HI, B3 (8350.0 - 8470.0 MHZ), CIRCULAR WG, NEG POL	CAMBIUM NETWORKS LIM
DS01010612001	1010612001	ODU-A 32GHZ, TR812, LO, B1 (31815.0 - 32207.0 MHZ), RECTANGULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010612002	1010612002	ODU-A 32GHZ, TR812, LO, B1 (32627.0 - 33019.0 MHZ), RECTANGULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010612003	1010612003	ODU-A 32GHZ, TR812, LO, B1 (32179.0 - 32571.0 MHZ), RECTANGULAR WG, NE	CAMBIUM NETWORKS LIM
DS01010612004	1010612004	ODU-A 32GHZ, TR812, LO, B1 (32991.0 - 33383.0 MHZ), RECTANGULAR WG, NE	CAMBIUM NETWORKS LIM
DS0180302E82	1.80E+87	ISOLATION TRANSFORMER FOR BASEBAND OUTPUT, 0180302E82	FREEDOM COMMUNICATIO
DS0180302E83	1.80E+88	ISOLATION TRANSFORMER FOR METER INPUT, 0180302E83	FREEDOM COMMUNICATIO
DS07009303001	7009303001	ODU MOUNT L-BRACKET, 6G, WR112	CAMBIUM NETWORKS LIM

DS07009303005	7009303005	ODU MAN FXTR	CAMBIUM NETWORKS LIM
DS07009304001	7009304001	HOISTING GRIP FOR CNT-400 CABLE	CAMBIUM NETWORKS LIM
DS07009343001	7009343001	GROUNDING KIT FOR WAVEGUIDE EWP52 AND EWP63	CAMBIUM NETWORKS LIM
DS07009343002	7009343002	GROUNDING KIT FOR WAVEGUIDE EWP90	CAMBIUM NETWORKS LIM
DS07009344001	7009344001	HOISTING GRIP FOR WAVEGUIDE EWP52 AND EWP63	CAMBIUM NETWORKS LIM
DS07009344002	7009344002	HOISTING GRIP FOR WAVEGUIDE EWP90	CAMBIUM NETWORKS LIM
DS07010109003	7010109003	ODU REMOTE MOUNT KIT 11-13 GHZ - UBR120 OUTPUT	CAMBIUM NETWORKS LIM
DS07010109005	7010109005	ODU REMOTE MOUNT KIT 18-26 GHZ - UBR220 OUTPUT	CAMBIUM NETWORKS LIM
DS07010109008	7010109008	ODU REMOTE MOUNT KIT 6 GHZ - UBR320	CAMBIUM NETWORKS LIM
DS07010110001	7010110001	ODU COUPLER MOUNTING KIT 7 GHZ - 3DB	CAMBIUM NETWORKS LIM
DS07010110002	7010110002	ODU COUPLER MOUNTING KIT 7 GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010110004	7010110004	ODU COUPLER MOUNTING KIT 8 GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010110005	7010110005	ODU COUPLER MOUNTING KIT 11 GHZ - 3DB	CAMBIUM NETWORKS LIM
DS07010110006	7010110006	ODU COUPLER MOUNTING KIT 11 GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010110011	7010110011	ODU COUPLER MOUNTING KIT 18 GHZ - 3DB	CAMBIUM NETWORKS LIM
DS07010110012	7010110012	ODU COUPLER MOUNTING KIT 18GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010110013	7010110013	ODU COUPLER MOUNTING KIT 23 GHZ - 3DB	CAMBIUM NETWORKS LIM
DS07010110014	7010110014	ODU COUPLER MOUNTING KIT 23 GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010110022	7010110022	ODU COUPLER MOUNTING KIT 6GHZ - 6DB	CAMBIUM NETWORKS LIM
DS07010118001	7010118001	WR137 FLEX-TWIST HANGER KIT - 6 GHZ	CAMBIUM NETWORKS LIM
DS07010118003	7010118003	WR75 FLEX TWIST HANGER KIT,11-13GHZ	CAMBIUM NETWORKS LIM
DS07010118005	7010118005	WR42 FLEX TWIST HANGER KIT,18-26GHZ	CAMBIUM NETWORKS LIM
DS09009399001	9009399001	FIXED-TUNED CPR137G CONNECTOR FOR EWP52	CAMBIUM NETWORKS LIM
DS09009399002	9009399002	FIXED-TUNED CPR90G CONNECTOR FOR EWP90	CAMBIUM NETWORKS LIM
DS09009399003	9009399003	FIXED-TUNED CPR137G CONNECTOR FOR EWP63	CAMBIUM NETWORKS LIM
DS09010091001	9010091001	RF CONNCTR,N,MALE,STRT FOR -400 CBL	CAMBIUM NETWORKS LIM
DS091009315001	91009315001	TX FILTER ASSEMBLY,6G, 10/30MHZ	CAMBIUM NETWORKS LIM
DS091009315004	91009315004	RX FILTER ASSEMBLY,6G, 10/30MHZ	CAMBIUM NETWORKS LIM
DS1010127R	1010-127-R	ATTENUATOR, 30 DB, 150W, DC TO 3 GHZ, N(M)- N(F)	ANRITSU COMPANY
DS1010128R	1010-128-R	ATTENUATOR, 40 DB, 150W, DC TO 3 GHZ, NM - NF	ANRITSU COMPANY
DS1090CKBA	1090CKHH	ASSY,PRD OTH,CMM4 W/RUGGEDIZED SW AND GPS	CAMBIUM NETWORKS LIM
DS1091420R	1091-420-R	DUAL DIRECTIONAL COUPLER, 40DB, 200W CW, 80-1000 MHZ	ANRITSU COMPANY
DS1091AA	1091HH	CMM4 NO SWITCH	CAMBIUM NETWORKS LIM
DS1092AA	1092AA	ASSEMBLY,CMM4 RACK MOUNT ASSEMBLY	CAMBIUM NETWORKS LIM
DS1092HH	1092HH	ASSEMBLY,CMM4 RACK MOUNT ASSEMBLY	CAMBIUM NETWORKS LIM
DS1096A	1096H	UNIVERSAL GPS MODULE	CAMBIUM NETWORKS LIM
DS112861	112861	MICROPHONE FOR 8800	AEROFLEX WICHITA INC
DS113613	113613	8800 SERIES OP/ICW MANUAL (CD ONLY) (ONE SUPPLIED STANDARD)	AEROFLEX WICHITA INC
DS113614	113614	8800 SERIES MAINTENANCE MANUAL (CD ONLY)	AEROFLEX WICHITA INC
DS113615	113615	8800 SERIES MANUAL GETTING STARTED (PAPER - ONE IS SUPPLIED STANDARD)	AEROFLEX WICHITA INC
DS114312	114312	RACKMOUNT KIT FOR 8800	AEROFLEX WICHITA INC
DS114348	114348	PRECISION DTF VSWR ACCESSORY KIT FOR 8800	AEROFLEX WICHITA INC
DS114475	114475	ANTENNA KIT FOR 8800	AEROFLEX WICHITA INC

DS114477	114477	HARD TRANSIT CASE FOR 8800	AEROFLEX WICHITA INC
DS114478	114478	SOFT-SIDED CARRYING CASE FOR 8800	AEROFLEX WICHITA INC
DS114479	114479	EXTERNAL BATTERY CHARGER	AEROFLEX WICHITA INC
DS11652COM	11652	STAINLESS STEEL STRAP ADJUSTABLE FROM 1 1/2 TO 3 1/2 PKG OF 10	COMMSCOPE TECHNOLOGI
DS11729503	11729-503	CHATSWORTH DBL SIDED RCK 11729-503	ANIXTER INC
DS11791718	11791-718	SWING GATE WALL RACK 21RU 18IND 2 POST	ANIXTER INC
DS11840748	QOUTE 48679/CPI 11840-748	CHATSWORTH CUBE IT WALLMOUNT CAB, SOLID METAL DOOR, 48HX19WX24D, 26RU	ANIXTER INC
DS11914719	CPI 11914-719	CHATSWORTH 32 IN DEEP SLIDING SHELF NON VENTED, BLACK	ANIXTER INC
DS11960718	11960-718	FIXED WALL MOUNT EQUIPMENT RACK 12RU	ANIXTER INC
DS11WL	11WL	TEMPERATURE PROBE FOR LMHF SYSTEM, 24 FT	LAMARCHE MFG CO
DS12086719	12086-719	CHATSWORTH 19W INCH ADJUSTABLE TIE-DOWN TOWER BRACKET-BLACK	GRAYBAR ELECTRIC CO
DS12091719	12091-719	CHATSWORTH TIE DOWN BRACKET-BLACK	GRAYBAR ELECTRIC CO
DS121000PS	12-1000 PS	INVERTER, 1000W 12V INPUT 115V OUTPUT, PS SERIES	NEWMAR
DS12312201	12312-201	CHATSWORTH EQUIPMENT SUPPORT BRACKET CLR BIEGE	ANIXTER INC
DS12334719	12334-719	CHATSWORTH 19WX24D INCH ALUMINUM FIXED SHELF MEGAFRAME SOLID - BLACK	ANIXTER INC
DS12337719	12337-719	FIXED SHELF VENTED, 19INW X 3.5INH X 18IND 460 MM BLACK	ANIXTER INC
DS123951	12395-1	100 FT. SST WRAPLOCK,	COMMSCOPE TECHNOLOGI
DS12495719	12495-719	23 SHELF MNTR KB M 19IN MF BK	ANIXTER INC
DS1270040000	SFP-17AD	SFP GE,DDM,TX-1310NM,RX-1490NM,SM(SINGLE FIBER),LASER (WDM), 6.2 MI	RAD DATA COMMUNICATI
DS1270430000	SFP-17BD	SFP GE,DDM,TX -1490NM,RX -1310 NM,SM(SINGLE FIBER),LASER (WDM),6.2MI	RAD DATA COMMUNICATI
DS1273470000	SFP-23AED	SFP GE,DDM,TX -1310NM,RX -1550NM,SM(SINGLE FIBER),LASER(WDM),24.8 MI	RAD DATA COMMUNICATI
DS1274420000	SFP-23BED	SFP GE,DDM,TX -1550NM,RX -1310NM,SM(SINGLE FIBER), LASER (WDM),24.8MI	RAD DATA COMMUNICATI
DS1278010000	SFP-1	SFP MM, 1310NM, UP TO 2KM, LC, 100BASEFX OR STM1	RAD DATA COMMUNICATI
DS1278020000	SFP-2	SFP SM, 1310NM, UP TO 15KM, LC, 100BASEFX OR STM1	RAD DATA COMMUNICATI
DS1278030000	SFP-3	SFP SM, 1310NM, UP TO 40KM, LC, 100BASEFX OR STM1	RAD DATA COMMUNICATI
DS1278040000	SFP-4	SFP 100BASEFX/STM-1, SM 1550 NM, UP TO 80 KM, LC CONNECTOR	RAD DATA COMMUNICATI
DS1278050000	SFP-6	SFP SM 1310 NM LC CONNECTOR	RAD DATA COMMUNICATI
DS1278060000	SFP-5	SFP MM 850NM, UP TO 550M, LC CONNECTORS, 1000 BASE-SX	RAD DATA COMMUNICATI
DS1278070000	SFP-7	SFP SM, 1550 NM, UP TO 80 KM, LC, GbE, DDM	RAD DATA COMMUNICATI
DS1278080000	SFP-8	SFP SM, 1310NM, UP TO 40KM, LC, GBE, DDM	RAD DATA COMMUNICATI
DS1278090000	SFP-9G	SFP GIGE TWP COPPER, UP TO 100M, RJ-45 CONNECTOR (GIGE ONLY)	RAD DATA COMMUNICATI
DS1278100000	SFP-10A	SFP SF, TX1310,RX 1550, 20KM, LC, 100 BASE FX/STM1	RAD DATA COMMUNICATI
DS1278110000	SFP-10B	SFP SF, TX1550, RX1310, 20KM, LC, 100 BASEFX/STM1	RAD DATA COMMUNICATI
DS1278160000	SFP-1D	SFP MM, 1310NM, 2KM, LC, 100BASEFX OR STM1, DDM	RAD DATA COMMUNICATI
DS1278170000	SFP-7D	SFP SM,1550NM,UP TO 80 KM,LC,GBE,DDM	RAD DATA COMMUNICATI
DS1278180000	SFP-8D	SFP SM, 1310NM, 40KM, LC, GBE, DDM	RAD DATA COMMUNICATI
DS1278190000	SFP-11	SFP STM-1E, MINI BNC, DIN 1.0/2.3	RAD DATA COMMUNICATI
DS1278220000	SFP-12	SFP PLUGGABLE TRANSCEIVER, E3, SMB, COAXIAL, 135M	RAD DATA COMMUNICATI
DS1278230000	SFP-14D	SFP 1310NM MM FOR 500M STM-4 W/DDM	RAD DATA COMMUNICATI
DS1278240000	SFP-15	SFP 1310NM FOR 15 KM STM-4	RAD DATA COMMUNICATI
DS1278250000	SFP-16	SFP STM-4, LC, SME 1550 NM, 9/125, LASER 80 KM	RAD DATA COMMUNICATI
DS1278290000	SFP-9F	SFP 10/100BASE-T TWP COPPER, UP TO 100M, RJ-45 (10/100BT ONLY)	RAD DATA COMMUNICATI
DS1278310000	SFP-6D	SFP SM/13L FOR 1GBETH 10KM, DDM	RAD DATA COMMUNICATI

DS1278320000	SFP-5D	SFP FOR GIGA, MM, 850NM, 550M, DDM	RAD DATA COMMUNICATI
DS1278340000	SFP-3D	SFP FAST ETHERNET/STM-1,DDM, 1310NM 9/125 SM, G.957 L1.1, LASER, 40KM	RAD DATA COMMUNICATI
DS1278350000	SFP-2D	SFP SM/13L (15KM)FOR 155MBPS AND FE, DDM	RAD DATA COMMUNICATI
DS1278360000	SFP-20	SFP SM 1550NM, UP TO 120KM, LC BGE	RAD DATA COMMUNICATI
DS1278370000	SFP-18B	SFP FAST ETHERNET/STM-1, SINGLE FIBER, TX1550,RX1310,LASER (WDM),40KM	RAD DATA COMMUNICATI
DS1278380000	SFP-18A	SFP FAST ETHERNET/STM-1,LC,SINGLE FIBER,TX1310,RX1550,LASER (WDM),40KM	RAD DATA COMMUNICATI
DS1278390000	SFP-17B	SFP GIGA BIDI TX-1490NM/RX-1310NM	RAD DATA COMMUNICATI
DS1278400000	SFP-17A	SFP GIGA BIDI TX-1310NM/RX-1490NM	RAD DATA COMMUNICATI
DS1278480000	SFP-21A	SFP SM 1550NM, UP TO 120KM, LC BGE	RAD DATA COMMUNICATI
DS1278490000	SFP-21B	SFP SM 1550NM, UP TO 120KM, LC BGE	RAD DATA COMMUNICATI
DS1278500000	SFP-23A	SFP GE,TX -1310NM, RX -1550NM, SM, (SINGLE FIBER), LASER (WDM),24.8MI	RAD DATA COMMUNICATI
DS1278510000	SFP-23B	SFP GE TX -1550NM, RX -1310NM,SM SINGLE FIBER,LASER (WDM), 24.8MI	RAD DATA COMMUNICATI
DS1278570000	SFP-2H	SFP SM 1310M up to 15KM, LC 100Basefx or stm	RAD DATA COMMUNICATI
DS1278590000	SFP-5H	SFP MM, 850NM, UP TO 550M, LC, 1000BASE-SX INDUSTRIAL -40C TO 85C	RAD DATA COMMUNICATI
DS1278600000	SFP-6H	SFP SINGLE MODE 1310NM LC CON HARDENED (OR INDUSTRIAL -40C TO 85)	RAD DATA COMMUNICATI
DS1278610000	SFP-8DH	SFP SM, 1310NM, UP TO 40KM, LC, GBE, DDM, INDUSTRIAL -40C TO 85C50N	RAD DATA COMMUNICATI
DS1278620000	SFP-8H	SFP GE,LC INDUSTRIALLY HARDENED, 1310 NM 9/125 SM LASER, 40 KM	RAD DATA COMMUNICATI
DS1278650000	SFP-24	SFP FAST ETHERNET/STM 1, 850 NM, MULTIMODE, 2 KM (1.2 MI)	RAD DATA COMMUNICATI
DS1278740000	SFP-30	SFP Multirate 10/100/1000 copper SFP	RAD DATA COMMUNICATI
DS1278760000	SFP-47DH	SFP GE, DDM, INDUSTRIALLY HARDENED, 1470 NM, CWDM, 24 DB, BUDGET	RAD DATA COMMUNICATI
DS1278770000	SFP-49DH	SFP GE, DDM, INDUSTRIALLY HARDENED, 1490 NM, CWDM, 24 DB, BUDGET	RAD DATA COMMUNICATI
DS1278780000	SFP-51DH	SFP GE, DDM, INDUSTRIALLY HARDENED, 1510 NM, CWDM, 24 DB, BUDGET	RAD DATA COMMUNICATI
DS1278820000	SFP-59DH	SFP GE DDM, INDUSTRIALLY HARDENED, 1590 NM, CWDM, 24 DB, BUDGET	RAD DATA COMMUNICATI
DS1278830000	SFP-61DH	SFP GE DDM, INDUSTRIALLY HARDENED, 1610 NM, CWDM, 24 DB, BUDGET	RAD DATA COMMUNICATI
DS1278850000	SFP-7DH	SFP GE, DDM, INDUSTRIALLY HARDENED, 1550 NM, SM, LASER 49.7 MI	RAD DATA COMMUNICATI
DS1278890000	SFP-9G/H	SFP GE, RJ 45 , 100M (238 FT), HARDENED ENCLOSURE (GIGE ONLY)	RAD DATA COMMUNICATI
DS12816702	CPI 12816-702	BASIC HORIZ PWR STRIP SGL PHASE, 125V, 15A, 8-RECEPT WCIRCUIT BREAKER	ANIXTER INC
DS12816705	12816-705	RACK MOUNT POWER STRIP 20 AMPS WITH CIRCUIT BREAKER	ANIXTER INC
DS12848757	12848-757	METERED POWER STRIP	ANIXTER INC
DS12AVR30	12AVR-30	BATTERY, EAST PENN, 12V, 30AH	ELTEK INC
DS12HPT	12-HPT	1/2IN HAND PREP TOOL, EZFIT	COMMSCOPE TECHNOLOGI
DS1316MCLICK	1316MCLICK	1316MCLICK MINIATURE CLICK-ON HANGER FOR 13 16 MM CABLE QTY 10	COMMSCOPE TECHNOLOGI
DS1325030107	1325030107	CIRCUIT BREAKER 3A 1325 STYLE BREAKER	ELTEK INC
DS1325050107	1325050107	CIRCUIT BREAKER 5A 1P (AM1) STUD AUX SW	ELTEK INC
DS1325105107	1325105107	BRKR 5A 1P (AM1) STUD AUX SW	ELTEK INC
DS1325115107	1325115107	BRKR 15A 1P (AM1) STUD AUX SW	ELTEK INC
DS1325120107	1325120107	20 AMP CIRCUIT BREAKER	ELTEK INC
DS1325125107	1325125107	BREAKER, 25AMP 1325 STYLE	ELTEK INC
DS1325130107	1325130107	CIRCUIT BREAKER, 30 AMP	ELTEK INC
DS1325140107	1325140107	40 AMP CIRCUIT BREAKER	ELTEK INC
DS1325150107	1325150107	50 AMP BREAKER, 1P (AM1) STUD AUX SW	ELTEK INC
DS1325160107	1325160107	60A BOLT IN BREAKER (REQUIRES BREAKER KIT 1-70A)	ELTEK INC
DS1325180107	1325180107	80A BOLT IN BREAKER (REQUIRES BREAKER KIT 71-100A)	ELTEK INC

DS1325210107	1325210107	100 AMP BREAKER, 1P (AM1) STUD AUX SW	ELTEK INC
DS1325210120	1325210120	BREAKER, 100 AMP	ELTEK INC
DS1376640	1376640 CDW (MFG P040-010)	TRIPP 10FT POWER CORD	CDW DIRECT LLC
DS13856703	13856-703	SEISMIC TWO POST RACK 19INW X 7FTH SQUARE PUNCHED RAIL BLACK	ANIXTER INC
DS1387344	1387344 CDW (MFG P036-002)	TRIPP 2FT POWER CABLE	CDW DIRECT LLC
DS1501039	3520-240	CORD, 1 METER SCHUKO TO C15 10A 250V BLACK ASEMBLED	TRANSTECTOR SYSTEMS
DS150DSGACODDL3PH	DSGAC	150KW DIESEL GENERATOR, 3PH, OUTDOOR HOUSING	CUMMINS NPOWER LLC
DS150SAMFN20	150-SA-MFN-20	ATTENUATOR	BIRD ELECTRONIC CORP
DS15213703	15213-703	CHATSWORTH ADJUSTABLE SERVER RACK (750 - 900 MM) 45RMU	GRAYBAR ELECTRIC CO
DS152299121	1-5229912-1	TYCO CHAMP CONN 25PR KIT MALE BLK	ANIXTER INC
DS152SE	152SE	FIXED TUNED EW CONNECTOR	COMMSCOPE TECHNOLOGI
DS15320724	15320-724	HEAVY DUTY WALL MOUNT RACK, COLOR BLACK	ANIXTER INC
DS1533P0101000	1533P 0101000	MULTI-CONDUCTOR CAT 5E NONBONDED-PAIR CABLE 4-P F/UTP CMP REEL BLACK	ANIXTER INC
DS158EZN	158EZN	158EZ N FEMALE CONNECTOR	COMMSCOPE TECHNOLOGI
DS158EZN	158EZN	158EZ N MALE CONNECTOR	COMMSCOPE TECHNOLOGI
DS1600000110	1600-000-110	CASE, 1600,WL/WF,BLACK PELICAN	ANIXTER INC
DS1605520	1605520	RITAL (12H X 8W X 5D INCH) BG - BUS METRIC R/H HINGED, RAL7035 NEMA 12	GRAYBAR ELECTRIC CO
DS163DZ	163DZ	SPLICE CONNECTOR	COMMSCOPE TECHNOLOGI
DS163SC	163SC	FIXED EW CONNECTOR	COMMSCOPE TECHNOLOGI
DS163SE	163SE	163SE FIXED TUNED WAVEGUIDE CONNECTOR	COMMSCOPE TECHNOLOGI
DS1680170000	OP-1551/6384/48/R/SC/13L	Optimux-1551 OC-3 mux,63XE1/84XT1,red -48VDC,SC,1310NM SM SHORT HAUL	RAD DATA COMMUNICATI
DS1680380000	OP-1551/6384/STC/AC/R/SC/13L	Optimux-1551 OC-3,63 E1or84 T1s station clock,AC,dual ps,sc,1310nm SM	RAD DATA COMMUNICATI
DS16J1211	16J1211	1RU / RJ45 CUSTOM JACKFIELD	SWITCHCRAFT INC
DS177SE	177SE	FIXED-TUNED CPR112G FOR ELLIPTICAL WAVEGUIDE 77	COMMSCOPE TECHNOLOGI
DS1810029	1810029	BATTERY, ALPHACELL GEL 195GXL-FT, 12V, 110AH @ 20HRS TO 1.75VPC, FRONT	ALPHA TECHNOLOGIES L
DS1810150	1810150	BATTERY,VRLA,48V,840AH,4X6,MSENDUR AT-15P	ALPHA TECHNOLOGIES L
DS1810206	1810206	BATTERY, 12V, 100AH, UNIGY I, 12AVR100 TOP TERMINAL - LEAD ACID	ALPHA TECHNOLOGIES L
DS18102510	181-025-10	BATTERY, 12V, 17AH, STANDARD LIFE GENERAL PURPOSE VRLA (AGM)	ALPHA TECHNOLOGIES L
DS18135210	181-352-10	BAT,VRLA,48V STRG,800AH,GNB100G17,TAL (NON-LOI)	ALPHA TECHNOLOGIES L
DS18135610	181-356-10	BATTERY, BAT,VRLA,AGM,12V 30AH,FR,UNIGYI TOP TERMINAL	ALPHA TECHNOLOGIES L
DS1850010000	VMUX-110/48/T1/24/ETH-UTP	VMUX compression mux,1-T1 port,1-UTP WAN port,2-UTP User ports,-48VDC	RAD DATA COMMUNICATI
DS1850040000	VMUX-110/48/4FXS/ETH-UTP	VMUX compression mux,4FXS ports,1-UTP WAN port,2-UTP User ports,-48VDC	RAD DATA COMMUNICATI
DS1850050000	VMUX-110/AC/4FXS/ETH-UTP	VMUX voice compression multiplexor with 4 FXS voice outputs	RAD DATA COMMUNICATI
DS1850060000	VMUX-110/AC/T1/24/ETH-UTP	VMUX compressed voice gateway AC POWER, 1 T1 -24 DS0	RAD DATA COMMUNICATI
DS1850300000	VMUX-110/AC/4FXO/ETH-UTP	VMUX compressed voice gateway AC POWER, 4 FXO CHANNELS	RAD DATA COMMUNICATI
DS1850310000	VMUX-110/AC/4E&M/ETH-UTP	VMUX compressed voice gateway AC POWER, 4 E&M CHANNELS	RAD DATA COMMUNICATI
DS1850320000	VMUX-110/AC/8FXS/ETH-UTP	VMUX compressed voice gateway AC POWER, 8 FXS CHANNELS	RAD DATA COMMUNICATI
DS1850330000	VMUX-110/AC/8FXO/ETH-UTP	VMUX compressed voice gateway AC POWER, 8 FXO CHANNELS	RAD DATA COMMUNICATI
DS1850340000	VMUX-110/AC/8E&M/ETH-UTP	VMUX COMPRESSED VOICE GATEWAY AC POWER, 8 E&M CHANNELS	RAD DATA COMMUNICATI
DS1873AW	1873-AW	OPEN END WRENCH FOR 1873 EZFIT CONNECTORS, 2-3/8 IN OPENING	COMMSCOPE TECHNOLOGI
DS1890096	1890096	KIT,SPILL CONTAINMENT,FOR SLD BAT/CAB,28INX30IN,HAWK	ALPHA TECHNOLOGIES L
DS18922410	189-224-10	BATT HTR MAT,120V 55W,D TYPE,8X13 INCH	ALPHA TECHNOLOGIES L
DS1900160000	RM-17	RM-17: RACK MOUNT KIT	RAD DATA COMMUNICATI

DS1900490000	RM-34	RM-34 RACK MOUNT FOR 19 INCH 1U PRODUCTS	RAD DATA COMMUNICATI
DS1900540000	RM-35/P1	RM-35/P1 RACK MOUNT KIT FOR 1/2 19 INCH, 1 DEVICE PER SHELF	RAD DATA COMMUNICATI
DS1900550000	RM35/P2	RM35/P2 RACK MOUNT KIT FOR 1/2 19 INCH, 2 DEVICE PER SHELF	RAD DATA COMMUNICATI
DS1900640000	RM-33-2	RM-33-2: RACK MOUNT KIT FOR ONE OR TWO UNITS	RAD DATA COMMUNICATI
DS190DZ	190DZ	190DZ CONNECTOR EW90 SPICE ASSEMBLY	COMMSCOPE TECHNOLOGI
DS190SE	190SE	190SE EW90-CPR90G STEP-TUNED CONNECTOR	COMMSCOPE TECHNOLOGI
DS190SEM	190SEM	190SEM EW90-PDR100 STEP-TUNED CONNECTOR	COMMSCOPE TECHNOLOGI
DS1930270000	CBL-AIRMUX-UTP/25	AIRMUX CAT5, ODU-IDU/POE CABLE, 25 METERS, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1960150000	ETX-1/AC/2SFP/4UTP/H	ETX-1 ETH DEMARC SWITCH, AC, 2 EMPTY SFP SLOTS, 4 UTP PORTS,HARDENED	RAD DATA COMMUNICATI
DS1990640000	CBL-AIRMUX-UTP/75	AIRMUX CAT5, ODU-IDU/POE CABLE, 75 METERS, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1990720000	CBL-AIRMUX-UTP/100	AIRMUX CAT5, ODU-IDU/POE CABLE, 100 METERS,ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1990730000	CBL-AIRMUX-UTP/50	AIRMUX CAT5, ODU-IDU/POE CABLE, 50 METERS, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1992800000	AIRMUX-MHS-KIT	AIRMUX MHS KIT: PATCH PANEL 8XRJ45 Y-CONN & CABLE FOR MHS CONFIG	RAD DATA COMMUNICATI
DS1993430000	AIRMUX-HSSU	AIRMUX HSS UNIT TO CONNECT 8 COLLOCATED ODUS & 2 ADDITIONAL HSS UNITS	RAD DATA COMMUNICATI
DS1993460000	CBL-AIRMUX-HSS/5	AIRMUX HSS CABLE, 5M, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1993470000	CBL-AIRMUX-HSS/15	AIRMUX HSS CABLE, 15M, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1993480000	CBL-AIRMUX-HSS/50	AIRMUX HSS CABLE, 50M, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1993490000	CBL-AIRMUX-HSS/100	AIRMUX HSS CABLE, 100M, ASSEMBLED W/RJ45 CONNECTORS	RAD DATA COMMUNICATI
DS1R482000E3	1R482000E3	RECTIFIER, ESURE, 2000W, 1U -48VDC	EMERSON NETWORK POWE
DS1R483500E	1R483500E	RECTIFIER, ESURE, 3500W, -48VDC	EMERSON NETWORK POWE
DS1USHL012	1USHL012	STANDARD RACK MOUNT SHELF FOR RELAY RACKS	ANIXTER INC
DS20001029	2000-1029	BATTERY CHARGER, NIMH W/UNIVERSAL PS - NOT AVAILABLE FOR JAPAN END-USE	ANRITSU COMPANY
DS20001374	2000-1374	DUAL BATTERY CHARGER, LI-ION WITH UNIVERSAL POWER SUPPLY	ANRITSU COMPANY
DS20001411R	2000-1411-R	PORTABLE YAGI ANTENNA, 10 DBD, N(F), 824 MHZ ? 896 MHZ	ANRITSU COMPANY
DS20001528R	2000-1528-R	ANRITSU MAGNET MOUNT GPS ANTENNA AND CABLE	ANRITSU COMPANY
DS20001715R	2000-1715-R	DIRECTIONAL ANTENNA, 698 MHZ ? 2500 MHZ, N(F), GAIN OF 2 DBI ? 10 DBI	ANRITSU COMPANY
DS20001736R	2000-1736-R	BANDPASS FILTER, 815-850 MHZ, 50OHM, TYPE N-M AND N-F	ANRITSU COMPANY
DS20001742R	2000-1742-R	BANDPASS FILTER, 832-862 MHZ, 50OHM, TYPE N-M AND N-F	ANRITSU COMPANY
DS200928	200928	PB-XX/XXX-20 BATTERY RACK, 23 INCH 7 FT RACK	ELTEK INC
DS201193G1L	201193G1L	RACKMOUNT RAIL MOUNTING KIT FOR 4-POST CABINETS, FIXED	CELL MANAGEMENT SYST
DS201986	201986	KIT 23IN MOUNTING FOR 19IN 1U	ELTEK INC
DS2020680000	SF1/48VDC/1UTP/2RS232/LTEVZ	RUGGEDIZED SCADA-AWARE GATEWAY, 48 VDC (18-60 VDC)	RAD DATA COMMUNICATI
DS20295101	202951-01	AUDIO BREAKOUT BOX FOR KENWOOD AUTOTUNE	FREEDOM COMMUNICATIO
DS2046732	204673-2	WALL/ROOF FEED THRU PLATE, ONE 4" ENTRY, 5' X 5"	COMMSCOPE TECHNOLOGI
DS2046736	204673-6	204673-6 FEED THRU PLATE, 6 PORT ENTRANCE PANEL, 2 X 3	COMMSCOPE TECHNOLOGI
DS204919	204919	EW90 FLARING TOOL	COMMSCOPE TECHNOLOGI
DS205131	205131	48V 1105AH DDM85-27 BATTERY SET	ELTEK INC
DS205643	205643	TEMP. SENSE CABLE 10 FOOT NO LUG	ELTEK INC
DS206039	206039	BATTERY, 48V1105AH BATT DDM85-27 3WX8H STACK	ELTEK INC
DS206706A6	206706A-6	UNIVERSAL SNAP-IN HANGER FOR 5/8 IN CORRUGATED COAXIAL CABLE - PKG 10	COMMSCOPE TECHNOLOGI
DS2086381447	2086381447	NEWTON 14 SPACE X1-3/4X19IN EQUIPMENT RACK TO 23IN RACK ADAPTER-BLACK	ANIXTER INC
DS20980015B	209800-15B	1/2" RADIAX HANGER KIT 100 PCS BLACK	COMMSCOPE TECHNOLOGI
DS20980025B	209800-25B	7/8" RADIAX HANGER KIT 50 PCS BLACK	COMMSCOPE TECHNOLOGI

DS20980047B	209800-47B	1 15/8" RADIAX HANGER KIT 25 PCS BLACK	COMMSCOPE TECHNOLOGI
DS210480	210480	CONNECTOR, POWER AC INPUT	ELTEK INC
DS211GTANKUPGA	DS211GTANKUPGA	211 GALLON SUB BASE FUEL TANK OPTION (FOR 35-50KW) ADDER DIESEL GENSET	GENERAC POWER SYSTEM
DS212200	212200	DISTRIBUTION PANEL, 4U BRKR DIST 48V 10A10B CVR BLK	ELTEK INC
DS212278	212278	FUSE PANEL	ELTEK INC
DS212477	212477	PB-XX/XXX-25 BATTERY RACK 23 IN WIDE X 7 FT HIGH SEISMIC RELAY RACK	ELTEK INC
DS212755	212755	KIT 100A BATTERY BREAKER FOR HD BT	ELTEK INC
DS212758	212758	KIT 175A BATTERY BREAKER FOR HD BT	ELTEK INC
DS213293	213293	KIT 125A BATT BRKR FOR HD BT SKU	ELTEK INC
DS214571	214571	INVERTER, 1500W 48VDC 120VAC 60HZ TERMINAL BLOCK CONNECTIONS	ELTEK INC
DS216527	216527	CBMCB: 6A 1POLE IPA FO AIRPAX	ELTEK INC
DS216816	216816	RACK, 23IN W X 6FT H, LOOSE 6 FOOT RACK R-23-6-6 38U ELTEK GRAY	ELTEK INC
DS2170190000	RVP	RV-LIC, RADVIEW LICENSE UNITS	RAD DATA COMMUNICATI
DS217035	217035	BATTERY TRAY KIT 19 INCH HEAVY DUTY	ELTEK INC
DS2170360000	RV-LIC/ENW	RADVIEW LICENSE, 1 ENW POINT	RAD DATA COMMUNICATI
DS2170370000	RV-LIC/ENW/R	RADview license,1 ENW point,redundant license	RAD DATA COMMUNICATI
DS219593	219593	BREAKER DISTRIBUTION PANEL-/+ 24/48, 1U 6/6P	ELTEK INC
DS219595	219595	BRKR 1A 1P CR15 SNAPAK	ELTEK INC
DS219597	219597	BRKR 3A 1P CR15 SNAPAK	ELTEK INC
DS219598	219598	BRKR 5A 1P CR15 SNAPAK	ELTEK INC
DS219600	219600	BRKR 10A 1P CR15 SNAPAK	ELTEK INC
DS219601	219601	BRKR 15A 1P CR15 SNAPAK	ELTEK INC
DS219602	219602	CIRCUIT BREAKER 20A	ELTEK INC
DS219603	219603	BREAKER 25A 1P CR15 SNAPAK	ELTEK INC
DS219604	219604	BREAKER 30A 1P CR15 SNAPAK	ELTEK INC
DS219G	2-19G	#2 AWG THHN, 19 STRAND, GREEN , PER FOOT	HARGER INC
DS220497	220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG	COMMSCOPE TECHNOLOGI
DS220498	220498	1 5/8" GROUNDING KIT, TWO HOLE 1/4" LUG, 60", FIELD CRIMP-ON	COMMSCOPE TECHNOLOGI
DS220878	220878	48V 170AH 12V170F ENERSYS BATT SET	ELTEK INC
DS222007	222007	BATTERY, 48V 1600 AH SET #DDM100-33	ELTEK INC
DS222707	222707	48V 2000AH BATTERY SET #DDM125-33	ELTEK INC
DS222708	222708	BATTERY, 48V 1300AH BATT SET# DDM100-27 3 WIDE X 8 HIGH	ELTEK INC
DS222806	222806	BATTERY, 48V 1000AH DDM100-21 BATT SET 3WX8H	ELTEK INC
DS222865	222865	BATTERY 48V 850AH DDM85-21 BATT SET 4WX6H	ELTEK INC
DS2231584	223158-4	223158-4 STD. GROUNDING KIT FOR 1/4" & 3/8" CABLE	COMMSCOPE TECHNOLOGI
DS223391	223391	DC SYS FP2-48/150A 2B 4L LVBD	ELTEK INC
DS223498	223498	DC POWER SYSTEM FP2-48/600 LVBD, REAR WIRE 672AMP MAX 48V NEGATIVE POL	ELTEK INC
DS223754	223754	48V 200AH BATTERY SET #2DDM50-09	ELTEK INC
DS223882	223882	BATTERY, 48V 510AH 2DDM85-13 BATT SET 6WX4H	ELTEK INC
DS224569	224569	FP2 BATT WIRE 1 125 AMP	ELTEK INC
DS224578	224578	FP2 BATT WIRE #1 200A #1 10FT 1/4	ELTEK INC
DS224589	224589	FP2 BATT WIRE #4 125A #4 1/4 REAR	ELTEK INC
DS224595	224595	BATTERY, FP2 BAT WIRE #2 200A #1 1/4 REAR G1	ELTEK INC

DS224596	224596	FP2 BATT WIRE #3 200A #1 1/4 REAR	ELTEK INC
DS225036	225036	BREAKER PANEL FILLER PLATE	ELTEK INC
DS22504612	2250-461-2 + 3600-070	OP820 REPLACEMENT SURGE CARD AND FUSE	TRANSTECTOR SYSTEMS
DS22504622	2250-462-2	SISM/FUSE REPLACEMENT ASSEMBLIES FOR THE DSOP820B2	TRANSTECTOR SYSTEMS
DS225840	225840	DC POWER SYSTEM, FP2-48/150A 2B 4L LVBD 2AC	ELTEK INC
DS226981	226981	CONVERTER, KIT DCDC CNVTR STNDALONE 3U 48VOUT	ELTEK INC
DS227968	227968	48V 190AH BATT SET # SBS190F	ELTEK INC
DS227970	227970	MOUNTING KIT, 23IN 2U	ELTEK INC
DS228476	228476	BATTERY, 12V 91AH BATT MODULE # SBS C11	ELTEK INC
DS229894	229894	DC POWER SYSTEM FP2-48/150A 6L LVBD, QTY 4 RECTIFIER POSITIONS	ELTEK INC
DS230700	230700	KIT: BATTERY MONITOR 10M G1, BATTERY MONITOR CAN BUS NODE	ELTEK INC
DS230703	230703	CABLE, CAN BUS CABLE RJ45 10METERS LONG	ELTEK INC
DS231302	231302	BATT SET,48V 570AH #6AVR95-13,INTERLOCK	ELTEK INC
DS231705	231705	DC POWER SYSTEM, FP2 -48/19 INCH 2 RU, 4 RECTIFIER POSITIONS SMARTPACK	ELTEK INC
DS232372	232372	DC POWER SYSTEM FLATPACK 2 48/300 LVBD FB SP WEB	ELTEK INC
DS233996	233996	FP2 TEMP SENSE CABLE 5/16 LUG 10M	ELTEK INC
DS234672B21	234672-B21	SLIDING SHELF 100KG/220LBS (GRAPHITE)	CDW DIRECT LLC
DS236408	236408	BLIND PANEL FP2 HE BLACK G1	ELTEK INC
DS237520	237520	DC POWER SYS FP2 48/300 AMP LVBD/LVLD 3BT 23IN RACK MT SEISMIC	ELTEK INC
DS240BPNMCCR	240BPNM-C-CR	240BPNM-C-CR CONNECTOR:CNT-240 N STRAIGHT MALE	COMMSCOPE TECHNOLOGI
DS240PBMCR	240PBM-CR	BNC MALE CONNECTOR FOR CNT-240 CABLE	COMMSCOPE TECHNOLOGI
DS240PMUCR	240PMU-CR	240PMU-CR CONNECTOR: MINI UHF MALE FOR CNT-240 BRAIDED CABLE	COMMSCOPE TECHNOLOGI
DS2410881	241088-1	241088-1 1/2INCH 2 HOLE GROUNDING KIT	COMMSCOPE TECHNOLOGI
DS2410882	241088-2	241088-2 5/8" AND 7/8" 2 HOLE GROUNDING KIT	COMMSCOPE TECHNOLOGI
DS2410884	241088-4	241088-4 1-5/8" 2 HOLE GROUNDING KIT	COMMSCOPE TECHNOLOGI
DS241114500	241114.5	CONVERTER, FP1 24/48 DC/DC, INPUT 19.8-32VDC, OUPUT 55VDC @ 23AMPS	ELTEK INC
DS241114503	241114.503	CONVERTER, FLATPACK DC/DC 48/24 G1	ELTEK INC
DS241115100	241115.1	RECTIFIER, FLATPACK II 48V 2000 W G2	ELTEK INC
DS241115105	241115.105	RECTIFIER, FLATPACK 2 48/2000 HE	ELTEK INC
DS241117130	241117.13	RECTIFIER MINIPACK 48/800 WIR G2	ELTEK INC
DS241119105	241119.105	RECTIFIER, FLATPACK2 48/3000 HE	ELTEK INC
DS241545	241545	241545 1/2IN GROUNDING KIT	COMMSCOPE TECHNOLOGI
DS241560904	241560904	MEDIA_BRAVO MODULE BLANK UNIT PLASTIC COVER	ELTEK INC
DS242100000	242100	SMARTPACK BASIC SLAVE CONTROLLER	ELTEK INC
DS242100118	242100.118	SMARTPACK WEB/SNMP 6+6 G1	ELTEK INC
DS24210040000001	242100.400.00001	COMPACT CONTROLLER -48V LVD STD WEB/SNMP, 3 RELAY CONTACTS	ELTEK INC
DS242100400000006	242100.400.00006	COMPACT +12V NO LVD (BULK) STANDARD	ELTEK INC
DS242100502VC	242100502VC	I/O MONITOR TYPE 2, 6 CONFIGURABLE INPUTS (NO,NC, DIODE MATRIX) 6 FORM	ELTEK INC
DS2430951	243095-1	243095-1 1/2" OR 7/8" CLICKON HARDWARE 3 STACK	COMMSCOPE TECHNOLOGI
DS24309510	243095-10	243095-10 1-1/4" OR 1-5/8" CLICKON HARDWARE 1 STACK	COMMSCOPE TECHNOLOGI
DS2430955	243095-5	243095-5 1/2" OR 7/8" CLICKON HARDWARE, 2 STACK	COMMSCOPE TECHNOLOGI
DS2430959	243095-9	243095-9 1/2" OR 7/8" CLICKON HARDWARE, 1 STACK, KIT OF TEN	COMMSCOPE TECHNOLOGI
DS243684	243684	243684 CLICKON ANGLE ADAPTOR 3/8", KIT OF 10	COMMSCOPE TECHNOLOGI

DS244350	244350	CLICKON CEILING ADAPTOR	COMMSCOPE TECHNOLOGI
DS244377	244377	244377 TORQUE WRENCH 1-1/4" OPENING FOR COUPLING TORQUE OF DIN CONN	COMMSCOPE TECHNOLOGI
DS244379	244379	244379 13/16" TORQUE WRENCH FOR COUPLING TORQUE OF N TYPE CONNECTORS	COMMSCOPE TECHNOLOGI
DS2444597	244459-7	OPEN END WRENCH FOR 2-1/4 IN CONNECTORS, 2-1/4 IN OPENING	COMMSCOPE TECHNOLOGI
DS24488RM	24-48-8RM	DC-DC CONVERTER, RACK-MOUNT, 24-48 VDC @ 8 AMPS	NEWMAR
DS245172	245172	COLD SHRINK 1-5/8 IN OR 1-1/4 IN TO 1/4 IN THROUGH 1/2 IN CON	COMMSCOPE TECHNOLOGI
DS245173	245173	245173 COLD SHRINK WEATHERPROOFKIT, 1/2 TO 1/2	COMMSCOPE TECHNOLOGI
DS245174	245174	245174COLD SHRINK FOR USE WITH 7/8" TO 3/8" AND 1/2" N OR DIN TYPE CONN	COMMSCOPE TECHNOLOGI
DS24531452	245314-52	SINGLE WALL/ROOF FEED THRU ASSEMBLY	COMMSCOPE TECHNOLOGI
DS24552910	245519-10 / QUOTE: 100281659	COMMSCOPE UNIVERSAL CRIMP ON GROUND LUG KIT	COMMSCOPE TECHNOLOGI
DS2456511	245651-1	6MM NYLON PLUG 100 PCS	COMMSCOPE TECHNOLOGI
DS2500520000	CBL-MP-RJ45/CROSS	E1/T1 CAPABLE FOR CONNECTING 2 MP-2100 MAIN LINK MODULES	RAD DATA COMMUNICATI
DS25005745B	250057-45B	ROUND BASE, 45 MM STAND-OFF, FOR RCT RADIAX, BLACK, BOX OF 100	COMMSCOPE TECHNOLOGI
DS250062	250062	MESSENGER WIRE TIE WRAP WITH SPACER FOR RCT RADIAX RADIATING CABLE	COMMSCOPE TECHNOLOGI
DS2501080000	CBL-KVF8/FXOS	MEGAPLEX CABLE FOR CONVERTING FXO/FXS DB-25 TO 8 X RJ-12 CONNECTORS	RAD DATA COMMUNICATI
DS2501760000	CBL-VC16/FXSO	CBL-VC16/FXSO Cable for Megaplex VC-16 FXO&FXS 50 pin Telco to 16 RJ11	RAD DATA COMMUNICATI
DS2501770000	CBL-VC8/FXSO	Megaplex CBL-VC8/FXSO 8 port FXS cable	RAD DATA COMMUNICATI
DS2504020000	CBL-DB9F-DB9M-STR	CBL-DB9 FEMALE TO DB9 MALE STRAIGHT THROUGH	RAD DATA COMMUNICATI
DS2504030000	CBL-G703-8/RJ45-X	CBL-G703-8/RJ45-X : SINGLE AMP PLUG TO 8 RJ45 MALE T1 PORT	RAD DATA COMMUNICATI
DS2504340000	CBL-G703-8/OPEN	ADAPTOR CABLE, 1 DB-44 TO 8 RJ-45 BALANCED , OPEN	RAD DATA COMMUNICATI
DS251088	251088	BATTERY, 12AVR-75 12V EAST PENN	ELTEK INC
DS251507	251507	DC POWER SYSTEM, FP2-48/300- 3BT	ELTEK INC
DS251631	251631	BATTERY, 12V BATTERY 12AHR	ELTEK INC
DS251875	251875	MICROPACK RECTIFIER DUMMY MODULE	ELTEK INC
DS251885	251885	KIT EXTENDERS 300A FP2 SYS NOAH	ELTEK INC
DS252115	252115	SNAP-IN HANGERS FOR 7/8IN DIAMETER CABLE. PACK OF 10.	COMMSCOPE TECHNOLOGI
DS252130	252130	UNIVERSAL STAINLESS STEEL ANGLE ADAPTER 10PK	COMMSCOPE TECHNOLOGI
DS252161	252161	SPILL CONTAINMENT 23IN	ELTEK INC
DS252SE	252SE	EW52-CPR137G FIXED-TUNED CONNECTOR	COMMSCOPE TECHNOLOGI
DS252SEM	252SEM	252SEM FIXED TUNED CONN EW52	COMMSCOPE TECHNOLOGI
DS253120	253120	WIRE HARNESS PWR FOR 506100	ELTEK INC
DS2540370000	RICI-16/16E1/PACK3	RICI-16 ETH OVER BONDED PDH NTU,16 E1 PORTS, SW LIC FOR 16 E1/T1 LINKS	RAD DATA COMMUNICATI
DS2540450000	RICI-16/16T1/PACK3	RICI-16 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS	RAD DATA COMMUNICATI
DS2540460000	RICI-16/16T1/PACK3/EVPL	RICI-16 ETHOTDM, 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS, EVPL	RAD DATA COMMUNICATI
DS2540690000	RICI-16/4T1	RICI-16 - 4 T1 PORTS, 4 T1 TO ETHERNET CONVERTER	RAD DATA COMMUNICATI
DS2540730000	RICI-16/8T1	RICI-16- 8 T1 PORTS, 8 T1 TO ETHERNET CONVERTER	RAD DATA COMMUNICATI
DS2540860000	2540860000	RAD ETX-204A CARRIER ETH DEMARCATION DEVICE,DUAL ACPS,4 ETH USER PORTS	RAD DATA COMMUNICATI
DS2541130000	RICI-16/16T1/PACK3/R	RICI-16- 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS RED POWER SUPPLY	RAD DATA COMMUNICATI
DS2541190000	RICI-16-PS	RICI-16 WIDE-RANGE POWER SUPPLY MODULE	RAD DATA COMMUNICATI
DS2541340000	RICI-16/2T3	RICI-16 FAST ETHERNET TO T3 (WAN) CONVERTER	RAD DATA COMMUNICATI
DS2541460000	RICI-16/4T1/R/H	RICI-16 ETH O/ BONDED PDH NTU, 4 T1 PORTS, REDUNDANT PS, HARDENED	RAD DATA COMMUNICATI
DS2541660000	RICI-16/2T3/R	RICI-16 FAST ETHERNET TO T3 (WAN) CONVERTER - REDUNDANT POWER	RAD DATA COMMUNICATI
DS2542010000	RICI-16/16T1/PACK3/EVPL/R/H	RICI-16 ETHOTDM, 16 T1,LIC FOR 16 E1/T1,EVPL, RED POWER, HARDENED	RAD DATA COMMUNICATI

DS2542090000	RICI-16/4T1/R	RICI-16 ETHOTDM, 4 T1, DUAL POWER SUPPLY	RAD DATA COMMUNICATI
DS2542120000	RICI-16/8T1/R	RICI-16 - ETHOTDM 8 T1 PORTS, REDUNDANT POWER SUPPLY	RAD DATA COMMUNICATI
DS2542130000	RICI-16/16T1/PACK3/R/H	RICI-16 ETHOTDM, 16 T1,SW LIC FOR 16 E1/T1,RED POWER ,HARDENED	RAD DATA COMMUNICATI
DS2543350000	RICI-16/8T1/R/H	RICI-16 ETH O/ BONDED PDH NTU, 8 T1 PORTS, REDUNDANT PS, HARDENED	RAD DATA COMMUNICATI
DS255589	255589	DC SYSTEM FP2 -48/300 LVBD 4BT	ELTEK INC
DS256181	256181	DC SYS FP2-48/600- 2BD & SPW/WEB	ELTEK INC
DS257395	257395	DC SYS FP2-48/600A 3DIST 23IN 4BT	ELTEK INC
DS257693	257693	DC POWER SYSTEM FP2-48/600 LVBD, RACKED	ELTEK INC
DS259243	259243	BATTERY TRAY 19" H-DUTY 100 AMP CB	ELTEK INC
DS259244	259244	KIT, BATT TRAY 19 INCH H-DUTY 175 AMP CB	ELTEK INC
DS259363	259363	DC SYSTEM FP2 48/300 BD LD	ELTEK INC
DS259620	259620	DC POWER SYSTEM, FP2 -48 300 LVBD FB AB 118	ELTEK INC
DS259723	259723	DC POWER SYS, FP2 SYSTEM / REAR WIRE 600AMP MAX, 23 IN RM -48V 2 BATT	ELTEK INC
DS25CD6ODDL	C25D6 25KW DSL, OD HSG	GENERATOR, 25KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	CUMMINS NPOWER LLC
DS25CN6SANG	C25N6 25KW NG, SA HSG	GENERATOR, 25KW NAT GAS, 120/240V SOUND ATTENUATED HOUSING	CUMMINS NPOWER LLC
DS25E	25E	25W ELEMENT 400-1000 MHZ	BIRD ELECTRONIC CORP
DS25PP3L3180180	25PP3L3-180/180	3FT TELCO CAT 3 NON-PLENUM M180/M180 DEGREE (25 PAIR)	GRAYBAR ELECTRIC CO
DS25PP4L3180180	25PP4L3-180/180	4FT TELCO CAT 3 NON-PLENUM M180/M180 DEGREE (25 PAIR)	GRAYBAR ELECTRIC CO
DS25PP50L3	25PP50L3	50FT TELCO CAT 3 NON-PLENUM M/M 90 DEGREE (25 PAIR)	GRAYBAR ELECTRIC CO
DS25PP60L3	GB #: 25418832/ MFG: 25PP60L3	60FT TELCO M/M 90 DEGREE (25 PAIR)	GRAYBAR ELECTRIC CO
DS25TME	25-T-ME	25 W LOAD TERMINATION MALE 7/16 DIN CONNECTOR	BIRD ELECTRONIC CORP
DS26090A	26090A	TIE WIRE 1 PIECE	COMMSCOPE TECHNOLOGI
DS264122	264122	BATTERY, 48V 2000AH BATTERY SET #24DDM125-33 6WX4H CONFIGURATION	ELTEK INC
DS264609	264609	RETROFIT KIT SMPS 4000 G1	ELTEK INC
DS264814	264814	BATT KIT ENERSYS 12V190F 48V 1BANK	ELTEK INC
DS264964	264964	BATTERY, ENERSYS 24V STRING SBS B14F	ELTEK INC
DS265504	265504	ESI SERIES INVERTER, 48VDC INPUT, 120VAC OUTPUT, 2KVA/1600W	ELTEK INC
DS265539	265539	INVERTER, 2KVA, 48VDCIN/120VACOUT 2RU RM 19/23 INCH	ELTEK INC
DS265540	265540	DC SYS FP2-48/300- 1BT 294AMP MAX	ELTEK INC
DS266090	266090	KIT BD-800 23IN 4U KONE GRAY	ELTEK INC
DS266198	266198	DC POWER SYSTEM, FP2 -48/300 BD LD 2BT	ELTEK INC
DS267782	267782	125A 2P BREAKER KIT INCLUDES: BUS PAD KIT FOR 2P BREAKERS	ELTEK INC
DS267783	267783	150A 2P BREAKER KIT INCLUDES: BUS PAD KIT FOR 2P BREAKERS	ELTEK INC
DS267784	267784	BREAKER KIT, 175A 2P	ELTEK INC
DS267785	267785	BREAKER KIT 200 AMP 3P	ELTEK INC
DS267786	267786	250A 3P BREAKER KIT INCLUDES: BUS PAD KIT FOR 3P BREAKERS	ELTEK INC
DS268132	268132	INVERTER, 1 KVA, 48VDCIN/120VACOUT 2RU RM 19/23 INCH, DELTA	ELTEK INC
DS268655	268655	48V 170AH 12V170FS ENERSYS BATT SET	ELTEK INC
DS268682	268682	CONVERTER, 48V TO 12V, 15A	ELTEK INC
DS268736	268736	DC SYS FP2-48/600 4AC LVLD LVBD 2BD	ELTEK INC
DS269173	269173	BREAKER KIT, 150A 2P TWO POLE	ELTEK INC
DS269175	269175	BREAKER KIT, 200A 3P	ELTEK INC
DS269376	269376	DC POWER SYSTEM, FLATPACK2 48/300 LVBD 2BT 23IN	ELTEK INC

DS270230	270230	AEON GOLD CONTROLLER RETROFIT KIT	ELTEK INC
DS270473	270473	DC POWER SYSTEM FP2-48/600A 23IN 4BT 672AMP 23 IN RACK MOUNT SEISMIC	ELTEK INC
DS270642	270642	KIT 200A BATTERY BREAKER FOR HD BT	ELTEK INC
DS270690	270690	BATTERY, 12AVR30 30AH 48V BATTERY	ELTEK INC
DS270782	270782	MICROSHELF, 4 POS, LVBD,1DIST (4L1) QTY 4 RECTIFIER POSITIONS	ELTEK INC
DS27103302000	271-03302-000	CURRENT SENSOR EXELTECH	ELTEK INC
DS271181	271181	DC POWER SYSTEM, FP2-48/300 4BT 19 LVB LVL	ELTEK INC
DS272105	272105 / MFG: 272105	RF / COAXIAL CONNECTOR, 7/16 COAXIAL, STRAIGHT PLUG, CRIMP, 50 OHM	ANIXTER INC
DS2730080000	IPMUX-1E/AC/4E&M/MM-LC	IPMUX-1E TDMoIP GW, AC, 4 E&M, 100 Bfx MM. Eth.	RAD DATA COMMUNICATI
DS273279	273279	DC SYS FP2-48/600A 3DIST 23IN 3BT8U	ELTEK INC
DS274718	274718	BATTERY, 48V 510AH 2DDM85-13 BATT SET 4WX6H	ELTEK INC
DS2750020000	RICI-T1	RICI-T1 ETH OVER T1, FRAMED T1, 1 UTP PORT,WIDE-RANGE AC ORDC	RAD DATA COMMUNICATI
DS2750050000	RICI-T1/H	RICI-T1 FAST ETHERNET TO T1 W/ EXTENDED TEMPERATURE RANGE	RAD DATA COMMUNICATI
DS275838	275838	INVERTER, BULK OUTPUT, 120V, 48V S33A33E0202EC0TN0001	ELTEK INC
DS280700	280700	DC SYSTEM FP2 -48/300 BD 19 2BT	ELTEK INC
DS281381	281381	DC POWER SYSTEM FP215 -48/300 LDBD 23 4BT, 294AMP MAX	ELTEK INC
DS281577	281577	ONE 19" BATTERY BOX, 3RU, FOR LVBD MODULE, W/BATTERY CABLES	ELTEK INC
DS281875	281875	MICROPACK DUMMY MODULE G1	ELTEK INC
DS282568	BELDEN/CDT FP3LDS003M	BELDEN/CDT FP3LDS003M, 2-F JUMPER OM3 LCD/PC-SCD/PC,OFNR 2.0MM ZIPCOR	ANIXTER INC
DS284614	284614	BATTERY KIT ENERSYS 12V190F 48V 1BANK	ELTEK INC
DS288569	288569	SINGLE PHASE 120VAC 4.5K/6K-5U	ELTEK INC
DS288570	288570	SINGLE PHASE 120VAC 6K/6K-5U	ELTEK INC
DS288760	288760	DC POWER SYSTEM, FP2-48/150A 2B 4L LVBD 1BT	ELTEK INC
DS289734	289734	BATTERY, 48V 38AH BATT SET 4X12V38FT	ELTEK INC
DS2908	9D2604-SHLD/5E-09 / 2908	1000FT REEL/ 4PR 7/34 TC PO PVC SHIELDED ISO 11801CLASS D	ANIXTER INC
DS291407	291407	BATTERY, 48V 1600AH BATTERY SET #DDM100-33	ELTEK INC
DS291959	291959	BDFB 2F,6P,G, TOP,A 7 FT, 6 PANEL, TOP FEED W/ SMARTPACK2 CONTROLLER	ELTEK INC
DS294426	294426	BATTERY, 48V BATT SET DDM85-21 3WX8H TOP	ELTEK INC
DS294541	294541	CBM CB:HVMAG=20A 65VDC 1KA LOAD 1U	ELTEK INC
DS294698	294698	7/8 INCH ROUND CUSHION 2 HOLE	COMMSCOPE TECHNOLOGI
DS294803	294803	DC POWER SYSTEM FP2-48/150 1BT 19IN	ELTEK INC
DS2950050000	OP-M/CX/45	OP-45 Electrical COAX main link module for OP-45 OP-45L, 45 Mbps (T3)	RAD DATA COMMUNICATI
DS2960080000	ASMI-52/T1/2W	ASMI SHDSL MODEM, T1 2 WIRE	RAD DATA COMMUNICATI
DS297415	297415	KIT: MICROPACK SEISMIC ADD ON 23IN	ELTEK INC
DS297921	297921	INTERCONNECT HARDWARE FOR 12AVR30 BATTERY	ELTEK INC
DS298510	298510	INVERTER, 1 KVA, 24VDCIN/120VACOUT 2RU RM 19/23 INCH	ELTEK INC
DS299235	299235	DC POWER SYSTEM, FP2 23IN RACK MOUNTED 1344 AMP -48V DUAL AC INPUT	ELTEK INC
DS29958	29958	HOISTING GRIP	COMMSCOPE TECHNOLOGI
DS29USTAND	2-9USTAND	UPRIGHT TOWER CONVERSION KIT FOR 2URM TO 9URM RACKMOUNT UPS	TRIPP LITE MANUFACTU
DS2AMFN03	2-A-MFN-03	BIRD T. 2W,3DB, 4G MALE N TO FEMALE N CONNECTOR COAXIAL ATTENUATOR	BIRD ELECTRONIC CORP
DS2AMFN06	2-A-MFN-06	BIRD T. 2W,6DB, 4G MALE N TO FEMALE N CONNECTOR COAXIAL ATTENUATOR	BIRD ELECTRONIC CORP
DS2AMFN09	2-A-MFN-09	BIRD T. 2W,9DB, 4G MALE N TO FEMALE N CONNECTOR COAXIAL ATTENUATOR	BIRD ELECTRONIC CORP
DS2AMFN10	2AMFN10	ATTNUTR, 2W, 10DB, N(M) TO N(F) DC -4.0 GHZ	BIRD ELECTRONIC CORP

DS2AMFN12	2-A-MFN-12	BIRD T. 2W,12DB, 4G MALE N TO FEMALE N CONNECTOR COAXIAL ATTENUATOR	BIRD ELECTRONIC CORP
DS2AMFN20	2AMFN20	ATTNUTR, 2W, 20DB, N(M) TO N(F) DC -4.0 GHZ	BIRD ELECTRONIC CORP
DS2AMFN30	2AMFN30	ATTENUATOR 2W, M/F N CONNECTOR, 30 DB	BIRD ELECTRONIC CORP
DS2IL2923600	2IL-292/3600	300 FEET PLENUM RATED CABLE ASSEMBLY WITH DEUTSCH CONNECOTRS	ANIXTER INC
DS2L5202UP	2L-5202UP	ATEN PS/2 TO USB INTELLIGENT KVM	CDW DIRECT LLC
DS2POST4UKIT	2POST-4UKIT	4U 2 POST CONVERSION KIT	ANIXTER INC
DS2POST7UKIT	2POST7UKIT	2POST 7U KIT - RACK SOLUTIONS	CDW DIRECT LLC
DS2POSTRMKITWM	2POSTRMKITWM	HORIZONTAL MTG RAILS FOR 2 POST RM INSTALLATION, TRIPP LITE	TRIPP LITE MANUFACTU
DS2UKVM125217V	2UKVM-125-2-17	RACK SOLUTIONS 17 IN. MONITOR & KEYBOARD W/ 2 POST RACK MOUNT	GRAYBAR ELECTRIC CO
DS2UTELECOMRKIT	2UTELECOMRKIT	RACKMOUNT KIT FOR GXT3 450W THRU 2700W UPS, 2 POST 19 IN	CELL MANAGEMENT SYST
DS2WJC12170	2WJC12170	BATTERY 24V, INCLUDES (2) 12V BATTERIES AND (1) STRAP	WELDY LAMONT GROUP I
DS30009403001	30009403001	IF CABLE FOR CMU AND IRFU	CAMBIUM NETWORKS LIM
DS30009404001	30009404001	FLEXIBLE TWIST, WR137, PDR70, LENGTH: 12.0 INCH, CPR137G, 5.725 - 6.42	CAMBIUM NETWORKS LIM
DS30009404004	30009404004	FLEXIBLE TWIST, WR137, PDR70, LENGTH: 12.0 INCH, CPR137G, 6.425 - 7.12	CAMBIUM NETWORKS LIM
DS30009406002	30009406002	N-TO-N CABLE (16")	CAMBIUM NETWORKS LIM
DS30009407001	30009407001	FLEXIBLE TWIST, WR90, PDR100, LENGTH: 12.0 INCH, CPR90G, 10.7 - 11.7 /	CAMBIUM NETWORKS LIM
DS30010194001	30010194001	50 OHM BRAIDED COAXIAL CABLE - 75 METER	CAMBIUM NETWORKS LIM
DS30010195001	30010195001	50 OHM BRAIDED COAXIAL CABLE - 500 METER	CAMBIUM NETWORKS LIM
DS300GLDSLUPGONA	DS300GLDSLUPGONA	UPSIZE STD 24 HOUR RUNTIME DIESEL SUB-BASE TANK TO 300 GAL TANK	CUMMINS NPOWER LLC
DS300GTANKUPGA	DS300GTANKUPGA	300 GALLON SUB BASE FUEL TANK OPTION (FOR 35-50KW) ADDER DIESEL GENSET	GENERAC POWER SYSTEM
DS300TFN	300-T-FN	300-T SERIES 300 WATT - CONVECTION-COOLED DRY TERMINATION	BIRD ELECTRONIC CORP
DS30162703	30162-703	CHATSWORTH CCS VERTICAL CABLE MGR 7.0 FT	ANIXTER INC
DS30162705	30162-705	CHATSWORTH CCS VERTICAL CABLE MGR 7.5 FT	ANIXTER INC
DS302293	302293	BATTERY, 48V BATT STRING 12V30F 31AH	ELTEK INC
DS302327	302327	DIN RAIL MOUNTED GMT10X DISTRIBUTION ?48V, ?24V, ?12V 100AMPS MAX	ELTEK INC
DS302732	302732	BATTERY 48V STRING OF SBS B14F	ELTEK INC
DS304069	304069	BATTERY, ENERSYS SBS B14F, 12V (PURE LEAD VERSION OF 16V62F)	ELTEK INC
DS305150	305150	BATTERY, 48V 46AH BATT 12HX205FR	ELTEK INC
DS305153	305153	BATTERY, 48V 72AH BATT 12HX300FR	ELTEK INC
DS305157	305157	BATTERY, 12V 96AH BATT 12HX400FR	ELTEK INC
DS305162	305162	BATTERY, 48V 120AH BATT 12HX505FR	ELTEK INC
DS305827	305827	FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	ELTEK INC
DS305841	305841	DC PWR SYS, FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD & LVLD	ELTEK INC
DS308634	308634	DC POWER SYSTEM FP2-48/1200 2DIST 23IN CONV	ELTEK INC
DS30C87465225FT	30C87465-225FT	225FT OUTDOOR UV PROTECTED CABLE 6PR 22AWG DB15 ASSEMBLY	ANIXTER INC
DS30C87465CO2	30C87465CO2	350' OUTDOOR UV PROTECTED CABLE 6 PR, 22AWG DB15	ANIXTER INC
DS3129A1000016	3129A100-001-6	SHELF ASSEMBLY	BIRD ELECTRONIC CORP
DS313948	313948	DC POWER SYSTEM FP2-48/600 LVBD CONV	ELTEK INC
DS314374	314374 / MFG: 0040620230	NEWTON 0040620230 (3 7/16H X 13 1/2D X 18 5/16W INCHES) RK MOUNT SHELF	ANIXTER INC
DS314603SYS1	314603SYS1	DC POWER SYSTEM, FP2 450A 19 IN RACKED POWER SYSTEM 48V	ELTEK INC
DS317695	31769-5	31769-5, 3/8" HARDWARE KIT, QTY 10	COMMSCOPE TECHNOLOGI
DS317714	31771-4	ROD SUPPORT KIT 12" 5 PCS	COMMSCOPE TECHNOLOGI
DS317716	31771-6	31771-6 ROD SUPPORT KIT 24IN	COMMSCOPE TECHNOLOGI

DS320477SYS1	299199	DC POWER SYSTEM, FP2-48/600- 2BD450A SPW/WEB	ELTEK INC
DS320778SYS1	320778SYS1	DC POWER SYSTEM FP2 -48/1200A 2DIST 23IN 2BD 32 RECTIFIER POSITIONS	ELTEK INC
DS321215	32-12-15	DC-DC CONVERTER, 20-50VDC INPUT, 13.6VDC OUTPUT @ 15A	NEWMAR
DS321632	321632	BREAKER KIT 150AMP 2P, E-TRIP, 5/16 BULLET	ELTEK INC
DS321636	321636	"BREAKER 200A KIT, 2P, E-TRIP, 5/16 BULLET	ELTEK INC
DS321638	321638	BREAKER 250A KIT, 3P, E-TRIP, 5/16 BULLET, INCL 3 POLE ADAPTOR	ELTEK INC
DS322450	32-24-50	CONVERTER, DC CONVERTER 32-24-50	NEWMAR
DS323026INV1	323026INV1	INVERTER, 48V 4KW REDUNDANT, MODEL # 2AX00BC5P-4600	ELTEK INC
DS323543	323543	DC-DC FP2 1U CONVERTER SYSTEM 24V 4050W	ELTEK INC
DS323544	323544	DC-DC FP2 1U CONVERTER, FP218 PWRCR -48/75 7-0 19IN	ELTEK INC
DS323545	323545	DC-DC FP2 2U CONVERTER SYSTEM 24V 9450W	ELTEK INC
DS323886	323886	ECOTOWER FP2 3KW RECTIFIER BASE, -48V/1200A OUTPUT EPS-S01-A01-B21-D5-	ELTEK INC
DS326360SYS1	326360SYS1	DC POWER SYSTEM, FP2-48/600A 23IN 3BT4AC	ELTEK INC
DS326676	326676	INVERTER CE+T MIPS-48-2-40-00-16 (16 INVERTER POSITIONS) 2 DC INPUT	ELTEK INC
DS326769SYS2	326769SYS2	DC POWER SYSTEM, FP2 1200A 48B 4TPL 23INCH	ELTEK INC
DS327061	327061	DC PWR SYS FP2 REAR WIRE 168AMP -48V 19IN DUAL AC INPUT (4) RECTIFIER	ELTEK INC
DS328489BATT1	328489BATT1	BATTERY, TEL12-180F 48V STRING 181 AH	ELTEK INC
DS328489INV1	328489INV1/TD2548120-2-1-1	BENNING 12.5KVA INVERTER SYSTEM	ELTEK INC
DS328489INVMOD1	328489INVMOD1/120336	BENNING 2.5KVA INVERTER	ELTEK INC
DS328877BATT1	328877BATT1	BATTERY, TEL12-180F 48V STRING 181 AH	ELTEK INC
DS328877INV1	328877INV1/TD2548120-2-1-1	BENNING 12.5KVA INVERTER SYSTEM	ELTEK INC
DS328877INVMOD1	328877INVMOD1/120336	BENNING 2.5KVA INVERTER	ELTEK INC
DS329188INV1	329188INV1	INVERTER, 71-155500-00: AC HOUSING TOP	ELTEK INC
DS329188INV2	329188INV2	INVERTER, 71-155500-01: AC HOUSING SUPPORT	ELTEK INC
DS329188INV3	329188INV3	INVERTER, S5-PARA: S5 PARALLELING KIT	ELTEK INC
DS329237INV1	DS329237INV1	INVERTER, 2KW N+1 INVERTER; 48VDC INPUT, 120VAC/60HZ W/SNMP V1	ELTEK INC
DS329237INV1MI	DS329237INV1	INVERTER, 2KW N+1 INVERTER; 48VDC INPUT, 120VAC/60HZ W/SNMP V1	ELTEK INC
DS329436SYS1	DS329436SYS1	DC POWER SYSTEM FP2 -48/300 BD 19 1BT DC-DC W/ 2 CONVERTERS	ELTEK INC
DS329440INV1	329440INV1	INVERTER 24VDC/120VAC 1000VA 1725-24-120-60-P	ELTEK INC
DS329514BAT1	329514BAT1	BATTERY, GNB 48V 90G15 608 AH	ELTEK INC
DS329927BAT1	329927BAT1	BATTERY, GNB M12V90 TOP TERMINAL 48V STRING	ELTEK INC
DS330460	330460	INVERTER, TSI-Y-ONE-REG-48VDC-120VAC-500VA-UL (DC INPUT ONLY)2-RECEPT	ELTEK INC
DS330461	330461	TSI-Y-ONE-EPC-48VDC-120VAC-500VA-UL	ELTEK INC
DS331007	331007	MEDIA INVERTER 2I 1PH W/NEMA SOCKET 48VDC/120VAC	ELTEK INC
DS331033SYS1	331033SYS1	DC POWER SYSTEM FP2 48V 300A 24V LVBD 2BT 23 INCH	ELTEK INC
DS331400	331400	DIN RAIL MOUNTING PANEL, 19IN WIDE, 4RU HIGH SEISMIC	ELTEK INC
DS331765SYS1	331765SYS1	DC POWER SYSTEM, FP2 48V 300A 2BT CABINET	ELTEK INC
DS331767SYS1	331767SYS1	DC POWER SYSTEM, FP2-48/300 LVBD 2BT 19 6FT	ELTEK INC
DS332052BATRACK1	332052BATRACK1	BATTERY RACK 19 INCH 4BT	ELTEK INC
DS332105INV1	332105	50KVA MAX STANDARD RELAY RACK	ELTEK INC
DS3322050000	OP-45B/28X/48/R/SC13/D	OP-45 45 MBPS OP MULTIPLEX, RING, 28T1/21E1, RJ45, REDUN, MM fiber	RAD DATA COMMUNICATI
DS3322670000	OP-45B/28X/AC/R/ST13/D	Optimux-45 -45 MBPS OPT. MULTIPLEX RING, 28T1, 21E1,RJ45,REDUNDANT	RAD DATA COMMUNICATI
DS3322710000	OP-45B/28X/AC/R/SC/SF1/D	Optimux-45 -45 MBPS,OPT,MULTIPLEX,RING, 28T1/21E1, RJ45 ,RED	RAD DATA COMMUNICATI

DS3322720000	OP-45B/28X/AC/R/SC/SF2/D	Optimux-45 45 MBPS OPT MULTIPLEX RING, 28T1/21E1, RJ45, RED	RAD DATA COMMUNICATI
DS3322750000	OP-45B/28X/48/R/SC13L/D	OP-45 45 MBPS FIBER MUX, RING, 28T1/21E1, RJ45, REDUN, SM fiber	RAD DATA COMMUNICATI
DS3323050000	OP-45B/28X/AC/R/SC13/D	Optimux-45 45 MBPS OPT MULIPLE RINGS 28T1/21E1, RJ45 REDUNDancy	RAD DATA COMMUNICATI
DS3323320000	OP-45B/28X/AC/R/FC13L/D	OPTIMUX-45 with RING 28 T1, 21 E1, RNDT POWER DUAL LINK	RAD DATA COMMUNICATI
DS3323530000	OP-45B/28X/AC/R/SC13L	OPTIMUX-45 -45MBPS OPT. MULTIPLEX ,28T1/21E1,RJ45,REDUNDANT	RAD DATA COMMUNICATI
DS3323550000	OP-45B/28X/AC/R/FC13LH/D	Optimux-45 45Mbps Optical Mux, Ring, Bal. 28T1/21E1, RJ45 user	RAD DATA COMMUNICATI
DS3323830000	OP-45B/28X/AC/SC13L	Optimux-45 -BALANCED, 28T1 21E1 INTERFACE, AC, 1310NM SINGLE MODE LASER	RAD DATA COMMUNICATI
DS3324190000	OP-45B/28X/AC/R/SC13LD	OP-45 T3 FIBER MUX, RED AC, DUAL FIBER LINK SC CONN 1310NM LASER	RAD DATA COMMUNICATI
DS332481SYS1	332481SYS1	DC POWER SYSTEM, 48V ECOTOWER SEISMIC CSO# 2269598	ELTEK INC
DS332793INVSHELF	332793INVSHELF	SHELF CHASSIS EXELTECH P/N MX2A-*-*-*2	ELTEK INC
DS332793SYSMON	332793SYSMON	SYSTEM MONITOR	ELTEK INC
DS333379SYS1	333379SYS1	DC POWER SYS, FP216 48V/600A 4AC 2BD800 23	ELTEK INC
DS3354433	33544-33	MODULE CONNECTOR	COMMSCOPE TECHNOLOGI
DS3354437	33544-37	REATTACHMENT KIT FOR EW90	COMMSCOPE TECHNOLOGI
DS338029	338029	MPC-1-6-00-04 WITH CANDIS DISPLAY 6KVA MAX; 1.5KVA MIN; 8RU	ELTEK INC
DS338031	338031	MPC-1-12-00-08 WITH CANDIS DISPLAY	ELTEK INC
DS340582	340582	INVERTER, MX 2KW N+1 INVERTER; 48VDC INPUT, 120VAC/60HZ W/SNMP V3	ELTEK INC
DS340582MI	340582	INVERTER, MX 2KW N+1 INVERTER; 48VDC INPUT, 120VAC/60HZ W/SNMP V3	ELTEK INC
DS340701	340701	DC POWER SYSTEM, FP216 300 AMP -48V 19IN	ELTEK INC
DS341103	341103	RMS SINGLE PHASE 120VAC INVERTER RMS-1-6-00-04	ELTEK INC
DS341104	341104	RMS SINGLE PHASE 120VAC INVERTER RMS-1-10-00-07: 12KVA MAX; 1.5KVA MIN	ELTEK INC
DS348435	348435	DC POWER SYSTEM FP2 600 AMP 48V 23 IN RACK MOUNT SEISMIC	ELTEK INC
DS34NFNF50	34NFNF50	PRECISION ADAPTER, DC TO 18 GHZ, 50 OHM N(F)-N(F)	ANRITSU COMPANY
DS3500078	3500-078	15 FOOT COMMERCIAL AC POWER CORD C15 TO NEMA 5-20P	TRANSTECTOR SYSTEMS
DS3500084	3500-084	C15 TO NEMA 5-15P COMMERCIAL GRADE 10FT CORD FOR AC EDGE TO GTR	TRANSTECTOR SYSTEMS
DS350030	350030	23IN X 7FT BATTERY RACK, 4 BATT TRAYS, 4 200A TRAY MOUNT DISCONNECT	ELTEK INC
DS350083900	3500-83900	POWER CORD 1.8 METER BS1 RIGHT ANGLE (FUSED 3A) TO IEC C7	TRANSTECTOR SYSTEMS
DS350090055	3500-90055	PATCH CABLE 2 METER IEC C18 TO C7	TRANSTECTOR SYSTEMS
DS350267	350267	DC POWER SYSTEM, FP2 -48/600A D23C22D07-R6 2BD4, 4 RECIFIER SHELVES	ELTEK INC
DS350349	350349	DC POWER SYSTEM, FP216 -48/600 3 IC32 D07 R6 2BD4 SYS CONFIG REQUEST #	ELTEK INC
DS3550OPT01	3550OPT01	3550OPT01 SPECTRUM ANALYZER OPTION	AEROFLEX WICHITA INC
DS3550OPT02	3550OPT02	3550OPT02 OSCILLOSCOPE OPTION	AEROFLEX WICHITA INC
DS3550OPT13	3550OPT13	3550OPT13 AAR CHANNEL PLAN	AEROFLEX WICHITA INC
DS3550OPT14	3550OPT14	3550OPT14 PRECISION THRU-LINE METER USE WITH WIDEBAND POWER SENSOR	AEROFLEX WICHITA INC
DS3550OPT15	3550OPT15	3550OPT15 OCCUPIED BANDWIDTH	AEROFLEX WICHITA INC
DS3550OPT33	3550OPT33	3550OPT33 NXDN TEST OPTION	AEROFLEX WICHITA INC
DS3550R	3550R	AEROFLEX 3550R HANDHELD 1GHZ RADIO TEST SET RUGGEDIZED	AEROFLEX WICHITA INC
DS3570300000	RV-SC-TDMOIP/PC	RADVIEW SOFTWARE FOR IPMUX	RAD DATA COMMUNICATI
DS35CD6ODDL	C35 D6 OD HOUSING	GENERATOR, 35KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	CUMMINS NPOWER LLC
DS35CD6SADL	C35 D6 SA HOUSING	GENERATOR, 35KW DIESEL, 120/240V 1PH, SOUND ATTENUATED HOUSING	CUMMINS NPOWER LLC
DS35CN6HODVP	C36 N6H 35KW LPV, OD HSG	GENERATOR, 35KW LPV, 120/240V 1PH, OD HOUSING	CUMMINS NPOWER LLC
DS35CN6HSANG3PH	C36 N6H 35KW NG, SA HSG 3PH	GENERATOR, 35KW NG, 120/208V 3PH, SA HOUSING	CUMMINS NPOWER LLC
DS35XXOPT07	35XXOPT07	35XXOPT07 P25 TEST	AEROFLEX WICHITA INC

DS35XXOPT08	35XXOPT08	35XXOPT08 TRACKING GENERATOR	AEROFLEX WICHITA INC
DS35XXOPT09	35XXOPT09	35XXOPT09 DPMR TEST OPTION	AEROFLEX WICHITA INC
DS35XXOPT10	35XXOPT10	35XXOPT10 ARIB T98 TEST OPTION	AEROFLEX WICHITA INC
DS35XXOPT34	35XXOPT34	35XXOPT34 DMR TEST	AEROFLEX WICHITA INC
DS3680110000	MP-4100M-VS/6S/BIN/EMR/UTP	MP4100M,6 SERIAL,8 IN/OUT ALARM RELAYS,ELECTROMECH.RELAY,10/100 BASET	RAD DATA COMMUNICATI
DS3680120000	MP-4100M-T3	MP-4100 T3 MODULE FOR THE MP-4	RAD DATA COMMUNICATI
DS3680170000	MP-4100M-VS/16E1T1/PW	MP-4100 MODULE 16 E1/T1 PORTS,PSEUDOWIRE	RAD DATA COMMUNICATI
DS3680430000	MP-4100M-VS/6S/BIN/SSR/UTP	MP4100M,6 SERIAL, 8 IN/OUT ALARM RELAYS,SOLID STATE RELAY,10/100 BASET	RAD DATA COMMUNICATI
DS3720020000	OP-A/ADAPTOR/28RJ	OP-ADAPTOR 28 RJ45 BALANCED I/F ADAPTOR	RAD DATA COMMUNICATI
DS3750030000	AIRMUX-400P/ODU/F58F/250M/INT	Airmux-400P 250M ODU, Integrated ant (2x N-type), supp. 5.8 GHz FCC	RAD DATA COMMUNICATI
DS3750040000	AIRMUX-400P/ODU/F58F/250M/EXT	Airmux-400P 250M ODU, Connectorized ant (2x N-type), supp 5.8 GHz FCC	RAD DATA COMMUNICATI
DS37502831	3750-283	BREAKER KIT AIRPAX 5AMP SNAPAC, FOR AC EDGE QTY 1	TRANSTECTOR SYSTEMS
DS37502841	3750-284	BREAKER KIT AIRPAX 10AMP SNAPAC, FOR AC EDGE QTY 1	TRANSTECTOR SYSTEMS
DS3750292	3750-292	BREAKER KIT AIRPAX 15AMP, CR15-52-15.OA-R06CV-V FOR DC EDGE III QTY 1	TRANSTECTOR SYSTEMS
DS3750297	3750-297	BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)	TRANSTECTOR SYSTEMS
DS3770410000	ETX-102/NULL/NULL/4UTP	ETX-102 2 NETWORK SFP PORTS, 4 PORT 10/100BT ETHERNET SWITCH	RAD DATA COMMUNICATI
DS3770430000	ETX-102/SFP-2/NULL/4UTP	ETX-102 1 NET PORT SM,1310NM,1 NULLNET SFP PORT, 4 USER 10/100 PORTS	RAD DATA COMMUNICATI
DS3770620000	ETX-102/UTP/UTP/4UTP	ETX-102 2 Network 10/100BT UTP ports, 4 port 10/100BT Ethernet switch	RAD DATA COMMUNICATI
DS37803R2	37803-R2	PATCH CORD MGMT PANEL 1U	BLACK BOX CORP
DS3790010000	DXC-4/4	DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE	RAD DATA COMMUNICATI
DS3790020000	DXC-4/4/R	DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE W/DUAL POWER SUPPLIES	RAD DATA COMMUNICATI
DS3790030000	DXC-4/8	DXC-4 8 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE	RAD DATA COMMUNICATI
DS3790040000	DXC-4/8/R	DXC-4 E1/T1 grooming device, 8 E1/T1 ports, redundant power supply	RAD DATA COMMUNICATI
DS3850170000	RICI-E1	RICI FAST ETHERNET OVER E1 INTELLIGENT CONVERTER	RAD DATA COMMUNICATI
DS3880070000	RICI-T3	RICI-T3 FAST ETHERNET TO T3 (WAN) CONVERTER	RAD DATA COMMUNICATI
DS3880090000	RICI-T3/H	RICi-T3 Ethernet over T3 temp hardened	RAD DATA COMMUNICATI
DS3900110000	FCD-T1LC/V35/V24	FCD WITH 2 SERIAL PORTS OVER T1	RAD DATA COMMUNICATI
DS3900170000	FCD-T1LC/V35/S/V24	FCD-T1LC - MANAGED E1/T1 OR FURACTIONAL E1/T1 ACCESS UNIT	RAD DATA COMMUNICATI
DS39030C03	CPI 39030-C03/ QUOTE#43947	EQUIP RAIL ASSY E PUNCHED, 23.6 INCH, 45RMU, BLACK	ANIXTER INC
DS39050C03	39050-C03	CHATSWORTH DOUBLE PERF DOOR, 23.6W BY 45U, BLACK	ANIXTER INC
DS39054C03	CPI# 39054-C03	LOCK KIT, 2 POINT LATCHING, KEYED, PERFORATED DOOR, 45 RMU	ANIXTER INC
DS39086C00	39086-C00	PDU BRKT FOR 42UR CABINET G2	ANIXTER INC
DS39086C03	39086-C03	FULL HEIGHT DUAL PDU BRACKET, 45 RMU, BLACK	ANIXTER INC
DS39087C03	39087-C03	RING CABLE MANAGER, 6 SLIDE, BLACK	ANIXTER INC
DS39099137	39099-137	CPR137G WAVEGUIDE TERMINATION	COMMSCOPE TECHNOLOGI
DS390XOPT067	390XOPT067	POCSAG	AEROFLEX WICHITA INC
DS390XOPT110	390XOPT110	TETRA MS (MOBILE STATION TESTING)	AEROFLEX WICHITA INC
DS390XOPT111	390XOPT111	TETRA BS (BASE STATION TESTING)	AEROFLEX WICHITA INC
DS390XOPT112	390XOPT112	TETRA DM (DIRECT MODE TESTING)	AEROFLEX WICHITA INC
DS390XOPT114	390XOPT114	TETRA ENERGY ECONOMY MODE	AEROFLEX WICHITA INC
DS390XOPT115	390XOPT115	TETRA AUTOTEST II	AEROFLEX WICHITA INC
DS390XOPT220	390XOPT220	P25 PHASE 2 TWO-SLOT TDMA PHYSICAL LAYER/390XOPT220	AEROFLEX WICHITA INC
DS390XOPT302	390XOPT302	MOTOROLA HPD TESTING SUITE/390XOPT302/R2093A	AEROFLEX WICHITA INC

DS390XOPT402	390XOPT402	DMR XML CHANNEL LOGGER OPTION	AEROFLEX WICHITA INC
DS390XOPT420	390XOPT420	DPMR - ETSI 102-658	AEROFLEX WICHITA INC
DS390XOPT421	390XOPT421	AUTOTEST II FOR DPMR RADIO SYSTEMS	AEROFLEX WICHITA INC
DS390XOPT422	390XOPT422	DPMR CONTROL CHANNEL LOGGER OPTION	AEROFLEX WICHITA INC
DS390XOPT440	390XXOPT440	NXDN	AEROFLEX WICHITA INC
DS390XOPT460	390XOPT460	ARIB T98	AEROFLEX WICHITA INC
DS390XOPT461	390XOPT461	AUTOTEST II FOR ARIB T98 RADIO SYSTEMS	AEROFLEX WICHITA INC
DS390XOPT611	390XOPT611	MOTOROLA TETRA MS RADIO ALIGNMENT W/O CABLE	AEROFLEX WICHITA INC
DS390XOPT626	390XOPT626	DMR REPEATER TEST	AEROFLEX WICHITA INC
DS390XOPT644	390XOPT644	MOTOROLA APX 8000 SERIES AUTOTEST/ALIGNMENT	AEROFLEX WICHITA INC
DS390XOPT645	390XOPT645	MOTOROLA APX "B" SERIES AUTOTEST/ALIGNMENT	AEROFLEX WICHITA INC
DS39120C03	39120-C03	TERAFRAME F SERIES GEN 3 CABLE MGMT TRAY	ANIXTER INC
DS40074100	40074-100	CHATSWORTH 19 INCH SHELF GREY ENAMEL	GRAYBAR ELECTRIC CO
DS400APNFCCR	400APNF-C-CR	400APNF-C-CR 400 N STRAIGHT FEMALE CONNECTOR	COMMSCOPE TECHNOLOGI
DS400BPNMC	400BPNM-C	400BPNM-C CONNECTOR: CNT-400 N STRAIGHT MALE FRO BRAIDED CABLE	COMMSCOPE TECHNOLOGI
DS400BPNMCCR	400BPNM-C-CR	400BPNM-C-CR CNT-400 N STRAIGHT MALE CONNECTOR	COMMSCOPE TECHNOLOGI
DS400BPNRC	400BPNR-C	400BPNR-C CONNECTOR: CNT-400 N RIGHT ANGLE MALE	COMMSCOPE TECHNOLOGI
DS400PMUCR	400PMU-CR	400PMU-CRMINI UHF CONNECTOR FOR CINTA CABLE	COMMSCOPE TECHNOLOGI
DS400PNFC	400PNF-C	400PNF-C CONNECTOR: CNT-400 N STRAIGHT FEMALE	COMMSCOPE TECHNOLOGI
DS4010650000	OP-125/PSR/A/100M	OP-125 FIBER MUX, 16 T1+ETHERNET, RED POWER, ALARM, 100 MBPS ETHERNET	RAD DATA COMMUNICATI
DS4010660000	OP-125-LIC-ETH/100M	OP-125 SW key for OP-125 ETH, 100 Mbps Ethernet throughput	RAD DATA COMMUNICATI
DS4010690000	OP-125/100M	OP-125 Fiber MUX,16 T1 and Ethernet, 100 Mbps Ethernet throughput	RAD DATA COMMUNICATI
DS4010900000	OP-125/PSR/100M	OP-125 FIBER MUX,16 T1 & ETHERNET, RED POWER,, 100 MBPS ETHERNET	RAD DATA COMMUNICATI
DS4011290000	OP-125/PSR	OP-125 Fiber MUX,16 T1 & Ethernet, red power (SW license for Ethernet)	RAD DATA COMMUNICATI
DS4012420000	OP-1025/ACR/3UTP/2SK	OPTIMUX 1025 FIBER MULTIPLEXER FOR 16 T1 & GE, DUAL AC PS, UTP PORTS	RAD DATA COMMUNICATI
DS40161072	40161-072	VERTICAL RACK BUSBAR KIT	ANIXTER INC
DS40525B	40525B	LOW-PRESSURE DESICCANT DEHYDRATOR 115VAC, 60HZ, 2.4A,3-8 PSI	COMMSCOPE TECHNOLOGI
DS40540568	40540568	PBA PLUG-IN BREAKER, 40 AMP (FOR USE W/DST20A DIST PNL)	NEWMAR
DS4060250000	EGATE-20/CH/T1	EGATE-20 CHANNELIZED ETHERNET GATEWAY , CHANNELIZED, T1 PORT	RAD DATA COMMUNICATI
DS40750719	40750-719	SINGLE-SIDED STEEL SHELF, BLACK 12	GRAYBAR ELECTRIC CO
DS4192SWBP4LDF6461	SE4192-SWBP4LDF(D00-E6461)	ENCLOSED DIPOLE, OFFSET, 12 DBD, 746-960 MHZ, LOW PIM, PIP	SINCLAIR TECHNOLOGIE
DS4201160000	KM-2100M-KML.11/UTP	KILOMUX TDMOIP MAIN LINK MODULE, 10/100BASET	RAD DATA COMMUNICATI
DS42396A7	42396A-7	42396A-7 BUTTERFLY HANGER FOR ELLIPTICAL WAVEGUIDE 63	COMMSCOPE TECHNOLOGI
DS424050010	4240-500-10	SH-362S SIGNAL HAWK ADAPTOR, N(M) TO SMA (F)	BIRD ELECTRONIC CORP
DS42405008	4240-500-8	SH-362S SIGNAL HAWK ADAPTOR, N(F) TO BNC (F)	BIRD ELECTRONIC CORP
DS42N50A30	42N50A-30	ATTENUATOR, 30 DB, 50 WATT, DC TO 18 GHZ, N(M) - N(F)	ANRITSU COMPANY
DS43	43	WATTMETER, THRULINE	BIRD ELECTRONIC CORP
DS4304A	4304A	THRULINE WATTMETER	BIRD ELECTRONIC CORP
DS432D6LD3I40G6PI	SC432DHF6LDF(I40-G06-E5749)3DT	COLLINEAR OMNI 6DBD 2 PORTS, 3 DEG DT, PIP, LOW PIM 746-869, DIN-FE,HD	SINCLAIR TECHNOLOGIE
DS432DF6DFI40G6PIP	SC432D-HF6LDF(I40-G06-E5749)	COLLINEAR OMNI, 6DBD GAIN, DUAL PORTS, LOW PIM, 746-869MHZ PIP 25KWZ	SINCLAIR TECHNOLOGIE
DS432DHF6D0I45G3PI	SC432D-HF6LDF D00-I45-G03E5749	DUAL COLLINEAR OMNI PIP ANTENNA, 3DBD, 45 DB, LOW PIM, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DS432DHF6D2I40G6PI	SC432D-HF6LDF D00-I40-G06E5749	DUAL COLLINEAR OMNI PIP ANTENNA, 6DBD, 40 DB, LOW PIM, 2DT 746-869 MHZ	SINCLAIR TECHNOLOGIE
DS432DHF6LDFI4G6NU	SC432D-HF6LDF(I40-G06-E5749)	DUAL PORT, 6 DB GAIN OMNI, WITH 0 DEGREE DOWNTILT	SINCLAIR TECHNOLOGIE

DS432TS6D0I30G6PIP	SC432T-SF6LDFD00-I30-G06-E5749	COLLINEAR OMNI, 6 DBD (TYP), THREE PORTS, 30 DB ISOLATION, LOW PIM, PI	SINCLAIR TECHNOLOGIE
DS432TS6D6I30G6PIP	SC432T-SF6LDFD06-I30-G06-E5749	COLLINEAR OMNI, 6 DBD (TYP), THREE PORTS, 30 DB ISOLATION, LOW PIM, PI	SINCLAIR TECHNOLOGIE
DS432TSF6LI30G6PIP	SC432T-SF6LDF(D00-I30-G06)	COLLINEAR OMNI 6DBD 3 PORTS, PIP, 30 DB ISOLATION, LOW PIM 746-869MHZ	SINCLAIR TECHNOLOGIE
DS43P	43P	WATTMETER, THRULINE	BIRD ELECTRONIC CORP
DS442DF2DFI40G9PIP	SC442D-HF2LDF(D00-I40-G9-E5749	DUAL PORT 9 DBD COLLINEAR ANT, 40 DB ISOLATION, 806-960 MHZ, PIP RATED	SINCLAIR TECHNOLOGIE
DS442DHF1DFD4I30G9	SC442D-HF1LDF(D04-I30-G09)	DUAL PORT 9 DBD COLLINEAR ANTENNA, 30 DB ISOLATION, 746-869 MHZ, 4 DEG	SINCLAIR TECHNOLOGIE
DS442DHF1DFI3G9PIP	SC442D-HF1LDF(D00-I30-G09-PIP)	DUAL PORT 9.0 DBD COLLINEAR ANTENNA, 30 DB ISOLATION, LOW PIM, PIP RAT	SINCLAIR TECHNOLOGIE
DS442DHF2D4I4G9NU	SC442D-HF2LDFD04-I40-G09-E5608	DUAL PORT 9DBD COLLINEAR ANT, 40 DB ISO, 806-960 MHZ, 4DT, NULL FILL	SINCLAIR TECHNOLOGIE
DS44741	GB QUOTE 115512720	FLEXPOINTT1/E1 CONVERTS T1/E1 COPPER RJ45/RJ	GRAYBAR ELECTRIC CO
DS45594163B	45594-163B	HARDWARE KIT FOR 163 CONNECTORS - 1 PKG	COMMSCOPE TECHNOLOGI
DS46006910	460-069-10	GMT FUSE, 10 AMP	ALPHA TECHNOLOGIES L
DS46014510	460-145-10	TPL FUSE, 400 AMP	ALPHA TECHNOLOGIES L
DS46053701	46053-701	CHATSWORTH (6HX19W FT) UNIVERSAL RACK W/ 2 TOP BARS-BLACK	ANIXTER INC
DS46053702	376970 / MFG 46053-702	CHATSWORTH UNIVERSAL 6.5 FT X 19IN BLACK 2 POST RACK	ANIXTER INC
DS46053703	46053-703	UNIVERSAL 2 POST RACK 84HX19WX3D, 45U ALUM, BLACK	ANIXTER INC
DS46083701	46083-701	UNIVERSAL RACK; 23W X 3D (INCH) X 6H (FT) 38RMU, 2POST, TOP BAR, BLACK	ANIXTER INC
DS46083705	46083-705	RACK, 7.5 FT 23 INCH, CHATSWORTH	ANIXTER INC
DS4630050000	MP-4100-MN	MEGAPLEX-4100 CHASSIS WITH NO PS OR CL.2 MODULE	RAD DATA COMMUNICATI
DS4631640000	MP4100-2/115R/622GBESFPR/155SK	MP-4100,RED. 115V PS&CL.2,STM-4/OC-12&SFP GBE PORTS,STM-1/OC3 PORT ACT	RAD DATA COMMUNICATI
DS4631650000	MP-4100-2/115R/622GBEUTPR155SK	MP-4100 CL.2,115 RED,STM-4/OC-12 & UTP GBE PORTS STM-1/OC3 PORT ACTIV.	RAD DATA COMMUNICATI
DS4631810000	MP-4100-2/115R/DS0R	MP-4100 ,4U CHASSIS, PS,CL.2, REDUNDANT 115 VAC PS & DS0 X CONN	RAD DATA COMMUNICATI
DS4631990000	MP-4100-2/115R/GBEASFPR	MP-4100, 4U CHASSIS W REDUNDANT CL.2 & 115PS MODULES	RAD DATA COMMUNICATI
DS4632480000	MP-4100-2/115R/GBEUTPR	MP-4100 NEXT GEN MULTISERVICE ACCESS NODE,4U CHASSIS W/RED PS, CL.2	RAD DATA COMMUNICATI
DS4632540000	MP-4100M-BP-IO/1	MP-4100 SINGLE SLOT BLANK PANEL	RAD DATA COMMUNICATI
DS4632700000	4632700000	MP-4100-2/48R/622GBEUTPR/155SK	RAD DATA COMMUNICATI
DS46353503	46353-503	CHATSWORTH 19 INCH EQUIPMENT RACK 7.0 FT CLEAR ALUMINUM	ANIXTER INC
DS46353505	155766/46353-505	CHATSWORTH 19 INCH EQUIPMENT RACK 7.5 FT	ANIXTER INC
DS46353508	46353-508	UNIVERSAL RACK 19IN W X 9FT H X 3IN D CLEAR 58 RU 2 POST	ANIXTER INC
DS46353515	46353-515/095976	CHATSWORTH RACK RELAY 96IN H X 19IN W, DBL-SIDE ALMINM VENTED SHELF,	ANIXTER INC
DS46353700	46353-700/186564	CHATSWORTH UNIVERSAL RACK 19IN X 5FT-6IN, ALUMINUM DBL SIDED BLACK	ANIXTER INC
DS46353705	93145986	19 INCH RACK BLACK 90" H	GRAYBAR ELECTRIC CO
DS46353720	46353-720	CHATSWORTH 4FT UNIVERSAL RACK 2 POST, BLACK W/ TOP ANGLES	ANIXTER INC
DS46353731	CPI 46353-731	CHATSWORTH 2 POST RACK WITH TWO TOP ANGLES	ANIXTER INC
DS4640060000	MP-4100M-PS/48	MP-4100 POWER SUPPLY MODULE, -48 VDC	RAD DATA COMMUNICATI
DS4640370000	MP-4100M-8T1/3XUTP	MEGAPLEX-4100 8-PORT T1 MODULE,3 UTP PORTS	RAD DATA COMMUNICATI
DS4640420000	MP-4100M-PS/115	MP-4100 POWER SUPPLY MODULE 115 VAC	RAD DATA COMMUNICATI
DS4640460000	MP-4100M-8T1/3XNULL	Megaplex-4100 8-PORT T1 MODULE,3 SFP sockets without SFPs	RAD DATA COMMUNICATI
DS4640510000	MP-4100M-PW-1/3XUTP	MEGAPLEX PSEUDOWIRE MODULE, 8 E1/T1 PORTS FOR MP-4100, 3 UTP PORTS	RAD DATA COMMUNICATI
DS4640520000	MP-4100M-PW-1/3XNULL	MP-4100 8 E1/T1 PSEUDOWIRE MODULE, 3 EMPTY SFP SLOTS	RAD DATA COMMUNICATI
DS4640610000	MP-4100M-16T1	MEGAPLEX 16 T1 PORTS FOR MP-4100	RAD DATA COMMUNICATI
DS4640880000	MP-4100M-CL.2/622GBEUTP	MP-4100 COMMON LOGIC 2, STM-4/OC-12 AND UTP GBE PORTS	RAD DATA COMMUNICATI
DS4640900000	MP-4100M-PW-1/3XSFP2	MP-4 Pseudowire module, 8 E1/T1 ports, 3 SFP FE, 1310nm,SM,9.3 mi	RAD DATA COMMUNICATI
DS4641060000	MP-4100M-CL.2/GBEASFP	MP-4100 COMMON LOGIC 2, SFP GBE PORT W/ CARRIER ETHERNET CAPABILITIES	RAD DATA COMMUNICATI

DS4641070000	MP-4100M-CL.2/GBEAUTP	MP-4100 COMMON LOGIC 2, UTP GBE PORT WITH CARRIER ETH CAPABILITIES	RAD DATA COMMUNICATI
DS4641090000	MP-4100M-CL.2/622GBEASFP/155SK	MP-4100 CL 2, STM-4/OC-12 & SFP GBE PORTS W/CARRIER ETH, STM-1/OC3	RAD DATA COMMUNICATI
DS4641150000	MP-4100M-CL.2/622GBEAUTP	MP-4100 COMMON LOGIC 2, STM-4/OC-12 AND UTP GBE PORTS WITH CARRIER ETH	RAD DATA COMMUNICATI
DS4641160000	MP-4100M-CL.2/DS0	MP-4100 COMMON LOGIC 2, DS0 CROSS CONNECT ONLY	RAD DATA COMMUNICATI
DS4641260000	MP-4100M-ETH/SFP	MP-4100 8-PORT ETHERNET MODULE FOR MP-4100, EMPTY SFP SLOT	RAD DATA COMMUNICATI
DS4641310000	MP-4100M-TP/110/EMR	MP-4100 CMD IN/OUT DIST TELEPROTECT MOD 4 IN,8 OUT,ELECTROMECH RELAY	RAD DATA COMMUNICATI
DS4660010000	SNMPC-SW/VER7	SNMPC-SW/VER7 SNMPC MGMT system	RAD DATA COMMUNICATI
DS47030310	470-303-10	10 AMP BREAKER, PLUG-IN TYPE WITH AUX SWITCH CENTER PIN ONLY	ALPHA TECHNOLOGIES L
DS47030510	470-305-10	BREAKER, CB,1P,20A,80VDC,5/16IN BULLET,MID-TRIP	ALPHA TECHNOLOGIES L
DS47030610	470-306-10	25 AMP AM BREAKER, PLUG-IN TYPE WITH AUX SWITCH CENTER PIN ONLY, MIDTR	ALPHA TECHNOLOGIES L
DS47030710	470-307-10	30 AMP AM BREAKER, PLUG-IN TYPE W/ AUX SWITCH CTR PIN ONLY, MIDTR	ALPHA TECHNOLOGIES L
DS47031110	470-311-10	50 AMP BREAKER, PLUG-IN TYPE W/AUX SWITCH CENTER PIN ONLY	ALPHA TECHNOLOGIES L
DS47031210	470-312-10	60 AMP BREAKER, PLUG-IN TYPE W/AUX SWITCH CENTER PIN ONLY	ALPHA TECHNOLOGIES L
DS47031410	470-314-10	80 AMP AM BREAKER, PLUG-IN TYPE WITH AUX SWITCH CENTER PIN ONLY, MIDTR	ALPHA TECHNOLOGIES L
DS47031610	470-316-10	BREAKER, 100 AMP AM , PLUG-IN TYPE WITH AUX SWITCH CENTER PIN ONLY,	ALPHA TECHNOLOGIES L
DS47SA20CACM	47SA20CACM	UPS, EXM 20KVA 20KW 208/208V INCL START UP AND WARRANTY, BYPASS	CELL MANAGEMENT SYST
DS481212I	48-12-12I	DC CONVERTER, ISOLATED SERIES 48-12-12I	NEWMAR
DS48353103	48353-103	SEVEN FOOT UNIVERSAL RACK	GRAYBAR ELECTRIC CO
DS48353502	CPI 48353-502	UNIVERSAL RACK, 19WX6.5HX3D, CLEAR 41 RMU WITH TWO TOP ANGLES	ANIXTER INC
DS48353503	48353-503	CHATSWORTH UNIV. 2POST RACK W/2 TOP ANG. 45RU(84HX19WX3D IN)-UL LISTED	ANIXTER INC
DS48353701	48353-701	CHATSWORTH 6 FOOT RACK -2 POST RACK, 2 TOP ANGLES UL LISTED	ANIXTER INC
DS48353702	CHATSWORTH # 48353-702	CHATSWORTH UNIVERSAL RACK 19 INCH, 41U, COLOR BLACK	ANIXTER INC
DS48353715	48353-715	EIGHT FOOT UL RATED RELAY RACK	ANIXTER INC
DS486534003	486534003	RECTIFIER,ESURE, 200A, 208VAC,	EMERSON NETWORK POWE
DS4880000000	IPMUX-24/FE/4T1/UTP/UTP/UTP/PE	IPMUX-24 PE, TDM PSEUDOWIRE GATEWAY, PLASTIC, 4T1 PORTS,UTP FOR10/100	RAD DATA COMMUNICATI
DS4880790000	IPMUX-24/4T1/NULL/NULL/NULL	IPMUX-24 PWE, 4 T1, 3 EMPTY FE/GE SFP SOCKETS	RAD DATA COMMUNICATI
DS4880960000	IPMUX-24/FE/A/1T1/UTP/UTP/UTP	IPMUX-24 PWE, 1 T1 3 FE UTP ports, advanced clock (A), AC/DC power	RAD DATA COMMUNICATI
DS4881080000	IPMUX-24/2T1/UTP/UTP/NULL	IPMUX-24 PWE, 2 T1, 2 UTP ETH RJ-45 PORTS, 1 EMPTY FE/GE SFP SOCKET	RAD DATA COMMUNICATI
DS4881190000	IPMUX-24/FE/1T1/UTP/UTP/UTP	IPMUX-24 PWE, 1 T1 PORT, 3 10/100 UTP RJ-45 PORTS	RAD DATA COMMUNICATI
DS4881200000	IPMUX-24/FE/2T1/UTP/UTP/UTP	IPMUX-24 PWE, 2 T1 PORT, 3 10/100 UTP RJ-45 PORTS	RAD DATA COMMUNICATI
DS4881220000	IPMUX-24/FE/4T1/UTP/UTP/UTP	IPMUX-24 PWE, 4 T1 PORT, 3 10/100 UTP RJ-45 PORTS	RAD DATA COMMUNICATI
DS4881490000	IPMUX-24/FE/H/4T1/UTP/UTP/UTP	IPMUX-24 PWE, 4 T1 PORT, 3 10/100 UTP RJ-45 PORTS HARDENED ENCL.	RAD DATA COMMUNICATI
DS4881890000	IPMUX-24/1T1/UTP/UTP/NULL	IPMUX-24 PWE, 1 T1 port, 2 10/100 UTP RJ-45 ports, 1 empty SFP socket	RAD DATA COMMUNICATI
DS4881930000	IPMUX-24/FE/C/1T1/UTP/UTP/UTP	IPMUX-24 PWE 1 T1, 3 10/100 UTP RJ-45,External Clock, Alarm relay	RAD DATA COMMUNICATI
DS4882770000	IPMUX-24/C/4T1/N/N/N	IPMUX-24 PWE, CARRIER CLASS, 4 T1 PORTS, 3 EMPTY SFP SLOT	RAD DATA COMMUNICATI
DS4883200000	IPMUX-24/1T1/NULL/NULL/NULL	IPMUX-24 TDM pseudowire access gateway, 1 T1 port, empty SFP slot	RAD DATA COMMUNICATI
DS4883750000	IPMUX-24/2T1/NULL/NULL/NULL	IPMUX-24 TDM pseudowire access gateway, 2 T1 ports, empty SFP slot	RAD DATA COMMUNICATI
DS4883780000	IPMUX-24/H/1T1/N/N/UTP	IPMUX-24 PWE 1 T1 PORT, HARD ENCL, 1 EMPTY SFP SLOT, 1 FE UTP RJ-45	RAD DATA COMMUNICATI
DS4883920000	IPMUX-24/4T1/UTP/UTP/NULL	IPMUX-24 PWE 4 T1 PORTS, 2 UTP RJ-45, 1 EMPTY SFP SLOT	RAD DATA COMMUNICATI
DS4884030000	IPMUX-24/H/1T1/N/N/N	IPMUX-24 PWE 1 T1 Port, HARDENED ENCLOSURE, 3 EMPTY SFP SLOTS	RAD DATA COMMUNICATI
DS48939A1	48939A-1	48939A-1 BOOT ASSEMBLY, 5 IN, FOR 7/8" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DS48939A16	48939A-16	BOOT ASSEMBLY, 5 IN, FOR 3/8" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DS48939A17	48939A-17	BOOT ASSEMBLY, 5 IN, FOR 1/2" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI

DS48939A2	48939A-2	48939A-2 BOOT ASSEMBLY, 5 IN, FOR 7/8" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DS48939A4	48939A-4	BOOT ASSEMBLY, 5 IN, FOR 1-5/8" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DS48939A6	48939A-6	BOOT ASSEMBLY, 5 IN, FOR 1/2" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DS4900120000	IPMUX-216/AC/8T1/NULL/NULL/NUL	IPMUX-216 PWE, AC, 8 T1 ports, 3 FE/GE Empty SFP sockets	RAD DATA COMMUNICATI
DS4900190000	IPMUX-216/AC/8T1/UTP/UTP/UTP	IPMUX-216 PWE, AC, 8 T1 ports, 3 FE UTP RJ-45	RAD DATA COMMUNICATI
DS4900310000	IPMUX-216/ACR/16T1/UTP/UTP/UTP	IPMUX-216 PWE 16 T1 PORTS, RED AC POWER,3 FE UTP RJ-45 ETH PORTS	RAD DATA COMMUNICATI
DS4900320000	IPMUX-216/ACR/16T1/NULL/NULL/N	IPMUX-216 PWE 16 T1 ports, RED AC power 3 FE/GE Empty SFP sockets	RAD DATA COMMUNICATI
DS4900340000	IPMUX-216/ACR/16T1NULLNULL/UTP	IPMUX-216 PWE 16 T1, RED AC, 2 FE/GE EMPTY SFP SOCKETS,1 UTP RJ-45 ETH	RAD DATA COMMUNICATI
DS4900360000	IPMUX-216/48R/16T1/UTP/UTP/UTP	IPMUX-216 TDM PWE gw,dual 48VDC PS,16T1, 3 UTP Ports	RAD DATA COMMUNICATI
DS4900710000	IPMUX-216/ACR/8T1/NULL/NULLUTP	IPMUX-216 PWE 8 T1, RED AC, 2 FE/GE Empty SFP sockets,1 UTP RJ-45 Eth	RAD DATA COMMUNICATI
DS4900770000	IPMUX-216/ACR/8T1/UTP/UTP/NULL	IPMUX-216 PWE 8 T1, RED AC,2 UTP RJ-45 ETH, 1 FE/GE EMPTY SFP SOCKET	RAD DATA COMMUNICATI
DS4900840000	IPMUX-216/AC/16T1/UTP/UTP/NULL	IPMUX-216 PWE 16 T1, AC,2 UTP RJ-45 Eth, 1 FE/GE Empty SFP socket	RAD DATA COMMUNICATI
DS4900850000	IPMUX-216/ACR/8T1/UTP/UTP/UTP	IPMUX-216 PWE 8 T1 PORTS, RED AC POWER,3 FE UTP RJ-45 ETH PORTS	RAD DATA COMMUNICATI
DS4900860000	IPMUX-216-M/48	PLUGGABLE POWER SUPPLY MODULE FOR IPMUX-216, -48 VDC	RAD DATA COMMUNICATI
DS4900870000	IPMUX-216-M/AC	PLUGGABLE POWER SUPPLY MODULE FOR IPMUX-216, 100-240 VAC	RAD DATA COMMUNICATI
DS4901130000	IPMUX-216/48R/16T1/N/N/UTP	IPMUX-216 PWE 16 T1, RED AC, 2 FE/GE EMPTY SFP SOCKETS,1 UTP RJ-45 ETH	RAD DATA COMMUNICATI
DS4901180000	IPMUX-216/AC/16T1/UTP/UTP/UTP	IPMUX-216 PWE 16 T1 PORTS, AC POWER,3 FE UTP RJ-45 ETH PORTS	RAD DATA COMMUNICATI
DS4901480000	IPMUX-216/ACR/8T1/NULLNULLNULL	IPMUX-216 PWE 8 T1 ports, RED AC power 3 FE/GE Empty SFP sockets	RAD DATA COMMUNICATI
DS4901620000	IPMUX-216/ACR/16T1/UTP/UTP/NUL	IPMUX-216 PWE 16 T1, RED AC,2 UTP RJ-45 Eth, 1 FE/GE Empty SFP socket	RAD DATA COMMUNICATI
DS4901850000	IPMUX-216/48R/8T1/UTP/UTP/UTP	IPMUX-216 PWE 8 T1 ports, RED DC power,3 FE UTP RJ-45 Eth ports	RAD DATA COMMUNICATI
DS4902020000	IPMUX-216/48R/16T1NULLNULLNULL	IPMUX-216 PWE 16 T1 ports, RED DC power 3 FE/GE Empty SFP sockets	RAD DATA COMMUNICATI
DS4902440000	IPMUX-216/AC48/16T1/N/N/UTP	IPMUX-216 PWE 16 T1,1 AC, 1DC 2 FE/GE EMPTY SFP SOCKETS,1UTP RJ-45 ETH	RAD DATA COMMUNICATI
DS4980740000	RICI16-EVPL	RICI-16 SW LICENSE TO ACTIVATE EVPL SERVICES USING ETHERNET FLOWS	RAD DATA COMMUNICATI
DS5000XT	5000-XT	DIGITAL POWER METER	BIRD ELECTRONIC CORP
DS500572	500572	INVERTER, 1KW MOD -48VDC120VAC/60HZ	ELTEK INC
DS500GALUPGGRC	500 GALLON UPGRADE	UPG 24"/189GL SUBBASE TNK TO 500 GAL	GENERAC POWER SYSTEM
DS500GLDSLUPGONA	DS500GLDSLUPGONA	UPSIZE STD 24 HOUR RUNTIME DIESEL SUBBASE TANK TO 500 GAL TANK	CUMMINS NPOWER LLC
DS500GTANKUPGB	DS500GTANKUPGB	500 GALLON SUB BASE FUEL TANK OPTION (FOR 60-80KW) ADDER TO GENSET	GENERAC POWER SYSTEM
DS5010160000	CBL-HS2/V/1/M	CBL-HS2V1 : V.35 male cable for the HS-2 High Speed Data Module	RAD DATA COMMUNICATI
DS5010180000	CBL-VC16	CBL-VC16 Octopus Cable for Megaplex E&M module 50 pin Telco to 6 RJ45	RAD DATA COMMUNICATI
DS5010750000	CBL-HSR/M	CBL-HSR/M 1-2 PORT SPLITTER FOR HSR/RS-232 MP LOW SPEED DATA MODULE	RAD DATA COMMUNICATI
DS5010760000	CBL-HSR/F	CBL-HSR/F 1-2 PORT SPLITTER FOR HSR/RS-232 MP LOW SPEED DATA MODULE	RAD DATA COMMUNICATI
DS5010850000	CBL-LS12/F	MEGAPLEX OCTOPUS CABLE FOR LS12 (NEED 2 PCS) OR LS6N (FEMALE)	RAD DATA COMMUNICATI
DS5010860000	CBL-LS12/M	Megaplex OCTOPUS CABLE FOR LS12 (NEED 2 PCS) OR LS6N (MALE)	RAD DATA COMMUNICATI
DS5010B	5010B	DUAL-SOCKET THRULINE DIRECTIONAL POWER SENSOR	BIRD ELECTRONIC CORP
DS5017D	5017D	5017D WIDEBAND POWER SENSOR 25-1000MHZ 500MW-500W	BIRD ELECTRONIC CORP
DS5019D	5019D	5019D WIDEBAND POWER SENSOR 100MW - 100W AVG, 260W PEAK	BIRD ELECTRONIC CORP
DS50206801	50-206801	AXELL DUAL WINDOW UHF BDA 8 CHANNEL	AXELL WIRELESS
DS502650	502650	1 AMP CIRCUIT BREAKER	ELTEK INC
DS502651	502651	3 AMP CIRCUIT BREAKER	ELTEK INC
DS502652	502652	5 AMP CIRCUIT BREAKER	ELTEK INC
DS502653	502653	BREAKER 10A 1P AUX 5/16 BULLET	ELTEK INC
DS502654	502654	15 AMP CIRCUIT BREAKER	ELTEK INC

DS502656	502656	25 AMP CIRCUIT BREAKER	ELTEK INC
DS502657	502657	BREAKER 30A 1P AUX 5/16 BULLET	ELTEK INC
DS502658	502658	BREAKER 35A 1P AUX 5/16 BULLET	ELTEK INC
DS502659	502659	BREAKER 40A 1P AUX 5/16 BULLET	ELTEK INC
DS502661	502661	BREAKER 60A 1P AUX 5/16 BULLET	ELTEK INC
DS502662	502662	70 AMP CIRCUIT BREAKER	ELTEK INC
DS502663	502663	BREAKER 75A 1P AUX 5/16 BULLET	ELTEK INC
DS502664	502664	80 AMP BREAKER	ELTEK INC
DS502665	502665	BREAKER 90A 1P AUX 5/16 BULLET	ELTEK INC
DS502666	502666	100 AMP CIRCUIT BREAKER	ELTEK INC
DS502849	502849	TCHPS FUSE PULLOUT, 300-800 AMP	ELTEK INC
DS502877	502877	48V 125AH 12V125F ENERSYS BATT SET	ELTEK INC
DS5030050000	ASMI-54/4ETH/8W	ASMI G.SHDSL.BIS MODEM,FOUR PORTS OF 10/100BASET,8 WIRES	RAD DATA COMMUNICATI
DS503473	503473	RELAY RACK R-19-7-6 45U-ELTEK SKU	ELTEK INC
DS503500	503500	KIT 23 INCH MOUNTING BD-450 19 INCH 3U, OPTIONAL	ELTEK INC
DS503591	503591	GMT FUSE PANEL, 1U 20P A/B, 60A	ELTEK INC
DS503625	503625	INVERTER SYSTEM, 3KW, 48VDC120VAC/60HZ	ELTEK INC
DS503787	503787	BATTERY, 24V 125AH 12V125F BATT SET	ELTEK INC
DS503833	503833	STEEL RELAY RACK R-23-7-6 45U-ELTEK SKU	ELTEK INC
DS503853	503853	BATTERY CABLES FOR BATTERY STRING, 10' FOR FLATPACK	ELTEK INC
DS504000	504000	BATTERY DISCONNECT PANEL	ELTEK INC
DS504237	504237	BATTERY, 48V 150AH BATTERY ST 12AVR-150ET-48	ELTEK INC
DS504584	504584	20 POSITION CIRCUIT BREAKER WITH GROUND BAR	ELTEK INC
DS504585	504585	4U 600A BREAKER DIST 24P 23 INCH COVER	ELTEK INC
DS504880	504880	BATTERY T6RAY KIT 23 INCH HEAVY DUTY	ELTEK INC
DS504934	504934	CABLE, 8P ALARM FLATPACK MCU 50FT	ELTEK INC
DS504974	504974	BATTERY SHIELD 19 IN X 6IN RAIL, (COVER)	ELTEK INC
DS505303	505303	BATTERY, 48V 1020 AH, DDM85-25 BATT SET	ELTEK INC
DS505317	505317	48V 1200AH DDM100-25 BATT SET 3WX8H	ELTEK INC
DS505345	505345	48V 595AH 2DDM85-15 BATT 4WX6H	ELTEK INC
DS505534	505534	CB-24/48-16/FILLERS-G-B-U BLK	ELTEK INC
DS506047	506047	RACK, 23-7-6 (45U) NON-SEISMIC BOLTED RACK, QTY4 HD BATT TRAY,	ELTEK INC
DS506074	506074	48V 1500AH BATT SET DDM125-25 4WX6H	ELTEK INC
DS506100	506100	PB-XX/XXX-17A BATTERY RACK	ELTEK INC
DS506398	506398	BATTERY, 48V 300AH DDM50-13 BATT SET 4X6	ELTEK INC
DS506495	506495	BATTERY, 48V 1625AH DDM125-27 BATT SET 4WX6H	ELTEK INC
DS506574	506574	48V 155AH 12V155FS ENERSYS BATT SET	ELTEK INC
DS506576	506576	BATTERY, 24V 155AH 12V155FS ENERSYS BATT SET	ELTEK INC
DS506715	506715	GMT FUSE PNL, 20P,+/- 24/48 VDC	ELTEK INC
DS506751	506751	48V 400AH BAT SET #DDM50-17 4WX6H	ELTEK INC
DS506835	506835	BATTERY, 48V 1360AH BATT SET DDM85-33 4X6	ELTEK INC
DS507034	507034	48V 92AH 12V92F ENERSYS BATT SET	ELTEK INC
DS507055	507055	BATTERY, 48 V 62 AH 12V62F ENERSYS BATT SET	ELTEK INC

DS50AMFN20	50-A-MFN-20	ATTENUATOR 50W 20DB N(M) TO N(F) DC -2.4 GHZ	BIRD ELECTRONIC CORP
DS50DGHDAODDL	GHDA 50KW DIESEL, OD HSG	GENERATOR, 50KW DIESEL, 120/240V 1PH, OD HOUSING	CUMMINS NPOWER LLC
DS50DGHIDASADL	DGHDA 50KW DSL, SND ATTN HSG	GENERATOR, 50KW DIESEL, 120/240V 1PH, LVL2 SOUND ATTENUATED HSG (OD)	CUMMINS NPOWER LLC
DS5130010000	MIRICI-E3T3/GE	MiRiCi Gigabit Ethernet to E3/T3 (WAN) converter.	RAD DATA COMMUNICATI
DS5130030000	MIRICI-E1T1/FE	MiRiCi Fast Ethernet to E1/T1 (WAN) converter.	RAD DATA COMMUNICATI
DS5130040000	MIRICI-E1T1/GE	MIRICI GIGABIT ETHERNET TO E1/T1 (WAN) CONVERTER.	RAD DATA COMMUNICATI
DS5130050000	MIRICI-E3T3/FE	MiRiCi Fast Ethernet to E3/T3 (WAN) converter.	RAD DATA COMMUNICATI
DS5160020000	SPH-16/ACR	SFP PATCHING HUB, 12 PORTS, REDUNDANT AC POWER SUPPLY	RAD DATA COMMUNICATI
DS5180030000	MITOP-E1T1/FE	MITOP SFP-FORMAT E1/T1 TDM PSEUDOWIRE GATEWAY, FAST ETHERNET SFP PORT	RAD DATA COMMUNICATI
DS5180060000	MITOP-E3T3/FE	MITOP SFP-FORMAT E3/T3 TDM PSEUDOWIRE GATEWAY, FAST ETHERNET SFP PORT	RAD DATA COMMUNICATI
DS5180070000	MITOP-E3T3/FE/H	MITOP SFP-FORMAT E3/T3 TDM PWE, FAST ETHERNET SFP PORT, HARDENED	RAD DATA COMMUNICATI
DS5180130000	MITOP-E1T1/GE	MITOP SFP-FORMAT E1/T1 TDM PWE, 10/100/1000 BASET ETHERNET USER PORT	RAD DATA COMMUNICATI
DS5180180000	MITOP-E3T3/GE	MITOP SFP-FORMAT E3/T3 TDM PWE, 10/100/1000 BASET ETHERNET USER PORT	RAD DATA COMMUNICATI
DS518TMN	5-18T-MN	RF LOAD/TERMINATION 5 WATT, 18 GHZ, 5-18T SERIES	BIRD ELECTRONIC CORP
DS5200010000	OP-106-M/ST/13L	OPTIMUX-106 UPLINK MODULE,ST connector,1310 NM SINGLE MODE SHORT HAUL	RAD DATA COMMUNICATI
DS5200030000	OP-106/ETH/SC/13L	OP-106-4 T1 & ETHERNET FIBER MUX,SC ,1310NM SM SHORT HAUL	RAD DATA COMMUNICATI
DS5200100000	OP-106/R/ETH/ST/13/D	OP-106-4 T1 & ETHERNET Fiber MUX,RED power,ST,1310nm, MM, Dual uplink	RAD DATA COMMUNICATI
DS5200160000	OP-106/SC/SF1	OP-106-4 T1 Fiber MUX,SC,1550 Tx, 1310 Rx, Single fiber	RAD DATA COMMUNICATI
DS5200170000	OP-106/SC/SF2	OP-106-4 T1 Fiber MUX,SC, 1310 Tx, 1550 Rx, Single fiber	RAD DATA COMMUNICATI
DS5200190000	OP-106/R/SC/13L/D	OP-106-4 T1 Fiber MUX,RED power,SC,1310NM SM,Dual uplink	RAD DATA COMMUNICATI
DS5200200000	OP-106/ST13L	OP-106-4 T1 FIBER MUX,ST,1310 NM SM SHORT HAUL	RAD DATA COMMUNICATI
DS5200220000	OP-106/ETH/ST/13L	OPTIMUX 106 4 CH, T1 & ETH MUX, ETH PORT, ST CONN, 1310 NM, SM SH	RAD DATA COMMUNICATI
DS5200230000	OP-106/R/ETH/ST/13L	OP-106-4 T1 & ETHERNET FIBER MUX, RED POWER, ST, 1310NM SM, SHORT HAUL	RAD DATA COMMUNICATI
DS5200250000	OP-106/R/ETH/SC/SF3	OP-106-4T1 & ETHERNET Fiber MUX,RED power,SC,1310Tx &Rx, Single fiber	RAD DATA COMMUNICATI
DS5200280000	OP-106/R/ETH/SC/SF3/D	OP-106-4 T1 & ETHERNET FIBER MUX,RED POWER,SC,1310NM SM SHORT HAUL	RAD DATA COMMUNICATI
DS5200310000	OP-106/R/ETH/SC/13L/D	OP-106 4 T1/ETH FIBER MUX,RED.PS,SC,1310NM SM SHORT HAUL,DUAL UPLINK	RAD DATA COMMUNICATI
DS5200320000	OP-106/R/ETH/SC/SF3/D	OP-106 4 T1/ETH Fiber MUX,Red.PS,SC,1310Tx&Rx,Single fiber,Dual uplink	RAD DATA COMMUNICATI
DS5200340000	OP-106/SC/13L	OP-106-4 T1 Fiber MUX,SC,1310NM,SM, SHORT HAUL	RAD DATA COMMUNICATI
DS5200370000	OP-106/R/ETH/SC/SF2/D	OP-106 4T1/ETH FIBERMUX,RED PS,SC,1310TX,1550RX,SINGLEFIBER,RED UPLINK	RAD DATA COMMUNICATI
DS5200410000	OP-106/R/ETH/SC/SF1/D	OP-106 4T1/ETH FIBERMUX,RED PS,SC,1550TX,1310RX,SINGLE FIBER,REDUPLINK	RAD DATA COMMUNICATI
DS5200450000	OP-106/ETH/ST/13	OP-106 4T1/ETH FIBERMUX,ST, 1310 NM, MM	RAD DATA COMMUNICATI
DS5200460000	OP-106/SC/SF3	OP-106 4T1 Fiber MUX,SC, 1310Tx &Rx, Single fiber	RAD DATA COMMUNICATI
DS5200490000	OP-106/R/ST/13L	OP-106 4T1 Fiber MUX,RED power,ST, 1310NM, SM, SHORT HAUL	RAD DATA COMMUNICATI
DS5200510000	OP-106/SC/13	OP-106 4T1 FIBER MUX,SC, 1310 NM, MM	RAD DATA COMMUNICATI
DS5200530000	OP-106/ST13	OP-106 4T1 FIBER MUX ,ST, 1310NM, MM	RAD DATA COMMUNICATI
DS5200660000	OP-106/R/ETH/SC/13	OP-106 4 CH T1 MUX, RED PS, ETH PORT, SC CONN, 1310 NM MULTIMODE LED	RAD DATA COMMUNICATI
DS5200710000	OP-106/R/ETH/SC/13LH/D	OP-106 4 CH T1 & ETH MUX,Red PS,SC,1310 NM SM LONG HAUL,Dual uplink	RAD DATA COMMUNICATI
DS5200760000	OP-106/R/SC/13	OP-106 4 CH T1 MUX,SC CONN,FIBER INTERFACE, 1310 NM MM, RED. POWER	RAD DATA COMMUNICATI
DS5201330000	OP-106/R/ETH/SC/15L/D	OP-106 FIBER MUX,RED PS,ETH,SC CONN,1550NM SM LASER, DUAL UPLINK	RAD DATA COMMUNICATI
DS52057010	520570-10	520570-10, INBOARD SIDE STRUT KIT FOR 6 FT MICROWAVE ANTENNAS	COMMSCOPE TECHNOLOGI
DS5205702	520570-2	OPTIONAL SIDE STRUT FOR 4 AND 6 FT REFLECTORS, METRIC HARDWARE	COMMSCOPE TECHNOLOGI
DS5206533	520653-3	520653-3 KIT HARDWARE KIT PER ANTENNA	COMMSCOPE TECHNOLOGI
DS5220020000	OP-106-M/SC/13L	OPTIMUX-106 UPLINK MODULE,SC CONECTOR,1310 NM SINGLE MODE SHORT HAUL	RAD DATA COMMUNICATI

DS5220030000	OP-106-M/FC/13L	OPTIMUX-106 UPLINK MODULE,FC connector,1310 NM SINGLE MODE SHORT HAUL	RAD DATA COMMUNICATI
DS5220070000	OP-106-M/SC/SF3	OPTIMUX-106 UPLINK MODULE,SC,1310 Tx and Rx, Single fiber	RAD DATA COMMUNICATI
DS5260100000	AIRMUX-IDU/2ETH	Airmux IDU, 2 10/100BaseT,9.5 in unit RM-33 & power not incl	RAD DATA COMMUNICATI
DS5260110000	AIRMUX-IDU/2TDM	AIRMUX IDU,2 T1, 2 10/100BASET 9.5 IN RM-33 & POWER NOT INCL	RAD DATA COMMUNICATI
DS5260160000	AIRMUX-400-ANT/22/4451/FP	Airmux-400 Flat panel ant,1.2ft, dual pol, gain 22dBi,4.40-5.10GHz	RAD DATA COMMUNICATI
DS5260180000	AIRMUX-400-ANT/28/5260/DISH	AIRMUX-400 DISH ANT,2FT, DUAL POL, GAIN 28DBI, 4.90-6.06 GHZ	RAD DATA COMMUNICATI
DS5260190000	AIRMUX-TERMINATION-KIT	AIRMUX CABLE TERM KIT FOR OUTDOOR CABLES, INCL 10 GLANDS & 10 RJ-45	RAD DATA COMMUNICATI
DS5260270000	AIRMUX-400-ANT/32/4958/DISH	Airmux-400 Dish ant, 3ft, dual pol, gain 32dBi, 4.90-5.875 GHz	RAD DATA COMMUNICATI
DS5260290000	AIRMUX-5000-BS-ANT/14/4959/FP	Airmux-5000 Base Flat ant,dual pol, gain 14dBi, 4.90-5.950GHz,90deg	RAD DATA COMMUNICATI
DS5261060000	AIRMUX-POE/GBE/ET/DC	POE DEVICE SUPPORTING PSE, GIGABIT ETHERNET PORT, DC	RAD DATA COMMUNICATI
DS5261100000	CBL-AIRMUX-RF/1.2M	AIRMUX 1.2M RF CABLE	RAD DATA COMMUNICATI
DS5261110000	CBL-AIRMUX-RF/2M	AIRMUX 2M RF CABLE	RAD DATA COMMUNICATI
DS5261220000	AIRMUX-OPOE/GBE/DC	AIRMUX DC OUTDOOR POE, 10VDC-60VDC POWER FEEDING	RAD DATA COMMUNICATI
DS5261360000	AIRMUX-GSU/HSSOE	GSU: OUTDOOR GPS-BASED SYNC UNIT FOR INTER-SITE SYNC SUPPORTING HSSOE	RAD DATA COMMUNICATI
DS5261410000	AIRMUX-IDUH/2ETH	IDU-H, 2 X ETHERNET PORTS, 1000 BASET INTERFACE AND 2 X SFP PORTS	RAD DATA COMMUNICATI
DS5261420000	AIRMUX-OUTDOOR-LPU	OUTDOOR LIGHTNING PROTECTION UNIT,10/100/1000BASE-TPOE SURGE PROTECTOR	RAD DATA COMMUNICATI
DS5261430000	AIRMUX-OUTDOOR-LPU-KIT	KIT OF 10 OUTDOOR LIGHTNING PROT UNIT,10/100/1000BASE-TPOE SURGE PROT	RAD DATA COMMUNICATI
DS5270190000	ETX-205A-PS/AC	ETX-205 SWAPPABLE POWER SUPPLY, AC	RAD DATA COMMUNICATI
DS5270200000	ETX-205A-PS/DC	ETX-205 SWAPPABLE POWER SUPPLY, DC	RAD DATA COMMUNICATI
DS5270290000	ETX-205A/ACR/19	ETX-205A RED AC power supply, 19 in metal box	RAD DATA COMMUNICATI
DS5270500000	ETX-205A/ACR/19/4E1T1	CARRIER ETH DEMARCATION, DUAL AC PS, 19 INCH METAL BOX, 4 E1/T1 PORTS	RAD DATA COMMUNICATI
DS5270540000	ETX-205A/DCR/19/4E1T1	CARRIER ETH DEMARCATION, DUAL DC PS, 19 IN METAL BOX, 4 E1/T1 PORTS	RAD DATA COMMUNICATI
DS5290580000	SFP-ER	SFP ETHERNET RANGE EXTENDER	RAD DATA COMMUNICATI
DS5291070000	SFP-CA.2	SFP CONFIG ADAPTER FOR SMART SFP'S TO A PC, SUPP WINXP, 7,8 AND 8.1	RAD DATA COMMUNICATI
DS5300110000	ETX-203A_SW/GE	ETX-203A software package, 1 Gbps per port	RAD DATA COMMUNICATI
DS5300120000	ETX-203A_SW/GE30	ETX-203A software package, 1 Gbps per port, 30 shaped EVCs	RAD DATA COMMUNICATI
DS5472950000	OP-1551/2X6384/AC/R/ST/13/D	Optimux-1551 SDH/SONET TERMINAL MULTIPLEXER	RAD DATA COMMUNICATI
DS5480510000	OP-1551/6384/AC/R/ST/15L	OP-1551 MUX 63E1/84T1 O/ STM-1/OC-3,ACR, ST 1550NM SM LASER SHORT-HAUL	RAD DATA COMMUNICATI
DS5480BH20US	5480BH20US	5.4 GHZ PTP 230 - 20 MBPS BACKHAUL INTEGRATED - SINGLE RADIO -US ONLY	CAMBIUM NETWORKS LIM
DS55000A137	55000A-137	PRESSURE WINDOW	COMMSCOPE TECHNOLOGI
DS55001112	55001112	PRESSURE WINDOW ASSEMBLY (CPR112)	COMMSCOPE TECHNOLOGI
DS55001137	55001-137	PRESSURE WINDOW	COMMSCOPE TECHNOLOGI
DS5502UE008U1000	5502UE 008U1000	CABLE, 4C22-CMR-GY-B-BED BELDEN 1000 FT	ANIXTER INC
DS55053503	55053-503	STANDARD 19 IN RACK CL	ANIXTER INC
DS55053703	55053-703	CHATSWORTH-7 INCH RACK RELAY (84H X 19W INCH) DOBL SIDE ALUMINUM BLACK	ANIXTER INC
DS554579	554579	BATTERY, 6 CELLS,12V,202AH,C&D TEL12-210	EMERSON NETWORK POWE
DS560SA16FNRJ1S	560SA16FNRJ1S	SPD, TYPE 2, MOV, 120/240 VAC 1-PHASE	CELL MANAGEMENT SYST
DS560YA16FNRJ1S	560YA16FNRJ1S	SPD, TYPE 2, MOV, 120/208VAC 3-PHASE	CELL MANAGEMENT SYST
DS565162	565162	TRIPP LITE B140-101X DVI OVER CAT5 EXTENDER TRANSMITTER AND REC	ANIXTER INC
DS565177	565177	TRIPP LITE B203-104 4-PORT HIGH SPEED USB 2.0 OVER CAT5 EXTEND HUB KIT	ANIXTER INC
DS565513	QUOTE # 50621	TRIPP LITE SRCABLERING1U, RACK ENC CABINET, HORIZONTAL CABLE RING	ANIXTER INC
DS565515	QUOTE # 50621	TRIPP LITE SRCABLERINGVRT, RACK ENC CABINET 6FT, VERTICAL CABLE RING	ANIXTER INC
DS56783719	567-837-19	KYDEX COVER, REAR, 19 INCH 1RU 4/5-MODULE 1.2KW SHELF	ALPHA TECHNOLOGIES L

DS5698758	98319206 / MFG: 569875-8	WHITE HOOD BOOT .210	GRAYBAR ELECTRIC CO
DS5700060000	ETX-5300A/ACR	ETX-5300A 10GE Redundant Carrier Ethernet Platform, RED AC power	RAD DATA COMMUNICATI
DS570SA16FNRJ1S	570SA16FNRJ1S	SPD, TYPE 1, SAD/MOV, 120/240 VAC 1-PHASE	CELL MANAGEMENT SYST
DS570YA16FNRJ1S	570YA16FNRJ1S	SPD, TYPE 1, SAD/MOV, 120/208 VAC 3-PHASE	CELL MANAGEMENT SYST
DS5760190000	RADVIEW-PC	RADVIEW-PC CARRIER CLASS NETWORK MANAGEMENT SYSTEM	RAD DATA COMMUNICATI
DS5760200000	RADVIEW-PC/PM	RADview-PC network management system, performance monitoring	RAD DATA COMMUNICATI
DS58009273001	58009273001	EWP52 - PREMIUM ELLIPTICAL WAVEGUIDE, 5.725 - 6.425 GHZ (PER FT)	CAMBIUM NETWORKS LIM
DS58009273002	58009273002	EWP90 - PREMIUM ELLIPTICAL WAVEGUIDE, 10.7 - 11.7 GHZ (PER FT)	CAMBIUM NETWORKS LIM
DS58009273003	58009273003	EWP63 - PREMIUM ELLIPTICAL WAVEGUIDE, 6.425 - 7.125 GHZ (PER FT)	CAMBIUM NETWORKS LIM
DS58009279001	58009279001	1 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	CAMBIUM NETWORKS LIM
DS58009279002	58009279002	2 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	CAMBIUM NETWORKS LIM
DS58009280001	58009280001	1 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	CAMBIUM NETWORKS LIM
DS58009280002	58009280002	2 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	CAMBIUM NETWORKS LIM
DS58009280003	58009280003	3 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	CAMBIUM NETWORKS LIM
DS58009281004	58009281004	IRFU,ANSI,11G,1+1,EQ,10/30MHZ,HP	CAMBIUM NETWORKS LIM
DS58009283001	58009283001	PRESSURE WINDOW FOR WR137, 5.85-8.2 GHZ, MATES TO CPR137G	CAMBIUM NETWORKS LIM
DS58009283002	58009283002	PRESSURE WINDOW FOR WR90, 8.2-12.4 GHZ, MATES TO CPR90G	CAMBIUM NETWORKS LIM
DS58009284001	58009284001	2-PORT GAS DISTRIBUTION MANIFOLD	CAMBIUM NETWORKS LIM
DS58009284002	58009284002	4-PORT GAS DISTRIBUTION MANIFOLD	CAMBIUM NETWORKS LIM
DS58010076005	58010076005	3 FT FLEX WAVEGUIDE 11-13 GHZ - UBR120/ PBR120	CAMBIUM NETWORKS LIM
DS58010076011	58010076011	3FT FLEX WAVEGUIDE 18-26 GHZ - UBR220/ PBR220	CAMBIUM NETWORKS LIM
DS58010076016	58010076016	FLEXIBLE TWIST,WR137,PDR70,35.0 INCH,CPR137G,5.85-8.2 GHZ,VSWR 1.10	CAMBIUM NETWORKS LIM
DS58010076018	58010076018	3FT FLEX WAVEGUIDE 11 -13 GHZ - CPR90G/PDR100	CAMBIUM NETWORKS LIM
DS58010077001	58010077001	TAPERED TRANSITION, WR75 - WR90, PBR120, UDR100	CAMBIUM NETWORKS LIM
DS5810200000	AIRMUX-PS-E-AC/ACUS	AIRMUX AC POWER ADAPTOR FOR IDU REQUIRED FOR AC POWER	RAD DATA COMMUNICATI
DS5810210000	AIRMUX-400/IDUE/16TDM	Airmux-400 IDU,16 T1, 2 FE BaseT,SFP port &Alarm interface, 19 in unit	RAD DATA COMMUNICATI
DS5810220000	AIRMUX-400/IDUE/4TDM	AIRMUX-400 IDU,4 T1, 2 FEBASET,SFP PORT &ALARM INTERFACE, 19 IN UNIT	RAD DATA COMMUNICATI
DS5810230000	AIRMUX-400/IDUE/8TDM	AIRMUX-400 IDU,8 T1, 2 FEBASET,SFP PORT &ALARM INTERFACE, 19 IN UNIT	RAD DATA COMMUNICATI
DS5810330000	AIRMUX-400-ANT/19/2327/FP	Airmux-400 Flat panel ant, 1.2ft, dual pol, gain 19dBi, 2.30-2.70 GHz	RAD DATA COMMUNICATI
DS5810480000	AIRMUX-400/ODU/F49F/200M/EXT	Airmux-400 ODU, factory default 4.9 GHz, FCC,100Mbps Ethernet ext ant	RAD DATA COMMUNICATI
DS5810540000	AIRMUX-400/ODU/F49F/200M/INT	AIRMUX-400 INTEGRATED ODU UNIT, FACTORY DEFAULT 4.9 GHZ, FCC, 100MBPS	RAD DATA COMMUNICATI
DS5810660000	AIRMUX-400/ODU/F3XF/100M/INT	Airmux-400 Integ ODU,100Mbps,multi freq 3.x GHz,default 3.65GHz FCC/IC	RAD DATA COMMUNICATI
DS5810670000	AIRMUX-400/ODU/F3XF/100M/EXT	Airmux-400 ODU,100M Conn(2xN-type) multi freq,3.xGHz,default 3.65GHz	RAD DATA COMMUNICATI
DS5810710000	AIRMUX-400/ODU/F58F/200M/EXT	Airmux ODU, default 5.8GHz, FCC/IC, 200 Mbps Ethernet, external ant	RAD DATA COMMUNICATI
DS5810720000	AIRMUX-400/IDUE/2GBE	AIRMUX-400 IDU-E,2 FE/GEBASET, SFP PORT AND ALARM INTERFACE, 19 IN	RAD DATA COMMUNICATI
DS5810760000	AIRMUX-400/ODU/F54E/200M/INT	Airmux ODU, factory default 5.4GHz, ETSI, 200 Mbps Ethernet throughput	RAD DATA COMMUNICATI
DS5810800000	AIRMUX-400/ODU/F58F/200M/INT	AIRMUX-400 INTEGRATED ODU,MULTI FREQ 5.XGHZ,DEFAULT 5.8GHZ FCC/IC 200M	RAD DATA COMMUNICATI
DS5810840000	AIRMUX-400L/ODU/F58F/EMB	AIRMUX-400 ODU,50M,EMBED,&CONN,MULTI-BAND 5.X,FCC/IC,DEFAULT 5.8FCC/IC	RAD DATA COMMUNICATI
DS5810880000	AIRMUX-400L/ODU/F49F/EMB	AIRMUX-400 ODU,50M,EMBED&CONN,MULTI-BAND 5.X,FCC/IC,DEFAULT 4.9FCC/IC	RAD DATA COMMUNICATI
DS5810890000	AIRMUX-400/ODU/F25F/100M/INT	Airmux-400 ODU 100M integrated ant,single band 2.5GHz FCC-BRS	RAD DATA COMMUNICATI
DS5810900000	AIRMUX-400/ODU/F25F/100M/EXT	Airmux-400 ODU 100M,Conn (2x N-type),single band 2.5 GHz FCC-BRS	RAD DATA COMMUNICATI
DS5811090000	AIRMUX-400/ODU/F24F/200M/INT	Airmux-400 Integrated ant, default 2.4GHz, FCC/IC, 200 Mbps	RAD DATA COMMUNICATI
DS5811100000	AIRMUX-400/ODU/F24F/200M/EXT	Airmux-400 Ext ant, default 2.4 GHz, FCC/IC, 200 Mbps	RAD DATA COMMUNICATI

DS5811360000	AIRMUX-400H/ODU/F58F/INT	AIRMUX-400H ODU, WITH AN INTEGRATED ANTENNA	RAD DATA COMMUNICATI
DS5811370000	AIRMUX-400H/ODU/F58F/EXT	AIRMUX-400H ODU, CONNECTORIZED FOR EXTERNAL ANTENNA	RAD DATA COMMUNICATI
DS582120600	582120600	NETSURE 801DB BDFB MODEL NUMBER 1293V3	EMERSON NETWORK POWE
DS582127000318751A	58212700020318751A	DC POWER SYSTEM, -48V, NETSURE 721 582127000	EMERSON NETWORK POWE
DS582127000318751B	58212700020318751B	DC POWER SYSTEM, -48V, NETSURE 721 582127000 DS582127000318751B	EMERSON NETWORK POWE
DS582136600	582136600	NETSURE 211 MINI POWER SYSTEM SCU+ CONTROLLER	EMERSON NETWORK POWE
DS582136600C	582136600	NETSURE 211 MINI POWER SYSTEM SCU+ CONTROLLER QUOTE 20316434	EMERSON NETWORK POWE
DS582136700	582136700	NETSURE 502 48V INTEGRATED SYSTEM, ACU+ CONTROLLER	EMERSON NETWORK POWE
DS582140000	582140000	DC POWER SYSTEM, NETSURE 802 POWER SYSTEM 208/240VAC INPUT VOLTAGE (L	EMERSON NETWORK POWE
DS588820200	588820200	BATTERY RACK, -48V, 23 INCH	EMERSON NETWORK POWE
DS588820200A	588820200	BATTERY RACK, -48V, 23 INCH QUOTE 20316432	EMERSON NETWORK POWE
DS588C	588C	5/8X8 SOLID CU GROUND ROD	HARGER INC
DS5950030000	AIRMUX-400H/ODU/F49F/INT	AIRMUX-400H ODU,INT ANT,MULTI FREQ AT 5.X GHZ,DFT 4.9 GHZ FCC/IC	RAD DATA COMMUNICATI
DS5950040000	AIRMUX-400H/ODU/F49F/EXT	AIRMUX-400H ODU,FOR EXT ANT,MULTI FREQ AT 5.X GHZ,DFT 5.8 GHZFCC/IC	RAD DATA COMMUNICATI
DS5AMFN03	5AMFN03	ATTENUATOR, 5W, 3DB, N(M) TO N(F) DC -4.0 GHZ	BIRD ELECTRONIC CORP
DS5AMFN06	5AMFN06	ATTENUATOR, 5W, 6DB, N(M) TO N(F) DC -4.0 GHZ	BIRD ELECTRONIC CORP
DS5ENP4P24WHPBERPV	99477805/5ENP4P24-WH-PBER-PV	CABLE, CAT 5E CABLE 1000 FT BOX - WHITE	GRAYBAR ELECTRIC CO
DS5PXNETCARD	DS5PXNETCARD	NETWORK CARD FOR ALL 5PX MODELS	SEPS INC
DS5PXR1000N007	5PXR1000N007	SPS, 5PX, 1000W, RACK MOUNT, 120V, SOFTWIRED, 7 MIN RUNTIME	SEPS INC
DS5PXR14401021	5PXR14401021	SPS, 5PX, 1440W, RACK MOUNT, 120V, SOFTWIRED, 21 MIN RUNTIME	SEPS INC
DS5PXR14404082	DS5PXR14404082	SPS, 5PX, 1440W, RACK MOUNT, 120V, SOFTWIRED, 82 MIN RUNTIME	SEPS INC
DS5PXR1440N003	DS5PXR1440N003	SPS, 5PX, 1440W, RACK MOUNT, 120V, SOFTWIRED, 3 MIN RUNTIME	SEPS INC
DS5PXR19201015	5PXR19201015	SPS, 5PX, 1920W, RACK MOUNT, 120V, SOFTWIRED, 15 MIN RUNTIME	SEPS INC
DS5PXR19202029	DS5PXR19202029	SPS, 5PX, 1920W, RACK MOUNT, 120V, SOFTWIRED, 29 MIN RUNTIME	SEPS INC
DS5PXR1920N003	DS5PXR1920N003	SPS, 5PX, 1920W, RACK MOUNT, 120V, SOFTWIRED, 3 MIN RUNTIME	SEPS INC
DS5PXR27001019	5PXR27001019	SPS, 5PX, 2700W, 3U RACK MOUNT, 120V, SOFTWIRED, 19 MIN RUNTIME	SEPS INC
DS5PXR27002035	DS5PXR27002035	SPS, 5PX, 2700W, 3U RACK MOUNT, 120V, SOFTWIRED, 35 MIN RUNTIME	SEPS INC
DS5PXRACKKIT2P	DS5PXRACKKIT2P	TWO-POST RACK-MOUNT KIT FOR EATON 5PX	SEPS INC
DS5PXRELAYCARD	DS5PXRELAYCARD	RELAY CARD FOR ALL 5PX MODELS	SEPS INC
DS5PXT1000N007	5PXT1000N007	SPS, 5PX, 1000W, TOWER, 120V, SOFTWIRED, 7 MIN RUNTIME	SEPS INC
DS5PXT14404082	DS5PXT14404082	SPS, 5PX, 1440W, TOWER, 120V, SOFTWIRED, 82 MIN RUNTIME	SEPS INC
DS5PXT1440N003	DS5PXT1440N003	SPS, 5PX, 1440W, TOWER, 120V, SOFTWIRED, 3 MIN RUNTIME	SEPS INC
DS5YRWARR15ONA85	UPG TO 5 YR WARR 15KW-85KW DSL	UPG TO 5 YR WARR 15KW-85KW DSL GENSETS - CUMMINS	CUMMINS NPOWER LLC
DS5YRWARR1GRC100	5 YEAR WARR EXT UP TO100KW	EXTENDS STD 2-YEAR WARRANTY TO 5 YEARS, GENERATORS UP TO 100KW	GENERAC POWER SYSTEM
DS60010000	60-010-000	KEYPAD, RCP FOR FE10K	SEPS INC
DS600SSD	600SSH	SURGE PROTECTOR	CAMBIUM NETWORKS LIM
DS6100008001	6100008-001	WLDMNT ASSY,PMNT BRKT,6IN OFFSET,MMOE (POLE MOUNT)	ALPHA TECHNOLOGIES L
DS61291210	612-912-10	CORDEX 3.1/3.6KW MODULE BLANK, ARGUS GREY	ALPHA TECHNOLOGIES L
DS613465W3	613-465-W3	CORDEX 250/400/650W MODULE BLANK, CHARCOAL	ALPHA TECHNOLOGIES L
DS613707W3	613-707-W3	CORDEX 2RU MODULE BLANK, CHARCOAL (1.8KW CXRF OR 2KW CXDF)	ALPHA TECHNOLOGIES L
DS613815195G1	61-38-15195-G1	2W SB 132-174MHZ, 4-WIN 2.075MHZ GB, 60DB GAIN	TX RX SYSTEMS INC
DS61389AAHHG1	613-89A-AHH-G1	806-869 MHZ 1X14 FLTR HI PWR UP HI PWR DOWN GRAY	TX RX SYSTEMS INC
DS61389ABHHG13	613-89A-BHH-G1-3	SBIII 806-869 MHZ, 800 MHZ 30WIN AC WITH 10MHZ NPSPAC PRV	TX RX SYSTEMS INC

DS6160H24NG	6160-H-24-NG	BATTERY, HIGH CAPACITY, 24VDC OUTPUT, NFPA, GRAY	TX RX SYSTEMS INC
DS6170010000	ETX-5300A-FAN	ETX-5300A FAN UNIT	RAD DATA COMMUNICATI
DS6170070000	ETX-5300A-PS/AC	ETX-5300A power supply unit, 100-240 VAC	RAD DATA COMMUNICATI
DS6170120000	ETX-5300A-MS/CH/S4	ETX-5300A multiservice I/O card, channelized, 4 STM-1/OC-3 ports	RAD DATA COMMUNICATI
DS6170130000	ETX-5300A-PSI	ETX-5300A AC power supply inlet	RAD DATA COMMUNICATI
DS6170170000	ETX-5300A-ETH/20XGE/UTP	ETX-5300A Ethernet IO service card, 20 GbE ports, UTP port	RAD DATA COMMUNICATI
DS6170210000	ETX-5300A-MC/4XFP/AT	ETX-5300A Main Card,quad 10GbEXFP port,adv.timing cap.,1588v2	RAD DATA COMMUNICATI
DS617050A2.0G1	61-70-50-A2.0-G1	2W SBII 450-470 MHZ 2.0 MHZ BW 80 DB GAIN	TX RX SYSTEMS INC
DS6183A06493G1	61-83A-06-493-G1	2W SBII 746-901 MHZ 3-WIN 80 DB GAIN	TX RX SYSTEMS INC
DS6183B50B12G1	61-83B-50-B12-G1	SIGNAL BOOSTER, 764-806 MHZ, SBII, 2 WAY, 60 DB GAIN, 12 MHZ BANDWIDTH	TX RX SYSTEMS INC
DS6183E15301G4	61-83E-15301-G4	BIRD 2W SBII 764-896 MHZ, 3-WIN, PORTABLE BDA	TX RX SYSTEMS INC
DS618909341G1	61-89A-09341-G1	TXRX REBANDABLE BDA 2W SBII 806-869 MHZ 18 MHZ BW 80/78 DB GAIN	TX RX SYSTEMS INC
DS6189A50A05G1	61-89A-50-A05-G1	2 W SB11 806-869MHZ 5 MHZ BW 80DB GAIN	TX RX SYSTEMS INC
DS6189A50A15G1	61-89A-50-A15-G1	2W SBII 806-869 MHZ 15 MHZ BW 80 DB GAIN	TX RX SYSTEMS INC
DS6189A50B15G1	61-89A-50-B15-G1	2W SBII 806-869 MHZ 15 MHZ BW 60 DB GAIN	TX RX SYSTEMS INC
DS6189A50C10G1	61-89A-50-C10-G1	2W SBII 806-869 MHZ 10 MHZ BW 45DB GAIN	TX RX SYSTEMS INC
DS6189A60A18N	61-89-A60-A18-N	2W SBII 806-869MHZ 18MHZ BW, 80DB, NFPA COMPLIANT W/O BATTERY	TX RX SYSTEMS INC
DS619G	6-19G	WIRE, #6 AWG THHN, 19 STRAND, GREEN (SOLD INDIVIDUALLY)	HARGER INC
DS62404	62404	DC POWER CORD CIGARETTE ADAPTER	AEROFLEX WICHITA INC
DS6260210000	AIRMUX-POE/GBE/ACUS	AIRMUX POE 100BASET/GE FOR AIRMUX-5000 BASE STATION W/AC POWER	RAD DATA COMMUNICATI
DS6260960000	AIRMUX-5000-BS-ANT/11/4959/FP	Airmux-5000 Base Flat ant, dual pol, gain 12dBi, 5.150-5.875 GHz, 120?	RAD DATA COMMUNICATI
DS63110	6311-0	ATS, 6311-0 TAS200; 2 POLE; 120/240VAC; 1PH; NEMA 3R; INCLUDES CAM-LOK	GENERAC POWER SYSTEM
DS63375	633-75	BATTERY PACK, 7500 MAH	ANRITSU COMPANY
DS6490010000	AIRMUX-5000/SU/F58F/50M/EXT	Airmux 5000HSU,Conn(2x N-type),multi freq 5.xGHz,default 5.8GHz FCC/IC	RAD DATA COMMUNICATI
DS6490020000	AIRMUX-5000/SU/F54E/50M/INT	Airmux 5000HSU,SU integrated ant,multi freq 5.xGHz,default 5.4GHz ETSI	RAD DATA COMMUNICATI
DS6490050000	AIRMUX-5000/BS/F54E/200M/EXT	Airmux 5000HBS,Base, Conn(2x N-type),multi freq 5.xGHz,default 5.4 GHz	RAD DATA COMMUNICATI
DS6490060000	AIRMUX-5000/BS/F58F/250M/EXT	AIRMUX 5000HBS,BASE CONN(2X N-TYPE),MULTI FREQ 5.XGHZ,DEFAULT 5.8GHZ	RAD DATA COMMUNICATI
DS6490090000	AIRMUX-5000/SU/F58F/50M/INT	AIRMUX 5000HSU INTEGRATED ANT,MULTI FREQ 5.XGHZ,DEFAULT 5.8GHZ FCC/IC	RAD DATA COMMUNICATI
DS6490100000	AIRMUX-5000-BS-ANT/15/4959/FP	AIRMUX-5000 BASE FLAT ANT, DUAL POL, GAIN 15DBI, 4.90-6.060GHZ, 60 DEG	RAD DATA COMMUNICATI
DS6490150000	AIRMUX-5000/SU/F3XF/20M/INT	Airmux 5000HSU integrated ant,multi freq 3.xGHz,default 3.65GHzFCC/IC	RAD DATA COMMUNICATI
DS6490160000	AIRMUX-5000-BS-ANT/14/3338/FP	Airmux-5000 Base Flat ant,dual pol, gain 14dBi, 3.3-3.8GHz bands	RAD DATA COMMUNICATI
DS6490170000	AIRMUX-5000/SU/F54E/50M/EXT	Airmux 5000HSU Conn(2x N-type),multi freq 5.xGHz,default 5.4GHz ETSI	RAD DATA COMMUNICATI
DS6490270000	AIRMUX-5000-BS-ANT/14/2327/FP	Airmux-5000 Base Flat ant, dual pol, gain 14dBi, 2.3-2.7 GHz bands	RAD DATA COMMUNICATI
DS6490280000	AIRMUX-5000/BS/F25F/100M/EXT	Airmux 5000HBS Base Conn(2x N-type)multi freq 2.5BR5GHz,default 2.5GHz	RAD DATA COMMUNICATI
DS6490360000	AIRMUX-5000/BS/F58F/MOB/EXT	Airmux-5000HBS Mobility Conn,multi freq 5.xGHz,default 5.8GHz FCC/IC	RAD DATA COMMUNICATI
DS6490380000	AIRMUX-5000/SU/F58F/MOB/EXT	Airmux-5000HSU Mobility Conn,multi freq 5.xGHz,default 5.8GHz FCC/IC	RAD DATA COMMUNICATI
DS6490420000	AIRMUX-5000/SU-ANT/10/4958/M/O	AIRMUX-5000 SU Mobile, Omni-directional ant, gain 10dBi, 4.9-5.875GHz	RAD DATA COMMUNICATI
DS6490430000	AIRMUX-5000/SU-ANT/12/4959/M/O	AIRMUX-5000 Mobile ant for Vehicular Omni-direct ant, 4.9-5.9GHz	RAD DATA COMMUNICATI
DS6490780000	AIRMUX-5000/SU/F58F/25M/SFFINT	Airmux-5000 Subscriber Unit, int ant, fact def 5.8 GHz FCC/IC	RAD DATA COMMUNICATI
DS6490790000	AIRMUX-5000/SU/F58F/25M/SFFEXT	Airmux-5000 Sub Unit,ext ant,fact def 5.8 GHz FCC/IC	RAD DATA COMMUNICATI
DS6490860000	AIRMUX-5000-SU-ANT/15/5759/M/O	AIRMUX-5000 SU Mobile Ant for Omni-directl ant, 5.725-5.875GHz	RAD DATA COMMUNICATI
DS6490990000	AIRMUX-5000/SU/F58F/10M/SFFINT	Airmux-5000 10Mbps Sub unit, fact def 5.8 GHz FCC/IC Integrated ant	RAD DATA COMMUNICATI
DS6491000000	AIRMUX-5000/SU/F58F/10M/SFFEXT	Airmux-5000 Sub unit 10Mbps fact def 5.8 GHz FCC/IC, External antenna	RAD DATA COMMUNICATI

DS6491190000	AIRMUX-5000/BS/F24F/200M/EXT	Airmux 5000 200M Base Conn for ext ant,default 2.4GHz FCC/IC	RAD DATA COMMUNICATI
DS6491210000	AIRMUX-5000/SU/F24F/50M/INT	Airmux-5000 50M SU Integrated ant, default 2.4GHz FCC	RAD DATA COMMUNICATI
DS6491220000	AIRMUX-5000/SU/F24F/50M/EXT	Airmux-5000 50M SU Conn ant, default 2.4GHz FCC	RAD DATA COMMUNICATI
DS6491310000	CAPACITY5000AIRMUX5000SU50M10	Airmux-5000 SU License Capacity Key from 50Mbps to 100Mbps	RAD DATA COMMUNICATI
DS6491910000	AIRMUX5000SUF58F50M/SFF/INT/HG	AIRMUX-5000 SU,HG INT ANT,MULTI FREQ AT 5.X GHZ,DEFT 5.8 GHZ FCC/IC	RAD DATA COMMUNICATI
DS6492070000	AIRMUX-5000/SU/F58F/50M/SFFEXT	AIRMUX-5000 HSU ODU,EXT ANT,MULTI FREQ AT 5.X GHZ,DEFT 5.8 GHZ FCC/IC	RAD DATA COMMUNICATI
DS6600D4	6600D4	GAS MANIFOLD 4 OUTLET	COMMSCOPE TECHNOLOGI
DS66010063001	66010063001	CRIMP TOOL FOR N-TYPE CONNECTOR	CAMBIUM NETWORKS LIM
DS6640010000	MP-4104-MN	MEGAPLEX-4104 MULTISERVICE ACCESS NODE, 2U EMPTY CHASSIS	RAD DATA COMMUNICATI
DS6640020000	MP-4104M-PS/48	Megaplex Power supply module for MP-4104, -48 VDC	RAD DATA COMMUNICATI
DS6640240000	MP-4104-2/48R/622GBESFPR/155SK	Megaplex-4104 Red -48 VDC & CL.2, OC-12 & SFP GE, OC3 port activated	RAD DATA COMMUNICATI
DS6640250000	MP-4104-2/48R/622GBEUTPR	Megaplex-4104 RED -48 VDC & CL.2 module, STM-4/OC-12 and UTP GbE ports	RAD DATA COMMUNICATI
DS6640260000	MP-4104-2/48R/622GBESFPR	Megaplex-4104 RED -48 VDC & CL.2 module, STM-4/OC-12 and SFP GE ports	RAD DATA COMMUNICATI
DS6640270000	MP-4104-2/48R/622GBEUTPR/155SK	Megaplex-4104 RED-48 VDC & CL.2, OC-12 & UTP GE, STM-1/OC3 activated	RAD DATA COMMUNICATI
DS6640280000	MP-4104-2/48R/DSOR	MEGAPLEX-4104 RED -48 VDC, RED DS0 CROSS CONNECT	RAD DATA COMMUNICATI
DS6640290000	MP-4104-2/48R/GBEASFPR	Megaplex-4104 RED -48 VDC & CL.2 module, SFP GbE port	RAD DATA COMMUNICATI
DS6640300000	MP-4104-2/48R/GBEAUTPR	Megaplex-4104 RED -48 VDC& CL.2 module, UTP GbE port	RAD DATA COMMUNICATI
DS6640310000	MP-4104-2/ACR/DSOR	MEGAPLEX-4104 RED 90 TO 260 VAC & 95 TO 300 VDC RED DS0 CROSS CONNECT	RAD DATA COMMUNICATI
DS6640320000	MP-4104-2/ACR/GBEASFPR	Megaplex-4104 RED 90 to 260 VAC & 95 to 300 VDC RED CL.2, SFP GbE port	RAD DATA COMMUNICATI
DS6640330000	MP-4104-2/ACR/GBEAUTPR	MEGAPLEX-4104 RED 90-260 VAC AND 95-300 VDC,RED CL.2, UTP GE PORT	RAD DATA COMMUNICATI
DS6640340000	MP-4104-2/ACR/622GBEUTP/155SK	MEGAPLEX-4104 RED 90-260VAC & 95-300VDC,OC-12&UTP GE, OC3 ACTIVATED	RAD DATA COMMUNICATI
DS6640350000	MP-4104-2/48R/622GBEASFPR	Megaplex-4104 RED -48VDC & CL.2, w/OC-12 & SFP GE ports	RAD DATA COMMUNICATI
DS6640360000	MP-4104-2/48R/622GBEASFPR155SK	Megaplex-4104 RED -48VDC & CL.2, W/OC-12 & SFP GE ports, OC3 activated	RAD DATA COMMUNICATI
DS6640370000	MP-4104-2/48R/622GBEAUTPR	Megaplex-4104 RED -48VDC & CL.2, w/OC-12 & UTP GE ports	RAD DATA COMMUNICATI
DS6640380000	MP-4104-2/48R/622GBEAUTPR155SK	Megaplex-4104 RED -48VDC & CL.2, w/OC-12 & UTP GE ports,OC3 activated	RAD DATA COMMUNICATI
DS6640460000	MP-4104-2/48/DS0/PACK5/H1	Megaplex-4104 IEEE 1613 Class-A/Level-1 Contact RAD for description	RAD DATA COMMUNICATI
DS6640470000	MP-4104-2/48R/DS0/PACK5/H1	Megaplex-4104 IEEE 1613 Class-A/Level-1 Contact RAD for description	RAD DATA COMMUNICATI
DS6640480000	MP-4104-2/48R/DSOR/PACK5/H1	Megaplex-4104 IEEE 1613 Class-A/Level-1 Contact RAD for description	RAD DATA COMMUNICATI
DS6640490000	MP-4104-2/ACR/622GBEAUTPR	MEGAPLEX-4104 RED 90-260VAC & 95-300VDC & CL.2, W/OC-12 & UTP GE PORTS	RAD DATA COMMUNICATI
DS6640500000	MP-4104-2/48/DS0	Megaplex-4104 -48 VDC, DS0 cross connect only	RAD DATA COMMUNICATI
DS6640510000	MP-4104-2/AC/DS0	Megaplex-4104 90 to 260 VAC and 100 to 300 VDC, DS0 cross connect only	RAD DATA COMMUNICATI
DS6640520000	MP-4104-2/48R/622GBEAUTP/155SK	Megaplex-4104 RED -48 VDC, STM-4/OC-12 & UTP GE, STM-1/OC3 activated	RAD DATA COMMUNICATI
DS6640700000	MP-4104-2/ACR/622GBEASFP/155SK	MP-4104 NEXT GEN MULTISERV ACCESS NODE,REDUNDANT AC, STM4/OC12	RAD DATA COMMUNICATI
DS6660010000	ETX-203AX/2SFP/2UTP2SFP	ETX-203AX 2 SFP ETH PORTS,2 UTP ETH PORTS,2SFP ETH PORTS	RAD DATA COMMUNICATI
DS6660020000	ETX-203AX/2SFP/4UTP	ETX-203AX CARRIER ETH DEMARC , 2 SFP ETH, 4 FE UTP	RAD DATA COMMUNICATI
DS6660590000	ETX-203AX/GE/2SFP/4SFP	ETX203AX CARRIER ETH DEMARCATION, 2 SFP ETH PORTS,4 SFP SLOTS	RAD DATA COMMUNICATI
DS6660670000	ETX-203AX/2UTP/4UTP	ETX-203AX CARRIER ETH DEMARC, FIXED & MODULAR UPLINK,2 UTPETH,4 UTPETH	RAD DATA COMMUNICATI
DS6670150000	CAP/P5001/AIRMUX-400L/50M-200M	AIRMUX-400L LICENSE CAPACITY KEY FROM 50MBPS TO 200	RAD DATA COMMUNICATI
DS6680170000	AIRMUX-400LC/ODU/F58F/25M/INT	AIRMUX-400LC 25M ODU, INT ANT,MULTI FREQ 5.XGHZ, DEFAULT 5.8GHZFCC/IC	RAD DATA COMMUNICATI
DS6680350000	CAPACITYP1050/400LC10M50M	AIRMUX-400LC LICENSE CAPACITY KEY FROM 10MBPS TO 50MBPS	RAD DATA COMMUNICATI
DS6680360000	CAPACITY/P2550/400LC/25M-50M	AIRMUX-400LC LICENSE CAPACITY KEY FROM 25MBPS TO 50MBPS	RAD DATA COMMUNICATI
DS6700070000	MP-4104M-CL.2/622GBESFP/155SK	MEGAPLEX MP-4104 CL.2, STM-4/OC-12 & SFP GE, STM-1/OC3 PORT ACTIVATED	RAD DATA COMMUNICATI
DS6700130000	MP-4104M-CL.2/DS0	MEGAPLEX MP-4104 COMMON LOGIC 2, DS0 CROSS CONNECT ONLY	RAD DATA COMMUNICATI

DS6700140000	MP-4104M-CL.2/622GBEASFP	Megaplex MP-4104 CL.2, STM-4/OC-12 & SFP GE ports	RAD DATA COMMUNICATI
DS6700150000	MP-4104M-CL.2/622GBEASFP/155SK	Megaplex MP-4104 CL.2, STM-4/OC-12 & SFP GE, STM-1/OC3 port activated	RAD DATA COMMUNICATI
DS6700160000	MP-4104M-CL.2/622GBEAUTP	Megaplex MP-4104 CL.2, STM-4/OC-12 & UTP GE ports	RAD DATA COMMUNICATI
DS6700170000	MP-4104M-CL.2/622GBEAUTP/155SK	Megaplex MP-4104 CL.2, STM-4/OC-12 & UTP GE ports, STM-1/OC3 activated	RAD DATA COMMUNICATI
DS6700180000	MP-4104M-CL.2/GBEASFP	MEGAPLEX MP-4104 CL.2, SFP GE PORT	RAD DATA COMMUNICATI
DS6700190000	MP-4104M-CL.2/GBEAUTP	MEGAPLEX MP-4104 CL.2, UTP GE PORT	RAD DATA COMMUNICATI
DS67009255001	67009255001	FLANGE HARDWARE KIT, PDR70 VALULINE	CAMBIUM NETWORKS LIM
DS67009255002	67009255002	FLANGE HARDWARE KIT (PDR 100)	CAMBIUM NETWORKS LIM
DS67076	67076	INTERNAL BATTERY OR SPARE BATTERY	AEROFLEX WICHITA INC
DS67135	67135	BACKPACK (FOR ANRITSU HANDHELD PRODUCTS)	ANRITSU COMPANY
DS67474	67474	TRIPOD	AEROFLEX WICHITA INC
DS6750030000	ETX-1300/ACR/32N	ETX-1300 GIGABIT ETHERNET AGGREGATION SWITCH,RED AC,32 EMPTY SFP SLOTS	RAD DATA COMMUNICATI
DS6750040000	ETX-1300/ACR/32UTP	ETX-1300 GBE AGGR. SWITCH, RED. AC PS, 32 10/100BASET UTP PORTS	RAD DATA COMMUNICATI
DS6760710000	FCD-IP/T1/U/FXS	FCD-IP T1 ACCESS UNIT INTEGRATED ROUTER,T1 PORT,UTP ETH PORT, 4 FXS	RAD DATA COMMUNICATI
DS6760720000	FCD-IP/T1/U/FXO	FCD-IP T1 ACCESS UNIT INTEGRATED ROUTER,T1 PORT,UTP ETH PORT, 4 FXO	RAD DATA COMMUNICATI
DS6760730000	FCD-IP/T1/U/E&M	FCD-IP with T!, Ethernet and E&M	RAD DATA COMMUNICATI
DS6762060000	FCD-IP/T1/U/S	FCD-IP T1 ACCESS ROUTER W/ INTEGRAL ROUTER	RAD DATA COMMUNICATI
DS6762970000	FCD-IP/T1/V24C/U/E&M	T1 INTEGRATED ACCESS DEVICE	RAD DATA COMMUNICATI
DS6764330000	FCD-IP/DC/T1/U/E&M	FCD-IP T1/FT1 NTU, DC 10/100 BT ETH UTP CONN. S.T1	RAD DATA COMMUNICATI
DS6765330000	FCD-IP/T1/SC13L/U/S	FCD-IP E1/T1 OR FRACT E1/T1 ACCESS UNIT, UTP PORT,SUB-E1/T1 PORT	RAD DATA COMMUNICATI
DS6765570000	FCD-IP/T1/ST85/2U/S	FCD-IP E1/T1 OR FRACT. E1/T1 ACCESS UNIT, 2UTP PORTS, SUB-E1/T1 PORT	RAD DATA COMMUNICATI
DS6766370000	FCD-IP/T1/4U/S	FCD-IP WITH T1 DROP & INSERT AND 4 ETHERNET PORTS	RAD DATA COMMUNICATI
DS6766500000	FCD-IP/T1/ST13L/U/E&M	FCD-IP E1/T1 ,T1 port,1310 nm SM laser,ST,UTP eth port, E&M VC	RAD DATA COMMUNICATI
DS6790000000	MINID-SW/DEMARC	MINID APPLICATION SOFTWARE, WITH SERVICE DEMARCATION SW	RAD DATA COMMUNICATI
DS6790080000	MINID/STU/GE/ACEX/CMB	MINID SMART MINI NID STANDALONE, 1 GBPS/PORT, AC PS 2 COMBO ETH PORTS	RAD DATA COMMUNICATI
DS67G	6-7G	WIRE, 6 AWG 7 STRAND CU THW GREEN INSULATED STRANDED COPPER GROUND WIR	HARGER INC
DS6800280000	SF2/S/48VDC/2GE8UTP/POE2AM	SF2 RUGG SCADA & ROUTING,-48DC,2 GE SFP,8 FE UTP, 2 PORTS W/AIRMUX POE	RAD DATA COMMUNICATI
DS6801120000	SF2/S/24VDC/2GE8UTP/POE2AM	SF2 Rugg SCADA & routing,-24DC,2 GE SFP,8 FE UTP, 2 ports w/Airmux POE	RAD DATA COMMUNICATI
DS6801540000	SF2/S/48V/2GE8UTP/POE4AM/RS232	SF2 RUGG SCADA-AWARE ETH SWITCH, ROUTING W/ SEC VPN,SERIAL GW, 48 VDC	RAD DATA COMMUNICATI
DS7005A970	7005A970	PC INTERFACE SOFTWARE	BIRD ELECTRONIC CORP
DS70071530920	70071530920	3M PELTOR SWAT-TAC III ADVANCED COMBAT HELMET (ACH) 88063-00000 1 EA/C	3M OCCUPATIONAL HEAL
DS70071543451	70071543451	3M PELTOR SWAT-TAC III ADVANCED COMBAT HELMET (ACH) 88063-B 1 EA/CASE	3M OCCUPATIONAL HEAL
DS70071573938	70071573938	3M PELTOR SWAT-TAC III ACCESSORY RAIL CONNECTOR (ARC) 88063-ARC 1 EA/C	3M OCCUPATIONAL HEAL
DS70071675741	70071675741	3M PELTOR SWAT-TAC III KIT 1 EA/CS HEADBAND - MOTOROLA APX SERIES PTT	3M OCCUPATIONAL HEAL
DS70071675758	70071675758	3M PELTOR SWAT-TAC III KIT 1 EA/CS BACKBAND - MOTOROLA APX SERIES PTT	3M OCCUPATIONAL HEAL
DS70071675766	70071675766	3M PELTOR SWAT-TAC III KIT 1 EA/CS HELMET RAIL ATTACHED- MOTOROLA APX	3M OCCUPATIONAL HEAL
DS7090004	709-0004	25-PAIR CABLES, RJ-21, M-F, 10FT [BASELINE PRODUCT]	ZETRON INC
DS7400057001	7400057-001	BATT HEATER PAD KIT, 120V, MICROSECURE, BHM-MS24-120	ALPHA TECHNOLOGIES L
DS74075121	740-751-21	KIT, POLE MNT, NOVUS MICRO SECURE	ALPHA TECHNOLOGIES L
DS74579220	745-792-20	OPTIONAL HANDLE, HONDA	ALPHA TECHNOLOGIES L
DS74579320	745-793-20	OPTIONAL WHEEL KIT , HONDA	ALPHA TECHNOLOGIES L
DS74702820072	747-028-20-072	TEMPERATURE SENSOR ASSEMBLY, 1/4 INCH LUG, 12 FEET	ALPHA TECHNOLOGIES L
DS7473121032	7473121032	FUSE PANEL, OSP GMT FRONT ACCESS WALL MOUNTED, 10 POSITIONS	WELDY LAMONT GROUP I

DS74762220000	747-622-20-000	BLANK, POWER MODULE, 1.2KW, BLACK PLASTIC	ALPHA TECHNOLOGIES L
DS7500192010	7500192010	FUSE TPA 10 AMP	ELTEK INC
DS7500192725	7500192725	TRIMM TPM 25 AMP BUSSMAN FUSE	ELTEK INC
DS751888400	7518884-00	POWER SUPPLY UNIT AC IN 100-240V 400W	COMMSCOPE TECHNOLOGI
DS7574288	7574288	800/900/PCS/2600 LTE NODE A COMBINER	COMMSCOPE TECHNOLOGI
DS757753201	7577532-01	NODE A 700 LTE 0.5W AMPLIFIER MODULE	COMMSCOPE TECHNOLOGI
DS757753401	7577534-01	DCM AF 7037	COMMSCOPE TECHNOLOGI
DS757753801	7577538-01	NODE A 800 MHZ PUBLIC SAFETY MODULE	COMMSCOPE TECHNOLOGI
DS757754201	7577542-01	NODE A CELL 850 MODULE	COMMSCOPE TECHNOLOGI
DS757755001	7577550-01	NODE A 1700 MHZ AWS MODULE	COMMSCOPE TECHNOLOGI
DS757755201	7577552-01	NODE A PCS 0.5W AMPLIFIER MODULE	COMMSCOPE TECHNOLOGI
DS7597820	7597820	NODE A OUTDOOR WALL MOUNT KIT	COMMSCOPE TECHNOLOGI
DS7597821	7597821	NODE A WALL MOUNT KIT	COMMSCOPE TECHNOLOGI
DS759884700	7598847-00	ADAPTOR SHEET PLATE	COMMSCOPE TECHNOLOGI
DS760243R	760-243-R	TRANSIT CASE WITH WHEELS (SITEMASTER 1560)	ANRITSU COMPANY
DS760254101	7602541-01	NODE A UHF 5W DCM AF 4037	COMMSCOPE TECHNOLOGI
DS7605119	7605119	COVER PLATE KIT COMBINER SLOT	COMMSCOPE TECHNOLOGI
DS760576900	7605769-00	POWER SUPPLY UNIT AC IN 100-240V 680W	COMMSCOPE TECHNOLOGI
DS7606983	7606983	NODE A COMBINER 4 BAND COMBINER - 700/800/AWS/PCS	COMMSCOPE TECHNOLOGI
DS761041302	7610413-02	ION-B COMBINER 7/85 & 19	COMMSCOPE TECHNOLOGI
DS761121700	7611217-00	DPX SUBRACK	COMMSCOPE TECHNOLOGI
DS761921800	7619218-00	COMBINER 758-824, 849-869, -1.5DB	COMMSCOPE TECHNOLOGI
DS762119500	7621195-00	PA DRAWER 728-776MHZ 45W	COMMSCOPE TECHNOLOGI
DS763744401	7637444-01	POWER SUPPLY UNIT AC IN 100-240V 850W	COMMSCOPE TECHNOLOGI
DS76407930172	7640793-0172	NODE A 4 POSITION SUBRACK 100-240VAC	COMMSCOPE TECHNOLOGI
DS76407930173	7640793-0173	NODE A+ 4 POSITION SUBRACK -48VDC	COMMSCOPE TECHNOLOGI
DS7641520000	MP-2100M-HS-2	Megaplex 2 port Megaplex High Speed Data Module (HS-2)	RAD DATA COMMUNICATI
DS7642670000	MP-2100M-CL.2/UTP	MEGAPLEX MP-2100 COMMON LOGIC BOARD	RAD DATA COMMUNICATI
DS7643850000	MP-2100/48/2UTP	MP-2100 chassis w/1 - 48VDC Power Supply and 1 Common Logic module	RAD DATA COMMUNICATI
DS7643930000	MP-2100M-ML-2T1	MEGAPLEX DUAL T1 MAIN LINK	RAD DATA COMMUNICATI
DS7644010000	MP-2100/48/R/2UTP	MP-2100 chassis RED- 48VDC & Common Logic modules	RAD DATA COMMUNICATI
DS7644130000	MP-2100M-ACM	MEGAPLEX ALARM & DIAGNOSTIC MODULE	RAD DATA COMMUNICATI
DS7645530000	MP-2100M-BP-I0/1	MEGAPLEX SINGLE SLOT IO BLANK PANEL	RAD DATA COMMUNICATI
DS7645540000	MP-2100M-BP-I0/2	MEGAPLEX 2 I/O SLOT BLANK PANEL FOR MP-2100	RAD DATA COMMUNICATI
DS7645690000	MP-2100M-LS12	MEGAPLEX 12 PORT RS-232 LOW SPEED DATA MOD REQUIRES CBL-LS12 CABLES.	RAD DATA COMMUNICATI
DS7645860000	MP-2100M-BP-PS	Megaplex Blank Panel for Power Supply	RAD DATA COMMUNICATI
DS7645870000	MP-2100M-BP-CL	Megaplex Blank Panel for Common Logic	RAD DATA COMMUNICATI
DS7646120000	MP-2100/24/2UTP	Megaplex 2100, 24 vdc, cl.2/utp	RAD DATA COMMUNICATI
DS7646130000	MP-2100/24/R/2UTP	Megaplex 2100 redundant 24 vdc power and common logic	RAD DATA COMMUNICATI
DS7646140000	MP-2100/115/2UTP	MEGAPLEX 2100 W/ NEW COMMON LOGIC, NO ML	RAD DATA COMMUNICATI
DS7646220000	MP-2100/115/R/2UTP	MEGAPLEX 2100 4U MODULAR MP, 115 VAC, RDNT 10BT MNG, P	RAD DATA COMMUNICATI
DS7646230000	MP-2100M-ML-1T1	MEGAPLEX SINGLE T1 MAIN LINK MODULE WITH 1 RJ-45/T1 WAN PORT	RAD DATA COMMUNICATI
DS7646750000	MP-2100M-VC16/E+M	MEGAPLEX 16 PORT E&M CARD	RAD DATA COMMUNICATI

DS7646760000	MP-2100M-VC16/FXO	Megaplex 16 port FXO module	RAD DATA COMMUNICATI
DS7646770000	MP-2100M-VC16/FXS	Megaplex 16 port FXS module	RAD DATA COMMUNICATI
DS7647290000	MP-2100M-VC-8/FXS	MEGAPLEX 8 PORT FXS VOICE MODULE REQUIRES CBL-VC8/FXSO	RAD DATA COMMUNICATI
DS7647540000	MP-2100M-MLF-1T1/ST/85	Megaplex T1 FIBER MAIN LINK FOR MP-2100, ST CONN 850NM LASER	RAD DATA COMMUNICATI
DS7647550000	MP-2100M-MLF-2T1/ST85	MP-2100/2104 2-PORT T1 FIBER ML MODULE, ST CONN, 850 NM MM	RAD DATA COMMUNICATI
DS7647670000	MP-2100M-VC-8/E+M	MEGAPLEX 8 PORT E&M CARD	RAD DATA COMMUNICATI
DS7647680000	MP-2100M-VC-8/FXO	MEGAPLEX 8 CHANNEL FXO CARD	RAD DATA COMMUNICATI
DS7648670000	MP-2100M-HS-ETH/F/UTP/4	Megaplex 4U module, 10/100BT 4 UTP.	RAD DATA COMMUNICATI
DS7649220000	MP-2100M-ML-IP/UTP/1E	MEGAPLEX TDMOIP MAIN LINK WITH ECHO CANCEL OPTION	RAD DATA COMMUNICATI
DS7649610000	MP-2100M-MLF-2T1/ST13L	Megaplex 3 PORT T1 FIBER MAIN LINK FOR MP-2100, ST CONN 1310NM LASER	RAD DATA COMMUNICATI
DS7649670000	MP-2100M-HS-ETH/SW/UTP/4	MEGAPLEX 4U MODULE, ETHERNET SWITCH, 10/100BT 4 UTP.	RAD DATA COMMUNICATI
DS7649690000	MP-2100M-ML-IP/ST/13L	MEGAPLEX FIBER ML-IP MAIN LINK,ST CONNECTOR,1310 NM LASER	RAD DATA COMMUNICATI
DS7649860000	RINGER-2200N/110	MEGAPLEX EXTERNAL -48 VDC RINGER MODULE. SUPPORTS UP TO 32 FXS PORTS.	RAD DATA COMMUNICATI
DS7650640000	MP-2104/48/2UTP	MEGAPLEX 2104 5 SLOT CHASSIS - 48VDC 1 COMMON LOGICMODULE.	RAD DATA COMMUNICATI
DS7650660000	MP-2104/230/2UTP	MP-2100 ACCESS MUX, 2U CHASSIS W/5 SLOTS,CL.2,230VAC,10BASET MGMT PORT	RAD DATA COMMUNICATI
DS7650680000	MP-2104/24/2UTP	Megaplex MP-2104 5 slot chassis w/24 VDC Power Supply	RAD DATA COMMUNICATI
DS7650730000	MP-2104/48/RI/2UTP	MEGAPLEX 2104 5 SLOT CHASSIS - 48VDC, 1 COMMON LOGIC MODULE, & RINGER	RAD DATA COMMUNICATI
DS7651140000	MP-2104/115/2UTP	MEGAPLEX 2104 E1/T1 MULTIPLEXER W/O MAIN LINK+ETH	RAD DATA COMMUNICATI
DS7651150000	MP-2104/115/2UTP/RI	Megaplex 2104 MULTIPLEXER W/ NEW ETH UTP CL & BUILT IN RINGER	RAD DATA COMMUNICATI
DS7651360000	MP-2100M-VC-4/E&M/OMNI	MEGAPLEX4 U MOD. VOICE MOD. 4 E&M AND OMNIBUS	RAD DATA COMMUNICATI
DS7651570000	MP-2100M-MLF-1T1/SC/13L	MEGAPLEX T1 FIBER MAIN LINK FOR MP-2100, SC CONN 1310NM LASER	RAD DATA COMMUNICATI
DS7651640000	MP-2100M-MLF-1T1/SC/85	Megaplex T1 FIBER MAIN LINK FOR MP-2100, SC CONN 850NM LASER	RAD DATA COMMUNICATI
DS7651710000	MP-2100M-MLF-2T1/SC13L	MP-2100 2-PORT T1 FIBER OPTIC MAIN LINK MODULE, SC CONN, 1310 NM LASER	RAD DATA COMMUNICATI
DS7651720000	MP-2100M-PS/115	MEGAPLEX 200 WATT POWER SUPPLY MODULE FOR MP-2100	RAD DATA COMMUNICATI
DS7651750000	MP-2100M-PS/48	MEGAPLEX POWER SUPPLY MODULE FOR MP-2100/2104, -48 VDC	RAD DATA COMMUNICATI
DS7651850000	MP-2100M-VC-16/E&M/POS	MEGAPLEX 4U VOICE MODULE 16CH E&M, TYPE 2, POSITIVE VOLTAGE	RAD DATA COMMUNICATI
DS7651860000	MP-2100M-VC-4/E&M	MEGAPLEX 4 CHANNEL PCM VOICE MODULE; E&M	RAD DATA COMMUNICATI
DS7651890000	MP-2100M-VC-8/E&M/POS	Megaplex 4U VOICE MODULE 8CH E&M, TYPE 2, POSITIVE VOLTAGE	RAD DATA COMMUNICATI
DS7651920000	MP-2100M-ML-8T1	Megaplex 8 PORT T1 Module for Megaplex chassis.	RAD DATA COMMUNICATI
DS7653140000	MP-2100M-HS-RN/V110	MEGAPLEX 4 PORT RS-232 MEGAPLEX LOW SPEED DATA MODULE (HS-R)	RAD DATA COMMUNICATI
DS765868200	7658682-00	CROSSBAND COUPLER 763-775 851-869	COMMSCOPE TECHNOLOGI
DS765868300	7658683-00	DUPLEXER UL-ACTIVE 788-805 806-824	COMMSCOPE TECHNOLOGI
DS7658761	7658761	UPGRADE RF-CABLE KIT 700MHZ	COMMSCOPE TECHNOLOGI
DS7660400000	MP-4104M-PS/AC	MP-4104 POWER SUPPLY, 90 TO 260 VAC AND 100 TO 300 VDC	RAD DATA COMMUNICATI
DS7660410000	MP-4104M-PS/48/FLG	Megaplex Power supply module for MP-4104, -48 VDC, floating ground	RAD DATA COMMUNICATI
DS7721830000	DXC-M/4T1	DXC FRAMED 4 PORT T1 MODULE FOR DXC-8R, DXC-10A,& DXC-30.	RAD DATA COMMUNICATI
DS7722100000	DXC-30-3/UTP/R/48	DXC-30 30 CHANNEL DACS W/ CL.3 COMMON LOGIC	RAD DATA COMMUNICATI
DS7723060000	DXC-M-T1B/ST/13L	DXC 3U 2-port T1 module, ST connector, 1310 nm single mode laser	RAD DATA COMMUNICATI
DS7723310000	DXC-M-4T1L	DXC 3U 4-PORT T1 MODULE, BERT, LTU, LOOPBACK PER TS, FRAMED	RAD DATA COMMUNICATI
DS7730070000	DXC-8R-3/UTP/AC	DXC-8 8 CHANNEL DACS UTP. AC POWER	RAD DATA COMMUNICATI
DS7730090000	DXC-8R-3/UTP/48	DXC-8 8 CHANNEL DACS UTP. DC Power	RAD DATA COMMUNICATI
DS78EXNM	78EXNM	RF CONNECTOR,N,MALE,STRAIGHT FOR AVA5-50 CABLE	CAMBIUM NETWORKS LIM
DS78EZNM	78EZNM-M	78EZNM-M N MALE MOT CONNECTOR (MOTOROLA SPECIFIC)	COMMSCOPE TECHNOLOGI

DS78HPT	78-HPT	78-HPT 7/8IN HAND PREP TOOL EZFIT	COMMSCOPE TECHNOLOGI
DS80200931	802-0093-1	PUNCHDOWN BLOCK, 50 PIN, CONNECTORI	ZETRON INC
DS8034260000	RM-35	RM-35 RACK MOUNT	RAD DATA COMMUNICATI
DS80DSFAEODDL	80DSFAE	GENERATOR, 80KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	CUMMINS NPOWER LLC
DS80DSFAESADL	80DSFAE W/LVL II SOUND ATTEN	80KW DIESEL GENERATOR, 1PH, SOUND ATTN HOUSING	CUMMINS NPOWER LLC
DS82553	82553	TRIPOD, DOLLY, STAND	AEROFLEX WICHITA INC
DS8271001001	8271001001	FUSE PANEL, 4TPA/5GMT FUSE PANEL	ELTEK INC
DS8411100234AA	8411100234AA	CIRCUIT BREAKER PANEL 16 POSITION 3RU	ELTEK INC
DS85009294001	85009294001	ANTENNA SYSTEM, PAR6 - 6FT SP ANTENNA, 5.925 - 7.125 GHZ WITH RADOME,	CAMBIUM NETWORKS LIM
DS85009294002	85009294002	PAR8 - 8FT SP ANTENNA, 5.925 - 6.425 GHZ WITH RADOME, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009294005	85009294005	PAR6 - 6FT SP ANTENNA, 10.7 -11.7 GHZ WITH RADOME, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009294006	85009294006	PAR8 - 8FT SP ANTENNA, 10.7 - 11.7 GHZ WITH RADOME, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009298001	85009298001	3FT HP ANTENNA, 5.925-7.125 GHZ, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009298002	85009298002	3FT HP ANTENNA, 7.10 -8.5 GHZ, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009298003	85009298003	3FT HP ANTE 10.70-11.70GHZ SING POL	CAMBIUM NETWORKS LIM
DS85009298004	85009298004	3FT HP ANTENNA, 12.70 -13.25 GHZ, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009298006	85009298006	3FT HP ANTENNA, 17.70 - 19.70 GHZ, SINGLE POL	CAMBIUM NETWORKS LIM
DS85009301001	85009301001	HP4 - 4FT SP ANTENNA, 10.7- 11.7 GHZ WITH RADOME, SINGLE	CAMBIUM NETWORKS LIM
DS85009303004	85009303004	6FT HP ANTENNA, 7.125 - 8.5 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85009304001	85009304001	2FT HP ANTENNA, 10.125-11.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85009304002	85009304002	3FT HP ANTENNA, 10.125-11.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85009304003	85009304003	4FT HP ANTENNA, 10.12-11.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85009304004	85009304004	6FT HP ANTENNA, 10.125 - 11.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85009316004	85009316004	ODU ORTHOGONAL MOUNTING KIT 11 GHZ	CAMBIUM NETWORKS LIM
DS85009317001	85009317001	ODU-B 11GHZ, TR 490 & 500, LO, B5 (10700.0 - 10890.0 MHZ)	CAMBIUM NETWORKS LIM
DS85009317002	85009317002	ODU-B 11GHZ, TR 490 & 500, HI, B5 (11200.0 - 11390.0 MHZ)	CAMBIUM NETWORKS LIM
DS85009317003	85009317003	ODU-B 11GHZ, TR 490 & 500, LO, B6	CAMBIUM NETWORKS LIM
DS85009317004	85009317004	ODU-B 11GHZ, TR 490 & 500, HI, B6	CAMBIUM NETWORKS LIM
DS85009317005	85009317005	ODU-B 11GHZ, TR 490 & 500, LO, B7	CAMBIUM NETWORKS LIM
DS85009317006	85009317006	ODU-B 11GHZ, TR 490 & 500, HI, B7	CAMBIUM NETWORKS LIM
DS85009318001	85009318001	ODU-B 18GHZ, TR1560, LO, B3	CAMBIUM NETWORKS LIM
DS85009318002	85009318002	ODU-B 18GHZ, TR1560, HI, B3	CAMBIUM NETWORKS LIM
DS85009319001	85009319001	ODU-B 23GHZ, TR1200, LO, B5 (21200.0 - 21600.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS85009319002	85009319002	ODU-B 23GHZ, TR1200, HI, B5 (22400.0 - 22800.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS85009319003	85009319003	ODU-B 23GHZ, TR1200, LO, B6 (21200.0 - 21600.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS85009319004	85009319004	ODU-B 23GHZ, TR1200, LO, B5 ((22800.0 - 23200.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS85009319005	85009319005	ODU-B 23GHZ, TR1200, LO, B5 (22000.0 - 22400.0 MHZ), RECTANGULAR WG,	CAMBIUM NETWORKS LIM
DS85009319006	85009319006	ODU-B 23GHZ, TR1200, LO, B5 ((23200.0 - 23600.0 MHZ), RECTANGULAR WG	CAMBIUM NETWORKS LIM
DS85009324001	85009324001	5 GHZ - 90 DEG SECTOR ANTENNA	CAMBIUM NETWORKS LIM
DS85009325001	85009325001	5 GHZ - 60? SECTOR ANTENNA (+FSK)	CAMBIUM NETWORKS LIM
DS85009328001	85009328001	HP4 - 4FT SP ANTENNA, 5.725 - 6.425	CAMBIUM NETWORKS LIM
DS85010089021	85010089021	6FT HP ANTENNA, 5.925-7.125 GHZ, SI	CAMBIUM NETWORKS LIM
DS85010089041	85010089041	2FT HP ANTENNA, 27.50-29.50 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM

DS85010089042	85010089042	2FT HP ANTENNA, 17.70 - 19.70 GHZ, SINGLE POL, E	CAMBIUM NETWORKS LIM
DS85010089043	85010089043	2FT HP ANTENNA, 21.20 -23.60 GHZ, SINGLE POL,	CAMBIUM NETWORKS LIM
DS85010089045	85010089045	2FT HP ANTENNA, 7.10-8.5 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089046	85010089046	2FT HP ANTENNA, 12.70 -13.25 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089047	85010089047	2FT HP ANTENNA, 14.40 -15.35 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089049	85010089049	2FT HP ANTENNA, 10.125 - 11.70GHZ, SINGLE POL,	CAMBIUM NETWORKS LIM
DS85010089050	85010089050	4FT HP ANTENNA, 5.925-7.125 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089051	85010089051	4FT HP ANTENNA, 7.125 - 8.5 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089052	85010089052	4 FT HP ANTENNA, 10.125 11.70 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089054	85010089054	4FT HP ANTENNA, 12.75 -13.25 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089057	85010089057	1 FT HP ANTENNA, 17.70 19.70 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089059	85010089059	1 FT HP ANTENNA, 21.20 23.60 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010089064	85010089064	1FT HP ANTENNA, 27.50 29.50 GHZ, SINGLE POL, MOT INTERFACE	CAMBIUM NETWORKS LIM
DS85010091005	85010091005	6FT HP ANTENNA, 10.70-11.70 GHZ, SINGLE POL, PDR100	CAMBIUM NETWORKS LIM
DS85010091017	85010091017	3FT HP ANTENNA, 10.125 - 11.70 GHZ, SINGLE POL, PDR100	CAMBIUM NETWORKS LIM
DS85010091019	85010091019	2FT HP ANTENNA, 10.125 - 11.70 GHZ, SINGLE POL, PDR100	CAMBIUM NETWORKS LIM
DS85010091022	85010091022	3FT HP ANTENNA, 5.925- 7.125 GHZ, SINGLE POL, PDR70	CAMBIUM NETWORKS LIM
DS85010091024	85010091024	4FT HP ANTENNA, 5.925 -7.125 GHZ, SINGLE POL, PDR70	CAMBIUM NETWORKS LIM
DS85010092006	85010092006	1FT HP ANTENNA, 17.70 - 19.70 GHZ, DUAL POL, PBR220	CAMBIUM NETWORKS LIM
DS85010092011	85010092011	1FT HP ANTENNA, 21.20 - 23.60 GHZ, DUAL POL, PBR220	CAMBIUM NETWORKS LIM
DS85010092042	85010092042	3 FT HP ANTENNA, 10.125 11.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85010092048	85010092048	3FT HP ANTENNA, 5.925-.125 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS85010092053	85010092053	2FT HP ANTENNA, 17.70 -19.70 GHZ, DUAL POL	CAMBIUM NETWORKS LIM
DS8700147001	8700147-001	BCK,MICRO350,48VDC,4X18AH	ALPHA TECHNOLOGIES L
DS87494620	874-946-20	BATTERY INTERFACE CABLE, HEAVY DUTY ALLIGATOR CLAMPS	ALPHA TECHNOLOGIES L
DS87532420	875-324-20	30FT OUTPUT INTERFACE CABLE, DCX3000	ALPHA TECHNOLOGIES L
DS87559622	875-596-22	WIRE KIT, BATTERY CABLE KIT, 4 BATTERIES, 50/30AH, NOVUS FXM1100, 6FT	ALPHA TECHNOLOGIES L
DS87755820000	877-558-20-000	AC LINE CORD W/O PLUG, 3C #12AWG, 3 METRES, RECTUANGULAR PIN REQUIRE 2	ALPHA TECHNOLOGIES L
DS87773520000	877-735-20-000	AC LINE CORD W/O PLUG, 3C #12AWG, 3 METRES	ALPHA TECHNOLOGIES L
DS87779019	877-790-19	120/240VAC LINE CORD 3M, #12AWG, C19R TO FLYING LEADS	ALPHA TECHNOLOGIES L
DS8800NFPAANT	88-00-NFPA-ANT	ANTENNA ALARM CONVERSION KIT FOR UHF SBII	TX RX SYSTEMS INC
DS8800OPT01	8800OPT01	8800OPT01 DMR	AEROFLEX WICHITA INC
DS8800OPT02	8800OPT02	8800OPT02 DPMR	AEROFLEX WICHITA INC
DS8800OPT03	8800OPT03	8800OPT03 NXDN	AEROFLEX WICHITA INC
DS8800OPT04	8800OPT04	8800OPT04 P25	AEROFLEX WICHITA INC
DS8800OPT05	8800OPT05	8800OPT05 P25 PHASE 2	AEROFLEX WICHITA INC
DS8800OPT06	8800OPT06	DMR REPEATER TEST (REQUIRES 8800OPT02)	AEROFLEX WICHITA INC
DS8800OPT09	8800OPT09	8800OPT09 ARIB T98	AEROFLEX WICHITA INC
DS8800OPT10	8800OPT10	8800OPT10 TRACKING GENERATOR	AEROFLEX WICHITA INC
DS8800OPT103	8800OPT103	8800OPT103 APX AUTO TEST ALIGNMENT	AEROFLEX WICHITA INC
DS8800OPT104	8800OPT104	8800OPT104 MOTOTRBO AUTO TEST ALIGNMENT	AEROFLEX WICHITA INC
DS8800OPT105	8800OPT105	8800OPT105 XTS/XTL AUTOTEST/ALIGNMENT REQUIRES 8800OPT04 P25	AEROFLEX WICHITA INC
DS8800OPT11	8800OPT11	8800OPT11 OCCUPIED BANDWIDTH	AEROFLEX WICHITA INC

DS8800OPT12	8800OPT12	8800OPT12 INTERNAL PRECISION POWER METER	AEROFLEX WICHITA INC
DS8800OPT128	8800OPT128	MOTOROLA APX 8000 AUTOTEST/ALIGNMENT (REQUIRES 8800OPT4)	AEROFLEX WICHITA INC
DS8800OPT129	8800OPT129	MOTOROLA APX "B" SERIES TEST/ALIGNMENT (REQUIRES DS8800OPT4)	AEROFLEX WICHITA INC
DS8800OPT13	8800OPT13	8800OPT13 PRECISION THRU-LINE METER	AEROFLEX WICHITA INC
DS8800OPT14	8800OPT14	8800OPT14 PTC	AEROFLEX WICHITA INC
DS8800OPT15	8800OPT15	8800OPT15 AAR CHANNEL PLAN	AEROFLEX WICHITA INC
DS8800OPT21	8800OPT21	CONTINUOUSLY VARIABLE NOTCH FREQUENCY FOR SINAD / DISTORTION METER	AEROFLEX WICHITA INC
DS8800OPT22	8800OPT22	SNR METER	AEROFLEX WICHITA INC
DS8800SXBASE	8800SX	8800SX ANALOG AND DIGITAL RADIO TEST SET	AEROFLEX WICHITA INC
DS8800SXMSI	8800SX-MSI PACKAGE BUNDLE	8800SX ANALOG AND DIGITAL RADIO TEST SET - MSI CONFIG	AEROFLEX WICHITA INC
DS89023	89023	GPSG-1000 MAINTENANCE MANUAL	AEROFLEX WICHITA INC
DS8983AA2020MB	89-83AA-20-2.0-MB	B14 MAIN FILTER 758-768 MHZ AND 788-798 MHZ	TX RX SYSTEMS INC
DS8983AE1010MB	89-83AE-20-1.0-MB	B14 DIVERSITY FILTER 758-768 MHZ AND 2400-2500 MHZ	TX RX SYSTEMS INC
DS89908	89908	MOUNTING BRACKET FOR AC27003 150W ATTENUATOR	AEROFLEX WICHITA INC
DS90106	90106	KIT, ANTENNA COUPLER PLACEMENT POLE 8 FT. & D-RING	AEROFLEX WICHITA INC
DS901108001	901108-001	850-960MHZ MIDDLE MODULE TO COMBINE 5 CHANNEL HYBRID COMBINERS	DBSPECTRA
DS9019019	901-9019	MODEL 25 PROGRAMMABLE ENCODER W/NUMERIC PAD & 29 INSTANT CALLS	ZETRON INC
DS9019196	901-9196	AUTOMATIC SWITCHOVER STANDBY SYSTEM	ZETRON INC
DS9019197	901-9197	LINE TRANSFER PANEL FOR STANDBY SYS	ZETRON INC
DS9019264	901-9264	ALI DISPLAY ADAPTER, MNTS 4 UNITS WORTH OF MODULES AND BLANK MOD PANEL	ZETRON INC
DS90323	90323	5U RACK MOUNT KIT FOR AEROFLEX 3920	AEROFLEX WICHITA INC
DS9050133	905-0133	110/120VAC 50/60HZ OPERATION - MODE	ZETRON INC
DS9050141	905-0141	MODEL 15P FIELD PROGRAMMABLE, MULTI-FORMAT ENCODER, DESKTOP	ZETRON INC
DS9050358	905-0358	MODEL 6302 ROIP GATEWAY DUAL CHANNEL	ZETRON INC
DS9050404	905-0404	MODEL 2200 PAGING TERMINAL WITH RAID DISK DRIVE	ZETRON INC
DS9050429	905-0429	S2000 PUBLIC SAFETY PAGING BUNDLE	ZETRON INC
DS9059050135	905-0135	SPARES KIT FOR MODEL 2200	ZETRON INC
DS90603	90603	US REGIONAL KIT INCL BLACK HARD TRANSIT CASE + ACCESSORIES; US PLUG	AEROFLEX WICHITA INC
DS90889	90889	INTL KIT INCL BLACK HARD TRANSIT CASE + ACCESSORIES; UNIVERSAL PLUG	AEROFLEX WICHITA INC
DS90890	90890	CHINA KIT INCL BLACK HARD TRANSIT CASE + ACCESSORIES; CHINA PLUG	AEROFLEX WICHITA INC
DS91136	91136	KIT, COUPLER DUAL ANTENNA GPS SYSTEM	AEROFLEX WICHITA INC
DS91137	91137	KIT, COUPLER TRIPLE ANTENNA GPS SYSTEM	AEROFLEX WICHITA INC
DS9125250072EBM	9125250072EBM	REPLACEMENT BATTERY, 9125-2500 UPS AND 72EBM	SEPS INC
DS9130EBM900R	DS9130EBM900R	EXTENDED BATTERY MODULE FOR 9130 RACK MOUNT UPS (630W & 900W ONLY)	SEPS INC
DS9130EBM900T	9130EBM900T	EXTENDED BATTERY MODULE FOR 9130 TOWER UPS (900W ONLY)	SEPS INC
DS9130NETCARD	116750222-001	NETCARD FOR POWERWARE 9130 MODELS ONLY	SEPS INC
DS9130R06302072	DS9130R06302072	UPS, 9130 RACKMNT, 700VA/630W, 72 MIN RUNTIME	SEPS INC
DS9130R06303105	DS9130R06303105	UPS, 9130 RACKMNT, 700VA/630W,105 MIN RUNTIME, SW	SEPS INC
DS9130R06304130	DS9130R06304130	UPS, 9130 RACKMNT, 700VA/630W, 130 MIN RUNTIME	SEPS INC
DS9130R09002055	9130R09002055	UPS, 9130 RACKMT,1000VA, 900W, 120V, SOFTWIRED, 55 MIN	SEPS INC
DS9130R09003083	DS9130R09003083	UPS, 9130 RACKMT,1000VA, 900W, 120V, SOFTWIRED, 83 MIN	SEPS INC
DS9130R09004108	DS9130R09004108	UPS, 9130 RACKMT,1000VA, 900W, 120V, SOFTWIRED, 108 MIN RUNTIME	SEPS INC
DS9130R0900N005	DS9130R0900N005	UPS, 9130 RACKMT, 1KVA/900W, 5 MIN RUN	SEPS INC

DS9130R13501023	DS9130R13501023	UPS, 9130 RACKMT, 1.5KVA/1.35KW, 23 MIN RUNTIME	SEPS INC
DS9130R13503067	DS9130R13503067	UPS, 9130 RACKMT, 1.5KVA/1.35KW, 1 HR 7 MIN RUNTIME	SEPS INC
DS9130T0630N006	9130T0630N006	UPS, 9130 TOWER, 700VA/630W, 6 MIN RUNTIME	SEPS INC
DS9130T09001030	9130T09001030	UPS, 9130 TOWER, 1KVA/900W, 30 MIN RUN	SEPS INC
DS9130T09002055	9130T09002055	UPS, 9130 TOWER, 1KVA/900W, 55 MIN RUN	SEPS INC
DS9130T09003083	DS9130T09003083	UPS, 9130 TOWER, 1KVA/900W, 83 MIN RUN, 120V	SEPS INC
DS9130T09004108	9130T09004108	UPS, 9130 TOWER, 1KVA/900W, 1 HR 48 MIN RUN	SEPS INC
DS9130T0900N005	9130T0900N005	UPS, 9130 TOWER, 1KVA/900W, 5 MIN RUNTIME	SEPS INC
DS9130T13501023	9130T13501023	UPS, 9130 TOWER, 1.5KVA/1.35KW, 23 MIN RUNTIME	SEPS INC
DS9130T13502048	9130T13502048	UPS, 9130 TOWER, 1.5KVA/1.35KW, 48 MIN RUNTIME	SEPS INC
DS9130T13503067	9130T13503067	UPS, 9130 TOWER, 1.5KVA/1.35KW, 67 MIN RUNTIME	SEPS INC
DS9130T13504091	DS9130T13504091	UPS, 9130 TOWER, 1.5KVA/1.35KW, 91 MIN RUNTIME, 120V SOFTWIRED	SEPS INC
DS9130T1350N005	9130T1350N005	UPS, 9130 TOWER, 1.5KVA/1.35KW, 5 MIN RUNTIME	SEPS INC
DS91679	91679	AEROFLEX COMBO STAND AND COVER	AEROFLEX WICHITA INC
DS917002D4N0006	917002D4N0006	UPS, 9170 3KVA/2.5KW, 6 MIN RUN	SEPS INC
DS917002D4N0006ISO	917002D4N0006ISO	DS917002D4N0006 W/ISOLATION OPTION	SEPS INC
DS917002D4N0016	917002D4N0016	UPS, 9170+ 3KVA/2.5KW, 16 MIN RUN	SEPS INC
DS917002D4N0016ISO	917002D4N0016ISO	DS917002D4N0016 W/ISOLATION OPTION	SEPS INC
DS917002D4N0027	917002D4N0027	UPS, 9170+ 3KVA/2.5KW, 27 MIN RUN	SEPS INC
DS917002D4N0027ISO	917002D4N0027ISO	DS917002D4N0027 W/ISOLATION OPTION	SEPS INC
DS917005D4N0006	917005D4N0006	UPS, 9170 6KVA/5KW, 6 MIN RUN	SEPS INC
DS917005D4N0006ISO	917005D4N0006ISO	DS917005D4N0006 W/ISOLATION OPTION	SEPS INC
DS917005D4N0016	917005D4N0016	UPS, 9170 6KVA/5KW, 16 MN RUN	SEPS INC
DS917005D4N0016ISO	917005D4N0016ISO	DS917005D4N0016 W/ISOLATION OPTION	SEPS INC
DS917005D4N0027ISO	917005D4N0027ISO	DS917005D4N0027 W/ISOLATION OPTION	SEPS INC
DS917007D4N0006	917007D4N0006	UPS, 9170 9KVA/7.5KW, 6 MIN RUN	SEPS INC
DS917007D4N0006ISO	917007D4N0006ISO	UPS, DS917007D4N0006 W/ISOLATION OPTION	SEPS INC
DS917007D4N0016	917007D4N0016	UPS, 9170 9KVA/7.5KW, 16 MIN RUN	SEPS INC
DS917007D4N0016ISO	917007D4N0016ISO	DS917007D4N0016 W/ISOLATION OPTION	SEPS INC
DS917007D4N0027	917007D4N0027	UPS, 9170 9KVA/7.5KW, 27 MIN RUN	SEPS INC
DS917007D4N0027ISO	917007D4N0027ISO	MOTO P/N DS917007D4N0027 W/ISOLATION OPTION	SEPS INC
DS917010D4D1030	917010D4D1030	UPS, 9170 12KVA/10KW, 30 MIN RUN	SEPS INC
DS917010D4D1030ISO	917010D4D1030ISO	MOT P/N DS917010D4D1030 W/ISOLATION OPTION	SEPS INC
DS917010D4N0006	917010D4N0006	UPS, 9170 12KVA/10KW, 6 MIN RUNTIME	SEPS INC
DS917010D4N0006ISO	917010D4N0006ISO	DS917010D4N0006 W/ISOLATION OPTION	SEPS INC
DS917010D4N0016	917010D4N0016	UPS, 9170 12KVA/10KW, 16 MIN RUN	SEPS INC
DS917010D4N0016ISO	917010D4N0016ISO	DS917010D4N0016 W/ISOLATION OPTION	SEPS INC
DS917012D4D1016	917012D4D1016	UPS, 9170 15KVA/12.5KW, 16 MIN RUN	SEPS INC
DS917012D4D1016ISO	917012D4D1016ISO	DS917012D4D1016 W/ISOLATION OPT	SEPS INC
DS917012D4D1030	917012D4D1030	UPS, 9170 15KVA/12.5KW, 30 MIN RUN	SEPS INC
DS917012D4D1030ISO	917012D4D1030ISO	DS917012D4D1030 W/ISOLATION OPT	SEPS INC
DS917012D4N0006	917012D4N0006	UPS, 9170 15KVA/12.5KW, 6 MIN RUN	SEPS INC
DS917012D4N0006ISO	917012D4N0006ISO	DS917012D4N0006 W/ISOLATION OPT	SEPS INC

DS917015D4D1016	917015D4D1016	UPS, 9170 18KVA/15KW, 16 MIN RUN	SEPS INC
DS917015D4D1016ISO	917015D4D1016ISO	DS917015D4D1016 W/ISOLATION OPTION	SEPS INC
DS917015D4D1027	917015D4D1027	UPS, 9170 18KVA/15KW, 27 MIN RUN	SEPS INC
DS917015D4D1027ISO	917015D4D1027ISO	DS917015D4D1027 W/ISOLATION OPTION	SEPS INC
DS917015D4D2031	917015D4D2031	UPS, 9170 18KVA/15KW, 31 MIN RUN	SEPS INC
DS917015D4D2031ISO	917015D4D2031ISO	DS917015D4D2031 W/ISOLATION OPTION	SEPS INC
DS917015D4D3060	917015D4D3060	UPS, 9170 18KVA/15KW, 1 HR RUN	SEPS INC
DS917015D4D3060ISO	917015D4D3060ISO	DS917015D4D3060 W/ISOLATION OPTION	SEPS INC
DS917015D4D4120ISO	917015D4D4120ISO	DS917015D4D4120 W/ISOLATION OPTION	SEPS INC
DS917015D4N0006	917015D4N0006	UPS, 9170 18KVA/15KW, 6 MIN RUN	SEPS INC
DS917015D4N0006ISO	917015D4N0006ISO	ISOLATION OPT FOR DS917015D4N0006ISO	SEPS INC
DS91706	91706	HARD TRANSIT CASE, BLACK	AEROFLEX WICHITA INC
DS9170ANCHORKIT	ASY-0548	ENCLOSURE ANCHOR KIT FOR EATON 9170 UPS. (REQ 1 SET PER UPS/BATT ENCL)	SEPS INC
DS9170MBATTCAB12	9170MBATTCAB12	BATTERY CABINET FOR 9170+, 12 SLOT (NO BATTERIES)	SEPS INC
DS9170MBATTMODULES	9170MBATTMODULES	BATTERY MODULE FOR 1 SLOT, 9170+ UPS (INCLUDES 2 BATTERY MODULES)	SEPS INC
DS9170MEXTERNALISO	9170MEXTERNALISO	EXTERNAL ISOLATION OPTION FOR 9170 MODELS	SEPS INC
DS9170MPOWERMODULE	9170MPOWERMODULE	POWER MODULE, 3KVA/2.5KW, 9170+	SEPS INC
DS9170MSNMPCARD	EATON # 116750222-001	OPTL SNMP/WEB INTERNAL ADAPTER CARD FOR EATON 9170+ UPS	SEPS INC
DS9170POWERMODULE	9170POWERMODULE	POWER MODULE, 3KVA/2.5KW, 9170 SPARE/REPLACE/EXP (9170 SYS LIMIT 15KW)	SEPS INC
DS9170SNMPCARD	EATON MODEL # 116760222-001	SNMP / WEB ADAPTOR CARD FOR EATON 9170+ UPS	SEPS INC
DS9170UPSENC12	DS9170UPSENC12	ENCLOSURE, 9170+ UPS 12 SLOT REPLACEMENT (PLS REF ORIGINAL SERIAL NO)	SEPS INC
DS91822	91822	KOREAN LANGUAGE OPTION	AEROFLEX WICHITA INC
DS91823	91823	MALAY-INDONESIAN LANGUAGE OPTION	AEROFLEX WICHITA INC
DS91827	91828	SIMPLIFIED CHINESE LANGUAGE OPTION	AEROFLEX WICHITA INC
DS91829	91829	SPANISH LANGUAGE OPTION	AEROFLEX WICHITA INC
DS9200073	920-0073	DC CABLE ASSEMBLY FOR USE WITH C5, C6, OR C7 AMPLIFIER MODELS	CRESCEND TECHNOLOGIE
DS920015A002	920015A002	1 RU HIGH EFFICIENCT POWER SUPPLY?X	CRESCEND TECHNOLOGIE
DS92723	92723	ACCESSORY KIT, PRECISION DTF/VSWR	AEROFLEX WICHITA INC
DS92739	92739	3GHZ RETURN LOSS BRIDGE	AEROFLEX WICHITA INC
DS92775	92775	CHINA REGIONAL KIT INCL SOFT SIDED CARRYING CASE + ACCES; CHINA PLUG	AEROFLEX WICHITA INC
DS92776	92776	INTL REGIONAL KIT INCL SOFT SIDED CARRYING CASE + ACCES; INTL PLUG	AEROFLEX WICHITA INC
DS92777	92777	US REGIONAL KIT INCL SOFT SIDED CARRYING CASE + ACCESSORIES; US PLUG	AEROFLEX WICHITA INC
DS92793	92793	5107D POWER SENSOR (REQUIRES DS8800OPT13)	AEROFLEX WICHITA INC
DS9355B013B2076	DS9355B013B2076	UPS, 9355 15KVA/13.5KW, 3PH, 76 MIN RUN TIME	SEPS INC
DS9355C018N0018	DS9355-C018N0018 & C027MBC	UPS, 9355 20KVA/18KW, 3PH, 18 MIN RUN	SEPS INC
DS9390E036L1036	DS9390E036L1036	UPS, 9390 40KVA/36KW, 3PH, 36 MIN RUN, 208V, SIDECAR BYPASS, HW	SEPS INC
DS9390E036S1022	9390E036S1022	UPS, 9390 40KVA/36KW, 3PH, 22 MIN RUN	SEPS INC
DS9390E045S1017	9390E045S1017	UPS, 9390 50KVA/45KW, 3PH, 17 MIN RUN	SEPS INC
DS9390E054L2060	DS9390E054L2060	UPS, 9390 60KVA/54KW, 3PH, 60 MIN RUN INCLS SIDECAR MAINT BYPASS	SEPS INC
DS9390E072L1029	9390E072L1029	UPS, 9390 80KVA/72KW, 3PH, 29 MIN RUN	SEPS INC
DS9390SNMPCARD	DQ140716RK1A-5	EATON 9390 SNMP (GATEWAY) CARD FOR 9390 UPS CONNECTIVITY OPT	SEPS INC
DS9500259	950-0259	LOGGING PRINTER PORT (MODEL 2200 ONLY)	ZETRON INC
DS9500385	950-0385	ITU VOICE CONTROLLER WITH 14 VOICE CHANNELS (1 MAXIMUM 2100, 2 MAXIMUM	ZETRON INC

DS9500406	950-0406	POWER SUPPLY, 100-240VAC INPUT, 12VDC OUTPUT	ZETRON INC
DS9500851	950-0851	M251 DC REMOTE BASE STATION ADAPTER	ZETRON INC
DS9500972	950-0972	SERIAL /ETHERNET ADAPTER FOR S2000 ZBASEW SUBSCRIBER DATABASE	ZETRON INC
DS9501225	950-1225	2000 SERIES QSEVEN SBC OPTION	ZETRON INC
DS9501267	950-1267	M2200 SATA HARD DRIVE OPTION FOR QSEVEN SBC	ZETRON INC
DS9509069	950-9069	SYSTEM VOICE PROMPTS (REQUIRES VOICE CONTROLLER)	ZETRON INC
DS9509108	950-9108	DUAL ALPHANUMERIC MESSAGING INPUT MODEM OPTION	ZETRON INC
DS9509196	950-9196	MULTIPOINT SERIAL TAP INTERFACE CARD, 2 PORTS ACTIVE	ZETRON INC
DS9509346	950-9346	TNPP NETWORK INTERFACE. 4-WIRE, FULL HANDSHAKE, 2 PORTS ACTIVE	ZETRON INC
DS9509380	950-9380	1 15VAC 50/60HZ POWER SUPPLY FOR ST	ZETRON INC
DS9509439	950-9439	TELEPHONE/RADIO HEADSET INTERFACE (TRHI) FOR ALL MODELS	ZETRON INC
DS9509781	950-9781	RADIO STATION CONTROL CARD W/FULL-ADDRESSING PURC EMULATION	ZETRON INC
DS9509782	950-9782	SPARE POWER SUPPLY, 200W FOR MODEL 2200	ZETRON INC
DS9509783	950-9783	SPARE POWER SUPPLY, 80W FOR MODEL 2100	ZETRON INC
DS9509784	950-9784	SPARE POWER SUPPLY, 48VDC FOR TELCO SUPERVISION	ZETRON INC
DS9509785	950-9785	SPARE MAINTENANCE MODEM	ZETRON INC
DS9509786	950-9786	EXTENDER CARD FOR BOARD MAINTENANCE	ZETRON INC
DS9509822	950-9822	DUAL TELEPHONE INTERFACE CARD, 2-WIRE.SUPPORTS 2 LINES	ZETRON INC
DS9509835	950-9835	SPARE MULTIPOINT SERIAL CARD FOR TAP	ZETRON INC
DS9509836	950-9836	SPARE TNPP INTERFACE. 4-WIRE, FULL HANDSHAKE	ZETRON INC
DS9540009BP3	277125/ CORNING C95-400-09-BP3	SC/ST/FC CRIMP RING FOR 3.0MM PACK OF 100	ANIXTER INC
DS9540051BP3N	CORNING 95-400-51-BP3N	UNICAM CONNECTOR BOOTS COMPATIBLE 3.0MM 100 PACK	ANIXTER INC
DS96200024	96-200024	AXELL DC/DC CONVERTER	AXELL WIRELESS
DS98121	98-121	BATTERY, 12V 75 AH SEALED MAINT-FREE FOR ALL TRIPP LITE APS MODELS	TRIPP LITE MANUFACTU
DS9940000000	9940000000	INSTALL KIT AM1 0-70A CKT BRKR	ELTEK INC
DS9940000002	9940000002	INSTALL KIT AM1 UP TO 70A BRKR NOLUG	ELTEK INC
DS9940000003	9940000003	INSTALL KIT AM1BRKR 100A NOLUG	ELTEK INC
DS9940000004	9940000004	MECH LUG CKT BKR INSTALL KIT	ELTEK INC
DS9PXXD72001016H	DS9PXXD72001016H	UPS, 9PX, 7200W, 208/240V, HARDWIRED, 16 MIN RUNTIME RACK MT OR TOWER	SEPS INC
DS9PXXD72005065H	9PXXD72005065H	UPS, 9PX, 7200W 208/240V HARDWIRED 65 MINUTE RUNTIME RACK MT OR TOWER	SEPS INC
DS9PXXD99902018H	9PXXD99902018H	UPS, 9PX, 9990W, 208/240V, HARDWIRED, 18 MIN RUNTIME	SEPS INC
DS9PXXD99903025H	9PXXD99903025H	UPS, 9PX, 9990W 208/240V HARDWIRED 25 MINUTE RUNTIME RACK MT OR TOWER	SEPS INC
DS9PXXD99904034H	9PXXD99904034H	UPS, 9PX, 9990W 208/240V HARDWIRED 34 MINUTE RUNTIME RACK MT OR TOWER	SEPS INC
DS9PXXEBM1800R	9PXXEBM1800R	EXTENDED BATTERY MODULE FOR EATON 9PX 1800W AND 2700W MODELS	SEPS INC
DS9PXXMBP2	9PXXMBP2	HOTSWAP MAINTENANCE BYPASS FOR 1800W MODELS	SEPS INC
DS9PXXMBP3	DS9PXXMBP3	HOTSWAP MAINTENANCE BYPASS FOR 2700W 9PX MODELS	SEPS INC
DS9PXXR13504100S	DS9PXXR13504100S	UPS, 9PX, 1350W, 120V, SOFTWIRED, 100 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR18001030S	DS9PXXR18001030S	UPS, 9PX, 1800W, 120V, SOFTWIRED, 30 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR18002060S	DS9PXXR18002060S	UPS, 9PX, 1800W, 120V, SOFTWIRED, 60 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR1800N008S	DS9PXXR1800N008S	UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR27001023S	DS9PXXR27001023S	UPS, 9PX, 2700W, 120V, SOFTWIRED, 23 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR27003064S	DS9PXXR27003064S	UPS, 9PX, 2700W, 120V, SOFTWIRED, 64 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR27004086S	DS9PXXR27004086S	UPS, 9PX, 2700W, 120V, SOFTWIRED, 86 MIN RUNTIME RACKMOUNT	SEPS INC

DS9PXXR2700N005S	DS9PXXR2700N005S	UPS, 9PX, 2700W, 120V, SOFTWIRED, 5 MIN RUNTIME RACKMOUNT	SEPS INC
DS9PXXR45001020H	DS9PXXR45001020H	UPS, 9PX, 4500W, 208/240V, HARDWIRED, 20 MIN RUNTIME RACK MOUNT	SEPS INC
DS9PXXR45002038S	DS9PXXR45002038S	UPS, 9PX, 4500W, 208/240V, SOFTWIRED, 38 MIN RUNTIME RACK MOUNT	SEPS INC
DS9PXXR4500N003H	DS9PXXR4500N003H	UPS, 9PX, 4500W, 208/240V, HARDWIRED, 3 MIN RACK MOUNT	SEPS INC
DS9PXXR54001016H	DS9PXXR54001016H	UPS, 9PX, 5400W, 208/240V, HARDWIRED, 16 MIN RUNTIME RACK MOUNT	SEPS INC
DS9PXXR54002028S	DS9PXXR54002028S	UPS, 9PX, 5400W, 208/240V, SOFTWIRED, 28 MIN RUNTIME RACK MOUNT	SEPS INC
DS9PXXRELAY	DS9PXXRELAY	RELAY CARD FOR ALL 9PX MODELS	SEPS INC
DS9PXXT18004120S	DS9PXXT18004120S	UPS, 9PX, 1800W, 120V, SOFTWIRED, 120 MIN RUNTIME TOWER	SEPS INC
DS9PXXT1800N008S	DS9PXXT1800N008S	UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME TOWER	SEPS INC
DS9PXXT45002038H	DS9PXXT45002038H	UPS, 9PX, 4500W, 208/240V, HARDWIRED, 38 MIN RUNTIME TOWER	SEPS INC
DS9PXXT4500N003H	DS9PXXT4500N003H	UPS, 9PX, 4500W, 208/240V, HARDWIRED, 3 MIN RUNTIME TOWER	SEPS INC
DS9PXXT54001016S	DS9PXXT54001016S	UPS, 9PX, 5400W, 208/240V, SOFTWIRED, 16 MIN RUNTIME TOWER	SEPS INC
DSA0284798	A0284798	BELDEN BIX MOUNTING BRACKET 2 CONNECTORS -QMBIX10C	GRAYBAR ELECTRIC CO
DSA0393146	A0393146	BELDEN 24P4P BIX CAT5 CONNECTOR DIST. STRIP (NO RJ45)	GRAYBAR ELECTRIC CO
DSA3050150212	DSA3050150212	UPS, APS 5KVA/4.5KW 208/240V, EXT MBB, ISO XFMR, 15 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA3050260312	DSA3050260312	UPS, APS 5KVA/4.5KW 208/240V, EXT MBB, ISO XFMR, 26 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA3050380412	DSA3050380412	UPS, APS 5KVA/4.5KW 208/240V, EXT MBB, ISO XFMR, 38 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4100310712	DSA4100310712	UPS, APS 10KVA/9KW 208/240V, EXT MBB, ISO XFMR, 31 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4100481012	DSA4100481012	UPS, APS 10KVA/9KW 208/240V, EXT MBB, ISO XFMR, 48 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4150050312	DSA4150050312	UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 5 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4150260912	DSA4150260912	UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 26 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4150381212	DSA4150381212	UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 38 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4150421312	DSA4150421312	UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 42 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4200150812	DSA4200150812	UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 15 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA4200472012	DSA4200472012	UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 47 MIN RUN AT FULL	CELL MANAGEMENT SYST
DSA420240512	DSA420240512	UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 240 MIN RUN 2 SP BATT	CELL MANAGEMENT SYST
DSA5DFD	A5DF-D	D-CLASS 7-16 DIN FEMALE FOR AVA5-50 CABLE	COMMSCOPE TECHNOLOGI
DSA5DMD	A5DM-D	D-CLASS 7-16 DIN MALE FOR AVA5-50 CABLE	COMMSCOPE TECHNOLOGI
DSA5FXEZPT	A5FX-EZPT	A5FX-EZPT CORREGATED 7/8IN CORING TOOL EXFIT- TO INSTALL 78EZDF CONNEC	COMMSCOPE TECHNOLOGI
DSA5NFS	A5NF-S	N FEMALE FOR AVA5-50 CABLE	COMMSCOPE TECHNOLOGI
DSA5NMS	A5NM-S	N MALE FOR AVA5-50 CABLE	COMMSCOPE TECHNOLOGI
DSA6AXFNPG	A6AXFNPG	AXIAL FAN, 6 INCH, COMPACT	ANIXTER INC
DSAA38L	AA-38L	AA-38L, GALVANIZED ANGLE ADAPTOR, LARGE W/ 3/8" TAPPED HOLES,PKG OF 10	TRILOGY COMMUNICATIO
DSAAGU	AA-GU	AA-GU, UNIVERSAL GALVANIZED ANGLE ADAPTOR, PKG OF 10	TRILOGY COMMUNICATIO
DSAAUS	AA-US	AA-US, SST ANGLE ADAPTOR, SNAP IN VERSION, PKG OF 10	TRILOGY COMMUNICATIO
DSABS50SSH	AB-S50-SSH	PIPE-TO-PIPE ADAPTER, ADAPTS 1.5IN TO 3.5IN TO 2-3/8IN TO 5IN OD PIPE	COMMSCOPE TECHNOLOGI
DSAC25083	AC25083	TRANSIT CASE WITH WHEELS (PELICAN) FOR AEROFLEX 3920	AEROFLEX WICHITA INC
DSAC27002	AC27002	ATTEN 20DB 50W ADAPTER N-F TO BNC-F ADAPTER N-M TO TNC-M	AEROFLEX WICHITA INC
DSAC27003	AC27003	AC27003 ATTENUATOR 20DB 150W ADAP N-F TO BNC-F ADAP N-M TO BNC-F	AEROFLEX WICHITA INC
DSAC27004	10192	SOFT-SIDED CARRYING CASE FOR 3550R	AEROFLEX WICHITA INC
DSAC601A	AC601A	4 CHANNEL VGA TO CAT5 SPLITTER/EXTENDER	BLACK BOX CORP
DSAC602A	AC602A	MINI-CAT5 VGA RECEIVER	BLACK BOX CORP
DSACATHS-01A	ACATHS-01A	ASSY,ASSY,ALIGN TOOL HSET	CAMBIUM NETWORKS LIM

DSACM500L1DMDFNLM1	ACM500-L1-DMDFNL-M1	ANTENNA AND CABLE MONITOR 136-225 MHZ, 500W, 12V	BIRD ELECTRONIC CORP
DSACMI500MDMDFNM	ACMI500-M-DMDFNM	ANTENNA & CABLE MONITOR 500W, 470-960MHZ, 7/16M-7/16F, NF, +(18-36)VDC	BIRD ELECTRONIC CORP
DSACP200BWM	1100-558	240V WIRE IN DEVICE 15 AMP	TRANSTECTOR SYSTEMS
DSACU1500AR2	ACU1500A-R2	KVM EXTENDER - DVI-D, USB 2.0, OVER CATX	BLACK BOX CORP
DSACU2209A	ACU2209A	SERVSWITCH DUAL-VIDEO CATX KVM EXTENDER, DUAL-ACCESS KIT	BLACK BOX CORP
DSACU5001A	ACU5001A	KVM EXTENDER FOR PS2 KYBS AND MICE	BLACK BOX CORP
DSACU5050AR2	ACU5050A-R2	VGA, USB KVM EXTENDER WITH AUDIO OVER CAT X CABLE	BLACK BOX CORP
DSACU6022A	ACU6022A	CATX EXTENDER USB 1 VGA W/ SERIAL AUDIO	BLACK BOX CORP
DSADP60SCP	AD-P60-SCP	ADAPTER CLAMP SET FOR UP TO 6-1/2 IN , 60DEG ANGLE LEGS	COMMSCOPE TECHNOLOGI
DSADP90SCP	AD-P90-SCP	BOOM GATE CLAMP SET, 5-1/2 IN TO 9-1/2 IN, 90DEG ANGLE LEGS	COMMSCOPE TECHNOLOGI
DSAE01DD1661100	AE01D-D1661-100	MT/XT300/40525A WALL SHELF 18.5IN X 12IN	COMMSCOPE TECHNOLOGI
DSAFBTET	AFB-TET	ANTENNA FLEXIBLE 380-430MHZ	PANORAMA ANTENNAS IN
DSAL4RPV501000	AL4RPV-50-1000-B	1000FT REEL - 1/2INCH AIR DI-ELECTRIC ALUMINUM CATVP HELIAX CABLE	COMMSCOPE TECHNOLOGI
DSAL4RPV503000	AL4RPV-50-300	3000FT REEL - 1/2INCH AIR DI-ELECTRIC ALUMINUM CATVP HELIAX CABLE	COMMSCOPE TECHNOLOGI
DSAL4RPV50500	AL4RPV-50-500	500FT REEL - 1/2INCH AIR DI-ELECTRIC ALUMINUM CATVP HELIAX CABLE	COMMSCOPE TECHNOLOGI
DSALARMBDGRC	ALARM BOARD GRC#0054660	ADD OF 2ND GENERAC ALARM BOARD	GENERAC POWER SYSTEM
DSALARMBDONA	ALARM BOARD CUMMINS	CUMMINS ALARM BOARD, 8-POINT (ADDS 8 DRY CONTACTS)	CUMMINS NPOWER LLC
DSALLSXMMMA	POLYPHASER AL-LSXM-MA	LOOP FILTER 2-6GHZ 10W (AL-LSXM-MA)	TRANSTECTOR SYSTEMS
DSALLSXMMME	AL-LSXM-ME	RF SPD, DC BLOCK FILTER, 2-6 GHZ 10 W NM NF, ALUMINUM	TRANSTECTOR SYSTEMS
DSALPUF140	ALPU-F140	HYBRID SPD, WEATHERIZED CONSTRUCTION FOR SPEEDS UP TO AND >1GBE, RJ45	TRANSTECTOR SYSTEMS
DSANT100	ANT-100	SH-362S SIGNAL HAWK FIELD STRENGTH ANT. 136-221 MHZ, SMA (M)	BIRD ELECTRONIC CORP
DSANT400	ANT-400	SH-362S SIGNAL HAWK FIELD STRENGTH ANT. 400-512 MHZ, SMA (M)	BIRD ELECTRONIC CORP
DSANT800	ANT-800	SH-362S SIGNAL HAWK FIELD STRENGTH ANT. 824-894 MHZ, SMA (M)	BIRD ELECTRONIC CORP
DSAP012J50	AP012J50	AP012J50, 1/2" PLENUM, 50OHM, CORRUGATED, JCKTED UL-910, CATVP PER FT	TRILOGY COMMUNICATIO
DSAP012U50	AP012U50	AP012U50, 1/2" CONDUIT CABLE, 50OHM, CORRUGATED, UL-444 PER FT	TRILOGY COMMUNICATIO
DSAP6012J50	AP6012J50	AP6012J50, 1/2"PLENUM, 50OHM, CORRUG(6GHZ), JCKTED UL-910,CATVP PER FT	TRILOGY COMMUNICATIO
DSAP8841	AP8841	RACK PDU 2G, METERED, ZEROU, 30A, 200/208V	CDW DIRECT LLC
DSAP8861	AP8861	RACK PDU 2G, METERED, ZEROU, 5.7KW, 208V	CDW DIRECT LLC
DSAP9564	AP9564	PDU, 1U, 20A, 120V,(10) 5-20;L5-20P	GRAYBAR ELECTRIC CO
DSAPEXIMAX808	1101-808-1	SPD, TYPE 1, 120/240VAC 1-PHASE NEMA 4X ENCLOSURE, SAD/MOV	TRANSTECTOR SYSTEMS
DSAPEXIMAX808M	1101-808-M-1	240/120 1 PHASE TYPE-1 METAL ENCLOSURE	TRANSTECTOR SYSTEMS
DSAPEXIMAX808MM	1101-808-MM-1	SPD, TYPE 2, 120/240VAC, 1-PHASE, NEMA 4X ENCLOSURE, MOV	TRANSTECTOR SYSTEMS
DSAPEXIMAX809	1101-809-1	SPD, TYPE 1, 120/208VAC, 3 PHASE NEMA 4X ENCLOSURE, SAD/MOV	TRANSTECTOR SYSTEMS
DSAPEXIMAX809M	1101-809-M-1	208/120 3 PHASE TYPE 1 METAL ENCLOSURE	TRANSTECTOR SYSTEMS
DSAPEXIMAX809MM	1101-809-MM-1	SPD, TYPE 2, 120/208VAC, 3-PHASE, NEMA 4X ENCLOSURE, MOV	TRANSTECTOR SYSTEMS
DSAPGBDFDF350	APG-BDFDF-350	SURGE ARRESTOR (350 V), 45-2170 MHZ	COMMSCOPE TECHNOLOGI
DSAPM0000USAC	APM0000USAC	POWER SUPPLY	RFI AMERICAS INC
DSAPM1317K248	APM1317K248	ADVANCED POWER MONITOR, 132-174 MHZ, 36-60 V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM1317K2AC	APM1317-K2AC	ADVANCED POWER MONITOR, 132-174 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM3852K2	APM3852-K2	ADVANCED POWER MONITOR, 380-520 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM3852K248	APM3852-K248	ADVANCED POWER MONITOR, 380-520 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM3852K2AC	APM3852-K2AC	ADVANCED POWER MONITOR, 380-520 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM7487K2	APM7487-K2	ADVANCED POWER MONITOR, 740-870 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI AMERICAS INC

DSAPM7487K248	APM7487-K248	ADVANCED POWER MONITOR, 740-870 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM7487K2AC	APM7487-K2AC	ADVANCED POWER MONITOR, 740-870 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM8796K2	APM8796-K2	ADVANCED POWER MONITOR, 870-960 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM8796K248	APM8796-K248	ADVANCED POWER MONITOR, 870-960 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPM8796K2AC	APM8796-K2AC	ADVANCED POWER MONITOR, 870-960 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI AMERICAS INC
DSAPSBATTERYSTRG	APSBATTERYSTRG	BATTERY STRING FOR LIEBERT APS UPS (CONSISTING OF TWO BATTERIES)	CELL MANAGEMENT SYST
DSAPTFDMDDB	APT-DFDM-DB	SURGE ARRESTOR, DM/DF, 806-960 AND 1700-2170	COMMSCOPE TECHNOLOGI
DSAQ012J50	AQ012J50	AQ012J50, 1/2"PLENUM RADIATING,50OHM,CORRUG,JCKTED UL-910,CATVP PER FT	TRILOGY COMMUNICATIO
DSAR012J50	AR012J50	AR012J50, 1/2" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAR078FX50	AR078FX50	7/8IN RADIATING, 50 OHM, LOW-SMOKE, FIRE RETARDANT JACKET	TRILOGY COMMUNICATIO
DSAR078J50	AR078J50	AR078J50, 7/8" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAR114J50	AR114J50	AR114J50, 1-1/4" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAR158J50	AR158J50	AR158J50, 1-5/8" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAR3100	AR3100	APC AR3100 42U NETSHELTER, 42DX23WX78H, BLACK	ANIXTER INC
DSARGB8	ARGB8	8 UNIT WALL MOUNT GROUND BAR ARRESTOR BRACKET	HARGER INC
DSASPA320	ASPA320	CLAMP MOUNTING	COMMSCOPE TECHNOLOGI
DSASPG931A	ASPG931	890-960 RADOME ANTENNA	PCTEL INC
DSASPIRO2U	ASPIRO2U	FRONT ACCESS 2U WITH LVBD, SINGLE PHASE, ACX ADVANCED CONTROLLER	WELDY LAMONT GROUP I
DSAT012FX50	AT012FX50	AT012J50, 1/2IN TRANSMISSION LINE,50OHM,FIRE RETARDANT PER FT	TRILOGY COMMUNICATIO
DSAT012J50	AT012J50	AT012J50, 1/2" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAT012J75	AT012J75	CABLE: AT012J75, 1/2" AIRCELL 75 OHM TRANSLINE BLACK POLY JCKT, PER FT	TRILOGY COMMUNICATIO
DSAT058J50	AT058J50	AT058J50, 5/8"TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAT078J50	AT078J50	AT078J50, 7/8" TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAT114J50	AT114J50	AT114J50, 1-1/4"TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAT158J50	AT158J50	AT158J50, 1-5/8"TRANSMISSION LINE,50OHM,BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAT8CLC	88008263 / MFG: AT8CLC	LNE CRDG 8COND STRGHT FSL 1000 FT	GRAYBAR ELECTRIC CO
DSAT8X8	88008264 / MFG: AT8X8	MODULAR PLUG-MOUNTING QTY 100	GRAYBAR ELECTRIC CO
DSATK4DTR02A	ATK4DTR02A	KIT 450-470MHZ 2 CH, DB4368 COMBINER, MILLED WINDOW FILTER, 8 CH RMC06	DBSPECTRA
DSATK4DTR03A	ATK4DTR03A	KIT 450-470MHZ 3 CH, DB4368 COMBINER, MILLED WINDOW FILTER, 8 CH RMC06	DBSPECTRA
DSATK4DTR04A	ATK4DTR04A	KIT 450-470MHZ 4 CH, DB4368 COMBINER, MILLED WINDOW FILTER, 8 CH RMC06	DBSPECTRA
DSATK4DTR05A	ATK4DTR05A	KIT 450-470MHZ 5 CH, DB4368 COMBINER, MILLED WINDOW FILTER, 8 CH RMC06	DBSPECTRA
DSATK4DTR06A	ATK4DTR06A	KIT 450-470MHZ 6 CH, DB4368 COMBINER, MILLED WINDOW FILTER, 8 CH RMC06	DBSPECTRA
DSATK851CF18R2	ATK851CF18R2	2 CHANNEL 800MHZ COMBINING KIT FOR ATS PROGRAM, 851-869 AND 806-824MHZ	DBSPECTRA
DSATK851CFR02	ATK851CFR02	2 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR03	ATK851CFR03	3 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR04	ATK851CFR04	4 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR05	ATK851CFR05	5 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR06	ATK851CFR06	6 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR07	ATK851CFR07	7 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR08	ATK851CFR08	8 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK851CFR09	ATK851CFR09	9 CHANNEL 800MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK928CFR04	ATK928CFR04	4 CHANNEL 900MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK928CFR05	ATK928CFR05	5 CHANNEL 900MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA

DSATK928CFR08	ATK928CFR08	8 CHANNEL 900MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK928CFR10	ATK928CFR10	10 CHANNEL 900MHZ COMBINER, FILTER, RXMC KIT	DBSPECTRA
DSATK928CR05	ATK928CR05	935-940MHZ CERAMIC COMBINER & 8 CHANNEL RXMC KIT NO FILTER N CONN	DBSPECTRA
DSATS4TMA44R	ATS4TMA4-4-R	TTA, 456-470 MHZ, FREQUENCIES ARE REQUIRED	DBSPECTRA
DSATS4TRXRMT	ATS4TRX-RMT	ATS4TRX-RMT, 450-470 MHZ, UHF TMA AND RXMC W/PDU	DBSPECTRA
DSATS8TMA10R	ATS8TMA10-R	ATS7TMA10-R, 806-816 MHZ TOWER TOP AMP W/ TEST PORT, 10MHZ PASSBAND	DBSPECTRA
DSATS8TMA18R	ATS8TMA18-R	ATS8TMA18-R, 806-824 MHZ TOWER TOP AMP W/ TEST PORT, 18MHZ PASSBAND	DBSPECTRA
DSATS8TMA3R	ATS8TMA3-R	DSATS8TMA3R TOWER TOP AMPLIFIER,806-824MHZ, 3MHZ PASSBAND	DBSPECTRA
DSATSSVC209	SVC 209	ATS SERVICE	DBSPECTRA
DSAU012J50	AU012J50	AU012J50,1/2"ULTRA-FLEX,50OHM,CORRUGATE,BLACK POLYETHYLENE JCKT PER FT	TRILOGY COMMUNICATIO
DSAVA550	AVA5-50	AVA5-50, COAXIAL CABLE, CORRUGATED COPPER,7/8 IN, BLACK PE JACKET	COMMSCOPE TECHNOLOGI
DSAX100798	AX100798	BELDEN 6P8C BIX MODULE CONNECTOR W/ RJ45- QCB1X36D	GRAYBAR ELECTRIC CO
DSB004008	B004-008	SWITCH, 8 PORT KVM SWITCH, (W/ON-SCREEN DISPLAY, PS/2, NON-EXPANDABLE)	TRIPP LITE MANUFACTU
DSB019000	B019-000	TWO-POST RACKMOUNT BRACKET FOR B021 AND B020 SERIES KVM SWITCH CONSOLE	TRIPP LITE MANUFACTU
DSB02000817	B020-008-17	SWITCH, 8 PORT KVM,17 INCH CONSOLE (WITH BUILT-IN SLIDE OUT KEYBOARD A	TRIPP LITE MANUFACTU
DSB02001617	B020-016-17	SWITCH, 16 PORT KVM SWITCH, 17 INCH CONSOLE (WITH BUILT-IN SLIDE OUT K	TRIPP LITE MANUFACTU
DSB020U0819IP	B020-U08-19-IP	NETDIRECTOR 19IN CONSOLE KVM WIITH BUILT-IN IP ACCESS - 8 PORT	TRIPP LITE MANUFACTU
DSB39003003	B39-00-3003	LS PLUS 300 120/208-3Y MOV 300 KA, STEEL ENCLOSURE, WITH DISCONNECT	TRANSTECTOR SYSTEMS
DSB82XPRBP	B82XPR (BP=BELOW PANEL MTG)	SPD, TYPE 1, 120/240VAC 1-PH (MNT BELOW PANEL)	RAYCAP INC
DSB82XRRBP	B82XRR (BP=BELOW PANEL MTG)	SPD, TYPE 2, 120/240VAC 1-PH (MNT BELOW PANEL)	RAYCAP INC
DSB84XPRBP	B84XPR (BP=BELOW PANEL MTG)	SPD, TYPE 1, 208/120VAC 3-PH (MNT BELOW PANEL)	RAYCAP INC
DSB84XRRBP	B84XRR (BP=BELOW PANEL MTG)	SPD, TYPE 2, 208/120VAC 3-PH (MNT BELOW PANEL)	RAYCAP INC
DSBA16067DIN	BA160-67-DIN	OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSBA16067DINT3	BA160-67-DIN-T3	OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, 3 DEG DT, PIM RATED	RFI AMERICAS INC
DSBA404041DIN	BA4040-41-DIN	DUAL OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSBA404067DIN	BA4040-67-DIN	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSBA4041DIN	BA40-41-DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSBA4057DIN	BA4057DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 330-420 MHZ, PIM RATED	RFI AMERICAS INC
DSBA4067DIN	BA40-67-DIN	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSBA8041DIN	BA80-41-DIN	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSBA8057DIN	BA80-57-DIN	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 330-420 MHZ, PIM RATED	RFI AMERICAS INC
DSBA8067DIN	BA80-67-DIN	OMNI. EXPOSED DIPOLE ARRAY, 6 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSBA8067DINT3	BA80-67-DIN-T3	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3DEG DT, PIM RA	RFI AMERICAS INC
DSBA8067DINT8	BA80-67-DIN-T8	OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI AMERICAS INC
DSBA808067DIN	BA8080-67-DIN	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSBAT110	BAT110	HIGH POWER ANNENUATOR FOR XTL/APX AUTOTUNE	FREEDOM COMMUNICATIO
DSBATBP90	BAT-BP90	SPARE BATTERY FOR R8000 W/O GLOVE CASE	FREEDOM COMMUNICATIO
DSBATT8000	BATT8000	BATTERY KIT FOR R8000, LI-ION (INCLUDES R8-HC GLOVE CASE)	FREEDOM COMMUNICATIO
DSBATT8100	BATT8100	SPARE BATTERY FOR R8100 ONLY (1 INCLUDED WITH R8100)	FREEDOM COMMUNICATIO
DSBATTERYMOD	NBATTMOD	BATTERY MODULE FOR LIEBERT NFINITY UPS	CELL MANAGEMENT SYST
DSBB0071SPILL1	BB0071SPILL1	SPILL CONTAINMENT FOR DDM85-15 4WX6H	ELTEK INC
DSBB0071SYS1	BB0071SYS1	DC POWER SYS, FP216 -48/600 2 BC41 R3 2BD4, 23IN DIST PANEL, REAR BUS	ELTEK INC
DSBB0073SPILL1	BB0073SPILL1	SPILL CONTAINMENT FOR DDM85-33 4WX6H	ELTEK INC

DSBB0073SYS1	BB0073SYS1	DC POWER SYS, FP216 -48/600A 2CBA31 R1 2BD2, DIST PANEL,	ELTEK INC
DSBB0080SPILL1	BB0080SPILL1	SPILL CONTAINMENT FOR DDM50-13 4WX6H	ELTEK INC
DSBB0112R1SYS1	BB0112R1SYS1	FP2 NOAH DC SYS, -48/300A D23A22 R6 2T2 2BW7. 7FT X 23IN	ELTEK INC
DSBB0147R1INV1	BB0147R1INV1	MX 2KW N+1 INVERTER; 48VDC INPUT, 120VAC/60HZ W/SNMP V3 19IN	ELTEK INC
DSBB0154R2SPILL1	BB0154R2SPILL1	SPILL CONTAINMENT FOR DDM100-25 3WX8H HWK 31-38	ELTEK INC
DSBB0155R3SPILL1	BB0155R3SPILL1	SPILL CONTAINMENT FOR DDM85-21 3WX8H HAWK 28-33	ELTEK INC
DSBB0160R3SPILL1	BB0160R3SPILL1	SPILL CONTAINMENT FOR DDM100-27 3WX8H HAWK 32-61	ELTEK INC
DSBB0204R1BAT1	BB0204R1BAT1	BATTERY C&D 105AH 48V BATTERY STRING TEL12-105FS-BST REFERENCE NMI-153	ELTEK INC
DSBB0224R1BAT1	BB0224R1BAT1	FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	ELTEK INC
DSBB8965CR	BB8965CR	896 - 970 MHZ BLACK, MOBILE COIL ANTENNA WITH ELASTOMER SPRING	LAIRD TECHNOLOGIES
DSBBA800	BBA-800	ISOLATED GROUND BUS BAR ASSEMBLY, 800A	NEWMAR
DSBBP1948V1100A	BBP1948V1100A	100A BATTERY DISCONNECT BREAKER PANEL	LAMARCHE MFG CO
DSBBP1948V1125A	BBP1948V1125A	BATTERY DISCONNECT, 125 AMP, 48 VDC 19 IN MOUNT	LAMARCHE MFG CO
DSBBP2348V1500A	BBP2348V1500A	500A BATTERY DISCONNECT	LAMARCHE MFG CO
DSBC2000A0110VC	BC2000-A01-10VC	CONTROLLER, 48V SYSTEM W/ ETHERNET, W/ CLEI	ELTEK INC
DSBC2000B0110VV	BC2000-B01-10VV	CONTROLLER, 24V, SYSTEM CONTROLLER W/ ETHERNET	ELTEK INC
DSBC3010	BC-30-10	BC-30-10 PIPE TO PIPE CLAMP, 10IN ROD KIT2	COMMSCOPE TECHNOLOGI
DSBCDUP01AA	BCDUP01AA	380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA
DSBCDUP01AD	BCDUP01AD	380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA
DSBCDUP01BA	BCDUP01BA	450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA
DSBCDUP01BD	BCDUP01BD	450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA
DSBCDUP01BRCKT	BCDUP01BRCKT	2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	DBSPECTRA
DSBCDUP02AA	BCDUP02AA	380-430MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA
DSBCDUP02AD	BCDUP02AD	380-430MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA
DSBCDUP02BA	BCDUP02BA	450-470MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA
DSBCDUP02BD	BCDUP02BD	450-470MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA
DSBCDUP02CA	BCDUP02CA	470-512MHZ, SINGLE CH DUPLEX SYSTEM AC POWER	DBSPECTRA
DSBCDUP03A	BCDUP03A	DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX AC PWR	DBSPECTRA
DSBCDUP03D	BCDUP03D	DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX DC PWR	DBSPECTRA
DSBCDUP04A	BCDUP04A	DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX AC PWR	DBSPECTRA
DSBCDUP04D	BCDUP04D	DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX DC PWR	DBSPECTRA
DSBCDUP05A	BCDUP05A	DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX AC PWR	DBSPECTRA
DSBCDUP05D	BCDUP05D	DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX DC PWR	DBSPECTRA
DSBCDUP06A	BCDUP06A	DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 90MHZ RX 935 941MHZ TX AC PWR	DBSPECTRA
DSBCDUP06D	BCDUP06D	DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 90MHZ RX 935 941MHZ TX DC PWR	DBSPECTRA
DSBCDUP07AA	BCDUP07AA	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 138-150MHZ	DBSPECTRA
DSBCDUP07AD	BCDUP07AD	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA
DSBCDUP07BA	BCDUP07BA	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA
DSBCDUP07BD	BCDUP07BD	2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA
DSBCDUP08AA	BCDUP08AA	SINGLE CH DUPL/HYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC, 138-150MHZ	DBSPECTRA
DSBCDUP08AD	BCDUP08AD	SINGLE CH DUPL/HYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA
DSBCDUP08BA	BCDUP08BA	SINGLE CH DUPL/HYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA
DSBCDUP08BD	BCDUP08BD	SINGLE CH DUPL/HYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA

DSBCH00008	BCH00008	8 CHANNEL SHORT HAUL COMBINER, CSC01, 100-960MHZ	DBSPECTRA
DSBCH00016	BCH00016	16 CHANNEL CONTROL STATION COMBINER, CSC01,100-960MHZ	DBSPECTRA
DSBCH11006	BCH11006	6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA
DSBCH11008	BCH11008	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA
DSBCH11016	BCH11016	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA
DSBCH11018	BCH11018	18 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA
DSBCH11032	BCH11032	32 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,764-869MHZ	DBSPECTRA
DSBCH11212	BCH11212	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA
DSBCH11216	BCH11216	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,896-960MHZ	DBSPECTRA
DSBCH11306	BCH11306	6 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA
DSBCH11316	BCH11316	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA
DSBCH11324	BCH11324	24 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02, 806-869MHZ	DBSPECTRA
DSBCH11408	BCH11408	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,350-405MHZ	DBSPECTRA
DSBCH11412	BCH11412	12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,400-475MHZ	DBSPECTRA
DSBCH11504	BCH11504	4 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	DBSPECTRA
DSBCH11508	BCH11508	8 CHANNEL CONTROL STATION COMBINER PASSIVE, CSC02 150-174MHZ	DBSPECTRA
DSBCH11604	BCH11604	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA
DSBCH11608	BCH11608	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA
DSBCH11616	BCH11616	16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,450-512MHZ	DBSPECTRA
DSBCH11704	BCH11704	4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,380-420MHZ	DBSPECTRA
DSBCH11808	BCH11808	8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA
DSBCRMC06EXP	BCRMC06-EXP	BCRMC06-EXP 8-CHANNEL EXPANSION	DBSPECTRA
DSBCRMC08U	BCRMC08U	380-512MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA
DSBCRMC08V	BCRMC08V	138-174MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA
DSBFD	BFD	BULKHEAD FLANGE MOUNT ADAPTER	TRANSTECTOR SYSTEMS
DSBGXZ60NFNFCNS	BGXZ-60NFNF-CNS	LIGHTNING ARRESTOR, COAX, N-TYPE, NF-NF, POLYPHASER	TRANSTECTOR SYSTEMS
DSBH114	BH-114	BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX,PKG OF 10	TRILOGY COMMUNICATIO
DSBH12	BH-12	BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX,PKG OF 10	TRILOGY COMMUNICATIO
DSBH158	BH-158	BH-158 BUTTERFLY HANGER FOR 1-5/8 AIRCELL COAX,PKG OF 10	TRILOGY COMMUNICATIO
DSBH58	BH-58	BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX,PKG OF 10	TRILOGY COMMUNICATIO
DSBH78	BH-78	BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX,PKG OF 10	TRILOGY COMMUNICATIO
DSBHK10010	BHK-100-10	BHK-100-10, HANGER HARDWARE 3/8" X 1" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY COMMUNICATIO
DSBHK3410	BHK-34-10	BHK-34-10,HANGER HARDWARE 3/8" X 3/4" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY COMMUNICATIO
DSBMAXMFT	BMAXMFT	ANTENNA 1/4 WAVE BLK	PCTEL INC
DSBMUF7603	BMUF7603	ANTENNA, 760-870 CLOSED COIL ELEVATED FEED, BLACK	PCTEL INC
DSBP24V282U	BP24V28-2U	24V EXTERNAL BATTERY PACK , SMART ONLINE UPS 24V RM 2U	TRIPP LITE MANUFACTU
DSBP36V152U	BP36V15-2U	36V EXTERNAL BATTERY PACK FOR SMART UPS, 36V RM 2U EXT BATTERY PACK	TRIPP LITE MANUFACTU
DSBP48V242U	BP48V24-2U	48V EXTERNAL BATTERY PACK, SMART UPS 48V RM 2U EXTERNAL	TRIPP LITE MANUFACTU
DSBP48V48RT4U	BP48V48RT4U	48V SHALLOW DEPTH EXTERNAL UPS BATTERY PACK 4U RM	TRIPP LITE MANUFACTU
DSBPK1948VL18R	BPK1948VL18R	19 IN 48V, 600A DISTRIBUTION PANEL, 18 POSITIONS (NO RETURN BAR)	LAMARCHE MFG CO
DSBPKR1912VL18RN	BPKR1912VL18RN	19 INCH 12V DISTRIBUTION PANEL WITH RETURN (NEGATIVE GROUND)	LAMARCHE MFG CO
DSBPKR1924VL18R	BPKR1924VL18R	19 INCH 24V DISTRIBUTION PANEL WITH RETURN (POSITIVE GROUND)	LAMARCHE MFG CO
DSBPKR1948VL18R	BPKR1948VL18R	19 INCH 48V DISTRIBUTION PANEL WITH RETURN	LAMARCHE MFG CO

DSBPKR1948VL18RC	BPKR1948VL18RC	48 VDC 19" BREAKER PANEL WITH REAR PROTECTIVE COVER	LAMARCHE MFG CO
DSBPV1948V14R	BPV1948V14R	SPLIT BUS BREAKER PANEL	LAMARCHE MFG CO
DSBPV1948V14RC	BPV1948V14RC	48 VDC 19" SPLIT BUS BREAKER PANE WITH REAR PROTECTIVE COVER	LAMARCHE MFG CO
DSBR19231U	BR1923-1U	BRACKET,19 INCH TO 23 INCH EXPANSION, 1U	ELTEK INC
DSBSA150C	BSA150C	BSA150C 144-174 MHZ, 3 DBD GAIN, GROUND PLANE, UHF(F)	PULSE ELECTRONICS IN
DSBSA150K	BSA150K	BASE ANTENNA OMDIR	PULSE ELECTRONICS IN
DSBSA406K	BSA406K	BASE ANTENNA OMDIR	PULSE ELECTRONICS IN
DSBSA450K	BSA450K	BASE ANTENNA OMDIR	PULSE ELECTRONICS IN
DSBSAKIT	BSAKIT	ANTENNA KIT	PULSE ELECTRONICS IN
DSBSR3308PSNFP	BSR 3308 PS NFPA-AC	SMR 800 REBANDABLE MINI SIGNAL BOOSTER, 33DBM COMP, 85DB GAIN, 3/8/10	AXELL WIRELESS
DSBT2XPRAP	BT2XPR (AP=ABOVE PANEL MTG)	SPD, TYPE 1, 120/240VAC 1-PH (MNT ABOVE PANEL)	RAYCAP INC
DSBT2XRRAP	BT2XRR (AP=ABOVE PANEL MTG)	SPD, TYPE 2, 120/240VAC 1-PH (MNT ABOVE PANEL)	RAYCAP INC
DSBT4XPRAP	BT4XPR (AP=ABOVE PANEL MTG)	SPD, TYPE 1, 208/120VAC 3-PH (MNT ABOVE PANEL)	RAYCAP INC
DSBT4XRRAP	BT4XRR (AP=ABOVE PANEL MTG)	SPD, TYPE 2, 208/120VAC 3-PH (MNT ABOVE PANEL)	RAYCAP INC
DSC000000L033A	C000000L033A	GIGABIT SURGE SUPPRESSOR (56V)	CAMBIUM NETWORKS LIM
DSC000000L056	C000000L056	WIRELESS MANAGER 4.0, INCLUDES 10 NODE LICENSES	CAMBIUM NETWORKS LIM
DSC000000L056A	C000000L056A	WIRELESS MANAGER 4.0, INCLUDES 10 NODE LICENSES	CAMBIUM NETWORKS LIM
DSC000000L057	C000000L057	WM 4.0 NODE LICENSE, QTY = 1	CAMBIUM NETWORKS LIM
DSC000000L057A	C000000L057A	WM 4.0 NODE LICENSE, QTY = 1	CAMBIUM NETWORKS LIM
DSC000000L058	C000000L058	WM 4.0 NODE LICENSE, QTY = 1	CAMBIUM NETWORKS LIM
DSC000000L062	C000000L062	WM 4.0 NODE LICENSE, HA, QTY = 1	CAMBIUM NETWORKS LIM
DSC000025L001A	C000025L001A	PTP 250 POE MAINS POWER SUPPLY	CAMBIUM NETWORKS LIM
DSC000025L002A	C000025L002A	3-PIN IEC MAINS POWER LEAD (USA)	CAMBIUM NETWORKS LIM
DSC000045K007	C000045K007A	PMP 450 20 TO UNCAPPED MBPS UPGRADE KEY	CAMBIUM NETWORKS LIM
DSC000065K018A	C000065K018A	PTP 650 128-BIT AES ENCRYPTION - PER ODU	CAMBIUM NETWORKS LIM
DSC000065K019A	C000065K019A	PTP 650 256-BIT AES ENCRYPTION PER ODU	CAMBIUM NETWORKS LIM
DSC000065K022A	C000065K022A	PTP 650 LITE(TO 125MBPS) TO FULL(TO 450) LINK CAP UPGRADE LIC PER ODU	CAMBIUM NETWORKS LIM
DSC000065K049A	C000065K049A	PTP 650 8-PORT T1 E1 SOFTWARE LICENSE PER END	CAMBIUM NETWORKS LIM
DSC000065K051A	C000065K051A	PTP 650 5/10/15/20 MHZ CHANNEL (UP TO 200MBPS) LICENSE PER END	CAMBIUM NETWORKS LIM
DSC000065K058A	C000065K058A	PTP 650L 10MHZ TO 30MHZ UPGRADE LICENSE PER END	CAMBIUM NETWORKS LIM
DSC000065L007A	C000065L007A	PTP 650 LPU AND GROUNDING KIT (1 KIT PER ODU)	CAMBIUM NETWORKS LIM
DSC000065L008A	C000065L008A	PTP 650 OPTICAL 1000BASELX ETHERNET SFP MODULE	CAMBIUM NETWORKS LIM
DSC000065L009A	C000065L009A	MULTI-MODE OPTICAL 1000BASESX SFP INTERFACE PER ODU	CAMBIUM NETWORKS LIM
DSC000065L010A	C000065L010A	GIGABIT ETHERNET 1000BASET SFP INTERFACE PER ODU	CAMBIUM NETWORKS LIM
DSC000065L043A	C000065L043A	NETWORK INDOOR UNIT (ONE PER END)	CAMBIUM NETWORKS LIM
DSC000065L044A	C000065L044A	NIDU - DC POWER CONNECTOR SPARE (10 PACK)	CAMBIUM NETWORKS LIM
DSC000070K003A	C000070K003A	PTP 700 PRECISE NETWORK TIMING SOFTWARE LICENSE - PER END	CAMBIUM NETWORKS LIM
DSC000070K004A	C000070K004A	PTP 700 GROUP ACCESS SOFTWARE LICENSE - PER END	CAMBIUM NETWORKS LIM
DSC000070K006A	C000070K006A	PTP 700 FIPS 140-2 UPGRADE INCLUDING 256-BIT AES - PER END	CAMBIUM NETWORKS LIM
DSC000070K007A	C000070K007A	PTP 700 UC APL UPGRADE (REQUIRES FIPS140-2) - PER END	CAMBIUM NETWORKS LIM
DSC000070K013A	C000070K013A	PTP 700 OVER-THE-AIR REKEY LICENSE - PER END	CAMBIUM NETWORKS LIM
DSC000070L010A	C000070L010A	AUTO-ALIGNING POSITIONER, QUICK DEPLOY	CAMBIUM NETWORKS LIM
DSC000081H002A	C000081H002A	PTP810 MMU MODEM MODULE	CAMBIUM NETWORKS LIM

DSC000082M001A	C000082M001A	PTP 820G, SINGLE MODEM, ETH ONLY	CAMBIUM NETWORKS LIM
DSC000082M004A	C000082M004A	PTP 820G, DUAL MODEM, ETH ONLY	CAMBIUM NETWORKS LIM
DSC000082M005A	C000082M005A	PTP 820G, DUAL MODEM, ETH + 16 E1/T1	CAMBIUM NETWORKS LIM
DSC000082M021B	C000082M021B	PTP 820G FIPS 140-READY, DUAL MODEM, ETH , 16 E1/T1	CAMBIUM NETWORKS LIM
DSC000082T010A	C000082T010A	PTP 820 NMS ADVANCED PACKAGE	CAMBIUM NETWORKS LIM
DSC009045A001A	C009045A001A	900 MHZ PMP 450I CONNECTORIZED ACCESS POINT	CAMBIUM NETWORKS LIM
DSC009045C001A	C009045C001A	900 MHZ PMP 450 CONNECTORIZED SUBSCRIBER MODULE	CAMBIUM NETWORKS LIM
DSC030045D901A	C030045D901A	PMP450 3.3-3.8GHZ 90 DEG SECTOR DUAL SLANT (OFDM) ANTENNA	CAMBIUM NETWORKS LIM
DSC036045A001A	C036045A001A	3.55-3.8 GHZ PMP 450 CONNECTORIZED ACCESS POINT	CAMBIUM NETWORKS LIM
DSC036045C002A	C036045C002A	3.55 - 3.8 GHZ PMP 450 SUBSCRIBER MODULE, 10 MBPS	CAMBIUM NETWORKS LIM
DSC036045C004A	C036045C004A	3.55-3.8 GHZ PMP 450 SUBSCRIBER MODULE, UNCAPPED	CAMBIUM NETWORKS LIM
DSC036045C006A	C036045C006A	3.55-3.8 GHZ PMP 450 CONNECTORIZED SUBSCRIBER MODULE, 10 MBPS	CAMBIUM NETWORKS LIM
DSC036045C008A	C036045C008A	3.55-3.8 GHZ PMP 450 CONNECTORIZED SUBSCRIBER MODULE, UNCAPPED	CAMBIUM NETWORKS LIM
DSC0431A4110	GEN CABLE C0431A.41.10	CABLE, 2C22 AWG POWER-LIMITD TRAY UNSHIELDED GRAY JACKET 1000FT REEL	ANIXTER INC
DSC045070H004A	C045070H004A	PTP 700 CONNECTORIZED END - US LINE CORD (GLOBAL)	CAMBIUM NETWORKS LIM
DSC045070H005A	C045070H005A	PTP 700 CONNECTORIZED+INTEGRATED END - US LINE CORD (GLOBAL)	CAMBIUM NETWORKS LIM
DSC050000D001	C050000D001A	CLIP (CASSEGRAIN LENS FOR IMPROVED PERFORMANCE)	CAMBIUM NETWORKS LIM
DSC050045A002A	C050045A002A	5 GHZ PMP 450I CONNECTORIZED ACCESS POINT (FCC)	CAMBIUM NETWORKS LIM
DSC050045A015A	C050045A015A	5 GHZ PMP 450I CONNECTORIZED ACCESS POINT (IC)	CAMBIUM NETWORKS LIM
DSC050045B003A	C050045B003A	5 GHZ PTP 450I END, CONNECTORIZED (FCC)	CAMBIUM NETWORKS LIM
DSC050045B004A	C050045B004A	5 GHZ PTP 450I END, INTEGRATED HIGH GAIN ANTENNA (FCC)	CAMBIUM NETWORKS LIM
DSC050045C001A	C050045C001A	5 GHZ PMP 450I CONNECTORIZED SUBSCRIBER MODULE	CAMBIUM NETWORKS LIM
DSC050045C002A	C050045C002A	5 GHZ PMP 450I SM, INTEGRATED HIGH GAIN ANTENNA	CAMBIUM NETWORKS LIM
DSC050065B029A	C050065B029A	PTP 650L (4.9 TO 6.05 GHZ) ODU (FCC)	CAMBIUM NETWORKS LIM
DSC050065H007A	C050065H007A	PTP 650 CONNECTORIZED END WITH AC SUPPLY (FCC/IC)	CAMBIUM NETWORKS LIM
DSC050065H008A	C050065H008A	PTP 650 CONNECTORIZED END WITH AC+DC ENHANCED SUPPLY (FCC/IC)	CAMBIUM NETWORKS LIM
DSC050065H009A	C050065H009A	PTP 650 INTEGRATED END WITH AC SUPPLY (FCC/IC)	CAMBIUM NETWORKS LIM
DSC050065H010A	C050065H010A	PTP 650 INTEGRATED END WITH AC+DC ENHANCED SUPPLY (FCC)	CAMBIUM NETWORKS LIM
DSC050065H012A	C050065H012A	PTP 650 CONNECTORIZED END WITH AC+DC ENHANCED SUPPLY (ROW ? EU)	CAMBIUM NETWORKS LIM
DSC050065H013A	C050065H013A	PTP 650 INTEGRATED END WITH AC SUPPLY (ROW)	CAMBIUM NETWORKS LIM
DSC050065H014A	C050065H014A	PTP 650 INTEGRATED END WITH AC+DC ENHANCED SUPPLY (ROW EU LINE CORD)	CAMBIUM NETWORKS LIM
DSC050065H023	C050065H023A	PTP 650S END WITH AC+DC ENHANCED SUPPLY (FCC)	CAMBIUM NETWORKS LIM
DSC050065H031A	C050065H031A	PTP 650 CONNECTORIZED END WITH AC-DC ENHANCED SUPPLY (ROW - US CORD)	CAMBIUM NETWORKS LIM
DSC050065H033A	C050065H033A	PTP 650 INTEGRATED END WITH AC+DC ENHANCED SUPPLY (ROW - U.S. LINE COR)	CAMBIUM NETWORKS LIM
DSC050065H035A	C050065H035A	PTP 650L END WITH AC SUPPLY (FCC)	CAMBIUM NETWORKS LIM
DSC054045B005A	C054045B005A	PTP 450 5 GHZ END - INTEGRATED (FCC)	CAMBIUM NETWORKS LIM
DSC054045B006A	C054045B006A	PTP 450 5 GHZ END - CONNECTORIZED (FCC)	CAMBIUM NETWORKS LIM
DSC054045C003	C054045C003B	PMP 450 SUBSCRIBER MODULE 20 MBPS	CAMBIUM NETWORKS LIM
DSC054045C004	C054045C004B	PMP 450 SUBSCRIBER MODULE UNCAPPED THROUGHPUT	CAMBIUM NETWORKS LIM
DSC058082M001A	C058082M001A	PTP 820 RFU-A EXTENDED MODULATION, 5.8_6LGHZ	CAMBIUM NETWORKS LIM
DSC060082R085A	C060082R085A	PTP 820 RFU-C,6LGHZ,TR252A,CH1W4,HI,6181.74-6301.69MHZ	CAMBIUM NETWORKS LIM
DSC060082R086A	C060082R086A	PTP 820 RFU-C,6LGHZ,TR252A,CH1W4,LO,5929.7-6049.65MHZ	CAMBIUM NETWORKS LIM
DSC060082R089A	C060082R089A	PTP 820 RFU-C,6LGHZ,TR252A,CH5W8,HI,6300.34-6420.29MHZ	CAMBIUM NETWORKS LIM

DSC060082R090A	C060082R090A	PTP 820 RFU-C,6LGHZ,TR252A,CH5W8,LO,6048.3-6168.25MHZ	CAMBIUM NETWORKS LIM
DSC060082R105A	C060082R105A	PTP 820 RFU-C,6HGHZ,TR160A,CH1W6,HI,6707.5-6772.5MHZ	CAMBIUM NETWORKS LIM
DSC060082R106A	C060082R106A	PTP 820 RFU-C,6HGHZ,TR160A,CH1W6,LO,6537.5-6612.5MHZ	CAMBIUM NETWORKS LIM
DSC060082R126A	C060082R126A	PTP 820 RFU-C,6HGHZ,TR500A,CH1W4,LO,6420-6580MHZ	CAMBIUM NETWORKS LIM
DSC070082D318A	C070082D318A	6 FT HIGH PERF ANTENNA, SINGLE-POLARIZED, 7.125?8.500 GHZ, UBR84	CAMBIUM NETWORKS LIM
DSC070082R149A	C070082R149A	PTP 820 RFU-C,7GHZ,TR161C,CH4W5,HI,7668-7727MHZ	CAMBIUM NETWORKS LIM
DSC070082R150	C070082R150A	PTP 820 RFU-C,7GHZ,TR161C,CH4W5,LO,7507-7566MHZ	CAMBIUM NETWORKS LIM
DSC070082R261A	C070082R261A	PTP 820 RFU-C,7GHZ,TR300A,CH1W5,HI,7434.5-7585.5MHZ	CAMBIUM NETWORKS LIM
DSC070082R262A	C070082R262A	PTP 820 RFU-C,7GHZ,TR300A,CH1W5,LO,7134.5-7285.5MHZ	CAMBIUM NETWORKS LIM
DSC070082R263A	C070082R263A	PTP 820 RFU-C,7GHZ,TR300A,CH6W10,HI,7584.5-7765.5MHZ	CAMBIUM NETWORKS LIM
DSC070082R264A	C070082R264A	PTP 820 RFU-C,7GHZ,TR300A,CH6W10,LO,7284.5-7465.5MHZ	CAMBIUM NETWORKS LIM
DSC080082R125A	C080082R125A	PTP 820 RFU-C,6HGHZ,TR500A,CH1W4,HI,6920-7080MHZ	CAMBIUM NETWORKS LIM
DSC080082R127A	C080082R127A	PTP 820 RFU-C,8GHZ,TR300A,CH5W8,HI,8144.5-8265.5MHZ	CAMBIUM NETWORKS LIM
DSC080082R128A	C080082R128A	PTP 820 RFU-C,8GHZ,TR300A,CH5W8,LO,7844.5-7965.5MHZ	CAMBIUM NETWORKS LIM
DSC100082D049A	C100082D049A	4 FT ULTRA HIGH PERF ANTENNA, DUAL-POLARIZED, 10.700?11.700 GHZ CPR90G	CAMBIUM NETWORKS LIM
DSC100082D050A	C100082D050A	6 FT HIGH PERF ANTENNA, SINGLE-POLARIZED, 10.700?11.700 GHZ, CPR90G	CAMBIUM NETWORKS LIM
DSC10CPUSENAI6	C-10-CPUSE-N-AI6	10DB, AIR DIRECTIONAL COUPLER, 698-2700, N	COMMSCOPE TECHNOLOGI
DSC110082B001A	C110082B001A	PTP 820S RADIO 11GHZ,TR500,CH1W6,HI,11185-11485MHZ	CAMBIUM NETWORKS LIM
DSC110082B002A	C110082B002A	PTP 820S RADIO 11GHZ,TR500,CH1W6,LO,10695-10955MHZ	CAMBIUM NETWORKS LIM
DSC110082B013A	C110082B013A	PTP 820S RADIO 11GHZ,TR500,CH7W13,HI,11425-11725MHZ	CAMBIUM NETWORKS LIM
DSC110082B014A	C110082B014A	PTP 820S RADIO 11GHZ,TR500,CH7W13,LO,10915-11207MHZ	CAMBIUM NETWORKS LIM
DSC110082B029A	C110082B029A	PTP 820C RADIO 11GHZ,TR500,CH1W6,HI,11185-11485MHZ	CAMBIUM NETWORKS LIM
DSC110082B030A	C110082B030A	PTP 820C RADIO 11GHZ,TR500,CH1W6,LO,10695-10955MHZ	CAMBIUM NETWORKS LIM
DSC110082B041A	C110082B041A	PTP 820C RADIO 11GHZ,TR500,CH7W13,HI,11425-11725MHZ	CAMBIUM NETWORKS LIM
DSC110082B042A	C110082B042A	PTP 820C RADIO 11GHZ,TR500,CH7W13,LO,10915-11207MHZ	CAMBIUM NETWORKS LIM
DSC110082M069A	C110082M069A	PTP 820 RFU-A EXTENDED MODULATION, 11GHZ	CAMBIUM NETWORKS LIM
DSC110082R057A	C110082R057A	PTP 820 RFU-C,11GHZ,TR490,CHLZ,HI,11185-11485MHZ	CAMBIUM NETWORKS LIM
DSC110082R058A	C110082R058A	PTP 820 RFU-C,11GHZ,TR490,CHLZ,LO,10695-10955MHZ	CAMBIUM NETWORKS LIM
DSC110082R059A	C110082R059A	PTP 820 RFU-C,11GHZ,TR490,CHHZ,HI,11425-11725MHZ	CAMBIUM NETWORKS LIM
DSC110082R060A	C110082R060A	PTP 820 RFU-C,11GHZ,TR490,CHHZ,LO,10915-11207MHZ	CAMBIUM NETWORKS LIM
DSC137CNDG	C137CNDG	WR137 WAVEGUIDE TP COAX TRANSITION	COMMSCOPE TECHNOLOGI
DSC15CPUSENAI6	C-15-CPUSE-N-AI6	15DB,AIR DIRECTIONAL COUPLER, 698-2700, N	COMMSCOPE TECHNOLOGI
DSC180082B005A	C180082B005A	PTP 820S RADIO 18GHZ,TR1560,CHALL,HI,19259-19710MHZ	CAMBIUM NETWORKS LIM
DSC180082B006A	C180082B006A	PTP 820S RADIO 18GHZ,TR1560,CHALL,LO,17699-18150MHZ	CAMBIUM NETWORKS LIM
DSC180082B011A	C180082B011A	PTP 820S RADIO 18WGHZ,TR1560,CHALL,HI,19259-19710MHZ	CAMBIUM NETWORKS LIM
DSC180082B012A	C180082B012A	PTP 820S RADIO 18WGHZ,TR1560,CHALL,LO,17699-18150MHZ	CAMBIUM NETWORKS LIM
DSC180082R029A	C180082R029A	PTP 820 RFU-C,18GHZ,TR1560,CHF,HI,19259-19710MHZ	CAMBIUM NETWORKS LIM
DSC180082R030A	C180082R030A	PTP 820 RFU-C,18GHZ,TR1560,CHF,LO,17699-18150MHZ	CAMBIUM NETWORKS LIM
DSC20CPUSENAI6	C-20-CPUSE-N-AI6	20DB,AIR DIRECTIONAL COUPLER, 698-2700, N	COMMSCOPE TECHNOLOGI
DSC230082B003A	C230082B003A	PTP 820S RADIO 23GHZ,TR1200/1232,CHLOW,HI,22400-23020MHZ	CAMBIUM NETWORKS LIM
DSC230082B004A	C230082B004A	PTP 820S RADIO 23GHZ,TR1200/1232,CHLOW,LO,21200-21800MHZ	CAMBIUM NETWORKS LIM
DSC23F1MP	C23F-1MP	PANORAMA FME(F) MPL(M) 1M CS23 CABLE ANTENNA	PANORAMA ANTENNAS IN
DSC240NMNM6	C240-NMNM-6	CNT-240 CNT 6 FT JUMPER WITH INTERFACE TYPES N MALE AND N MALE	COMMSCOPE TECHNOLOGI

DSC30TCPUSEN	C-30-TCPUSE-N	30 DB, DIRECTIONAL COUPLER, 380-2700 MHZ	COMMSCOPE TECHNOLOGI
DSC321729INV1	C321729INV1	INVERTER, 250VA, 48VDC/120VAC	ELTEK INC
DSC32179INV1	C32179INV1	INVERTER, 250VA, 48VDC/120VAC	ELTEK INC
DSC331ST2SNFD1G10	SC331-ST2SNF(D01-G10)	COLLINEAR OMNI, 10 DBD, STRAIGHT RADOME, 1DEG DT, 410-430 MHZ	SINCLAIR TECHNOLOGIE
DSC332497SYS1	C332497SYS1	DC POWER SYSTEM, FP2 48V/1200A SEISMIC 2BD800, 23IN RACK MOUNT	ELTEK INC
DSC35	C35	BOGEN C35 AMPLIFIER 35 WATT	ANIXTER INC
DSC479HF1LDFE5765I	SC479-HF1LDF(D00I-E5765)	COLLINEAR OMNI, 9 DBD, NULL FILL, 746-869, LOW PIM,HD PIP RATED, INVRT	SINCLAIR TECHNOLOGIE
DSC6ABC51BL1000	C6ABC51-BL-1000	CAT6A SOLID PLENUM 1000 FT BLUE	BLACK BOX CORP
DSC6ABC51SBL1000	C6ABC51S-BL-1000	CAT6A 500-MHZ BULK CABLE ? F/UTP, PLENUM, SOLID, BLUE, 1000-FT.	BLACK BOX CORP
DSC6AFP70S24	C6AFP70S-24	CAT6A SHIELDED FEED-THROUGH PATCH PANEL, 24-PORT, 1U	BLACK BOX CORP
DSC6APC80SBL03	C6APC80S-BL-03	GIGATRUE 3 CAT6A PATCH CORD BLUE 3FT	BLACK BOX CORP
DSC6CPUSEN	C-6-CPUSE-N	C-6-CPUSE-N 6 DB COUPLER 698-2700 N	COMMSCOPE TECHNOLOGI
DSC6CPUSENAI6	C-6-CPUSE-N-AI6	6DB, AIR DIRECTIONAL COUPLER, 698#2700,N	COMMSCOPE TECHNOLOGI
DSC8CPUSEN	C-8-CPUSE-N	C-8-CPUSE-N 8 DB COUPLER 698-2700 N	COMMSCOPE TECHNOLOGI
DSC8CPUSENAI6	C-8-CPUSE-N-AI6	8 DB, AIR DIRECTIONAL COUPLER, 698?2700 MHZ	COMMSCOPE TECHNOLOGI
DSCA210203104	CA210203104	ALARM CABLE, 10 FT, 24AWG SOLID, AMP CON	ELTEK INC
DSCA210203105	CA210203105	ALARM CABLE,50FT ,24AWG SOLID,AMP CON	ELTEK INC
DSCA24	CA-24	CONN./WIRE ASSEMBLY, 24 IN.	NEWMAR
DSCA312181178	CA312181178	ALARM CABLE 10FT HM & JM SHELF ONLY	ELTEK INC
DSCALFB3550	CALFB3550	CALIBRATION CERTIFICATE AEROFLEX 3550R	AEROFLEX WICHITA INC
DSCALFB8800	CALFB8800	CALIBRATION CERTIFICATE - 8800	AEROFLEX WICHITA INC
DSCAM0000	CAM0000	CHANNEL ALARM MODULE PTT ACTIVATED 10 CHAN 4 EXT ALARM INPUTS, 9-36VDC	RFI AMERICAS INC
DSCAM000048	CAM000048	CHANNEL ALARM MODULE PTT ACTIVATED 10 CHAN 4 EXT ALARM INPUTS 36-60VDC	RFI AMERICAS INC
DSCANFNF	CA-NFNF	ADAPTOR: STRAIGHT N FEMALE - N FEMALE	COMMSCOPE TECHNOLOGI
DSCATNMDF	CA-TNMDF	COAXIAL ADAPTOR (TRIMETAL)	COMMSCOPE TECHNOLOGI
DSCB22U	CB2-2U	(3.5HX7/8WX13D IN) 2-POST/ 2U CENTER MT CONVERSION BRACKET KIT-STEEL	BLACK BOX CORP
DSCB26	CB26	CB26, POWER PLENUM STRIP TOOL REPLACEMENT BLADE FOR OUTER CONDUCTOR	TRILOGY COMMUNICATIO
DSCB2EU	CB2-3U	CENTER-MOUNT CONVERSION BRACKETS, 3U	BLACK BOX CORP
DSCB48	1101-511	SPD, 48VDC DISTRIBUTION POWER BUS PROTECTOR, SAD	TRANSTECTOR SYSTEMS
DSCB6667	CB6667	CB6667, POWER PLENUM STRIP TOOL REPLACEMENT BLADE FOR JACKET STRIP	TRILOGY COMMUNICATIO
DSCBB005M	CBB005M	BREAKER, 5 AMP 1P AUX BULLET MID-TRIP G1,CBB005M	ELTEK INC
DSCBB015E	CBB015E	CIRCUIT BREAKER, 15 AMP, E TRIP	ELTEK INC
DSCBB015M	CBB015M	BREAKER, 15 AMP 1P AUX BULLET MID-TRIP G1, CBB015M	ELTEK INC
DSCBB020E	CBB020E	CIRCUIT BREAKER, 20 AMP, E TRIP	ELTEK INC
DSCBB025E	CBB025E	CIRCUIT BREAKER, 25 AMP, E TRIP	ELTEK INC
DSCBB030E	CBB030E	CIRCUIT BREAKER, 30 AMP, E TRIP, BULLET	ELTEK INC
DSCBB040E	CBB040E	CIRCUIT BREAKER, 40 AMP, E-TRIP	ELTEK INC
DSCBB050E	CBB050E	CIRCUIT BREAKER, 50 AMP, E TRIP	ELTEK INC
DSCBB060E	CBB060E	CIRCUIT BREAKER, 60 AMP, E TRIP	ELTEK INC
DSCBB100E	CBB100E	CIRCUIT BREAKER, 100 AMP, E-TRIP	ELTEK INC
DSCBB100M	CBB100M	BREAKER, 100AMP 1P AUX BULLET MID-TRIP G1, CBB100M	ELTEK INC
DSCBB125E	CBB125E	CIRCUIT BREAKER KIT,125 AMP, E-TRIP	ELTEK INC
DSCBB175E	CBB175E	CIRCUIT BREAKER KIT,175 AMP, E-TRIP	ELTEK INC

DSCBB250E	CBB250E	CIRCUIT BREAKER KIT,250A-E WITH 3 POLE ADA	ELTEK INC
DSCBIS14.62572MOT	CBIS14.62572MOT	VERTICAL MOUNTED COPPER CONDUCTOR BUS BAR, 1/4 IN X 5/8 IN X 72 IN	HARGER INC
DSCBL6115FTS2S5	CBL-61-15FT-S2-S5	15 FT EXTENSION CABLE FOR DUAL BAND 3X3 MIMO ANTENNA	PCTEL INC
DSCBLKVF8EM20	CBL-KVF8/E&M/20	Megaplex E&M MODULE CABLE, 20 FT - DADP/RAD-113	RAD DATA COMMUNICATI
DSCBUT401841	CBUT401841	48 PORT MODULAR PATCH PANEL.....48 4-WIRE RJ11 FEMALES ON THE FRONT WI	BLACK BOX CORP
DSCC38006	CC380-06	OMNI, CORPORATE COLLINEAR, 5 DBD, 380-420 MHZ, PIM RATED	RFI AMERICAS INC
DSCC38033	CC380-33	OMNI DUALCORPORATE COLLINEAR 2X3 DBD, 380-420MHZ PIM RATED	RFI AMERICAS INC
DSCC45006	CC450-06	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED	RFI AMERICAS INC
DSCC45006T3	CC450-06-T3	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 3DT	RFI AMERICAS INC
DSCC45006T6	CC450-06-T6	OMNI, CORPORATE COLLINEAR, 5 DBD, 450-520 MHZ, PIM RATED 6DT	RFI AMERICAS INC
DSCC45009	CC450-09	OMNI, CORPORATE COLLINEAR, 8.5DBD, 450-520MHZ, PIM RATED	RFI AMERICAS INC
DSCC6	CC-6	CARRYING CASE FOR BIRD THRULINE WATTMETERS	BIRD ELECTRONIC CORP
DSCC80703	CC807-03	OMNI, CORPORATE COLLINEAR, 3 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI AMERICAS INC
DSCC80706	CC807-06	OMNI, CORPORATE COLLINEAR, 6 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI AMERICAS INC
DSCC80708	CC807-08	OMNI, CORPORATE COLLINEAR, 8 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI AMERICAS INC
DSCC80708INVT5	CC807-08-INV-T5	8DB GAIN OMNI, 5 DEG DT 500W, 25KW PIP, -150DBC PIM, 746-870MHZ,INVERT	RFI AMERICAS INC
DSCC80708T1	CC807-08-T1	OMNI, CORP COLLINEAR, 8DBD, 746-870MHZ, 1DEG DT, PIM, 25KW PIP RATED	RFI AMERICAS INC
DSCC80708T3	CC807-08-T3	OMNI CORPORATE COLLINEAR 8DBD 746-870MHZ 3 DEG DT PIM & 25KW PIP RATED	RFI AMERICAS INC
DSCC80708T5	CC807-08-T5	OMNI, CORP COLLINEAR, 8 DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI AMERICAS INC
DSCC80711	CC807-11	OMNI, CORPORATE COLLINEAR, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI AMERICAS INC
DSCC80711INVT5	CC807-11-INV-T5	OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, INVERTD, 5DT, PIM, PIP RATED	RFI AMERICAS INC
DSCC80711T1	CC807-11T1	OMNI, CORP COLLINEAR, 10.5DBD, 746-870MHZ, 1DT, PIM, 25KW PIP RATED	RFI AMERICAS INC
DSCC80711T3	CC807-11T3	OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 3DEG DT, PIM, 25KW PIP RATED	RFI AMERICAS INC
DSCC80711T5	CC807-11T5	OMNI, CORP COLLINEAR, 10.5DB, 746-870MHZ, 5DT, PIM & 25KW PIP RATED	RFI AMERICAS INC
DSCCFO0008981	CCFO0008981 / QUOTE # Q136854	440 FT OF SC TO SC, 24-STRAND, SINGLE-MODE FIBER, OUTDOOR RATED, LOOSE	BLACK BOX CORP
DSCGXZ36NFNFA	POLYPHASER CGXZ+36NFNFA	COAXIAL PROTECTOR - 400-1200MHZ +36 VOLT	TRANSTECTOR SYSTEMS
DSCGXZ36NMNFA	POLYPHASER CGXZ+36NMNF-A	RF SPD, 400-1200MHZ HYBRID +36 VDC PASS NM ANTENNA, NF EQUIPMENT	TRANSTECTOR SYSTEMS
DSCHRG8100	CHRG8100	DESKTOP CHARGER FOR R8100 BATTERY	FREEDOM COMMUNICATIO
DSCJ0224R1BATDISC1	CJ0224R1BATDISC1	DCV400-48-400-M-DDM85-27 4X6 400 AMP BATTERY MOUNT DISCONNECT	ELTEK INC
DSCK4IANLVC	CK4I-ANL-VC	COMPACT POWER SHELF / REAR WIRE 125 AMP MAX, K4 SF, I AC, -48V, LB, C1	ELTEK INC
DSCL000N	CL1000N	ATEN CL1000N KVM CONSOLE 19IN	CDW DIRECT LLC
DSCLAMP002B	CLAMP002B	CLAMP: PIPE (2.38IN DIAMETER) TO FLAT SURFACE	SINCLAIR TECHNOLOGIE
DSCLAMP006B	CLAMP006B	CLAMP 2.37"-4.50" PARALLEL 2.37"-4.50", NEED 2 FOR EACH UNIT	SINCLAIR TECHNOLOGIE
DSCLAMP006C	CLAMP006C	SINGLE CLAMP FOR SC281/SC381ANTENNA (2 REQUIRED PER ANTENNA)	SINCLAIR TECHNOLOGIE
DSCLAMP015	CLAMP015	MOUNTING HARDWARE	SINCLAIR TECHNOLOGIE
DSCLAMP017	CLAMP017	CARBON STEEL, HOT DIP GALVANIZED PIPE1 (1.5-3.5") TO PIPE 2 (1.5-3.5")	SINCLAIR TECHNOLOGIE
DSCLAMP035	CLAMP035	CLAMP: PIPE (1.5-3.5IN DIAMETER) TO ANGLE (2-4IN). 60 DEGREES	SINCLAIR TECHNOLOGIE
DSCLAMP130	CLAMP130	ALUMINUM 1.5-2.88 IN DIAMETER 1.5-2.88 IN DIAMETER	SINCLAIR TECHNOLOGIE
DSCLAMP134HD	CLAMP134HD	CARBON STEEL, HD, HOT DIP GALVANIZED 1.5 - 3.5IN TO DIAMETER 3.5-6.6IN	SINCLAIR TECHNOLOGIE
DSCLAMP135	CLAMP135	CARBON STEEL PIPE 1 1.5IN OR 3/4IN & 0.84IN DIAMETER PIPE 2 1.5-2.38	SINCLAIR TECHNOLOGIE
DSCLAMP191	CLAMP191	CLAMP: DT KIT FOR SP304V, 1.5-2.88 OD PIPE TO PIPE 0-12 DEG. MECH. DT	SINCLAIR TECHNOLOGIE
DSCLC114M	CLC#114M	CLC#114M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-1/4	TRILOGY COMMUNICATIO
DSCLC114P	CLC#114P	CLC#114P, PLASTIC RADIATING CABLE HANGER FOR 1-1/4" AIRCELL COAX	TRILOGY COMMUNICATIO

DSCLC15	CLC#15	CLC#15, PLASTIC SELF-LOCKING HANGERS FOR 1/2" AIRCELL COAX,PKG OF 100	TRILOGY COMMUNICATIO
DSCLC158M	CLC#158M	CLC#158M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-5/8	TRILOGY COMMUNICATIO
DSCLC158P	CLC#158P	CLC#158P, PLASTIC RADIATING CABLE HANGER FOR 1-5/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSCLC28	CLC#28	CLC#28, PLASTIC SELF-LOCKING HANGERS FOR 7/8" AIRCELL COAX, PKG OF 50	TRILOGY COMMUNICATIO
DSCLC40	CLC#40	CLC#40,PLASTIC SELF-LOCKING HANGERS FOR 1-1/4" AIRCELL COAX,PKG OF 25	TRILOGY COMMUNICATIO
DSCLC51	CLC#51	CLC#51,PLASTIC SELF-LOCKING HANGERS FOR 1-5/8" AIRCELL COAX,PKG OF 25	TRILOGY COMMUNICATIO
DSCLC78M	CLC#78M	CLC#78M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 7/8	TRILOGY COMMUNICATIO
DSCLC78P	CLC#78P	CLC#78P, PLASTIC RADIATING CABLE HANGER FOR 7/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSCLCLT101	CLC#LT101	CLC#LT101,FLANGE INSERTS INTO HANGER SLOT. USE 1/4-20 STUD ROD,PKG 100	TRILOGY COMMUNICATIO
DSCLCLT45	CLC#LT45	CLC#LT45,PLASTIC STANDOFF POSTS W/ 1-5/8"LNTH(2"STANDOFF),PKG OF 100	TRILOGY COMMUNICATIO
DSCLCMMSG114	CLC#MSG114	CLC#MSG114, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-1/4	TRILOGY COMMUNICATIO
DSCLCMMSG158	CLC#MSG158	CLC#MSG158, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-5/8	TRILOGY COMMUNICATIO
DSCLCMMSG78	CLC#MSG78	CLC#MSG78, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 7/8	TRILOGY COMMUNICATIO
DSCLCSS	CLC#SS	CLC#SS, PLASTIC 2" STAND-OFF SPACER AND WALL ANCHOR WITH SCREW	TRILOGY COMMUNICATIO
DSCLCSSM	CLC#SSM	CLC#SSM, METAL 2" STAND-OFF SPACER AND WALL ANCHOR WITH 8MM HOLE	TRILOGY COMMUNICATIO
DSCM02524BKT3	CM-02524BKT-3	BERK-TEK 10032396 24-25P UTP-CMR SOL BC CAT 3 PVC/PVC GREY JACKET REEL	ANIXTER INC
DSCM60SB	CM-60S-B	CHAIN MOUNT BASE KIT, 16 FT CHAIN	COMMSCOPE TECHNOLOGI
DSCMH6063	CM-H60-63	CM-H60-63, HEAVY DUTY CHAIN MOUNT KIT, 16 FT CHAIN, INCLUDES PIPE	COMMSCOPE TECHNOLOGI
DSCMP02524BKT3	CMP-02524BKT-3	BERK-TEK 10032111 24-25P UTP-CMP SOL BC CAT 3, PS BACKBONE FEP/FRPVC,	ANIXTER INC
DSCMPH1	CMPH1	PANDUIT HORIZ PANEL D-RINGS FR AND BK 1 RU 1.7INH X 19INW X 8.6IND	ANIXTER INC
DSCMVDR1	CMVDR1	PANDUIT CABLE MGMT VERTICAL D-RING 1IN W EIA/TIA HOLE SPACING BLACK	ANIXTER INC
DSCMVDR2	CMVDR2	PANDUIT CABLE MGMT VERTICAL D-RING 2.4IN W X 4.8 IN DEEP BLACK	ANIXTER INC
DSCNT240500	CNT-240-500	.240" BRAIDED STD CBL 500 FT	COMMSCOPE TECHNOLOGI
DSCNT4001000	CNT-400-1000.	CBL BRAIDED STD OUTDOOR 1000 FT	COMMSCOPE TECHNOLOGI
DSCNT400500	CNT-400-500	MINIMUM 500 FEET, CNT-400 BRAIDED COAXIAL CABLE 500 FT (ON REEL)	COMMSCOPE TECHNOLOGI
DSCNT400P	CNT-400-P	CNT-400-P CNT-400 PLENUM RATED LOW PIM WHITE PVC JKT PER FT	COMMSCOPE TECHNOLOGI
DSCNT600500	CNT-600-500	.590IN CBL BRAIDED STD OUTDOOR 500 FT	COMMSCOPE TECHNOLOGI
DSCNT600FR	CNT-600-FR 500FT	.600 INCH 50OHM BRAID CBL FIRE RETARDANT 500FT REEL	COMMSCOPE TECHNOLOGI
DSCOD30	COD30	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 30-50 MHZ, 1%BW	RFI AMERICAS INC
DSCOD44047	COD4-4047	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 400-470 MHZ	RFI AMERICAS INC
DSCOD465	COD4-65	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 400-420 MHZ	RFI AMERICAS INC
DSCOD470	COD4-70	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 450-470 MHZ	RFI AMERICAS INC
DSCOD471	COD4-71	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 470-490 MHZ	RFI AMERICAS INC
DSCOD472	COD4-72	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 500-520 MHZ	RFI AMERICAS INC
DSCOD499	COD4-99	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 375-520 MHZ, 4% BW	RFI AMERICAS INC
DSCOL17	COL17	VERTICAL COLLINEAR ANTENNA, 3 DBD GAIN, 144-174 MHZ, 4% BW	RFI AMERICAS INC
DSCOL41058	COL410-58	OMNI, MEANDER COLLINEAR, 9DBD, 380-400MHZ, PIM RATED	RFI AMERICAS INC
DSCOL41065	COL410-65	OMNI, MEANDER COLLINEAR, 9DBD, 400-420MHZ, PIM RATED	RFI AMERICAS INC
DSCOL41070	COL410-70	OMNI. MEANDER COLLINEAR, 9 DBD, 450-470 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL41071	COL410-71	OMNI, MEANDER COLLINEAR, 9 DBD, 470-490 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL41072	COL410-72	OMNI. MEANDER COLLINEAR, 9 DBD, 490-520 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4166	COL41-66	OMNI, UHF MEANDER COLLINEAR, 0 DBD, 400-430MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4170	COL41-70	OMNI, MEANDER COLLINEAR, 0 DBD, 450-470 MHZ, PIM RATED	RFI AMERICAS INC

DSCOL4171	COL41-71	OMNI, MEANDER COLLINEAR, 0 DBD, 470-490 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4358	COL43-58	OMNI, MEANDER COLLINEAR, 5DBD, 380-400MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4365	COL43-65	OMNI, MEANDER COLLINEAR, 5DBD, 400-420MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4366	COL43-66	OMNI, MEANDER COLLINEAR, 5DBD, 410-430MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4370	COL43-70	OMNI, MEANDER COLLINEAR, 5 DBD, 450-470 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4372	COL43-72	OMNI, MEANDER COLLINEAR, 5 DBD, 490-520MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4558	COL45-58	OMNI, MEANDER COLLINEAR,7 DBD, 380-400 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4565	COL45-65	OMNI, MEANDER COLLINEAR, 7 DBD, 400-420 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL4570	COL45-70	OMNI, MEANDER COLLINEAR, 7 DBD, 450-470MHZ PIM RATED	RFI AMERICAS INC
DSCOL4571	COL45-71	OMNI, MEANDER COLLINEAR, 7 DBD, 470-490MHZ PIM RATED	RFI AMERICAS INC
DSCOL4572	COL45-72	OMNI, MEANDER COLLINEAR, 7 DBD, 490-520 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL51160	COL51-160	OMNI, RUGGED MENDER COLLINEAR, 0 DBD, 150-160 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL51174	COL51-174	OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI AMERICAS INC
DSCOL53140	COL53-140	OMNI, MEANDER COLLINEAR, 4 DBD, 130-140 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL53150	COL53-150	OMNI, MEANDER COLLINEAR, 4 DBD, 140-150 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL53160	COL53-160	OMNI, MEANDER COLLINEAR, 4 DBD, 150-160 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL53174	COL53-174	OMNI, MEANDER COLLINEAR, 4 DBD, 160-174 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL54155	COL54-155	OMNI, MEANDER COLLINEAR, 6.0 DBD, 145-155 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL54160	COL54-160	OMNI, MEANDER COLLINEAR, 6.0 DBD, 150-160 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL54166	COL54-166	OMNI, MEANDER COLLINEAR, 6.0 DBD, 156-166 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL54174	COL54-174	OMNI, MEANDER COLLINEAR, 6 DBD, 162-174 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL7	COL7	VERTICAL COLLINEAR ANTENNA, 3DBD GAIN, 380-530MHZ, 4%BW	RFI AMERICAS INC
DSCOL811806	COL811-806	OMNI, MEANDER COLLINEAR, 9 DBD, 748-806 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL811824	COL811-824	OMNI, MEANDER COLLINEAR, 9 DBD, 796-824 MHZ, PIM RATED, 7/16 DIN	RFI AMERICAS INC
DSCOL811870	COL811-870	OMNI, MEANDER COLLINEAR, 9 DBD, 806-870 MHZ PIM RATED	RFI AMERICAS INC
DSCOL811930	COL811-930	OMNI, MEANDER COLLINEAR, 9 DBD, 850-930 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL85806	COL85-806	OMNI, MEANDER COLLINEAR, 7 DBD, 748-806 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL85870	COL85-870	OMNI, MEANDER COLLINEAR, 7 DBD, 806-870 MHZ, PIM RATED	RFI AMERICAS INC
DSCOL85930	COL85-930	OMNI, MEANDER COLLINEAR, 7 DBD, 850-930 MHZ, PIM RATED	RFI AMERICAS INC
DSCOLBRACE50	COLBRACE-50	STABILIZER ARM FOR COL53/54 ANTENNA SERIES	RFI AMERICAS INC
DSCONTROLMOD	NSCMOD	CONTROL MODULE FOR LIEBERT NFINITY	CELL MANAGEMENT SYST
DSCONVRTRMMLCSC	CONVRTR-MM/LC-SC	FIBER OPTIC CONVERTER, MULTIMODE, LC MALE-SC FEMALE	RAD DATA COMMUNICATI
DSCP00737	CP00737	TTA03, 806-824 MHZ TTA MUST BE USED W RMC05 PART NUMBERS	COMBILENT USA INC
DSCP00738	CP00738	TTA03, 896-902 MHZ TTA MUST BE USED W RMC05 PART NUMBERS	COMBILENT USA INC
DSCP00743	CP00743	TTA01 796-824 MHZ TTA MUST BE USED W RMC01 OR RMC03 PART NUMBERS	COMBILENT USA INC
DSCP00919	CP00919	RMC01 796-824 MHZ AC ETH INTERFACE RMC, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00922	CP00922	RMC01 793-824 MHZ, ETH, AC, 8 CH, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00923	CP00923	RMC01 796-824 MHZ DC ETH INTERFACE RMC, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00924	CP00924	RMC01 793-824 MHZ, ETH, DC, 8 CH, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00925	CP00925	RMC03 796-824 MHZ AC ETH INTERFACE RMC, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00926	CP00926	RMC03 796-824 MHZ DC, ETH INTERFACE RMC, MUST BE USED W DSCP100743	COMBILENT USA INC
DSCP00941	CP00941	RMC05, 806-824 MHZ, AC ETH INTERFACE RMC, MUST BE USED W DSCP00737	COMBILENT USA INC
DSCP00942	CP00942	RMC05, 806-824 MHZ DC ETH INTERFACE RMC, MUST BE USED W DSCP00737	COMBILENT USA INC

DSCP00943	CP00943	RMC05, 896-902 MHZ AC ETH INTERFACE RMC MUST BE USED W DSCP00738	COMBILENT USA INC
DSCP00944	CP00944	RMC05, 896-902 MHZ DC ETH INTERFACE RMC MUST BE USED W DSCP00738	COMBILENT USA INC
DSCP01001	CP01001	DUPLEX01B 2CH UHF	COMBILENT USA INC
DSCP01009	CP01009	DUPLEX05 2CH 900MHZ	COMBILENT USA INC
DSCP01010	CP01010	DUPLEXER 02B 1 CHANNEL UHF	COMBILENT USA INC
DSCP01011	CP01011	DUPLEXER 06 1 CHANNEL 900 MHZ	COMBILENT USA INC
DSCP10725TUNED	CP10725TUNED	UHF MOBILE DUPLEXER 406-500 MHZ	COMBILENT USA INC
DSCP10725UNTUNED	CP10725UNTUNED	UHF MOBILE DUPLEXER 406-500 MHZ	COMBILENT USA INC
DSCP10733	CP10733	COMPACT DUPLEXER 410-430 MHZ VINYL COATED HIGH ISOLATION PASS-REJECT	COMBILENT USA INC
DSCP10734	CP10734	COMPACT DUPLEXER 430-480 MHZ VINYL COATED HIGH ISOLATION PASS-REJECT	COMBILENT USA INC
DSCP10735	CP10735	COMPACT DUPLEXER 480-527 MHZ VINYL COATED HIGH ISOLATION PASS-REJECT	COMBILENT USA INC
DSCP11139	CP11139	8-PORT RMC EXPANSION 806-902 MHZ	COMBILENT USA INC
DSCP11143	CP11143	16 WAY EXPANSION FOR RMC01	COMBILENT USA INC
DSCP2278	1100-592-1	SPD, RJ-11 CONNECTED FOR DIAL-UP, POTS, FAX, MODEM LINES	TRANSTECTOR SYSTEMS
DSCP2372	1101-084	SPD 120VAC 5-15 PLUG DPLX 5-15 (NON UL 3RD EDITION LISTED)	TRANSTECTOR SYSTEMS
DSCP27U13NA3S	CP27U13NA3-S	POWERSHIELD 27W DC UPS 13V OUT, FLOATING 3-CONDUCTOR NAM	ANIXTER INC
DSCPT12U	CPT-12U	CPT-12U AUTOMATED CABLE PREPARATION TOOL FOR 1/2IN COAX CABLE	COMMSCOPE TECHNOLOGI
DSCPT158U	CPT-158U	CPT-158U UNIVERSAL AUTOMATED PREP TOOL 1 58IN CBL	COMMSCOPE TECHNOLOGI
DSCPTBKS1	CPT-BKS1	REPLACEMENT BLADE KIT FOR ANDREW AUTOMATED CABLE PREP TOOLS	COMMSCOPE TECHNOLOGI
DSCPTF4B	CPT-F4B	AUTOMATED CABLE PREPARATION TOOL FOR 1/2INCH FSJ4	COMMSCOPE TECHNOLOGI
DSCPX10001269	1000-1269	T1/E1 MODULE ONLY FOR CPX, UL LISTED, FUSED	TRANSTECTOR SYSTEMS
DSCPX10001270	1000-1270	GIGE MODULE ONLY FOR CPX, UL LISTED, FUSED	TRANSTECTOR SYSTEMS
DSCPX1101977	1101-977	SPD, EIGHT PORT, SCALABLE, RACK MOUNT, CARRIER GRADE, ETHERNET, UL 497	TRANSTECTOR SYSTEMS
DSCPX1101984	1101-984	SPD, RJ-45 CONN (16) LINE 10/100BT ETHERNET 11VPL PINS (1,2) & (3,6)	TRANSTECTOR SYSTEMS
DSCPX1101985	1101-985	SPD, RJ-45 CONNECTED (16) LINE GIGE ETHERNET, 11VPL ON ALL PINS	TRANSTECTOR SYSTEMS
DSCPX1101986	1101-986	SPD, RJ-45 CONNECTED (16) LINE T1/E1, 11VPL ON PINS (1,2) & (4,5)	TRANSTECTOR SYSTEMS
DSCPX1101987	1101-987	SPD, 8 PORT POPULATED ETHERNET 10/100, FUSED UL LISTED, EXPANDABLE	TRANSTECTOR SYSTEMS
DSCPX1101989	1101-989	8 PORT POPULATED T1 OR E1, FUSED UL LISTED, EXPANDABLE	TRANSTECTOR SYSTEMS
DSCS0496040531	CS0496-0405-31	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 4 CH.	RFI AMERICAS INC
DSCS0496080531	CS0496-0805-31	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 8 CH.	RFI AMERICAS INC
DSCS0496160531	CS0496-1605-31	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI AMERICAS INC
DSCS0496240531	CS0496-2405-31	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 24 CH.	RFI AMERICAS INC
DSCS0496320531	CS0496-3205-31	SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI AMERICAS INC
DSCS13150405SN	CS1315-0405-SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 4 CH.	RFI AMERICAS INC
DSCS13150805SN	CS1315-0805-SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI AMERICAS INC
DSCS13151205SN	CS1315-1205-SN	HYBRID CONTROL STATION COMBINER, 132-150 MHZ 12 CH.	RFI AMERICAS INC
DSCS15170405SN	CS1517-0405-SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 4 CH.	RFI AMERICAS INC
DSCS15170805SN	CS1517-0805-SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 8 CH.	RFI AMERICAS INC
DSCS15171205SN	CS1517-1205-SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 12 CH.	RFI AMERICAS INC
DSCS15171605SN	CS1517-1605-SN	HYBRID CONTROL STATION COMBINER, 150-174 MHZ 16 CH.	RFI AMERICAS INC
DSCS38450405SN	CS3845-0405-SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI AMERICAS INC
DSCS38450805SN	CS3845-0805-SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 8 CH.	RFI AMERICAS INC
DSCS38451205SN	CS3845-1205-SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 12 CH.	RFI AMERICAS INC

DSCS38451605SN	CS3845-1605-SN	HYBRID CONTROL STATION COMBINER, 380-450 MHZ 16 CH.	RFI AMERICAS INC
DSCS45520405SN	CS4552-0405-SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 4 CH.	RFI AMERICAS INC
DSCS45520805SN	CS4552-0805-SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 8 CH.	RFI AMERICAS INC
DSCS45521205SN	CS4552-1205-SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 12 CH.	RFI AMERICAS INC
DSCS45521605SN	CS4552-1605-SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 16 CH.	RFI AMERICAS INC
DSCS45523205SN	CS4552-3205-SN	HYBRID CONTROL STATION COMBINER, 450-520 MHZ 32 CH.	RFI AMERICAS INC
DSCS46B	CS46B	1/4-20 X 3/4 HHCS BRONZE	HARGER INC
DSCS74860405SN	CS7486-0405-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 4 CH.	RFI AMERICAS INC
DSCS74860805SN	CS7486-0805-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 8 CH.	RFI AMERICAS INC
DSCS74861205SN	CS7486-1205-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 12 CH.	RFI AMERICAS INC
DSCS74861605SN	CS7486-1605-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 16 CH.	RFI AMERICAS INC
DSCS74862405SN	CS7486-2405-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 24 CH.	RFI AMERICAS INC
DSCS74863205SN	CS7486-3205-SN	HYBRID CONTROL STATION COMBINER, 746-869 MHZ 32 CH.	RFI AMERICAS INC
DSCS89960805SN	CS8996-0805-SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 8 CHANNEL	RFI AMERICAS INC
DSCS89961205SN	CS8996-1205-SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 12 CHANNEL	RFI AMERICAS INC
DSCS89961605SN	CS8996-1605-SN	HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 16 CHANNEL	RFI AMERICAS INC
DSCSA1041DIN	CSA10-41-DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 64 DEG BW, 148-174 MHZ, PIM RATED	RFI AMERICAS INC
DSCSA1067DIN	CSA10-67-DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 70 DEG BW, 406-512 MHZ, PIM RATED	RFI AMERICAS INC
DSCSA2041DIN	CSA20-41-DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 62 DEG BW, 148-174 MHZ, PIM RATED	RFI AMERICAS INC
DSCSA2067DIN	CSA20-67-DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI AMERICAS INC
DSCSA4067DIN	CSA40-67-DIN	DIRECTIONAL DIPOLE ARRAY, 11 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI AMERICAS INC
DSCSG1212B2U	CSG12-12B2U	CSG12-12B2U, 1/2 INCH COMPACT SUREGROUND KIT	COMMSCOPE TECHNOLOGI
DSCSG7806B1A	CSG78-06B1A	UNIVERSAL COMPACT SUREGROUND GRD KIT FOR 7/8 IN COAX CABLES	COMMSCOPE TECHNOLOGI
DSCSG7812B2U	CSG78-12B2U	CSG78-12B2U, 7/8 INCH COMPACT SUREGROUND KIT	COMMSCOPE TECHNOLOGI
DSCSL41058	CSL410-58	OMNI, MEANDER COLLINEAR, 9DBD, 380-400MHZ, PIM RATED, CUSTOM	RFI AMERICAS INC
DSCT01250AIO2	CT01250AIO-2	CT01250AIO-2, PREP TOOL FOR 1/2" CABLE , 50 OHM	TRILOGY COMMUNICATIO
DSCT07850AIO2	CT07850AIO-2	CT07850AIO-2, PREP TOOL FOR 7/8" CABLE, 50 OHM	TRILOGY COMMUNICATIO
DSCT11450P	CT11450P	CT11450P, POWER PREP TOOL FOR 1-1/4" CABLE	TRILOGY COMMUNICATIO
DSCT15850P	CT15850P	CT15850P, POWER PREP TOOL FOR 1-5/8 INCH CABLE	TRILOGY COMMUNICATIO
DSCT7812	CT-7812	COMBINATION TOOL ASSEMBLY FOR 1/2 IN AND 7/8 IN COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DSCTOS0201001	CTOS0201.001	FLATPACK S POWER SYSTEM 48V 2KW 230VAC BD	ELTEK INC
DSCTOS0201002	CTOS0201.002	DC POWER SYSTEM FLATPACK S, 48V 2KW 230VAC BD	ELTEK INC
DSCW36B	GB QUOTE 0226835547	SILCONE WEATHERPROOFING G TAPE BLACK 36 FEET	GRAYBAR ELECTRIC CO
DSD00001018	D00001.018	DC MCB DISTRIBUTION 1U 12 WAY 19 INCH 12XCB(B) 1 INPUT	ELTEK INC
DSDAS3827SOCN	DAS3827-SOC-N	UHF/LTE DAS OMNI CEILING ANTENNA 380-470MHZ & 698-2700MHZ, PIM RATED	RFI AMERICAS INC
DSDB30014A	DB3001-4A	DB3001-4A, 160-174 MHZ BANDPASS / BAND REJECT FILTER	DBSPECTRA
DSDB3176A	DB3176-A	DB3176-A, 406-420 MHZ TX OR RX WINDOW BANDPASS FILTER, 4MHZ BANDWIDTH	DBSPECTRA
DSDB3176C	DB3176-C	DB3176-C, 450-470 MHZ TX OR RX WINDOW BANDPASS FILTER, 4MHZ BANDWIDTH	DBSPECTRA
DSDB3176CD	DB3176-CD	DB3176-CD, 450-470MHZ TX OR RX WINDOW FILTER, 4MHZ PASSBAND 7/16 DIN	DBSPECTRA
DSDB365OS	DB365-OS	MOUNTING CLAMP KIT. FITS ROUND MEMBER UP TO 3 1/2" OD	COMMSCOPE TECHNOLOGI
DSDB365W	DB365W	DB365W CLIP BRACKET ANTENNA MOUNTING	COMMSCOPE TECHNOLOGI
DSDB3777	DB3777	DB3777, UHF WINDOW FILTER 450-512MHZ	DBSPECTRA
DSDB3777ABWP	DB3777AB-WP	DB3777AB-WP, 406-440 MHZ FILTER W/PANEL, 4MHZ PB	DBSPECTRA

DSDB3777SM	DB3777-SM	DB3777-SM, UHF RECEIVE WINDOW FILTER WITH SIDE MOUNTS,450-512MHZ	DBSPECTRA
DSDB3777WP	DB3777-WP	DB3777-WP, 440-512 MHZ FILTER W/PANEL 4MHZ PB 440-470/3MHZ PB 470-512	DBSPECTRA
DSDB3826BPB	DB3826BPB	UHF DUAL UNIVERSAL MILLED WINDOW FILTER, 456-460MHZ/466-470MHZ	DBSPECTRA
DSDB3826MWP	DB3826M-WP	456 - 460 466 - 470MHZ, DUAL BAND UHF FILTER WITH SPECIAL SIDE MOUNT	DBSPECTRA
DSDB3826SM	DB3826-SM	DB3826-SM 456-470MHZ UHF DUAL WINDOW FILTER WITH SIDE MOUNTS	DBSPECTRA
DSDB3826WP	DB3826-WP	DB3826-WP, 456-460MHZ/466-470MHZ FILTER W/ PANEL	DBSPECTRA
DSDB4001N2	DB4001N-2	DB4001N-2, 150-174 MHZ 2 CAVITY FILTER BANDPASS, 5IN OD	DBSPECTRA
DSDB4059	DB4059	DB4059, 148-174 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA
DSDB4060WOCB	DB4060-WOC-B	DB4060-WOC-B, 143-156 MHZ BANDPASS REJECT DUPLEXER, 4 CAVITY	DBSPECTRA
DSDB4062WOCC	DB4062-WOC-C	DB4062-WOC-C, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 154-174MHZ	DBSPECTRA
DSDB4259S18RWT	DB4259S18RWT	DB4259S18RWT, 806-824 MHZ TRUNKED RX FILTER	DBSPECTRA
DSDB4304LIM	DB4304LIM	DB4304LIM LOW PIM 100W LOAD	DBSPECTRA
DSDB434801LDKT	DB434801LDKT	DB434801LDKT, 100 WATT LOAD USED FOR DB4348 COMBNR FOR CLOSE SPACE REQ	DBSPECTRA
DSDB434802LDKT	DB434802LDKT	2 CH VHF 148-174MHZ 100 WATT LOAD KIT	DBSPECTRA
DSDB434803LDKT	DB434803LDKT	DB434803LDKT, KIT OF 3 EACH VHF 100 WATT LOADS	DBSPECTRA
DSDB43482BWF	DB4348-2-BWF	DB4348-2-BWF, 148-160 MHZ 2 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB43483BWF	DB4348-3-BWF	DB4348-3-BWF, 148-160 MHZ 3 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB43484BWF	DB4348-4-BWF	DB4348-4-BWF, 148-160 MHZ 4 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB43484CWF	DB4348-4-CWF	DB4348-4-CWF, 160-174 MHZ 4 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB43485BWF	DB4348-5-BWF	DB4348-5-BWF, 148-160 MHZ 5 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB43486BWF	DB4348-6-BWF	DB4348-6-BWF, 148-160 MHZ 6 CH TX COMBINER, SINGLE 8 INCH CAVITY	DBSPECTRA
DSDB436810B	DB4368-10-B	DB4368-10-B, 450-470 MHZ 10 CH TX COMBINER	DBSPECTRA
DSDB43682B	DB4368-2-B	DB4368-2-B, 450-470 MHZ 2 CH TX COMBINER	DBSPECTRA
DSDB43682BT	DB4368-2-BT	DB4368-2-BT, 470-492 MHZ 2 CH TX COMBINER	DBSPECTRA
DSDB43682WBB	DB4368-2WB-B	DB4368-2WB-B, 450-470 MHZ 2 CH EXPANSION KIT W/BRACKET	DBSPECTRA
DSDB43683AB	DB4368-3-AB	DB4368-3-AB, 406-416 MHZ 3 CH TX COMBINER	DBSPECTRA
DSDB43683B	DB4368-3-B	DB4368-3-B, 450-470 MHZ 3 CH TX COMBINER	DBSPECTRA
DSDB43683BT	DB4368-3-BT	DB4368-3-BT, 470-492 MHZ 3 CH TX COMBINER	DBSPECTRA
DSDB43683CT	DB4368-3-CT	DB4368-3-CT, 485-512 MHZ 3 CH TX COMBINER	DBSPECTRA
DSDB43684AB	DB4368-4-AB	DB4368-4-AB, 406-416 MHZ 4 CH TX COMBINER	DBSPECTRA
DSDB43684B	DB4368-4-B	DB4368-4-B, 450-470 MHZ 4 CH TX COMBINER	DBSPECTRA
DSDB43684BT	DB4368-4-BT	DB4368-4-BT, 470-492 MHZ 4 CH TX COMBINER	DBSPECTRA
DSDB43684CT	DB4368-4-CT	DB4368-4-CT, 485-512 MHZ 4 CH TX COMBINER	DBSPECTRA
DSDB43685AD	DB4368-5-AD	DB4368-5-AD, 410-430 MHZ 5 CH TX COMBINER	DBSPECTRA
DSDB43685B	DB4368-5-B	DB4368-5-B, 450-470 MHZ 5 CH TX COMBINER	DBSPECTRA
DSDB43686AB	DB4368-6-AB	DB4368-6-AB, 406-416 MHZ 6 CH TX COMBINER	DBSPECTRA
DSDB43686B	DB4368-6-B	DB4368-6-B, 450-470 MHZ 6 CH TX COMBINER	DBSPECTRA
DSDB43688B	DB4368-8-B	DB4368-8-B, 450-470 MHZ 8 CH TX COMBINER	DBSPECTRA
DSDB4368BPD2B	DB4368BPD-2B	COMBINER, 2 CHANNEL, 450-470MHZ, DUAL CAVITY W/ DIN CONN, 100W LOADS	DBSPECTRA
DSDB4368BPD3B	DB4368BPD-3B	COMBINER, 3 CHANNEL, 450-470MHZ, DUAL BAND WITH MILLED FILTER DIPLEXER	DBSPECTRA
DSDB4368BPD4B	DB4368BPD-4B	COMBINER, 4 CHANNEL, 380-512MHZ, USES 8IN CAVITIES WITH MILLED FILTER	DBSPECTRA
DSDB4368BPD5B	DB4368BPD-5B	COMBINER, 5 CHANNEL UHF, 380-512MHZ, USES 8 IN CAVITIES WITH MILLED FI	DBSPECTRA
DSDB4368BPD6B	DB4368BPD-6B	COMBINER, 6 CHANNEL, 380-512MHZ, 8IN CAVITIES WITH MILLED FILTER	DBSPECTRA

DSDB4368BPS3B	DB4368BPS3B	3 CHANNEL 450MHZ SINGLE BAND UHF INTEGRATED COMBINING SYS TO INCL 3 CH	DBSPECTRA
DSDB4368DIN	DB4368DIN	DB4368DIN, 7/16 DIN CONNECTOR KIT FOR DB4368 SERIES COMBINERS	DBSPECTRA
DSDB4368LDKT	DB4368LDKT	DB4368LDKT, 100W LOAD UPGRADE KIT	DBSPECTRA
DSDB4368PIM	DB4368PIM	7/16 DIN JUNCTION AND SHRINK TUBING KIT FOR DB4368 SERIES COMBINER PIM	DBSPECTRA
DSDB4368WBB	DB4368-WB-B	DB4368-WB-B, 450-470 MHZ 1 CH EXPANSION KIT W/BRACKET	DBSPECTRA
DSDB4368WBBT	DB4368-WB-BT	DB4368-WB-BT, 470-492 MHZ 1 CH EXPANSION KIT W/BRACKET	DBSPECTRA
DSDB4368WOBB	DB4368-WOB-B	DB4368-WOB-B, 450-470 MHZ 1 CH EXPANSION KIT W/OUT BRACKET	DBSPECTRA
DSDB460330	DB4603-30	DB4603-30, LOAD, 30W, 25-2500MHZ	DBSPECTRA
DSDB5004	DB5004	DB5004 ADJUSTABLE SIDE MOUNTING KIT FOR 3 IN OD ROUND MEMBERS	COMMSCOPE TECHNOLOGI
DSDB589Y	DB589-Y	DB589-Y 890-960 SINGLE ARRAY 9 DBD OMNI	COMMSCOPE TECHNOLOGI
DSDB8926KIT10	DB8926-KIT10	1 WATT LOADS N-MALE, N MALE TERMINATION KIT	DBSPECTRA
DSDB8982YTMAR	DB8982YTMA-R	DB8982YTMA-R, TOWER TOP AMP 2X4 MHZ BW WITH TEST PORT	DBSPECTRA
DSDBACV2710J1MO	ACV2710J1MO	ACV2710J1MO, VARILATOR 806-869MHZ	DBSPECTRA
DSDBACV2910J1MO	ACV2910J1MO	ACV2910J1MO, VARILATOR 896-960MHZ	DBSPECTRA
DSDBCINJKT	DBCINJKT	FIELD PDU TEST PORT INJECTION KIT FOR UPGRADING EXISTING DBSMCP PDU	DBSPECTRA
DSDBCINJKT	DBCINJKT	DBCINJKT, TEST SIGNL INJECTR KIT FOR DBCNRX SERIES PRODUCT 806-824MHZ	DBSPECTRA
DSDBMOFANKT	DBMOFAN-KT	DBMOFAN-KT , FAN KIT FOR DBMOFR-22U	DBSPECTRA
DSDBMOFR16RUTC	DBMOFR-16RUTC	DBMOFR-16RUTC, 16RU TRANSPORTABLE CASE	DBSPECTRA
DSDBMOFR34CAB	DBMOFR-34CAB	DBMOFR-34CAB, 34U RACK ENCLOSURE KIT, SOLID DOOR/PANEL	DBSPECTRA
DSDBMOFR34U	DBMOFR-34U	DBMOFR-34U, 34U FRAME RACK	DBSPECTRA
DSDBMOFR34UM	DBMOFR-34UM	DBMOFR-34UM, 34U FRAME RACK W/GROUND STRAP	DBSPECTRA
DSDBMOFR34VCAB	DBMOFR34VCAB	VENTED ENCLOSURE KIT FOR 34U FOUR POST RACK, 2 VENTED DOORS SIDE PANE	DBSPECTRA
DSDBMOFR43CAB	DBMOFR-43CAB	DBMOFR-43CAB, FULL ENCLOSURE KIT FOR DBMOFR-43U 2 POST RACK	DBSPECTRA
DSDBMOFR43U	DBMOFR-43U	DBMOFR-43U, 43U FRAME RACK	DBSPECTRA
DSDBMOFR43UM	DBMOFR-43UM	DBMOFR-43UM, 43U FRAME RACK W/GROUND STRAP	DBSPECTRA
DSDBMOFR43UPKT	DBMOFR43UPKT	DSDBMOFR43UPKT, PANEL KIT, 43U BLANK	DBSPECTRA
DSDBMOFR8RUTC	DBMOFR-8RUTC	DBMOFR-8RUTC, 8RU TRANSPORTABLE CASE	DBSPECTRA
DSDBMOFRCASTK	DBMOFR-CASTK	DBMOFR-CASTK, CASTER KIT - 4 WHEELS	DBSPECTRA
DSDBMOFRD34RK	DBMOFRD34RK	SIDE PANEL KIT (ONE SIDE W/ ADAPTABLE PANELS) 34RU	DBSPECTRA
DSDBMOFRD43RK	DBMOFRD43RK	DBMOFRD43RK, SIDE PANEL KIT (ONE SIDE W/ ADAPTABLE PANELS)	DBSPECTRA
DSDBMOFRFANP	DBMOFR-FANP	DBMOFR-FANP, FAN PANEL KIT	DBSPECTRA
DSDBMOFRKT	DBMOFRKT	DBMOFRKT, RACK NUT, BOLTS AND TIE WRAPS	DBSPECTRA
DSDBMOFRP43UDR	DBMOFRP43UDR	DBMOFRP43UDR, PERFORATED SOLID DOOR KIT (INCL 1DOOR AND SCREWS)	DBSPECTRA
DSDBMOFRTOP	DBMOFR-TOP	DBMOFR-TOP, TOP PLATE FOR ATS RACKS	DBSPECTRA
DSDBMOFRTRB18	DBMOFR-TRB18	DBMOFR-TRB18, 18 RU ENCLOSED BUD CABINET	DBSPECTRA
DSDBMOFRV34UDR	DBMOFRV34UDR	DBMOFRV34UDR, DOOR KIT, 34U VENTED	DBSPECTRA
DSDBMOFRV43UDR	DBMOFRV43UDR	DBMOFRV43UDR, DOOR KIT, 43U VENTED	DBSPECTRA
DSDBS4258S10WT	DBS4258S10WT	DBS4258S10WT, 10MHZ WINDOW FILTER 806-816MHZ	DBSPECTRA
DSDBS4258S18WT	DBS4258S18WT	806-824MHZ 18MHZ BANDPASS RECEIVE FILTER.	DBSPECTRA
DSDBSDB4303B	DB4303B	DB4303B, LOAD, 100W	DBSPECTRA
DSDBSDB4601	DB4601	DB4601, LOAD, 15W 25-1000MHZ	DBSPECTRA
DSDBSDB8922	DB8922	DB8922, 50 OHM BNC MALE TERMINATION FOR UNUSED PORTS	DBSPECTRA
DSDBSDB8926	DBSDB8926	DB8926, LOAD, 50 OHM, 1W, N-PLUG, 30-960MHZ	DBSPECTRA

DSDBSMCP108B31	DBSMCP108B31	DBSMCP108B31, 148-824 MHZ, 8 CH, 90-264 VAC IN TO 15 VDC OUT	DBSPECTRA
DSDBSMCP108C31	DBSMCP108C31	DBSMCP108C31, 700-960 MHZ, 8 CH, 90-264 VAC IN TO 15 VDC OUT	DBSPECTRA
DSDBSMCP108C41	DBSMCP108C41	DBSMCP108C41, 8 CH. RX MULTICOUPLER, 776-901MHZ	DBSPECTRA
DSDBSMCP108E41	DBSMCP108E41	PDU, 380-824MHZ , 8 CHANNEL RECEIVER MULTICOUPLER, BYPASS RELAY,	DBSPECTRA
DSDBSMCP108F41	DBSMCP108F41	DBSMCP108F41, 700-960 MHZ, 8 CH. RX MULTICOUPLER, 776-901MHZ	DBSPECTRA
DSDBSMCP116C31	DBSMCP116C31	DBSMCP116C31, 16 CH RXMC W/PDU/TEST PORT, 776-901MHZ	DBSPECTRA
DSDBSMCP116C41	DBSMCP116C41	DBSMCP116C41, 16 CH RXMC W/ PDU, 700-960MHZ	DBSPECTRA
DSDBSMCP116F41	DBSMCP116F41	DBSMCP116F41, 16 CH RXMC W/ PDU, 700-960MHZ	DBSPECTRA
DSDBSMCP8EXP	DBSMCP8EXP	DBSMCP8EXP, 8 CH EXPANSION KIT FOR DBSMC RXMC	DBSPECTRA
DSDCHF1250ACVB	DCHF1250AC-VB	DC CONVERTER, 48V/12V, VALERE LATCH	ELTEK INC
DSDCPSX2003BS	DCPSX2003BS	48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK	LAMARCHE MFG CO
DSDCR50	DCR50	RECTIFIER, DCPS50A	LAMARCHE MFG CO
DSDCSRNFPA	D-CSR-NFPA-USA	AXELL NFPA ALARMING OPTION	AXELL WIRELESS
DSDCSRPSUAC2	D-CSR-PSU AC2	AXELL UHF 380-470 MHZ CHANNEL SELECTIVE REPEATER, PSU	AXELL WIRELESS
DSDDB30D78DDC	QUOTE # 48005/DDB 30D-78DDC	TRIPLE BAY OUTDOOR ENCLOSURE 78HX88.5WX34D	ANIXTER INC
DSDDB5INSULATION	DDB PART #.5INS	DDB 5IN INSULATION	ANIXTER INC
DSDDBACP4000N28110	DDB ACP4000-N28-110	4000 BTU	ANIXTER INC
DSDDBACP6000N28110	DDB ACP6000-N28-110	6000 BTU AC UNIT	ANIXTER INC
DSDDBOD62DXC	QUOTE 48341/DDB OD-62DXC	DDB OUTDOOR ENCLOSURE 62HX25WX25D 33RU	ANIXTER INC
DSDFA01250	DFA01250	DFA01250, 7/16 DIN FEMALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSDFA07850	DFA07850	DFA07850, 7/16 DIN FEMALE FOR 7/8" CABLE	TRILOGY COMMUNICATIO
DSDFA11450	DFA11450	DFA11450, 7/16 DIN FEMALE FOR 1-1/4" CABLE	TRILOGY COMMUNICATIO
DSDFA15850	DFA15850	DFA15850, 7/16 DIN FEMALE FOR 1-5/8" CABLE	TRILOGY COMMUNICATIO
DSDFP01250	DFP01250	DFP01250, DIN FEMALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSDGXE24DMDF-A	POLYPHASER DGXE+24DMDF-A	RF LIGHTNING PROTECTOR, HYBRID 400MHZ TO 2.5GHZ - 2.5 GHZ +24 VOLTS	TRANSTECTOR SYSTEMS
DSDGXZ06DFDFA	POLYPHASER DGXZ+06DFDFA	DC PASS, 800-2500MHZ DIN FEMALE/DIN FEMALE CONNECTOR, 6VDC	TRANSTECTOR SYSTEMS
DSDGXZ06DMDF-A	POLYPHASER DGXZ+06DMDF-A	DC PASS, 800-2500MHZ DIN FEMALE/MALE CONNECTOR, 6VDC	TRANSTECTOR SYSTEMS
DSDGXZ06NFNFA	POLYPHASER DGXZ+06NFNFA	800 MHZ - 2.5 GHZ +6 VOLTS (DGXZ+06NFNFA)	TRANSTECTOR SYSTEMS
DSDGXZ15NFNFA	POLYPHASER DGXZ+15NFNFA	RF SPD, 800MHZ - 2.3GHZ +15 VOLT TOWER TOP AMP	TRANSTECTOR SYSTEMS
DSDGXZ36NMNFA	POLYPHASER DGXZ+36NMNFA	DC PASS PROTECTOR W/OPERATING VOLTAGE OF +36 VDC	TRANSTECTOR SYSTEMS
DSDHK782P	DHK-78-2-P	DOUBLE HANGER KIT FOR 7/8 IN COAX SINGLE STACK; INCL HW, ANGLE ADPT	COMMSCOPE TECHNOLOGI
DSDHK786P	DHK-78-6-P	DHK-78-6-P PREMIUM DOUBLE HANGER KIT, 7/8", 6 RUN {1EA}	COMMSCOPE TECHNOLOGI
DSDIA2GU1	DI-A2GU1	DI-A2GU1: DS1 56POS/1-28AB 4X19 REAR	COMMSCOPE TECHNOLOGI
DSDLCASTERS	DLCASTERS	NETWORK CABINET CASTER KIT, 4 PACK	ANIXTER INC
DSDMA01250	DMA01250	DMA01250, 7/16 DIN MALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSDMA07850	DMA07850	DMA07850, 7/16 DIN MALE FOR 7/8" CABLE	TRILOGY COMMUNICATIO
DSDMA11450	DMA11450	DMA11450, 7/16 DIN MALE FOR 1-1/4" CABLE	TRILOGY COMMUNICATIO
DSDMBR3738PSNFPAB	D-MBR-3007-3008-PS-NFPA CLS B	CLASS B DIGITAL 700-800 REBANDABLE MINI SIGNAL BOOSTER	AXELL WIRELESS
DSDMP01250	DMP01250	DMP01250, DIN MALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSDMPR01250	DMPR01250	DMPR01250, 1/2" DIN MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY COMMUNICATIO
DSDP3840080732	DP3840-0807-32	DUPLEXER BANDPASS 380-400MHZ, 5MHZ, BW, 5MHZ GB, 300W	RFI AMERICAS INC
DSDP4042080732	DP4042-0807-32	DUPLEXER, BANDPASS 400-420MHZ, 5MHZ BW, 5MHZ GB, 200W	RFI AMERICAS INC
DSDP767985080132	DP767985-0801-32	DUPLEXER TRI BAND 762-776 MHZ, 792-824 MHZ, 851-869 MHZ	RFI AMERICAS INC

DSDP7680080132	DP7680-0801-32	DUPLEXER 762-776 MHZ, 792-806 MHZ	RFI AMERICAS INC
DSDP8010088332	DP8010-0883-32	DUPLEXER FOR 896-902 MHZ AND 935-941 MHZ PASSBANDS	RFI AMERICAS INC
DSDP8086080132	DP8086-0801-32	DUPLEXER 806-824 MHZ, 851-869 MHZ	RFI AMERICAS INC
DSDPM100E	DPM-100E	DPM ELEMENT, 400-960MHZ, 100W	BIRD ELECTRONIC CORP
DSDPM10E	DPM-10E	DPM ELEMENT, 400-960MHZ, 10W	BIRD ELECTRONIC CORP
DSDPR100BT	1101-949	RACK MOUNT 10/100 BT DATA, 16 POSITION 19 X 1.75 X 2, 1/4-20 GRD. STUD	TRANSTECTOR SYSTEMS
DSDPR8281	1101-828	10/100BT DATA PROTECTION	TRANSTECTOR SYSTEMS
DSDPR8291	1101-829	XDSL SECONDARY PROTECTION	TRANSTECTOR SYSTEMS
DSDPR8301	1101-830	T1E1 SECONDARY PROTECTION	TRANSTECTOR SYSTEMS
DSDPR8821	1101-882	1000BT DATA PROTECTION	TRANSTECTOR SYSTEMS
DSDPR911	1101-911	DPR MODULE SURGE GDT	TRANSTECTOR SYSTEMS
DSDPRPOE60V	1101-905	SPD, 60 V POE, RJ-45, INLINE, DIN RAIL OR RACK MOUNT SURGE PROT	TRANSTECTOR SYSTEMS
DSDPRRAK	1000-1206	RACK MOUNT ASSEMBLY 19X1.75X1.75, 1/4-20 GRD. STUD	TRANSTECTOR SYSTEMS
DSDPRT1E1	1101-948	RACK MOUNT T1 AND E1 COMPATIBLE 19X1.75X2, 1/4-20 GRD. STUD	TRANSTECTOR SYSTEMS
DSDPX210270	DPX-210-270	PANORAMA FILTER UNIT 50-210/270-1000 FME ANTENNA	PANORAMA ANTENNAS IN
DSDRDC12	1101-679	SPD, DIN RAIL 12 VDC SUPPRESSOR	TRANSTECTOR SYSTEMS
DSDRDC24	1101-680	SPD, DRDC 24VDC DINRAIL	TRANSTECTOR SYSTEMS
DSDRDC48	1101-681	SPD, DRDC 48VDC DINRAIL	TRANSTECTOR SYSTEMS
DSDRDC7	1101-678	13 VDC PEAK SIGNAL	TRANSTECTOR SYSTEMS
DSDRS1215	DRS-1215	SPD, 12 OUTLETS 15 FT CORD 1050 JOULES NON-ISOBAR SURGE SUPPRESSOR 15	TRIPP LITE MANUFACTU
DS1F00F36UD	DS1F00F36U-D	ANTENNA, 150-164MHZ UNITY GAIN SINGLE VHF FIBERGLASS W/ 7/16 DIN CONNE	DBSPECTRA
DS1F00F36UN	DS1F00F36U-N	DS1F00F36U-N 150-160MHZ UNITY GAIN VHF OMNI FIBERGLASS ANTENNA	DBSPECTRA
DS1F03F36DD	DS1F03F36D-D	DS1F03F36D-D 3DB GAIN DUAL FEED OMNI FGLASS ANT 7/16DIN 150-164MHZ	DBSPECTRA
DS1F03F36DN	DS1F03F36D-N	DS1F03F36D-N, 150-164 MHZ DUAL OMNI FIBERGLASS ANT, 2.6 DBD	DBSPECTRA
DS1F03F36UD	DS1F03F36U-D	DS1F03F36U-D, 150-164 MHZ OMNI FIBERGLASS ANT, 3 DBD, W/ DIN	DBSPECTRA
DS1F03F36UN	DS1F03F36U-N	DS1F03F36U-N, 150-164 MHZ OMNI FIBERGLASS ANT, 3 DBD, W/ N	DBSPECTRA
DS1F06F36U3N	DS1F06F36U3N	DS1F06F36U3N N TYPE 6 DB GAIN 3 DEGREE DOWN TILT	DBSPECTRA
DS1F06F36UD	DS1F06F36U-D	DS1F06F36U-D, 150-164MHZ OMNI FIBERGLASS ANT, 6 DBD GAIN, 7/16 DIN CON	DBSPECTRA
DS1F06F36UN	DS1F06F36U-N	DS1F06F36U-N, 150-164MHZ OMNI FIBERGLASS ANT, 6 DBD GAIN, N CONN	DBSPECTRA
DS1G03F36DD	DS1G03F36D-D	DS1G03F36D-D, 160-174MHZ DUAL OMNI FIBERGLASS ANT 7/16 DIN CON	DBSPECTRA
DS1G03F36UD	DS1G03F36U-D	160-174MHZ, 3DB GAIN OMNI FIBERGLASS ANTENNA WITH DIN CONNECTOR	DBSPECTRA
DS1G03F36UN	DS1G03F36U-N	160-174MHZ, 3DB GAIN OMNI FIBERGLASS ANTENNA WITH N-TYPE CONNECTOR	DBSPECTRA
DS1G06F36UD	DS1G06F36U-D	160-174MHZ, 6DB GAIN OMNI FIBERGLASS ANTENNA WITH DIN CONNECTOR	DBSPECTRA
DS1G06F36UN	DS1G06F36U-N	160-174MHZ, 6DB GAIN OMNI FIBERGLASS ANTENNA WITH N CONNECTOR	DBSPECTRA
DS43452B	DS4345-2-B	DS4345-2-B,148-160MHZ 2 CH TX COMB, 5" SING CAV, LESS 2 POST 7'RACK	DBSPECTRA
DS43453B	DS4345-3-B	DS4345-3-B,148-160MHZ 3 CH TX COMB, 5" SING CAV, LESS 2 POST 7'RACK	DBSPECTRA
DS4345D2B	DS4345D-2-B	DS4345D-2-B, 148-160MHZ 2 CH TX COMB, 5" DUAL CAV, LESS 2 POST 7'RACK	DBSPECTRA
DS4345D2BWF	DS4345D-2-BWF	DS4345D-2-BWF, 148-160MHZ 2 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D2CWF	DS4345D-2-CWF	DS4345D-2-CWF, 160-174 MHZ 2 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D3BWF	DS4345D-3-BWF	DS4345D-3-BWF, 148-160MHZ 3 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D3CWF	DS4345D-3-CWF	DS4345D-3-CWF, 160-174MHZ 3 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D3PIM	DS4345D3PIM	PIM HARDENING KIT - DIN OUTPUT CONNECTOR ETC.	DBSPECTRA
DS4345D4B	DS4345D-4-B	DS4345D-4-B, 148-160MHZ 4 CH TX COMB, 5" DUAL CAV, LESS 2 POST 7'RACK	DBSPECTRA

DS4345D4BWF	DS4345D-4-BWF	DS4345D-4-BWF, 148-160MHZ 4 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D4CWF	DS4345D-4-CWF	DS4345D-4-CWF, 160-174MHZ 4 CH TX COMBINER, DUAL CAVITY	DBSPECTRA
DS4345D5B	DS4345D-5-B	5 CHANNEL DUAL 5 INCH CAVITY COMBINER, 148-160MHZ, N-TYPE CONNECTOR	DBSPECTRA
DS4345D5PIM	DS4345D5PIM	PIM HARDENING KIT FOR 5 CHANNEL DS4345D AND DS4548D COMBINERS.	DBSPECTRA
DS4345D6B	DS4345D-6-B	6 CHANNEL DUAL 5" CAVITY COMBINER, 148-160MHZ, N-TYPE CONNECTOR	DBSPECTRA
DS4345D6PIM	DS4345D6PIM	PIM HARDENING KIT FOR 6 CHANNEL VHF COMBINERS.	DBSPECTRA
DS43644B	DS4364-4-B	DS4364-4-B, 4 CH TX CAVITY COMBINER USING 4" CAVITIES, 450-470MHZ	DBSPECTRA
DS43646B	DS4364-6-B	DS4364-6-B, 6 CH TX CAVITY COMBINER USING 4" CAVITIES, 450-470MHZ	DBSPECTRA
DS43USEISMIC	DS43USEISMIC	SEISMIC FLOOR MOUNT KIT FOR DBMOFR-43U RACKS	DBSPECTRA
DS4548D2B	DS4548D-2-B	DS4548D-2-B, 2CH DUAL CAVITY COMB USING 8" AND 5" COMB CAV 148-160MHZ	DBSPECTRA
DS4548D3B	DS4548D-3-B	DS4548D-3-B, 3 CH DUAL CAVITY COMB USING 8" AND 5" COMB CAV 148-160MHZ	DBSPECTRA
DS4548D4B	DS4548D-4-B	DS4548D-4-B, 4 CHANNEL 8" AND 5" VHF CAVITY COMBINER, 148-160MHZ	DBSPECTRA
DS4548D5B	DS4548D-5-B	DS4548D-5-B, COMBINER 5CH, 5/8 IN DUAL CAVITY PER CHANNEL, 148-160MHZ	DBSPECTRA
DS4548D5C	DS4548D-5-C	5 CHANNEL TRANSMIT CAVITY COMBINER 5IN AND 8IN CAVITIES 160 THRU 174MH	DBSPECTRA
DS4548D6B	DS4548D-6-B	6 CHANNEL TRANSMIT CAVITY COMBINER 5IN AND 8IN CAVITIES 148 TO 160MH	DBSPECTRA
DS4A00F36UD	DS4A00F36U-D	ANTENNA, 406 - 436MHZ UNITY GAIN FIBERGLASS OMNI WITH 7/16 DIN.	DBSPECTRA
DS4A03F36UD	DS4A03F36U-D	ANTENNA, 406 - 436MHZ 3DB GAIN FIBERGLASS OMNI WITH 7/16 DIN	DBSPECTRA
DS4A06F36UN	DS4A06F36U-N	DS4A06F36U-N, 400-436 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS4A10F36UN	DS4A10F36U-N	ANTENNA 406-436 MHZ, 10 DBD, SINGLE OMNI FIBERGLASS	DBSPECTRA
DS4B08F36U3N	DS4B08F36U3N	DS4B08F36U3N, 425-455 MHZ 3 DOWNTILT OMNI FIBERGLASS ANT, 8 DBD	DBSPECTRA
DS4C00F36DD	DS4C00F36DD	DS4C00F36DD, UNITY GAIN DUAL FIBERGLASS ANTENNA, 450-482MHZ	DBSPECTRA
DS4C00F36DN	DS4C00F36DN	DS4C00F36DN, UNITY GAIN OMNI FIBERGLASS ANTENNA, 450-482MHZ	DBSPECTRA
DS4C00F36UD	DS4C00F36U-D	DS4C00F36U-D, UNITY GAIN 450-482MHZ FIBERGLASS ONMI ANT, 7/16 DIN CONN	DBSPECTRA
DS4C00F36UN	DS4C00F36U-N	DS4C00F36U-N, 450-482 MHZ OMNI FIBERGLASS ANT, 0 DBD, N CONN	DBSPECTRA
DS4C03C36DN	DS4C03C36D-N	DS4C03C36D-N, 450-482MHZ 3DB DUAL OMNI ANTENNA 2" RADOME	DBSPECTRA
DS4C03F36DD	DS4C03F36D-D	DS4C03F36D-D 3DB GAIN DUAL FEED WITH 7/16 DIN CONNECTOR	DBSPECTRA
DS4C03F36DN	DS4C03F36D-N	DS4C03F36D-N, 450-482 MHZ DUAL OMNI FIBERGLASS ANT, 3 DBD	DBSPECTRA
DS4C03F36TD	DS4C03F36T-D	DS4C03F36T-D, TRIPLE OMNI ANTENNA, 450-482MHZ	DBSPECTRA
DS4C03F36TN	DS4C03F36T-N	DS4C03F36T-N TRIPLE FEED OMNI ANTENNA 3DB GAIN 450-482MHZ	DBSPECTRA
DS4C03F36UD	DS4C03F36U-D	DS4C03F36U-D 450-482 MHZ OMNI FIBERGLASS ANT, 3DBD, 7/16 DIN CONNECT	DBSPECTRA
DS4C03F36UN	DS4C03F36U-N	DS4C03F36U-N, 450-482 MHZ OMNI FIBERGLASS ANT, 3 DBD	DBSPECTRA
DS4C06F36DD	DS4C06F36D-D	DS4C06F36D-D, 6DBD DUAL OMNI FIBERGLASS ANT, 450-482MHZ ,7/16 DIN CONN	DBSPECTRA
DS4C06F36DN	DS4C06F36D-N	DS4C06F36D-N, 450-482 MHZ DUAL OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS4C06F36U1N	DS4C06F36U1N	DS4C06F36U1N, 450-482 MHZ OMNI FIBERGLASS ANT, 1 DEG DTILT, 6 DBD GAIN	DBSPECTRA
DS4C06F36U3D	DS4C06F36U3D	DS4C06F36U3D, 450-482MHZ, 6DB GAIN OMNI ANT, 3DEG DTILT, 7/16 DIN CONN	DBSPECTRA
DS4C06F36U3N	DS4C06F36U-3N	DS4C06F36U-3N 450-482 MHZ OMNI FIBERGLASS ANT, 6 DB GN 3 DEGREE DWNTLT	DBSPECTRA
DS4C06F36U6D	DS4C06F36U6D	DS4C06F36U6D 450-482MHZ 6 DB GAIN OMNI FBRGLASS ANT W 6 DEGREE DWNTLT	DBSPECTRA
DS4C06F36UD	DS4C06F36U-D	DS4C06F36U-D, 6DBD OMNI FIBERGLASS ANT, 450-482MHZ, 7/16 DIN CONN	DBSPECTRA
DS4C06F36UN	DS4C06F36U-N	DS4C06F36U-N, 450-482 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS4C08F36UN	DS4C08F36U-N	DS4C08F36U-N, 450-482 MHZ OMNI FIBERGLASS ANT, 8 DBD	DBSPECTRA
DS4C10F36UN	DS4C10F36U-N	DS4C10F36U-N, 450-482 MHZ OMNI FIBERGLASS ANT, 10 DBD	DBSPECTRA
DS4D03F36UN	DS4D03F36U-N	DS4D03F36U-N, 480-512MHZ OMNI FIBERGLASS ANT, 3DBD GAIN	DBSPECTRA
DS4D06F36DD	DS4D06F36D-D	DS4D06F36D-D, 480-512 MHZ, 6 DBD, DUAL OMNI, DIN(F)	DBSPECTRA

DS4D06F36DN	DS4D06F36D-N	DS4D06F36D-N, 480-512MHZ DUAL OMNI FIBERGLASS ANT, 6 DBD GAIN	DBSPECTRA
DS4D06F36UD	DS4D06F36U-D	DS4D06F36U-N, 480-512 MHZ OMNI FIBERGLASS ANT, 6 DBD, DIN	DBSPECTRA
DS4D06F36UN	DS4D06F36U-N	DS4D06F36U-N, 480-512 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS4E06P18UD	DS4E06P18UD	406-512MHZ, 6DB GAIN DIRECTIONAL PANEL ANTENNA, DIN	DBSPECTRA
DS4E08L12UN	DS4E08L12U-N	DS4E08L12U-N, 406-512MHZ PNL ANT, 120 HORIZ BMWIDTH, 8 DBD, N-TYPE CON	DBSPECTRA
DS4F06P36DD	DS4F06P36D-D	450-470MHZ DUAL FEED 5.9DB GAIN, LOW-PIM, PIP RATED ANT, DIN	DBSPECTRA
DS4FRWN041	DS4FRWN04-1	DS4FRWN04-1, SINGLE 4MHZ WINDOW FILTER >60DB AT 1MHZ R TO T,450-470MHZ	DBSPECTRA
DS4FRWN042	DS4FRWN04-2	DS4FRWN04-2, DUAL 4MHZ WINDOW FILTER >60DB AT 1MHZ R TO T, 450-470MHZ	DBSPECTRA
DS7012	DS7012	DS7012, (794-806 MHZ) 700 MHZ WINDOW FILTER	DBSPECTRA
DS7822	DS7822	FILTER, 794-816MHZ RECEIVE WINDOW FILTER	DBSPECTRA
DS7A06F36DD	DS7A06F36D-D	DS7A06F36D-D 746-869 MHZ DUAL BAND OMNI FIBERGLASS 6 DBD ANT DIN	DBSPECTRA
DS7A06F36DN	DS7A06F36D-N	DS7A06F36D-N, 746-869 MHZ DUAL OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS7A06F36TD	DS7A06F36T-D	746-869MHZ TRIPLE FEED OMNI FIBERGLASS ANTENNA WITH 7/16 DIN CONNECTOR	DBSPECTRA
DS7A06F36U3N	DS7A06F36U3N	DS7A06F36U3N, 746-869 MHZ 3 DOWNTILT OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS7A06F36UN	DS7A06F36U-N	DS7A06F36U-N, 746-869 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS7A12P90UD	DS7A12P90U-D	746-869 MHZ, 12 DBD, DIRECTIONAL PANEL ANTENNA, DIN	DBSPECTRA
DS7C03P36UD	DS7C03P36U-D	764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA
DS7C06P36DD	DS7C06P36D-D	DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA
DS7C06P36UD	DS7C06P36U-D	DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA
DS7C06P3IDD	DS7C06P3ID-D	764-869MHZ DUAL 6DB GAIN OMNI WITH DIN CONNECTORS, INVERTED MOUNT	DBSPECTRA
DS7C09P36DD	DS7C09P36D-D	DS7C09P36D-D, 764-869MHZ DUAL 9DB GAIN OMNI WITH DIN	DBSPECTRA
DS7C09P36UD	DS7C09P36U-D	DS7C09P36U-D, 764-869MHZ SINGLE 9DB GAIN OMNI WITH DIN	DBSPECTRA
DS7C10F36UD	DS7C10F36U-D	DS7C10F36U-D 10DBD GAIN FBRGLASS ANT 7/16 DIN CONN 764 869MHZ	DBSPECTRA
DS7D06F36UD	DS7D06F36U-D	DS7D06F36UD 746-806 MHZ OMNI FIBERGLASS 6 DBD	DBSPECTRA
DS7D06F36UN	DS7D06F36U-N	DS7D06F36U-N 746-806 MHZ OMNI FIBERGLASS 6 DBD INPUT N FEMALE CONN	DBSPECTRA
DS7E12F36UN	DS7E12F36U-N	DS7E12F36U-N 794-824 MHZ, 12 DBD, OMNI, N(F)	DBSPECTRA
DS8A03F36UD	DS8A03F36U-D	DS8A03F36U-N, 806-869 MHZ OMNI FIBERGLASS ANTENNA, 3 DBD, DIN	DBSPECTRA
DS8A03F36UN	DS8A03F36U-N	DS8A03F36U-N, 806-869 MHZ OMNI FIBERGLASS ANT, 3 DBD	DBSPECTRA
DS8A06F36DD	DS8A06F36DD	DS8A06F36DD, 806-869 MHZ 6 DB GAIN OMNI FIBERGLASS WITH 7/16 DIN CONN	DBSPECTRA
DS8A06F36DN	DS8A06F36D-N	DS8A06F36D-N, 6 DB GAIN DUAL OMNI FIBERGLASS 806-869MHZ ANT	DBSPECTRA
DS8A06F36U3D	DS8A06F36U3D	806-869MHZ, 6DB GAIN SINGLE OMNI FIBERGLASS 3DT, DIN	DBSPECTRA
DS8A06F36U3N	DS8A06F36U3N	DS8A06F36U3N, 806-869 MHZ 3 DOWNTILT OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS8A06F36UD	DS8A06F36U-D	DS8A06F36U-D, 806-869 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS8A06F36UN	DS8A06F36U-N	DS8A06F36U-N, 806-869 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS8A06P36DD	DS8A06P36D-D	DS8A06P36D-D, 806-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA
DS8A09F36UD	DS8A09F36U-D	DS8A09F36U-D, 806-869 MHZ FIBERGLASS OMNI ANT WITH 7/16 DIN CONN, 9DBD	DBSPECTRA
DS8A09F36UN	DS8A09F36U-N	DS8A09F36U-N, 9 DB GAIN OMNI FIBERGLASS ANT, 806-869MHZ, N-TYPE CONN	DBSPECTRA
DS8A09P36DD	DS8A09P36D-D	DS8A09P36D-D, 806-869MHZ DUAL 9DB GAIN OMNI WITH DIN	DBSPECTRA
DS8A10F36U3N	DS8A10F36U3N	DS8A10F36U3N, 806-869 MHZ 3 DOWNTILT OMNI FIBERGLASS ANT, 10 DBD	DBSPECTRA
DS8A10F36UD	DS8A10F36U-D	DS8A10F36U-D, 806-869 MHZ OMNI FIBERGLASS ANT, 10 DBD	DBSPECTRA
DS9005WT	DS9005-WT	DS9005-WT, TRANSMIT FILTER WITH TRAY, 935-940MHZ	DBSPECTRA
DS906WT	DS906WT	DS906WT, 900MHZ RECEIVE WINDOW FILTER 896-901MHZ	DBSPECTRA
DS9A03F36DN	DS9A03F36D-N	DS9A03F36D-N, OMNI, 900 MHZ,3 DB GAIN, DUAL, 890-960MHZ	DBSPECTRA

DS9A03F36TD	DS9A03F36T-D	DS9A03F36T-D 3 DB GAIN TRIPLE FEED OMNI, 890 960MHZ	DBSPECTRA
DS9A03F36UD	DS9A03F36U-D	890-960MHZ, 3 DB GAIN OMNI FIBERGLASS ANTENNA WITH 7/16 DIN CONNECTOR	DBSPECTRA
DS9A03F36UN	DS9A03F36U-N	DS9A03F36U-N, 890-960 MHZ OMNI FIBERGLASS ANT, 3 DBD GAIN	DBSPECTRA
DS9A06F36DD	DS9A06F36D-D	DS9A06F36D-D, 6DB GAIN DUAL OMNI ANT 7/16 DIN CONN, 890-960MHZ	DBSPECTRA
DS9A06F36TD	DS9A06F36T-D	DS9A06F36T-D, 896-960 MHZ 6 DB TRIPLE FEED OMNI FIBERGLASS ANT, DIN F	DBSPECTRA
DS9A06F36TN	DS9A06F36T-N	DS9A06F36T-N, 896-960 MHZ TRIPLE OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS9A06F36U6D	DS9A06F36U6D	DS9A06F36U6D, 896-960 MHZ 6 DTILT OMNI FIBERGLASS ANT, 6 DBD, 7/16 DIN	DBSPECTRA
DS9A06F36U6N	DS9A06F36U6N	DS9A06F36U6N, 896-960 MHZ 6 DOWNTILT OMNI FIBERGLASS ANT, 6 DBD, N CON	DBSPECTRA
DS9A06F36UD	DS9A06F36U-D	DS9A06F36U-D 896-960 MHZ OMNI FIBERGLASS ANT, 6 DBD DIN CONN	DBSPECTRA
DS9A06F36UN	DS9A06F36U-N	DS9A06F36U-N, 896-960 MHZ OMNI FIBERGLASS ANT, 6 DBD	DBSPECTRA
DS9A09F36D3N	DS9A09F36D3N	DS9A09F36D3N, 890-960MHZ 9DB DUAL OMNI FIBERGLASS ANT, 3 DEG DOWNTILT	DBSPECTRA
DS9A09F36DD	DS9A09F36D-D	890-960MHZ, 9 DB GAIN DUAL OMNI FIBERGLASS ANTENNA 7/16 DIN CONNECTOR	DBSPECTRA
DS9A09F36DN	DS9A09F36D-N	DS9A09F36D-N, 896-960 MHZ DUAL OMNI FIBERGLASS ANT, 9 DBD	DBSPECTRA
DS9A09F36UAD	DS9A09F36UAD	DS9A09F36UAD, 900 MHZ OMNI ANT, 9 DBD, 1.5 DEG DOWNTILT, DIN CONNECTOR	DBSPECTRA
DS9A09F36UD	DS9A09F36U-D	890-960MHZ, 9 DB GAIN OMNI FIBERGLASS ANTENNA 7/16 DIN CONNECTOR	DBSPECTRA
DS9A09F36UN	DS9A09F36U-N	DS9A09F36UN, 896-960 MHZ OMNI FIBERGLASS ANT, 9 DBD	DBSPECTRA
DS9A10F36U3N	DS9A10F36U3N	896-960MHZ 10DBD GAIN OMNI FIBERGLASS 3 DEG DOWNTILT N FEMALE CONN	DBSPECTRA
DS9A10F36UD	DS9A10F36U-D	890-960MHZ, 10 DB GAIN OMNI FIBERGLASS ANTENNA WITH 7/16 DIN CONNECTOR	DBSPECTRA
DS9A10F36UN	DS9A10F36U-N	DS9A10F36U-N, 896-960 MHZ OMNI FIBERGLASS ANT, 10 DBD	DBSPECTRA
DS9A12P36UD	DS9A12P36U-D	890-960MHZ OMNIDIRECTIONAL, LOW PIM, 11.5DB GAIN DIN	DBSPECTRA
DSBCDUP01CA	DSBCDUP01CA	470-512MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA
DSDSCC7502D	DSCC75-02D	DSCC75-02D, 2 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC7503D	DSCC75-03D	DSCC75-03D, 3 CH CERAMIC TRANSMIT COMBINER, 7/16DIN CON, 773-776MHZ	DBSPECTRA
DSDSCC7504D	DSCC75-04D	DSCC75-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC7505D	DSCC75-05D	5 CHANNEL TRANSMIT CERAMIC COMBINER, 773 - 776MHZ WITH 7/16 DIN CONNEC	DBSPECTRA
DSDSCC7506D	DSCC75-06D	6 CHANNEL TRANSMIT CERAMIC COMBINER, 763 - 776MHZ WITH 7/16 DIN CONNEC	DBSPECTRA
DSDSCC8501D	DSCC85-01D	SINGLE CHANNEL CERAMIC COMBINER 851-869MHZ, 150KHZ SEP DIN CONNECTOR	DBSPECTRA
DSDSCC8501WB	DSCC85-01WB	DSCC85-01WB CERAMIC COMBINER EXPANSION KIT WITH PANEL	DBSPECTRA
DSDSCC8501WOB	DSCC85-01WOB	851-869MHZ SINGLE EXPANSION KIT TO INCL CERAMIC CAVITY AND PHASING CAB	DBSPECTRA
DSDSCC8502D	DSCC85-02D	DSCC85-02D, 2 CH CERAMIC CAVITY COMBINER, 851-869MHZ WITH 7/16 DIN	DBSPECTRA
DSDSCC8503D	DSCC85-03D	DSCC85-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 851-869MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC8504D	DSCC85-04D	DSCC85-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 851-869MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC8505D	DSCC85-05D	DSCC85-05D, 5 CHANNEL COMBINER 851-869MHZ, 150KHZ SEP, DIN CONN	DBSPECTRA
DSDSCC8506D	DSCC85-06D	DSCC85-06D, 6 CH CERAMIC COMBINER 7/16 DIN CONN 851-869MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC8506N	DSCC85-06N	DSCC85-06N, 6 CHANNEL COMBINER 851-869MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC8507D	DSCC85-07D	COMBINER, 7 CHANNEL CERAMIC CAVITY 851-869MHZ, DIN CONNECTOR	DBSPECTRA
DSDSCC8508D	DSCC85-08D	DSCC85-08D, 8 CHANNEL COMBINER 851-869MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC8509D	DSCC85-09D	9 CHANNEL TX CERAMIC CAVITY COMBINER 851-869MHZ, DIN CONNECTOR	DBSPECTRA
DSDSCC8510D	DSCC85-10D	10 CHANNEL CERAMIC CAVITY COMBINER 851-869MHZ, DIN CONNECTOR	DBSPECTRA
DSDSCC9501D	DSCC95-01D	DSCC95-01D, 1 CHANNEL CERAMIC COMBINER 935-940MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC9501WB	DSCC95-01WB	EXPANSION KIT, SINGLE CHANNEL COMBINER INCL CAVITY, ISOLATOR/LOAD, PHA	DBSPECTRA
DSDSCC9501WOB	DSCC95-01WOB	EXPANSION KIT, CERAMIC FILTER	DBSPECTRA
DSDSCC9502D	DSCC95-02D	DSCC95-02D, 2 CHANNEL TRANSMIT CERAMIC COMBINER, 935-940MHZ, 7/16 DIN	DBSPECTRA

DSDSCC9503D	DSCC95-03D	DSCC95-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC9504D	DSCC95-04D	DSCC95-04D, 4 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA
DSDSCC9505D	DSCC95-05D	DSCC95-05D, 5 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA
DSDSCC9506D	DSCC95-06D	DSCC95-06D, 6 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA
DSDSCC9507D	DSCC95-07D	935-940MHZ 7 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	DBSPECTRA
DSDSCC9508D	DSCC95-08D	DSCC95-08D, 8 CH 935-940MHZ CERAMIC COMBINER, 150KHZ SEP	DBSPECTRA
DSDSCC9509D	DSCC95-09D	935-940MHZ 9 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONNEC	DBSPECTRA
DSDSCC9510D	DSCC95-10D	935-940MHZ, 10 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA
DSDSD404380	DSD404-380	DUPLEXER, 370-410MHZ BANDPASS/BANDREJECT	DBSPECTRA
DSDSD404450	DSD404-450	DSD404-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 3MHZ OR 5MHZ	DBSPECTRA
DSDSD406450	DSD406-450	DSD406-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 5MHZ SEP	DBSPECTRA
DSDSD406M	DSD406M	UHF 450-512 MHZ MOBILE DUPLEXER TUNED	DBSPECTRA
DSDSD706M	DSD706M	DSD706M, 764-806MHZ SINGLE CHANNEL NOTCH DUPLEXER, 30MHZ FREQ SEP	DBSPECTRA
DSDSD906M	DSD906M	DSD906M, 896-969MHZ, 4MHZ PB NOTCH MBL E DPLXR, 50 WATT	DBSPECTRA
DSDSDB8926	DB8926	LOAD, 50 OHM, 1W, N-PLUG	DBSPECTRA
DSDSDHC113	DSD-HC113	DSD-HC113, 800MHZ CNTRL STATION COMBINER DUPLEXER 100 WATTS	DBSPECTRA
DSDSH2H3S	DSH2H3S	DSH2H3S, ANT MOUNT SWAY BRACE, INC 2 CLAMPS, 3 IN PIPE, TOP SWAY BRAC	DBSPECTRA
DSDSH2V3R	DSH2V3R	2 CLAMPMOUNTING KIT FOR ANTENNAS, VERTICAL MOUNTING, 0-10FT LENGTH ANT	DBSPECTRA
DSDSHC90005WF	DSHC900-05WF	DSHC900-05WF, 5 CH HYBRID COMBINER , 935-940MHZ	DBSPECTRA
DSDSPM4812VDC	DSPM4812VDC	48 VDC POWER SUPPLY ADAPTER	DBSPECTRA
DSDSPM5C DFF	DSPM5C-DFF	RF POWER MONITOR,512-1000MHZ, 500 WATT, 7/16 DIN CONN, FEMALE/FEMALE C	DBSPECTRA
DSDSRMC0608AA	DSRMC06-08AA	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA
DSDSRMC0608AD	DSRMC06-08AD	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA
DSDSRMC0608BA	DSRMC06-08BA	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA
DSDSRMC0608BAN	DSRMC0608BAN	RMC06 8 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ, NO ALARM BOARD.	DBSPECTRA
DSDSRMC0608BD	DSRMC06-08BD	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA
DSDSRMC0608CA	DSRMC06-08CA	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA
DSDSRMC0608CD	DSRMC06-08CD	RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA
DSDSRMC0616BA	DSRMC06-16BA	RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA
DSDSRMC0731AA	DSRMC07-3-1AA	RMC07, 3 CH UNIV SINGLE PATH MULTI-RECEIVER, AC POWER, 150-174MHZ	DBSPECTRA
DSDSRMC0731AD	DSRMC07-3-1AD	RMC07, 3 CH UNIV SINGLE PATH MULTI-RECEIVER, -48 VDC POWER, 150-174MHZ	DBSPECTRA
DSDSRMC0731BA	DSRMC07-3-1BA	RMC07, 3 CH UNIV SINGLE PATH MULTI-RECEIVER, AC POWER, 350-512MHZ	DBSPECTRA
DSDSRMC0731BD	DSRMC07-3-1BD	RMC07, 3 CH UNIV SINGLE PATH MULTI-RECEIVER, -48 VDC POWER, 350-512MHZ	DBSPECTRA
DSDST10	DST-10	DISTRIBUTION PANEL UL W/ REAR COVER (USE PBA PLUG-IN BREAKERS)	NEWMAR
DSDST20A	DST-20A	DISTRIBUTION PANEL (UL) W/ REAR COVER (USES PBA PLUG-IN BREAKERS)	NEWMAR
DSDSTU45BM	DSTU45BM	2 POST 7FT RACK BLACK WITH GROUND BAR	DBSPECTRA
DSDSTU45CM	DSTU45CM	DSTU45CM 45 RU 84IN CHATSWORTH CLEAR ALUMINUM 2-POST RACK GROUNDED	DBSPECTRA
DSDSWF1005	DSWF1005	DSWF1005,150-174MHZ LOW COST VHF RX WINDOW FILTER,1.0MHZ BANDWIDTH	DBSPECTRA
DSDUALFUEL100GRC	DUAL FUEL OPT/UPG	DUAL FUEL UPG FOR GENERAC GAS GENS TO 100KW (LP VAPOR/NAT GAS)	GENERAC POWER SYSTEM
DSE001222AFK	E001222AFK / QUOTE # 0319 1&2	SUPERIOR 04-059-27, 440 FT 12 PAIR 22AWG PE-39 COPPER, GOPHER RESISTNT	BLACK BOX CORP
DSE19SWM20U24	E19SWM20U24	VERSARACK WALL MOUNT SWING RACK 20RU BLACK STEEL	ANIXTER INC
DSEA404041DIN	EA4040-41-DIN	ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY 2X5 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSEA4041DIN	EA40-41-DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC

DSEA4067DIN	EA40-67-DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSEA8041DIN	EA80-41-DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSEA8067DIN	EA80-67-DIN	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSEFN0624	EFN06-24	FAN-OUT KIT, 6-FIBER BUFFER TUBE, 25-IN	BLACK BOX CORP
DSEFN110001MSTLC	EFN110-001M-STLC	FO CERAMIC 62.5 PVCST-LC 1M PATCH	BLACK BOX CORP
DSEFN110005MSTLC	EFN110-005M-STLC	FO CERAMIC 62.5 PVC ST-LC 5M PATCH	BLACK BOX CORP
DSEFN110010MSTLC	EFN110-010M-STLC	FO CERAMIC 62.5 PVC ST-LC 10M PATCH	BLACK BOX CORP
DSEFN1224	EFN12-24	FAN-OUT KIT, 12-FIBER BUFFER TUBE, 25-INCH	BLACK BOX CORP
DSEFN310001MLCLC	EFN310-001M-LCLC	SINGLEMODE FIBER PATCH, CABLE, PVC LC-LC 1M	BLACK BOX CORP
DSEFN310001MSCLC	EFN310-001M-SCLC	SINGLEMODE FIBER PATCH CABLE- PVC SC-LC	BLACK BOX CORP
DSEFN310001MSCSC	EFN310-001M-SCSC	SINGLEMODE FIBER PATCH CABLE PVC SC-SC1M	BLACK BOX CORP
DSEFN310002MSCLC	EFN310-002M-SCLC	SINGLEMODE FIBER PATCH CABLE, PVC SC-LC 2M	BLACK BOX CORP
DSEFN310002MSTST	EFN310-002M-STST	SINGLEMODE FIBER PATCH CABLE, PVC ST-ST 2 METERS	BLACK BOX CORP
DSEFN310003MSCSC	EFN310-003M-SCSC	SINGLEMODE FIBER PATCH CABLE, PVC SC-SC 3M	BLACK BOX CORP
DSEFN310003MSTLC	EFN310-003M-STLC	SINGLE MODE FIBER PATCH CABLE	BLACK BOX CORP
DSEFN310003MSTST	EFN310-003M-STST	SINGLEMODE FIBER PATCH CABLE, PVC ST-ST 3M	BLACK BOX CORP
DSEFN310005MSCSC	EFN310-005M-SCSC	SINGLEMODE FIBER PATCHCABLE, PVC SC-SC 5M	BLACK BOX CORP
DSEFN310005MSTST	EFN310-005M-STST	SINGLEMODE FIBER PATCHCABLE, PVC ST-ST 5M	BLACK BOX CORP
DSEFN310010MSCSC	EFN310-010M-SCSC	SINGLEMODE FIBER PATCH CABLE, PVC SC-SC 10M	BLACK BOX CORP
DSEFN310010MSTSC	EFN310-010M-STSC	SINGLEMODE FIBER PATCH CABLE, PVC ST-SC 10M	BLACK BOX CORP
DSEFN310010MSTST	EFN310-010M-STST	SINGLEMODE FIBER PATCH CABLE, PVC ST-ST 10 METERS	BLACK BOX CORP
DSEFN310015MLCLC	EFN310-015M-LCLC	SINGLEMODE FIBER PATCH CABLE PVC LC - LC 15M	BLACK BOX CORP
DSEFN310015MSCLC	EFN310-015M-SCLC	SINGLEMODE FIBER PATCH CABLE, PVC SC-LC 15M DUPLEX	BLACK BOX CORP
DSEFN310015MSCSC	EFN310-015M-SCSC	SINGLEMODE FIBER PATCH CABLE, PVC SC-SC 15M	BLACK BOX CORP
DSEFN310020MSCSC	EFN310-020M-SCSC	SINGLE-MODE, 9.0-MICRON DUPLEX FIBER OPTIC CABLE, SC?SC, PVC, 20-M	BLACK BOX CORP
DSEFN310030MSCSC	EFN310-030M-SCSC	SINGLEMODE FIBER PATCH CABLE, PVC SC-SC 30M	BLACK BOX CORP
DSEHN21000USB0007	EHN21000USB-0007	SERVSELECT III USB STYLE CABLE ([1] HD15 MALE, [1] USB TYPE A MALE	BLACK BOX CORP
DSEHN21000USB0015	EHN21000USB-0015	15 FEET OF SERVSELECT III USB CABLE-CL W/INT DONGLE	BLACK BOX CORP
DSEHN700010006	EHN70001-0006	6FT SERVS SWITCH DT-SERIES CPU CABLE	BLACK BOX CORP
DSEHN700010010	EHN70001-0010	10' SERVS SWITCH DT-SERIES CPU CABLE	BLACK BOX CORP
DSEHN900024U0006	EHN900024U-0006	6' SERVS SWITCH DT-SERIES CPU CABLE	BLACK BOX CORP
DSEHN9000U0006	EHN9000U-0006	6 FT SERVS SWITCH EC-SERIES CPU CABLE	BLACK BOX CORP
DSEHN9000U0010	EHN9000U-0010	10IN SERVS SWITCH EC-SERIES CPU CABLE	BLACK BOX CORP
DSEHN9000U0015	EHN9000U-0015	15' SERVS SWITCH EC-SERIES CPU CABLE	BLACK BOX CORP
DSELN25T0005MM	ELN25T-0005-MM	TELCO 25-PAIR PVC 5 FT 2 MALE CONNECTORS	BLACK BOX CORP
DSEMR21U	EMR2-1U	2POST-1RU SERVER MOUNTING RAILS	BLACK BOX CORP
DSENC21710SMOD	ENC21710S-MOD/ QUOTE # 43716	HOFFMAN SEISMIC CABINET 2135X700X1000	ANIXTER INC
DSEPXR14	EPXR14	IEC 320 C13 SOCKET TO IEC 320 C14 PLUG MOLDED EXT POWER CORD 6FT	BLACK BOX CORP
DSES100	ES100C	SPEAKER, 100W, HIGH OUTPUT COMPACT - REPLACES MS100	UNITROL
DSESBU	ESBU	UNIVERSAL BAIL BRACKET, ALL VEHICLES - REPLACES DS8567079A01 BRACKET	UNITROL
DSESH1915V	ESH1915V	SINGLE-SIDED SHELF, VENTED, BLACK	ANIXTER INC
DSETTS0201000	ETTS0201.000	FLATPACK S POWER SYSTEM,FPS 48V 2KW 230VAC BD	ELTEK INC
DSEVNSL0172GY1000	EVNSL0172GY-1000	CAT5E STP STANDARD PVC BULK 26 AWG 1000FT- GRAY	BLACK BOX CORP

DSEVNSL0173RD0006	EVNSL0173RD-0006	CAT5E SHLD CBL RED 6' 24 AWG, SLD 4PR, CMP	BLACK BOX CORP
DSEVNSL810010	EVNSL81-0010	CAT5E SNAGLESS BLUE 10FT 350-MHZ PATCH CABLE	BLACK BOX CORP
DSEW180	EW180	WAVEGUIDE STANDARD	COMMSCOPE TECHNOLOGI
DSEW52	EW52	EW52 HELIAX WAVEGUIDE	COMMSCOPE TECHNOLOGI
DSEW63	EW63	WAVEGUIDE STANDARD	COMMSCOPE TECHNOLOGI
DSEW77	EW77	EW77 HELIAX WAVEGUIDE STANDARD	COMMSCOPE TECHNOLOGI
DSEW90	EW90	HELIAX STANDARD ELLIPTICAL WAVEGUIDE, 10.2?11.7 GHZ, BLACK PE JACKET	COMMSCOPE TECHNOLOGI
DSEWMW362425	EWMW362425	ACCESS PLUS TYPE 1 WALL MOUNT CABINET 19RU DBL HINGED BLACK	ANIXTER INC
DSEWP5258	EWP52-58	EWP52, ELLIPTICAL WAVEGUIDE, 5.725-6.425 GHZ, BLACK PE JACKET, PER FT	COMMSCOPE TECHNOLOGI
DSEWP90107	EWP90-107	EWP90,PREM ELLIPTICAL WAVEGUIDE,10.7-11.7 GHZ, BLACK PE JACKET, PER FT	COMMSCOPE TECHNOLOGI
DSEWSH52	EWSH-52	UNIVERSAL SNAP-IN HANGER FOR ELLIPTICAL WAVEGUIDE 52 - PKG 10	COMMSCOPE TECHNOLOGI
DSEWSH90	EWSH-90	UNIVERSAL SNAP-IN HANGER FOR ELLIPTICAL WAVEGUIDE 90	COMMSCOPE TECHNOLOGI
DSEX30KW208V013	DSEX30KW208V013	UPS, EXM30KVA, 30KW 208/208V 3 PHASE 13 MINUTE RUNTIME	CELL MANAGEMENT SYST
DSEX30KW208V129	DSEX30KW208V129	UPS, EXM30KVA, 30KW 208/208V 3 PHASE 129 MINUTE RUNTIME	CELL MANAGEMENT SYST
DSEXN5080A	EXN5080A	SINGLE-MODE ARMR LOOSE-TUBE O-PLANT 24-STRAND FIBER OPTIC CBL 1 FT	BLACK BOX CORP
DSEYN0737AB	EYN0737A-B	BULK CAT5E SOLID CABLE 1000' PVC, BEIGE BOX	BLACK BOX CORP
DSEYN851APB1000	EYN851A-PB-1000	GIGABASE 350 CAT5E BULK 1000FT, PVC, BLUE PLBOX	BLACK BOX CORP
DSEYN856APB1000	EYN856A-PB-1000	1000FT OF 10 BASE-T PLENUM CABLE - GRAY	BLACK BOX CORP
DSEZW7812	EZW-7812	COMBINATION TOOL FOR 1/2 IN AND 7/8 IN EZFIT CONNECTORS	COMMSCOPE TECHNOLOGI
DSF090CCS2	F090CCS2	WR90 FLEX TWIST,600MM,CPR90G/CPR90G 24IN	COMMSCOPE TECHNOLOGI
DSF090CCS3	F090CCS3	F090CCS3 WR90 FLEX TWIST 900MM CPR90G - CPR90CG 36IN	COMMSCOPE TECHNOLOGI
DSF112CCS2	F112CCS2	FLEXIBLE TWIST FOR WR112, 7.05?10.0 GHZ, CPR112G 600 MM	COMMSCOPE TECHNOLOGI
DSF137CCS2	F137CCS2	WR137 FLEX TWIST,600 MM, CPR137G/CPR137G	COMMSCOPE TECHNOLOGI
DSF1APNMNM3	F1A-PNMNM-3	(FSJ1-50A) 3FT-JUMPER W/TYPE N-MALE & N-MALE CONNECTORS	COMMSCOPE TECHNOLOGI
DSF1APNMNM8	F1A-PNMNM-8	(FSJ1-50A) 8FT-JUMPER W/TYPE N-MALE & N-MALE CONNECTORS	COMMSCOPE TECHNOLOGI
DSF1BPNMBM1M	F1B-PNMBM-1M	FSJ1-50A SUREFLEX JUMPER WITH INTERFACE TYPES N MALE AND BNC MALE, 1M	COMMSCOPE TECHNOLOGI
DSF1BPNMBM2M	F1B-PNMBM-2M	FSJ1 SUREFLEX ASSEMBLY 2M	COMMSCOPE TECHNOLOGI
DSF1DC116H	F1DC116H	LCD RACK CONSOLE, 16-PORT PRO3 KVM SWITCH	CDW DIRECT LLC
DSF1MU	F1MU	F1MU 1/4" MINI UHF MALE S FLEX CONNECTOR	COMMSCOPE TECHNOLOGI
DSF1PBMBM	F1PBMBM	F1-PBMBM-3 3FT 1/4IN SUPERFLEX JUMPER W BNC MALE - BNC MALE	COMMSCOPE TECHNOLOGI
DSF1PBMBM3	F1-PBMBM-3	F1-PBMBM-3 3FT 1/4IN SUPERFLEX JUMPER W BNC MALE - BNC MALE	COMMSCOPE TECHNOLOGI
DSF1PNF	F1PNF	F1PNF 1/4" TYPE N FEMALE SELF FLARE CONNECTOR	COMMSCOPE TECHNOLOGI
DSF1PNMMU8	F1-PNMMU-8	(FSJ1-50A) 8FT-JUMPER W/TYPE N-MALE & MINI UHF-MALE CONNECTORS	COMMSCOPE TECHNOLOGI
DSF1TBMC	F1TBM-C	F1TBM-C 1/4" BNC MALE CONNECTOR	COMMSCOPE TECHNOLOGI
DSF1TDF	F1TDF	7/16 FEMALE CONNECTOR, FSJ1-50	COMMSCOPE TECHNOLOGI
DSF1TDMC	F1TDM-C	F1TDM-C 7-16 DIN MALE FOR 1/4 IN FSJ1-50A CABLE	COMMSCOPE TECHNOLOGI
DSF1TNRHC	F1TNR-HC	TYPE N MALE RIGHT ANGLE FOR 1/4 IN FSJ1-50A CABLE	COMMSCOPE TECHNOLOGI
DSF1TTMC	F1TTM-C	TNC MALE FOR 1/4 IN FSJ1-50A CABLE	COMMSCOPE TECHNOLOGI
DSF4ADMDF3P	F4A-DMDF-3-P	(FSJ4-50B) 3FT-JUMPER W/TYPE 7-16 DIN-MALE & 7-16 DIN-FEMALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ADMDM3P	F4A-DMDM-3-P	(FSJ4-50B) 3FT-JUMPER W/TYPE 7-16 DIN-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ADMDM4MP	F4A-DMDM-4M-P	FSJ4-50B 1/2" CABLE ASSY 7/16" DIN M STR - DIN M STR 4M (13.123 FT)	COMMSCOPE TECHNOLOGI
DSF4ADMDM7MP	F4A-DMDM-7M-P	FSJ4-50B 1/2" CABLE ASSY 7/16" DIN M STR - DIN M STR 7M (22.966 FT)	COMMSCOPE TECHNOLOGI
DSF4ADMDR2M5P	F4A-DMDR-2M5-P	FSJ4-50B 1/2" CABLE ASSY 7/16" DIN M STR - DIN M RIGHT 2.5M (8.202 FT)	COMMSCOPE TECHNOLOGI

DSF4ANMDM6P	F4A-NMDM-6-P	(FSJ4-50B) 6FT-JUMPER W/TYPES N-MALE & DIN-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNF3MP	F4A-NMNF-3M-P	(FSJ4-50B) 9 FT-JUMPER W/TYPES N-MALE & N-FEMALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM10P	F4A-NMNM-10-P	(FSJ4-50B) 10FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM12P	F4A-NMNM-12-P	(FSJ4-50B) 12 FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM25P	F4A-NMNM-25-P	(FSJ4-50B) 25FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM3P	F4A-NMNM-3-P	(FSJ4-50B) 3FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM4P	F4A-NMNM-4-P	(FSJ4-50B) 4FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM6P	F4A-NMNM-6-P	(FSJ4-50B) 6 FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4ANMNM8P	F4A-NMNM-8-P	(FSJ4-50B) 8 FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSF4APNFD1M	F4A-PNFD1M	HELIX ANTENNA JUMPER, 7/16 DIN MALE TO N FEMALE, 1 METER	RFI AMERICAS INC
DSF4DMDM1MD	F4-DMDM-1M-D	D-CLASS FSJ4-50B SUREFLEX? JUMPER WITH INTERFACE TYPES 7-16 DIN MALE	COMMSCOPE TECHNOLOGI
DSF4DRC	F4DR-C	1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	COMMSCOPE TECHNOLOGI
DSF4NRHC	F4NR-HC	F4NR-HC 1/2" TYPE N MALE RIGHT ANGLE CONNECTOR	COMMSCOPE TECHNOLOGI
DSF4PDMV2C	F4PDMV2-C	F4PDMV2-C 1/2" 7-16 DIN MALE CONNECTOR	COMMSCOPE TECHNOLOGI
DSF4PNFBH	F4PNF-BH	F4PNF-BH N FEMALE CONN BULKHEAD PLATED FOR FSJ4-50	COMMSCOPE TECHNOLOGI
DSF4PNMV2	F4PNMV2	F4PNMV2 1/2" TYPE N MALE CONNECTOR IN FSJ4-50B CABLE	COMMSCOPE TECHNOLOGI
DSFA461	FA461	DVI MALE TO VGA HD15 FEMALE ADAPTER	BLACK BOX CORP
DSFC1B113BC21B	FC1B-113B-C21-B	F SERIES TERAFRAME GEN 3 CABINET, 79.4HX 23.6WX 32.5D	ANIXTER INC
DSFDP1010	FDP-1010	FUSE DISTRIBUTION PANEL FDP-1010	NEWMAR
DSFEDSI350AMP	P35-60MO-C8-PS-VH	150-174MHZ, 350 W OUT, 60W IN W/INTEGRATED PS UL APPROVED	CRESCEND TECHNOLOGIE
DSFF11113BC41B	FF11-113BC41B	F SERIES TERRAFRAME CABINET, 600WX1050DX45U	ANIXTER INC
DSFF1G113BC42B	FFIG-113B-C42-B	45U TERAFRAME CABINET 84.6MM X23.6MM X43.3MM	ANIXTER INC
DSFF1L111BC51B	FF1L-111B-C51-B	TERAFRAME, 6SL, SQ 600WX1050DX46U PM,SM BK	ANIXTER INC
DSFF1P113CC22B	FF1P-113C-C22B	CHATSWORTH F SERIES TERAFRAME CABINET	ANIXTER INC
DSFM805R2	FM805R2	RJ45 MODULAR SPLITTER UNSHIELDED	BLACK BOX CORP
DSFM820R2	FM820R2	RJ45 MODULAR SPLITTER UNSHIELDED WITH 2.5 INCH CABLE	BLACK BOX CORP
DSFMT925R2	FMT925-R2	GIGABASE2 CAT5E JACK KEYSTONE OFFICE WHITE	BLACK BOX CORP
DSFMTP5ES10PK	FMT5ES-10PAK	CAT 5E MODULAR PLUGS SHIELDED, MALE CONNECTOR 10PK	BLACK BOX CORP
DSFOCMPSM030MSCSCY	FOCMPSM-030M-SCSC-YL	SINGLE-MODE, 9MICRON DUPLEX FIBER OPTIC CABLE, SC?SC, PLENUM, 30M	BLACK BOX CORP
DSFOSM001MSTLC	FOSM-001M-STLC	BLACK BOX CONNECT 9-MICRON SINGLE-MODE FIBER OPTIC PATCH CABLE DUPLEX	BLACK BOX CORP
DSFOT109	FOT109	FIBER OPTIC COUPLING, ST?ST, 3/8IN DIA MNTG, MULTIMODE, SIMPLEX	BLACK BOX CORP
DSFSA1041DIN	FSA10-41-DIN	DIRECTIONAL DIPOLE ARRAY, 5 DBD, 106 DEG BW, 148-174 MHZ, PIM RATED	RFI AMERICAS INC
DSFSA1067DIN	FSA10-67-DIN	DIRECTIONAL DIPOLE ARRAY 5DBD, 130 DEG BW, 406-512MHZ, PIM RATED	RFI AMERICAS INC
DSFSA2041DIN	FSA20-41-DIN	DIRECTIONAL DIPOLE ARRAY 7DBD, 108 DEG BW, 148-174 MHZ, PIM RATED	RFI AMERICAS INC
DSFSA2067DIN	FSA20-67-DIN	DIRECTIONAL DIPOLE ARRAY, 7DBD, 130 DEG BW, 406-512 MHZ, PIM RATED	RFI AMERICAS INC
DSFSA4067DIN	FSA40-67-DIN	DIRECTIONAL DIPOLE ARRAY, 9 DBD, 132 DEG BW, 406-512 MHZ, PIM RATED	RFI AMERICAS INC
DSFT8130A	FT8130A	CABLE TIES, 100-PACK, LONG, 14.5 IN (36.8-CM) LENGTH	BLACK BOX CORP
DSGB02519TU	GB-02519T-U	GB-02519T-U, TIN PLATED, 1/4 X 2-1/2 X 19-1/2, W/UNIVERSAL HARDWARE KIT	TRILOGY COMMUNICATIO
DSGB0420U	GB-0420-U	GB-0420-U, COPPER, 1/4" X 4" X 20", W/ UNIVERSAL HARDWARE KIT	TRILOGY COMMUNICATIO
DSGB19400	GB19400	3RU, 19 INCH 400A GROUND BAR	LAMARCHE MFG CO
DSGBIT14412J2T	GBIT14412J2T	GROUND BAR, 1/4X4X12 WITH TAIL 2T TAIL	HARGER INC
DSGCB19200	GCB19200	SPLIT BUT GROUND/CHARGE BAR	LAMARCHE MFG CO
DSGJ300M	GJ300M	INVERTER BREAKER KIT:CB 300A,1P, GJ, M-TRIP AUX	ELTEK INC

DSGKS114158AC	GK-S114/158AC	GK-S114/158AC, STD GROUND KIT FOR 1-1/4" & 1-5/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSGKS12AC	GK-S12AC	GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX	TRILOGY COMMUNICATIO
DSGKS78AC	GK-S78AC	GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSGKT158SG	GKT-158SG	1-5/8IN GROUNDING KIT PREP TOOL	COMMSCOPE TECHNOLOGI
DSGL36WMS	GL36WMS	GREAT LAKES GL36WMS WM SWINGOUT CAB 36X21.25X24.5X19	ANIXTER INC
DSGL600E2432	GL600E-2432P	GREAT LAKES E SERIES CABINET 60INH X 24INW X 32IN 31 RU	ANIXTER INC
DSGMAE4258B	GMAE4258B	380-410MHZ EFIT CVERT ANT/BNC ADTR	PANORAMA ANTENNAS IN
DSGMAE4494B	AFGB-S1	FLEXIBLE UHF WHIP ANTENNA	PANORAMA ANTENNAS IN
DSGMT0200	GMT0200	FUSE, GMT, 2 AMP	ELTEK INC
DSGMT1000	GMT1000	FUSE, GMT, 10 AMP	ELTEK INC
DSGP2	GP2	GROUND PLANE ADJUSTABLE 0 DBD, 148-174 MHZ, 15 MHZ BW N	RFI AMERICAS INC
DSGPIN2091	GP-IN2091	GPSB MULTI BAND ANT + CABLES KIT	PANORAMA ANTENNAS IN
DSGPSANTPNM03D	GPSANTPNM03D	ANT,ANT,GPS ANT W/O MT	CAMBIUM NETWORKS LIM
DSGPSG1000	GPSG-1000	GPSG-1000 TWELVE SATELLITE SIMULATOR	AEROFLEX WICHITA INC
DSGPSKMS1GMOTSP	GPSKM-S1G-MOT-SP	GPSK 26DB MAG 3DB 380-400 SMA/BNC	PANORAMA ANTENNAS IN
DSGS1209424114	GS120942411/4	GROUND STRAP 1/2X094X24 1-HOLE 1/4	HARGER INC
DSGS1209436114	GS120943611/4	GROUND STRAP 1/2 X 094 X 36 1-HOLE 1/4 IN LUG	HARGER INC
DSGSAKITN	POLYPHASER GSA-KIT-N	GROUND STRAP KIT (GSA-KIT-N)	TRANSTECTOR SYSTEMS
DSGTNFMAL	POLYPHASER GT-NFM-AL	DC-7 GHZ GAS TUBE SURGE	TRANSTECTOR SYSTEMS
DSGTS200ID	20001015	AUTOMATIC TRANSFER SWITCH, 200A, 120/240V 1-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS200ID3PH	20001025	AUTOMATIC TRANSFER SWITCH, 200A, 120/208V 3-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS200OD	20001016	AUTOMATIC TRANSFER SWITCH, 200A, 120/240V 1-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS200OD3PH	20001026	AUTOMATIC TRANSFER SWITCH, 200A, 120/208V 3-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS300ID	20002204	AUTOMATIC TRANSFER SWITCH, 300A, 120/240V 1-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS300ID3PH	20002206	AUTOMATIC TRANSFER SWITCH, 300A, 120/208V 3-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS300OD	20002205	AUTOMATIC TRANSFER SWITCH, 300A, 120/240V 1-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS300OD3PH	20002207	AUTOMATIC TRANSFER SWITCH, 300A, 120/208V 3-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS400ID	20001029	AUTOMATIC TRANSFER SWITCH, 400A, 120/240V 1-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS400ID3PH	20001034	GENERAC GTS INDOOR ATS 400A 3 PHASE	GENERAC POWER SYSTEM
DSGTS400OD	20001032	AUTOMATIC TRANSFER SWITCH, 400A, 120/240V 1-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS400OD3PH	20001036	AUTOMATIC TRANSFER SWITCH, 400A, 120/208V 3-PH, NEMA 3R (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS600ID3PH	20016167	AUTOMATIC TRANSFER SWITCH, 600A, 120/208V 3-PH, NEMA 1 (GTS SERIES)	GENERAC POWER SYSTEM
DSGTS600OD3PH	20016172	600 AMP 3 PHASE OUTDOOR ATS	GENERAC POWER SYSTEM
DSGUB4240	GUB-4240	GALVANIZED U-BOLT ASSEMBLY, 1/2 IN X 2-1/2 IN X 4 IN	COMMSCOPE TECHNOLOGI
DSGUB4355	GUB-4355	U-BOLT GALV 1/2IN X 3-5/8IN X 5IN(EA)	COMMSCOPE TECHNOLOGI
DSGXT348VBATT	GXT3-48VBATT	EXTERNAL BATTERY FOR USE WITH 500-2000 VA RACK TOWER MODELS	CELL MANAGEMENT SYST
DSGXT37A48BATKIT	GXT3-7A48BATKIT	REPLACEMENT BATTERY KIT FOR USE WITH 2000 VA RACK TOWER MODELS	CELL MANAGEMENT SYST
DSGXT4288VBATT	GXT4-288VBATT	GXT4 288VDC RACK TOWER EXT BAT CABINET	CELL MANAGEMENT SYST
DSGXTCARDCBL	GXTCARDCBL	CONTACT CARD & 40' CABLE FOR GXT SERIES (FOR REMOTE MONITORING)	CELL MANAGEMENT SYST
DSGXTR04504315	DSGXTR04504315	UPS, GXT3 RACKMT 500VA/450W, 315 MIN RUNTIME	CELL MANAGEMENT SYST
DSGXTR06301060	DSGXTR06301060	UPS, GXT RACKMOUNT 700VA/630W, 60 MIN RUNTIME 120V SOFTWIRED	CELL MANAGEMENT SYST
DSGXTR06305300	DSGXTR06305300	UPS, GXT RACKMOUNT 700VA/630W, 300 MIN RUNTIME 120V SOFTWIRED	CELL MANAGEMENT SYST
DSGXTR06306324	DSGXTR06306324	UPS, GXT RACKMOUNT 700VA/630W, 324 MIN RUNTIME 120V SOFTWIRED	CELL MANAGEMENT SYST

DSGXTR09001038	DSGXTR09001038	UPS, GXT RACKMOUNT 1000VA/900W,38 MIN RUNTIME 120V SOFTWARED	CELL MANAGEMENT SYST
DSGXTR0900N007	DSGXTR0900N007	UPS, GXT RACKMOUNT 1000VA/900W, 7 MIN RUNTIME 120V SOFTWARED	CELL MANAGEMENT SYST
DSGXTR18001020	DSGXTR18001020	UPS, GXT RACKMOUNT 2KVA/1.8KW, 120/120V, 20 MIN RUNTIME	CELL MANAGEMENT SYST
DSGXTR18002038	​DSGXTR18002038	UPS, GXT RACKMOUNT 2KVA/1.8KW, 120/120V, 38 MIN RUNTIME	CELL MANAGEMENT SYST
DSGXTR1800N0035YR	GXTR1800N003+3 YR WARRANTY	UPS, GXT RACKMT 2KVA/1.8KW, 3 MIN RUNTIME W/ 5 YEAR WARRANTY	CELL MANAGEMENT SYST
DSGXTR27004081	DSGXTR27004081	UPS, GXT RACKMOUNT 3KVA/2.7KW, 81 MIN RUNTIME, 120V	CELL MANAGEMENT SYST
DSGXTR48002025HW	DSGXTR48002025HW	UPS, GXT RACKMNT 6KVA/4.8KW, 25 MINUTE RUNTIME HARDWIRED W/MBB	CELL MANAGEMENT SYST
DSGXTR48003036HW	DSGXTR48003036HW	UPS, GXT RACKMNT 6KVA/4.8KW, 36 MINUTE RUNTIME HARDWIRED W/MBB	CELL MANAGEMENT SYST
DSGXTR9000N005HW	DSGXTR9000N005HW	UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED	CELL MANAGEMENT SYST
DSGXTT04501092	DSGXTT04501092	UPS, GXT TOWER 500VA/450W, 120/120V, 92 MIN RUNTIME	CELL MANAGEMENT SYST
DSGXTT04504315	GXTT04504315	UPS, GXT TOWER 500VA/450W, 315 MIN RUNTIME 120/120V SOFTWARED	CELL MANAGEMENT SYST
DSGXTT0450N017	DSGXTT0450N017	UPS, GXT TOWER 500VA/450W,17 MINUTE RUNTIME 120/120V SOFTWARED	CELL MANAGEMENT SYST
DSGXTT09001038	DSGXTT09001038	UPS, GXT TOWER 1000VA/900W, 120V, 38 MIN RUNTIME SOFTWARED	CELL MANAGEMENT SYST
DSGXTT09003124	DSGXTT09003124	UPS, GXT4 TWR 1000VA/900W, 120V, 124 MIN RUNTIME	CELL MANAGEMENT SYST
DSGXTT0900N007	DSGXTT0900N007	UPS, GXT TOWER 1000VA/900W, 120V, 7 MIN RUNTIME SOFTWARED	CELL MANAGEMENT SYST
DSGXTT18001020	DSGXTT18001020	UPS, GXT TOWER 2KVA/1.8KW, 120/120V, 20 MIN RUNTIME SOFTWARED	CELL MANAGEMENT SYST
DSGXTT1800N003	DSGXTT1800N003	UPS, GXT TOWER 2KVA/1.8KW, 120/120V, 3 MIN RUNTIME SOFTWARED	CELL MANAGEMENT SYST
DSH3CPUSENAI6	H-3-CPUSE-N-AI6	AIR DIELECTRIC HYBRID COUPLER, 698?2700 MHZ	COMMSCOPE TECHNOLOGI
DSH5PDFS	H5PDF-S	7-16 DIN FEMALE W/GAS BARRIER FOR 7/8 IN HJ5-50 AIR DIELECTRIC CABLE	COMMSCOPE TECHNOLOGI
DSH5PDMS	H5PDM-S	7-16 DIN MALE WITH GAS BARRIER FOR 7/8 IN HJ5-50 AIR DIELECTRIC CABLE	COMMSCOPE TECHNOLOGI
DSH5PNFS	H5PNF-S	7/8IN N FEMALE CONN WITH GAS BARRIER FOR HJ5-50 AIR DIELECTRIC CABLE	COMMSCOPE TECHNOLOGI
DSH5PNMS	H5PNM-S	7/8IN N MALE CONN WITH GAS BARRIER FOR HJ5-50 AIR DIELECTRIC CABLE	COMMSCOPE TECHNOLOGI
DSHBLANKVB	HBLANK-VB	BLANK H-RECTIFIER BLACK FACEPLATE	ELTEK INC
DSHC00008F	HC000-08F	HC000-08F, 8 CH HYBRID SHORT HAUL BROADBAND COMBNR COVERS 100-960MHZ	DBSPECTRA
DSHC00016F	HC000-16F	HC000-16F, 16 CH HYBRID SHORT HAUL BROADBAND COMBNR COVERS 100-960MHZ	DBSPECTRA
DSHC0110008F	HC01100-08F	CONTROL STATION COMBINER, 746-806MHZ 8 CHANNEL LOW PROFILE 1RU	DBSPECTRA
DSHC0130008F	HC01300-08F	HC01300-08F, 806-869 MHZ 8 CH CNTRL STATION COMBINER	DBSPECTRA
DSHC1020002J	HC10200-02J	HC10200-02J, 2CH 800 MHZ HYBRID TX COMBINER, 850-960MHZ	DBSPECTRA
DSHC1020003J	HC10200-03J	HC10200-03J, HYBRID TX COMBINER 3 CH 850-960 MHZ LOW PROFILE 2 RU	DBSPECTRA
DSHC1020004J	HC10200-04J	HC10200-04J, HYBRID TX COMBINER 4 CH 850-960 MHZ LOW PROFILE 2 RU	DBSPECTRA
DSHC1020008J	HC10200-08J	HC10200-08J, HYBRID TX COMBINER 8CH 850-960MHZ, 100W, LOW PROFILE 2 RU	DBSPECTRA
DSHC1040003J	HC10400-03J	HC10400-03J, 400-472 MHZ 3 CH HYBRID TX COMBINER LOW PROFILE 2 RU	DBSPECTRA
DSHC1040004J	HC10400-04J	HC10400-04J, 400-475 MHZ 4 CH HYBRID TX COMBINER LOW PROFILE 2 RU	DBSPECTRA
DSHC1050002J	HC10500-02J	HC1050002J, 2 CHANNEL TRANSMIT HYBRID COMBINER, 150-174MHZ	DBSPECTRA
DSHC1050004J	HC10500-04J	HC10500-04J, 150-174 MHZ 4 CH HYBRID TX COMBINER LOW PROFILE 2 RU	DBSPECTRA
DSHC1060004J	HC10600-04J	HC10600-04J, 450-512 MHZ 4 CH HYBRID TX COMBINER LOW PROFILE 2 RU	DBSPECTRA
DSHC110T112F	HC110T1-12F	HC110T1-12F, 764-869 MHZ 12 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC111W124F	HC111W1-24F	HC111W1-24F, 746-806 MHZ 24 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC112U112F	HC112U1-12F	HC112U1-12F, 896-960 MHZ 12 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC114S104F	HC114S1-04F	HC114S1-04F, 400-475MHZ 4 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC116P108F	HC116P1-08F	HC116P1-08F, 450-512MHZ 8 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC116P112F	HC116P1-12F	HC116P1-12F, 450-512MHZ 12 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA
DSHC117M104F	HC117M1-04F	HC117M1-04F, 380-420MHZ 4 CH HYBRID CNTRL STATION COMBINER	DBSPECTRA

DSHDMM3	HDMM3	STARTECH 3FT HDMI CABLE	CDW DIRECT LLC
DSHDMM6	HDMM6	STARTECH 6FT HDMI CABLE	CDW DIRECT LLC
DSHDW-2358H	HDW-2358H	PTP 300/500/600 SERIES BLANKING PLUG PACK (QTY 10)	CAMBIUM NETWORKS LIM
DSHG114	HG-114	HG-114, LACE-UP HOISTING GRIP FOR 1-1/4" AIRCELL COAX	TRILOGY COMMUNICATIO
DSHG12	HG-12	HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX	TRILOGY COMMUNICATIO
DSHG158	HG-158	HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSHG78	HG-78	HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX	TRILOGY COMMUNICATIO
DSHJ550	HJ550	CABLE: 7/8" STANDARD AIR DIELECTRIC COAXIAL, BLACK PE JACKET , PER FT	COMMSCOPE TECHNOLOGI
DSHJ5RPV50	HJ5RPV-50	HJ5RPV-50 7/8IN AIR CABLE CATVP RATED HELIAX	COMMSCOPE TECHNOLOGI
DSHJ7RPV50	HJ7RPV-50	HJ7RPV-50 1 58IN AIR CABLE CATVP RATED HELIAX	COMMSCOPE TECHNOLOGI
DSHK1947A	HK1947A	UNIV MTG BRACKET HEAVY DUTY 25 PK	CAMBIUM NETWORKS LIM
DSHK1948A	HK1948A	SURGE SUPPRESSOR 25 BULK PK	CAMBIUM NETWORKS LIM
DSHK2022A	HK2022A	53CM OFFSET, REFLECTOR DISH KIT, 4PK	CAMBIUM NETWORKS LIM
DSHL4RPV50	HL4RPV-50	HL4RPV-50 1/2IN PLENUM AIR DI ELECTRIC 50 OHM COPPER	COMMSCOPE TECHNOLOGI
DSHM23DCUNVV	HM23D-CUN-VV	H-SERIES, 19", BULK OUTPUT SHELF	ELTEK INC
DSHNNM744	D11SKLL, D11S3LL, D11RCLL	IBM SECURITY NETWORK PROTECTION XGS 3100 - LICENSE AND SW	CDW DIRECT LLC
DSHS400	HS-400	HS-400 HEAVY DUTY STAND-OFF BRACKET, 2-3/8 IN OD X 42 IN	COMMSCOPE TECHNOLOGI
DSHS4RP50	HS4RP-50	HS4RP-50 CABLE: 1/2" AIR PLENUM CATVP	COMMSCOPE TECHNOLOGI
DSHS600	HS-600	HS-600 BRACKET, 72" HEAVY DUTY STAND-OFF (EA)	COMMSCOPE TECHNOLOGI
DSHVL126T	HVL-126-T	DDB UNLIMITED 110 V.DUAL FAN KIT W/ ADJUSTABLE THERMOSTAT-210CFM	ANIXTER INC
DSHW0000500011	HW0000-5000-11	SUPPORT BRACKETS 19IN RACK MOUNT (1SET)	RFI AMERICAS INC
DSI2RICP120V	1101-627	TYPE-3 IN LINE SPD FOR 120V	TRANSTECTOR SYSTEMS
DSI2RSA4840	1102-014-38-2	OPERATING VOLTAGE MODULE: 48 VAC OR DC	TRANSTECTOR SYSTEMS
DSIBAR1220T	IBAR12-20T	SURGE SUPPRESSOR, 12 OUTLETS 15' CORD 1280 JOULES ISOBAR	TRIPP LITE MANUFACTU
DSIC400A	IC400A	4 PORT CAT5 USB 2.0 EXTENDER - US PLUG	BLACK BOX CORP
DSICST	ICST	ICST, INNER CONDUCTOR STRIP TOOL	TRILOGY COMMUNICATIO
DSICSTRB	ICST-RB	ICST-RB, INNER CONDUCTOR STRIP TOOL REPLACEMENT BLADE	TRILOGY COMMUNICATIO
DSIMACS200R48VDC	IMACS-200-RDNT-48VDC	BASE IMACS 200 SYSTEM E/W REDUNDANT -48VDC POWER SUPPLY	PRODUCT SOURCE INTER
DSIMACS200RDNTAC	IMACS-200-RDNT-AC	BASE IMACS 200 SYSTEM E/W REDUNDANT 120/220 VAC POWER SUPPLY	PRODUCT SOURCE INTER
DSINV1548LMC	INV1548-LMC	1500W, INVERTER MODULE	LAMARCHE MFG CO
DSIPMUX1EDC4EMUTP	IPMUX-1E/DC/4E&M/UTP	TDMOIP GW, DC, 4E&M , 10/100 BT ETH, NW	RAD DATA COMMUNICATI
DSIPS2422	IPS-24-22	POWER SYSTEM, IPS-24-22	NEWMAR
DSIS50NXC0MA	POLYPHASER IS-50NX-C0-MA	RF SPD, 1.5-700MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	TRANSTECTOR SYSTEMS
DSIS50NXC0ME	POLYPHASER IS-50NX-C0-ME	DC BLOCK 1.5MHZ TO 700MHZ MALE EQUIPMENT CONNECTOR	TRANSTECTOR SYSTEMS
DSIS50NXC2MA	POLYPHASER IS-50NX-C2-MA	RF SPD, 125-1000MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE	TRANSTECTOR SYSTEMS
DSIS50NXC2ME	POLYPHASER IS-50NX-C2-ME	COMBINER COAX PROTECTOR FLANGE MT	TRANSTECTOR SYSTEMS
DSISB50HNC0MA	POLYPHASER IS-B50HN-C0-MA	RF SPD, 1.5-700MHZ DC BLOCK BULKHEAD MT NM ANTENNA, NF EQUIPMENT SIDE	TRANSTECTOR SYSTEMS
DSISB50HNC2	POLYPHASER IS-B50HN-C2	RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NF ANTENNA, NF EQUIPMENT SIDE	TRANSTECTOR SYSTEMS
DSISB50HNC2ME	POLYPHASER IS-B50HN-C2-ME	COAX PROTECTOR BULKHEAD	TRANSTECTOR SYSTEMS
DSISB50LNC0MA	POLYPHASER IS-B50LN-C0-MA	PDU, DC BLOCK, 1.5MHZ TO 700MHZ, MALE ANTENNA CONNECTOR	TRANSTECTOR SYSTEMS
DSISB50LNC2	POLYPHASER IS-B50LN-C2	RF SPD, 10-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NF ANT, NF EQUIP	TRANSTECTOR SYSTEMS
DSISB50LNC2MA	POLYPHASER IS-B50LN-C2-MA	RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP	TRANSTECTOR SYSTEMS
DSISNEMPC0MA	IS-NEMP-C0-MA	RF SPD, 1.5-700 MHZ, COAXIAL NUCLEAR EMP, NM ANTENNA NF EQUIPMENT SIDE	TRANSTECTOR SYSTEMS

DSISNEMPC2	POLYPHASER IS-NEMP-C2	EMP COAX PROTECTOR 125 MHZ	TRANSTECTOR SYSTEMS
DSISNEMPC2ME	IS-NEMP-C2-ME	RF SPD, NUKE EMP 125MHZ-1000MHZ, NF/NM CONNECTOR	TRANSTECTOR SYSTEMS
DSISO481224	ISO4812-24	CONVERTER, ISOLATED DC-DC	ASTRON CORP
DSISOBAR12ULTRA	ISOBAR12ULTRA	SURGE SUPPRESSOR, 12 OUTLETS 15' CORD 1280 JOULES ISOBAR ULTRA	TRIPP LITE MANUFACTU
DSISOBAR4ULTRA	ISOBAR4 ULTRA	SURGE SUPPRESSOR, 4 OUTLETS 6' CORD 2200 JOULES ISOBAR ULTRA	TRIPP LITE MANUFACTU
DSISOBAR6ULTRAHG	ISOBAR6ULTRAHG	SPD, 6 HOSPITAL-GRADE OUTLETS, 15-FT. CORD, 3300 JOULES	TRIPP LITE MANUFACTU
DSISOBAR8ULTRA	ISOBAR8 ULTRA	SURGE SUPPRESSOR,8 OUTLETS 12' CORD 2350 JOULES ISOBAR ULTRA	TRIPP LITE MANUFACTU
DSISRELAY	IS-RELAY	MONITORING-CONTACT CLOSURE CARD LIEBERT GXT, APS, NFINITY, NX	CELL MANAGEMENT SYST
DSISWEBCARD	IS-WEBCARD	LIEBERT INTELLISLOT WEBCARD FOR APS, NFINITY & GXT UPS (REMOTE COMM)	CELL MANAGEMENT SYST
DSIX2L1M1DC48IG	IX-2L1M1DC48-IG	SPD, HPD GPS DATA LINE, 48VDC, HARD WIRE WITH ISOLATED GROUNDING	TRANSTECTOR SYSTEMS
DSIX2N	IX-2N	RF SPD, DATA 2 PAIR 64V 25MB/S DATA WITH WEATHER PROOF ENCLOSURE	TRANSTECTOR SYSTEMS
DSIX4DC24	IX-4DC 24	SPD, MODULAR, UL 497B, 24 VDC FOR 4 DC PAIRS OUTDOOR ENCLOSURE	TRANSTECTOR SYSTEMS
DSIX4U19KKIT	IX4U19KKIT	INVERTER KIT, 3KVA, CONTROLLER, STATIC SWITCH, BYPASS, 8 OUTLETS	LAMARCHE MFG CO
DSIX4U23KKIT	IX4U23KKIT	INVERTER KIT, CONTROLLER, STATIC SWITCH, BYPASS, 8 OUT, (2) 1500W INV	LAMARCHE MFG CO
DSIX5M	IX-5M	6X DATA 25 MHZ 30V INDOOR	TRANSTECTOR SYSTEMS
DSIX5U19KIT3	IX5U19KIT3	INVERTER SYSTEM KIT, 6KVA INCL CONTROLLER, STATIC SWITCH, 19 IN	LAMARCHE MFG CO
DSIX5U19KKIT	IX5U19KKIT	19IN, 6KVA INVERTER SYS KIT INCL CONTROLLER, STATIC SWITCH, (4) 1500W	LAMARCHE MFG CO
DSIX6M	IX-6M	6X DATA 25 MHZ 30V INDOOR	TRANSTECTOR SYSTEMS
DSIX6U19KIT6NM	IX6U19KIT6NM	6U, 19IN IX SYSTEM, 9KVA W/ RM MODULE ONLY SHELF NO MAINTENANCE BYPAS	LAMARCHE MFG CO
DSJAU012DMDM10	JAU012DMDM10	JAU012DMDM10, 1/2" 10 FT JUMPER WITH 7/16 DIN MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJAU012DMDM15	JAU012DMDM15	JAU012DMDM15, 1/2IN 15 FT JUMPER WITH 7/16 DIN MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJAU012DMDM20	JAU012DMDM20	JAU012DMDM20, 1/2IN 20 FT JUMPER WITH 7/16 DIN MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJAU012DMDM4	JAU012DMDM4	JAU012DMDM4, 1/2IN 4 FT JUMPER WITH 7/16 DIN MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJAU012DMDM6	JAU012DMDM6	JAU012DMDM6, 1/2IN 6FT JUMPER WITH 7/16 DIN MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJAU012DMNM10	JAU012DMNM10	1/2" 10 FT JUMPER WITH 7/16 DIN MALE / N MALE CONNECTORS	TRILOGY COMMUNICATIO
DSJAU012FNFM10	JAU012FNFM10	JAU012FNFM10, 1/2IN 1 FT JUMPER WITH N MALE-N FEMALE CONNECTORS	TRILOGY COMMUNICATIO
DSJAU012NFNM10	JAU012NFNM10	JAU012NFNM10, 1/2IN 1 FT JUMPER WITH N MALE-N FEMALE CONNECTORS	TRILOGY COMMUNICATIO
DSJAU012NMNM10	JAU012NMNM10	JAU012NMNM10, 1/2" 10 FT JUMPER WITH N MALE CONNECTOR EACH END	TRILOGY COMMUNICATIO
DSJP601	JP601	TELCO SPLICE BLOCKS (CATEGORY 3 RATED), TYPE 66, 25	BLACK BOX CORP
DSJP650	JP650	TELCO SPLICE BLOCK BRIDGING CLIPS - 50 PIECES	BLACK BOX CORP
DSJPB654	JPB654	SURFACE-MOUNT BOX, SINGLE-GANG, OFFICE WHITE	BLACK BOX CORP
DSJPM111AR5	JPM111A-R5	ECONOMY CAT5E PATCH PANEL- 24 PORT	BLACK BOX CORP
DSJPM112AR5	JPM112A-R5	ECONOMY CAT5E, 32 PORT RJ45 PATCH PANEL	BLACK BOX CORP
DSJPM375AR2	JPM375A-R2	12 DUPLEX MM SC ADAPTERS INSTALLED	BLACK BOX CORP
DSJPM407AR5	JPM407A-R5	FIBER RACKMOUNT CABINET 3 ADAPTER ? SHELF	BLACK BOX CORP
DSJPM418AR5	JPM418A-R5	RACKMOUNT FIBER ENCLOSURE - 2U, 6-PANEL	BLACK BOX CORP
DSJPM450C	JPM450C	STANDARD ADAPTER PANEL, CERAMIC SLEEVES, (3) DUPLEX ST PAIRS, BLUE	BLACK BOX CORP
DSJPM455CR2	JPM455C-R2	(LC CERAMIC, 6, DUPLEX) FIBER ADAPTER PANEL-BLUE	BLACK BOX CORP
DSJPM460C	JPM460C	FIBER ADAPTER PANEL, ST CERAMIC, 6, DUPLEX, BLUE	BLACK BOX CORP
DSJPM804AR2	JPM804A-R2	FEED THROUGH PATCH PANEL - SHIELDED - 24 PORT	BLACK BOX CORP
DSJPM814A	JPM814A	CAT 6 SHEILDED 24 PORT FEED THROUGH	BLACK BOX CORP
DSJPMT152A	JPMT152A	TELCO CAT 5 24-PORT PATCH PANEL, T568B WIRING-1RU	BLACK BOX CORP
DSJPS60A24	JPS60A-24	CAT6 SHIELDED PATCH PANEL 24 PORT	BLACK BOX CORP

DSJSS100SSH	JS-S100-SSH	PIPE TO PIPE ADAPTER TPD 2-3/8IN THRU 4IN OD TO 4IN THRU 9IN OD PIPE	COMMSCOPE TECHNOLOGI
DSKA7170	KA7170 (ATEN) 1823508 (CDW)	ATEN USB KVM ADAPTER CABLE (CPU MODULE)	CDW DIRECT LLC
DSKA7176	KA7176 ATEN (1823514 CDW)	ATEN VIRTUAL MEDIA KVM USB ADAPTER CABLE	CDW DIRECT LLC
DSKA7240	KA7240 ATEN (2074575 CDW)	ATEN VIRTUAL MEDIA PS/2-USB CONSOLE MODULE	CDW DIRECT LLC
DSKH1508A	2480478	ATEN 8-PORT CAT5 KVM SWITCH	CDW DIRECT LLC
DSKL9116MUKIT	KL9116MUKIT (ATEN)	ATEN 16-PORT 2 USER IP LCD KVM	CDW DIRECT LLC
DSKM0932	KM0932 ATEN (2158967 CDW)	ATEN 32-PORT 9 USER KVM SWITCH	CDW DIRECT LLC
DSKV0004AR2	KV0004A-R2	SERVER SWITCH FREEDOM II- 4 PORT KEYBOARD MOUSE W/ GLIDE	BLACK BOX CORP
DSKV0081A	KV0081A	8 PORT CAT XMULTIPLATFORM	BLACK BOX CORP
DSKV0416AR2	KV0416A-R2	CATX KVM SWITCH 4 USERS BY 16 SERVERS	BLACK BOX CORP
DSKV0424AR2	KV0424A-R2	CATX KVM SWITCH 4 USERS BY 24 SERVERS	BLACK BOX CORP
DSKV04AREM	KV04A-REM	CX REMOTE UNIT WITH AUDIO	BLACK BOX CORP
DSKV04ASREM	KV04AS-REM	CX REMOTE UNIT WITH AUDIO AND SKEW COMPENSATION	BLACK BOX CORP
DSKV04AUREM	KV04AU-REM	SS REMOTE USB W/AUDIO UNIT FOR THE WIZARD CX	BLACK BOX CORP
DSKV04REM	KV04-REM	CX REMOTE UNIT	BLACK BOX CORP
DSKV04UREM	KV04U-REM	SS REMOTE USB UNIT FOR THE WIZARD CX	BLACK BOX CORP
DSKV1400A	KV1400A	PS/2 SERVER ACCESSMODULE FOR CX SERIES	BLACK BOX CORP
DSKV1401A	KV1401A	USB SERVER ACCESS MODULE FOR CX SERIES	BLACK BOX CORP
DSKV1403A	KV1403A	USB SERVER ACCESS MODULE WITH AUDIO FOR CX SERIES	BLACK BOX CORP
DSKV1408A	KV1408A	SERVSWITCH CX SERVER ACCESS MODULE, USB, DISPLAYPORT, AND AUDIO	BLACK BOX CORP
DSKV21008AR2	KV21008A-R2	SERVSELECT III (1 X 8), 1 USER X 8 PORTS	BLACK BOX CORP
DSKVT417A16CATX	KVT417A-16CATX	17IN 1U LCD TRAY 1 VGA, 16 PORT CATX	BLACK BOX CORP
DSKVT417A16UVA	KVT417A-16UVA	SERVTRAY 17INCH SCREEN, 16 VGA USB/PS2 PORTS W RMB1 RAIL	BLACK BOX CORP
DSKVT417A16UVR2	KVT417A-16UV-R2	SERVERTRAY 17IN SCREEN, 16 VGA USB/PS2 PORTS W/ RMB5 RAIL	BLACK BOX CORP
DSKVT417A1UVR3	KVT417A-1UV-R3	SERVTRAY 17 INCH 1 VGA USB PS 2 PORT-INCLUDES (KVT417A-R2 + KVT6S1UV)	BLACK BOX CORP
DSKVT417A8UVR2	KVT417A-8UV-R2	SERVTRAY 17INCH (8 PORT) VGA, USB/PS/2 PORT	BLACK BOX CORP
DSKVT419A16CATX1IP	KVT419A-16CATX-1IP	19IN 1U LCD TRAY 1 VGA, 16 PORT CATX W(/1)	BLACK BOX CORP
DSKVT517A16CATX	KVT517A-16CATX	SERVVIEW V WITH CATX INTEGRATED KVM TRAY MODULE, 16-PORT	BLACK BOX CORP
DSKVT517A1UVR2	KVT517A-1UV-R2	17IN 1U LCD TRAY (1)VGA,USB/PS2 PORT	BLACK BOX CORP
DSKVT517A8UV	KVT517A-8UV	17IN 1U LCD TRAY 8 VGA USB/PS2 PORTS	BLACK BOX CORP
DSL2SGRIP	L2SGRIP	L2SGRIP 3/8" SUPPORT HOIST GRIP	COMMSCOPE TECHNOLOGI
DSL2TDMPL	L2TDM-PL	3/8" 7-16 DIN MALE POSITIVE LOCK STRAIGHT CONNECTOR	COMMSCOPE TECHNOLOGI
DSL2TNFPL	L2TNF-PL	L2TNF-PL 3/8" TYPE N FEMALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	COMMSCOPE TECHNOLOGI
DSL2TNMPL	L2TNM-PL	3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	COMMSCOPE TECHNOLOGI
DSL4ADMDF10P	L4A-DMDF-10-P	(LDF4-50A) 10FT-JUMPER W/TYPE 7-16 DIN-MALE & 7-16 DIN-FEMALE-PIM RATE	COMMSCOPE TECHNOLOGI
DSL4ADMMDM10P	L4A-DMDM-10-P	(LDF4-50A) 10FT-JUMPER W/TYPES 7-16 DIN-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ADMMDM15P	L4A-DMDM-15-P	(LDF4-50A) 15FT-JUMPER W/TYPES 7-16 DIN-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ADMMDM25P	L4A-DMDM-25-P	(LDF4-50A) 25FT-JUMPER W/TYPES 7-16 DIN-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ADMMDM6P	L4A-DMDM-6-P	(LDF4-50A) 6 FT-JUMPER W/TYPES 7-16 DIN-MALE 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMDM10P	L4A-NMDM-10-P	(LDF4-50A) 10FT-JUMPER W/TYPES N-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMDM25P	L4A-NMDM-25-P	(LDF4-50A) 25FT-JUMPER W/TYPES N-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMDM6P	L4A-NMDM-6-P	(LDF4-50A) 6FT-JUMPER W/TYPES N-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMDM8P	L4A-NMDM-8-P	(LDF4-50A) 8FT-JUMPER W/TYPES N-MALE & 7-16 DIN-MALE-PIM RATED	COMMSCOPE TECHNOLOGI

DSL4ANMNF6P	L4A-NMNF-6-P	(LDF4-50A) 6FT-JUMPER W/TYPES N-MALE & N-FEMALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMNM10P	L4A-NMNM-10-P	(LDF4-50A) 10FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4ANMNM16P	L4A-NMNM-P (1 @ 16FT)	LDF4-50A 16FT JUMPER WITH INTERFACE TYPES N MALE AND N MALE	COMMSCOPE TECHNOLOGI
DSL4ANMNM6P	L4A-NMNM-6-P	(LDF4-50A) 6 FT-JUMPER W/TYPES N-MALE & N-MALE CONNECTORS-PIM RATED	COMMSCOPE TECHNOLOGI
DSL4CLICK	L4CLICK	L4CLICK 1/2"CLICK ON HANGER KIT, KIT OF 10	COMMSCOPE TECHNOLOGI
DSL4DRPS	L4DR-PS	L4DR-PS 1/2" 7-16 DIN MALE RIGHT ANGLE CONNECTOR	COMMSCOPE TECHNOLOGI
DSL4NRPS	L4NR-PS	L4NR-PS 1/2" TYPE N MALE RIGHT ANGLE CONNECTOR LDF4-50A CABLE	COMMSCOPE TECHNOLOGI
DSL4PDFBHC	L4PDF-BHC	L4PDF-BHC 7-16 DIN FEMALE BULKHEAD FOR 1/2 IN LDF4-50A CABLE	COMMSCOPE TECHNOLOGI
DSL4SGRIP	L4SGRIP	L4SGRIP SUPPORT HOIST GRIP 1/2" LDF	COMMSCOPE TECHNOLOGI
DSL4TNMPSA	L4TNM-PSA	DDN1088A L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE	COMMSCOPE TECHNOLOGI
DSL5CLICKB	L5CLICKB	L5CLICKB 7/8" HANGER KIT, KIT OF 10, DOUBLE VERSION	COMMSCOPE TECHNOLOGI
DSL5SGRIP	L5SGRIP	L5SGRIP 7/8" SUPPORT HOIST GRIP	COMMSCOPE TECHNOLOGI
DSL6SGRIP	L6SGRIP	L6SGRIP 1-1/4" SUPPORT HOIST GRIP	COMMSCOPE TECHNOLOGI
DSL7SGRIP	L7SGRIP	L7SGRIP 1-5/8" SUPPORT HOIST GRIP	COMMSCOPE TECHNOLOGI
DSLB1004AR2	LB1004A-R2	MULTIPOINT MEDIA CONVERTER TX/3 + FX-MM1300-SC	BLACK BOX CORP
DSLBH100AHSSC	LBH100A-H-SSC	MC SWITCH HARDENED 10 AND 100 SM 110 TO 240 VAC SC	BLACK BOX CORP
DSLBH100ASSC	LBH100A-SSC	MC SWITCH STANDARD 10/100, SM 115-VAC SC	BLACK BOX CORP
DSLBH100AST	LBH100A-ST	STANDARD MEDIA CONVERTER SWITCH, 10-/100-MBPS COPPER TO 100-MBPS FIBER	BLACK BOX CORP
DSLBH150AHST48	LBH150A-H-ST-48	EDGE SWITCH, HARDENED 1-FMM 5-UTP 48-VDC ST	BLACK BOX CORP
DSLFP402	LFP402	SFP 155-MBPS FIBER WITH EXT DIAGNOSTICS, 1310-NM MULTIMODE, 2 KM, LC	BLACK BOX CORP
DSLFP418	LFP418	SFP/1250 EXT DIAG SM 1550 LC 80KM	BLACK BOX CORP
DSLGB1108A	LGB1108A	10-PORT GIGABIT MANAGED SWITCH	BLACK BOX CORP
DSLGB5124A	LGB5124A	SFP GIGABIT MANAGED FIBER SWITCH - 24-PORT	BLACK BOX CORP
DSLGC120AR2	LGC120A-R2	300M -10/100/1000TX 1000 SX SC MM 850 CABLE	BLACK BOX CORP
DSLGC121AR2	LGC121A-R2	MULTIPOWER MINIATURE MEDIA CONVERTER, 10-/100-/1000-MBPS COPPER	BLACK BOX CORP
DSLGC202A	LGC202A	1000BT - 1000BX SM 15K SC MEDIA CONVERTER US PS	BLACK BOX CORP
DSLH1505PRACK29V	LH1505P-RACK-2-9-V	EDGE SWITCH RACK TRAY 2 - 9VDC PS FOR 8 SWITCHES	BLACK BOX CORP
DSLHC005AR4	LHC005A-R4	COMPACT MC 100MBPS W/INTER PS TX/FX SM PLUS	BLACK BOX CORP
DSLL1008UU	LL1008-UU	LINE CORD, 10',8AWG,LUGS TO UNTERMI	ELTEK INC
DSLL1010UU	LL1010-UU	LINE CORD,10',10AWG,LUGS TO UU	ELTEK INC
DSLMBAT233DIS2	LMBAT233DIS2	RACK, 23IN W X 84IN H X 18IN D W/ (3) BATT TRAYS EACH W/150A BREAKER	LAMARCHE MFG CO
DSLMBAT233DIS3	LMBAT233DIS3	RACK, 23IN W X 90IN H X 21IN D W/ (3) BATT TRAYS, GROUND RETURN	LAMARCHE MFG CO
DSLMBAT233DIS6	LMBAT233DIS6	23IN W X 90IN H X 18IN D RACK W/ (3) BATTERY TRAYS, BATTERY WIRING	LAMARCHE MFG CO
DSLMBAT233DIS8	LMBAT233DIS8	23IN W X 96IN H X 18IN D RACK W/ (3) BATTERY TRAYS, BATTERY WIRING	LAMARCHE MFG CO
DSLMHF6548VDF1	LMHF6548VDF1	65 AMP 48VDC RECTIFIER	LAMARCHE MFG CO
DSLMHF7548VZE1	LMHF7548VZE1	RECTIFIER, 48V, 75AMP	LAMARCHE MFG CO
DSLMHFSSC02	LMHFSSC02	RACK MOUNT CONTROLLER, 23 INCH	LAMARCHE MFG CO
DSLMHFX450TR2	LMHFX450TR2	DISTRIBUTION MODULE W/ 20 LOAD POS, LVLD, CONTROLLER, 2 BATT TRAYS	LAMARCHE MFG CO
DSLOGITECHM510	43211708	LOGITECH B100 USB MOUSE	CDW DIRECT LLC
DSLSXLME	POLYPHASER LSXL-ME	PCS MICRO FILTER PROTECTOR	TRANSTECTOR SYSTEMS
DSLTP3048VU1	LTPE3048VU1	DC POWER SYS, LTP CONTAINING LCD CONTROLLER, DISTRIBUTION AND RECTIFI	LAMARCHE MFG CO
DSL1010L530P	LU1010L530P	LINE CORD,10 FT, TWIST LOCK, AC PLUG NEMA-L5-30	ELTEK INC
DSL1010UU	LU1010-UU	LINE CORD,10 FT,10AWG,UU(STRIP) TO UU	ELTEK INC

DSLW4S	LW4S	1/4 LOCK WASHER 18-8 SS (SOLD INDIVIDUALLY)	HARGER INC
DSM112372	MS1123-742	CHATSWORTH MSERIES MEGAFRAME CABINET	ANIXTER INC
DSMA2700A	MA2700A	ANRITSU INTERFERENCE HUNTER HANDHELD DIRECTION FINDING SYSTEM	ANRITSU COMPANY
DSMAB8M	MAB8M	0-1000 MHZ, PERMANENT MOUNT, BRASS, MINI-UHF	LAIRD TECHNOLOGIES
DSMCPTBK4	MCPT-BK4	REPLACEMENT BLADE KIT FOR MCPT-L4 MANUAL CABLE PREPARATION	COMMSCOPE TECHNOLOGI
DSMCR806	MCR-806	806-960 MHZ, CORNER REFLECTOR ANTENNA	PCTEL INC
DSMDI78	MDI78	HIGH POWER 700/800MHZ DIPLEXER, 762-776MHZ/851-869MHZ	DBSPECTRA
DSMDS3	MDS-3	MD-S3 MICROWAVE ANTENNA ICE SHIELD FOR 3 FT ANTENNAS	COMMSCOPE TECHNOLOGI
DSMDSQ3	MD-SQ3	MD-SQ3 3FT SQUARE ICE SHIELD	COMMSCOPE TECHNOLOGI
DSMDW4CUN	MDWF4CU-N	DUAL WINDOW FILTER, 380-470MHZ TUNE TO 2 MHZ BW COVERS BOTH TX AND RX	DBSPECTRA
DSMF3990110	MF39901-10	CLAMP HEAD, 10 PK	COMMSCOPE TECHNOLOGI
DSMFBW7463	MFBW7463	WIDEBAND FIBERGLASS OMNI ANTENNA 746-869 NFM BULKHEAD	PCTEL INC
DSMLFML195C	MLFML195C	MOUNT	PCTEL INC
DSMLPV700	MLPV700	MAXRAD MOBILE LOW PROFILE VERTICAL ANTENNA, 700 MHZ	PCTEL INC
DSMMB34	MMB34	3/4 " MIRROR MOUNT	PCTEL INC
DSMMK12	MMK12	ANTENNA MOUNTING BRACKET	PCTEL INC
DSMMK4	MMK4	ANTENNA MOUNT	PCTEL INC
DSMOJAVE1	MOJAVE1	MOJAVE DRYER,115VAC,50/60HZ,1.5A,5PSISUM	COMMSCOPE TECHNOLOGI
DSMOTSH362SKIT	MOTSH362SKIT	MOTOROLA KIT SH-362S SIGNAL HAWK, SPECTRUM ANALYZER	BIRD ELECTRONIC CORP
DSMOTU1S5A1A	MOTU1S-5A1A	5 CH UHF SYSTEM 380-420 MHZ SINGLE BAND W/ SINGLE ISOLATOR & 8 CH RXMC	DBSPECTRA
DSMOTU2D4B1A	MOTU2D-4B1A	4 CH UHF SYSTEM 440-470 MHZ DUAL BAND W/ SINGLE ISOLATOR & 8 CH RXMC (	DBSPECTRA
DSMOTU2D4B2A	MOTU2D-4B2A	4 CH UHF SYSTEM 440-470 MHZ DUAL BAND W/ DUAL ISOLATOR & 8 CH RXMC	DBSPECTRA
DSMOTU8RSA	MOTU8RSA	8 CHANNEL SPLITTER EXPANSION CHASSIS	DBSPECTRA
DSMP2120C	MP2-120C	MICROPOD MAINTENANCE BYPASS AND POWER OUTPUT DISTR SWITCH MP2-120C	CELL MANAGEMENT SYST
DSMS2712E	QUOTE - Q6UJ9-A08DCSK.0	SPECTRUM MASTER, 100 KHZ TO 4 GHZ SPECTRUM ANALYZER W/ETHERNET CONN	ANRITSU COMPANY
DSMS80870205SP	MS8087-0205-SP	800MHZ: 2 CH, SINGLE TX/RX ANTENNA, 50W TX, +11-28VDC RX LNA, 3RU	RFI AMERICAS INC
DSMS80870405SP	MS8087-0405-SP	800MHZ: 4 CH, SINGLE TX/RX ANTENNA, 50W TX, +11-28VDC RX LNA, 3RU	RFI AMERICAS INC
DSMT050B81315	MT050B-81315	DEHYDRATOR, 115/230V 50/60HZ,1.2A 5PSI	COMMSCOPE TECHNOLOGI
DSMT222L	MT-222L	ADJUSTABLE WALL MOUNT FOR SOLID WALLS, 12 IN STAND-OFF	COMMSCOPE TECHNOLOGI
DSMT35712	MT-357-12	TRAPEZE KIT, WAVEGUIDE BRIDGE,12IN	COMMSCOPE TECHNOLOGI
DSMT416	MT-416	MT-416 SLED TRIPOD NON-PENETRATING KIT 1	COMMSCOPE TECHNOLOGI
DSMT537	MT-537	PIPE PLAIN-END GALV 2-3/8IN ODX 126IN (EA)	COMMSCOPE TECHNOLOGI
DSMT54736	MT54736	PIPE PLAIN-END GALV 3-1/2IN ODX 36IN (EA)	COMMSCOPE TECHNOLOGI
DSMT648	MT-648	PIPE PLAIN-END GALV 2-3/8" OD X 24" EACH	COMMSCOPE TECHNOLOGI
DSMT65363	MT-653-63	MT-653-63 PIPE PLAIN-END GALV 4 1/2IN ODX63IN	COMMSCOPE TECHNOLOGI
DSMT657	MT-657	ANDREW PIPE PLAIN END AL 2-3/8IN OD X 48IN	COMMSCOPE TECHNOLOGI
DSMT9090ASTRO	MT9090A	ANRITSU MT9090 W/ GIGABIT ETHERNET TESTER OPTIONS	ANRITSU COMPANY
DSMT9090ASTRO2YR	MT9090A-ES210 MU909060A2-ES210	ANRITSU MT9090A 2 YR EXT WARR ON MAINFRAME AND MODULE	ANRITSU COMPANY
DSMT9090ASTRO3YR	MT9090A-ES310 MU909060A2-ES310	ANRITSU MT9090A 3 YR EXT WARR ON MAINFRAME AND MODULE	ANRITSU COMPANY
DSMT9090ASTRO5YR	MT9090A-ES510 MU909060A2-ES510	ANRITSU MT9090A 5 YR EXT WARR ON MAINFRAME AND MODULE	ANRITSU COMPANY
DSMTF1598	MT-F1598	21 3/4 INCH PVC ROOF SLEEPER FOR 4 COAXIAL CABLE RUNS	COMMSCOPE TECHNOLOGI
DSMTF504	MT-F504	45 DEG. ADJUSTABLE SPLICE FOR WG BRIDGE (KIT/1)	COMMSCOPE TECHNOLOGI
DSMTPLHS	MTPLHS	MODULAR TPL FUSE BASE WITH 50MV/600A SHUNT	ELTEK INC

DSMU3MMS	MU3MMS	STARTECH 3 FT SLIM 3.5MM STEREO AUDIO CABLE M/M	CDW DIRECT LLC
DSMW3HE00062CB	3HE00062CB	SFP - GIGE BASE-T RJ45 R6/6 DDM -40/85C	ALCATEL LUCENT USA I
DSMW3HE00205NA	3HE00205NA	5620 SAM R12 / 5650 CPAM R8.0 S/W KIT	ALCATEL LUCENT USA I
DSMW3HE00868CA	3HE00868CA	IPD SFP - GIGE BX10-U - LC R6/6 DDM -40/85C	ALCATEL LUCENT USA I
DSMW3HE00868CB	3HE00868CB	SFP - GIGE BX10-D - LC R6/6	ALCATEL LUCENT USA I
DSMW3HE00981NA	3HE00981NA	5620 SAM R12 BASE PRODUCT	ALCATEL LUCENT USA I
DSMW3HE01016BA	3HE01016BA	7750 SR-C12 CHASSIS BUNDLE; CHASSIS, AIR FILTER, FAN TRAY	ALCATEL LUCENT USA I
DSMW3HE01454CA	3HE01454CA	SFP - 100M EX - LC ROHS 6/6 DDM -40/85C SINGLE MODE 40 KM, 1310 NM	ALCATEL LUCENT USA I
DSMW3HE02023PA	3HE02023PA	5620 SAM R12 / 5650 CPAM R8.0 S/W KIT	ALCATEL LUCENT USA I
DSMW3HE02772AA	3HE02772AA	AUXILIARY ALARM CARD (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE02774AB	3HE02774AB	CONTROL SWITCH MODULE V2 (CSMV2) 48V	ALCATEL LUCENT USA I
DSMW3HE02775AB	3HE02775AB	16 PORT T1/E1 ASAP CARD V2 (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE02776AB	3HE02776AB	8 PORT GE/FE ETHERNET CARD V2 48V	ALCATEL LUCENT USA I
DSMW3HE02780AA	3HE02780AA	6 PORT FXS LINE CARD (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE02781AA	3HE02781AA	32 PORT T1/E1 ASAP CARD (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE02782AA	3HE02782AA	PACKET MICROWAVE CARD (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE02784GA	3HE02784GA	IPD SAR RELEASE 6.1 BASIC OS LICENSE	ALCATEL LUCENT USA I
DSMW3HE02784JA	3HE02784JA	SAR RELEASE 7.0 BASIC OS LICENSE	ALCATEL LUCENT USA I
DSMW3HE03054AA	3HE03054AA	SAR-8 SPARE BLANKING PLATES (6 PACK)	ALCATEL LUCENT USA I
DSMW3HE03126AA	3HE03126AA	6 PORT E&M INTERFACE CARD -48 VDC	ALCATEL LUCENT USA I
DSMW3HE03391AB	3HE03391AB	12 PORT SERIAL DATA CARD	ALCATEL LUCENT USA I
DSMW3HE03394AA	3HE03394AA	32 PORT T1/E1 RJ45 PANEL	ALCATEL LUCENT USA I
DSMW3HE03397AA	3HE03397AA	T1/E1 CABLE FOR DISTRIBUTION PANEL 1M	ALCATEL LUCENT USA I
DSMW3HE03397BB	3HE03397BB	T1/E1 CABLE FOR DISTRIBUTION PANEL 1.6 M CROSS-OVER CONFIGURATION	ALCATEL LUCENT USA I
DSMW3HE03398AB	3HE03398AB	T1/E1/ALARM CABLE 26 AWG OPEN-ENDED 15M	ALCATEL LUCENT USA I
DSMW3HE03399AB	3HE03399AB	T1/E1/ALARM CABLE 26 AWG OPEN-ENDED 30M	ALCATEL LUCENT USA I
DSMW3HE03401AA	3HE03401AA	IPD SYNCHRONIZATION Y- CABLE	ALCATEL LUCENT USA I
DSMW3HE03603NA	3HE03603NA	5620 SAM-E/A/P R12 LICENSE - 7705 SAR-8 (+2 MDA)	ALCATEL LUCENT USA I
DSMW3HE03605NA	3HE03605NA	3HE03605PA 5620 SAM-EAP R13 ADDL- 7705 SAR-8/18 MDA	ALCATEL LUCENT USA I
DSMW3HE03605PA	3HE03605PA	5620 SAM-EAP R13 ADDL- 7705 SAR-8/18 MDA	ALCATEL LUCENT USA I
DSMW3HE03659AA	3HE03659AA	PEM - 7750 SR-C12 DC POWER ENTRY MODULE-3	ALCATEL LUCENT USA I
DSMW3HE03660AA	3HE03660AA	FAN - 7750 SR-C12 HF FAN TRAY	ALCATEL LUCENT USA I
DSMW3HE04507AB	3HE04507AB	RS232 CABLE PAIR - 2M	ALCATEL LUCENT USA I
DSMW3HE04511AA	3HE04511AA	6 PORT RS232 DISTRIBUTION PANEL	ALCATEL LUCENT USA I
DSMW3HE04580AA	3HE04580AA	CCM - 7750 SR-C12 CCM-XP	ALCATEL LUCENT USA I
DSMW3HE05837BA	3HE05837BA	7705 AC POWER CONVERTER PIGTAIL - O-RING	ALCATEL LUCENT USA I
DSMW3HE05838AA	3HE05838AA	250W 120/240V AC POWER CONVERTER	ALCATEL LUCENT USA I
DSMW3HE06151AA	3HE06151AA	8 PORT GE SFP CARD V2 (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE06151AC	3HE06151AC	8 PORT GE SFP CARD V3 (-48/+24 VDC)	ALCATEL LUCENT USA I
DSMW3HE06791AA	3HE06791AA	SAR-8 SHELF V2	ALCATEL LUCENT USA I
DSMW3HE06792AA	3HE06792AA	IPD FAN MODULE FOR SAR-8 SHELF V2 EXT. TEMP (-48VDC)	ALCATEL LUCENT USA I
DSMW3HE06792EA	3HE06792EA	FAN MODULE (SAR-8 SHELF V2) EXT TEMP -48VDC	ALCATEL LUCENT USA I
DSMW3HE06794AA	3HE06794AA	8 PORT FXO LINE CARD (-48/+24 VDC)	ALCATEL LUCENT USA I

DSMW3HE06796AA	3HE06796AA	SAR-A W/ 12 ENET -48 VDC	ALCATEL LUCENT USA I
DSMW3HE06972AB	3HE06972AB	PSE CERTIFIED 100W HIGH VOLTAGE POWER SUPPLY	ALCATEL LUCENT USA I
DSMW3HE07152AA	3HE07152AA	POWER INJECTOR CARD	ALCATEL LUCENT USA I
DSMW3HE07353AA	3HE07353AA	SAR-HC	ALCATEL LUCENT USA I
DSMW3HE07683AA	3HE07683AA	OCT 6 2015 AC-DC RECTIFIER SHELF, PWR-ONE,W/BATT	ALCATEL LUCENT USA I
DSMW3HE07945AA	3HE07945AA	SAR-HC PANEL MOUNTING H/W KIT - REAR MOUNT	ALCATEL LUCENT USA I
DSMW3HE08173AA	3HE08173AA	CFM - 7750 SR-C12 CFM-XP-B	ALCATEL LUCENT USA I
DSMW3HE08202PA	3HE08202PA	5620 SAM-E/A/P R13 LIC 7705 SAR-A	ALCATEL LUCENT USA I
DSMW3HE09259BA	3HE09259BA	RTU - 7705 SAR-HC NGE LICENSE	ALCATEL LUCENT USA I
DSMW3HE09259CA	3HE09259CA	RTU - 7705 SAR-8 NGE LICENSE	ALCATEL LUCENT USA I
DSMW3HE09302AA	3HE09302AA	RTU-8 PORT GE SFP CARD V3 ENCRYPT	ALCATEL LUCENT USA I
DSMW3HE10033PA	3HE10033PA	5620 SAM-E/A/P R13 LIC. NGE	ALCATEL LUCENT USA I
DSMW3HE10040AA	3HE10040AA	AC POWER CABLE, LOCKING, 6FT, NA	ALCATEL LUCENT USA I
DSMW3HE10820QA	3HE10820QA	5620 SAM R14 BASE PRODUCT - CLASSIC	ALCATEL LUCENT USA I
DSMW3HE10823QA	3HE10823QA	5620 SAM R14 CLASSIC SUITE LICENSE POINT	ALCATEL LUCENT USA I
DSMW3HE10824QA	3HE10824QA	5620 SAM R14 PREMIUM SUITE LICENSE POINT	ALCATEL LUCENT USA I
DSMW3HE11473AA	3HE11473AA	MOTOROLA 7705 SAR-A BUNDLE - REDUNDANT	ALCATEL LUCENT USA I
DSMW3HE11473AB	3HE11473AB	MOTOROLA 7705 SAR-A BUNDLE - SIMPLEX	ALCATEL LUCENT USA I
DSMW3HE11473AC	3HE11473AC	MOTOROLA 7705 SAR-A BUNDLE - REDUNDANT + T1	ALCATEL LUCENT USA I
DSMW3HE11473AD	3HE11473AD	MOTOROLA 7705 SAR-A BUNDLE - SIMPLEX + T1	ALCATEL LUCENT USA I
DSMWF1AUD	MWF1AU-D	137-174MHZ VHF UNIVERSAL MILLED WINDOW NOTCH FILTER, 1-2.5MHZ PASSBAND	DBSPECTRA
DSMWF1AUN	MWF1AU-N	137-174MHZ WINDOW MILLED FILTER, >25DB ISO, 1-3 MHZ PASSBAND N CONN	DBSPECTRA
DSMWF1BUN	MWF1BU-N	137-174MHZ UNI WINDOW MILLED FILTER, 45DB ISO, 1-3 MHZ PASSBAND N CONN	DBSPECTRA
DSMWF1CNU	MWF1C-NU	130-220MHZ VHF WINDOW MILLED FILTER, ISOLATION 65DB AT 1.5MHZ	DBSPECTRA
DSMWF1CUD	MWF1CU-D	137-174MHZ WINDOW MILLED FILTER, >65DB ISO, 1-3 MHZ PASSBAND DIN CONN	DBSPECTRA
DSMWF1CUN	MWF1CU-N	137-174MHZ TX WINDOW MILLED FILTER, >65DB ISO, 1-3 MHZ PASSBAND N CONN	DBSPECTRA
DSMWF4AUD	MWF4AU-D	380-470MHZ TRANSMIT MILLED WINDOW FILTER, 2-5MHZ PASSBAND >25DB ISOLA	DBSPECTRA
DSMWF4BUD	MWF4BU-D	380-470MHZ TRANSMIT MILLED WINDOW FILTER, 2-5MHZ PASSBAND >45DB ISOLA	DBSPECTRA
DSMWF4BUN	MWF4BU-N	380-470MHZ TRANSMIT MILLED WINDOW FILTER, 2-5MHZ PASSBAND >45DB ISOLA	DBSPECTRA
DSMWF4CUN	MWF4CU-N	380-470MHZ WINDOW MILLED FILTER, 65DB ISO, 2-5 MHZ PB, 450W N CONN	DBSPECTRA
DSMWF7AMD	MWF7AM-D	700MHZ HIGH POWER TRANSMIT MILLED FILTER,762-776MHZ, 14 MHZ BANDWIDTH	DBSPECTRA
DSMWF8AMD	MWF8AM-D	800MHZ HI PWR TX MILLED FILTER 851-869MHZ 18MHZ BW 7/16 DIN CONN	DBSPECTRA
DSMWF9AMD	MWF9AM-D	FILTER. 935-941MHZ HIGH POWER TX FILTER WITH DIN CONNECTOR	DBSPECTRA
DSMWFD7CMCSD	MWFD7CMCSD	700MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, DIN-TYPE	DBSPECTRA
DSMWFD7CMCSN	MWFD7CMCSN	700MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA
DSMWFD8CMCSD	MWFD8CMCSD	800MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, DIN-TYPE	DBSPECTRA
DSMWFD8CMCSN	MWFD8CMCSN	800MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA
DSMWFD9CMCSD	MWFD9CMCSD	900MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, DIN-TYPE	DBSPECTRA
DSMWFD9CMCSN	MWFD9CMCSN	900MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA
DSMWFDP8AM	MWFDP8AM	808-861MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS	DBSPECTRA
DSMWFDP9AM	MWFDP9AM	896-940MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS.	DBSPECTRA
DSN000000D001A	N000000D001A	4.4 - 5.0 GHZ, 26.6 DBI, 2-FT (0.6M), PARABOLIC DISH	CAMBIUM NETWORKS LIM
DSN000000D002A	N000000D002A	4.4 - 5.0 GHZ, 32.6 DBI, 4-FT (1.2M), PARABOLIC DISH	CAMBIUM NETWORKS LIM

DSN000000D003A	N000000D003A	4.4-5.0 GHZ, 16 DBI, DUAL-POL SECTOR ANTENNA	CAMBIUM NETWORKS LIM
DSN000000D004A	N000080L004	SIDE STRUTS / STABILIZER ARMS PTP600 ANTENNA	CAMBIUM NETWORKS LIM
DSN000000D037A	N000000D037A	SIDE STRUTS / STABILIZER ARMS 4/6FT	CAMBIUM NETWORKS LIM
DSN000000K004A	N000000K004A	PTP BACKHAUL SWITCH,E4G-200 CORE LIC UPGRADE FROM EDGE	CAMBIUM NETWORKS LIM
DSN000000L019A	N000000L019A	FILLER PANEL, 19 IN W X 10.47 IN H, GRAY	CAMBIUM NETWORKS LIM
DSN000000L034A	N000000L034A	POWER SUPPLY, 30W, 56V - GBPS SUPPORT	CAMBIUM NETWORKS LIM
DSN000000L054A	N000000L054A	POWER SUPPLY FOR CMM4, 54V, HLG-240H-54C	CAMBIUM NETWORKS LIM
DSN000000L055A	N000000L055A	POWER SUPPLY, SINGLE OUTPUT SWITCHING, 30V, 240W, HLG-240H	CAMBIUM NETWORKS LIM
DSN000000L065	N000000L065	LSXL COAX LIGHTNING PROTECTOR FOR INDOOR ODU	CAMBIUM NETWORKS LIM
DSN000000L066	N000000L066	PTP BACKHAUL SWITCH,E4G-200 DC SWITCH 8 PORT GBE + 4 SFP	CAMBIUM NETWORKS LIM
DSN000000L066A	N000000L066A	PTP BACKHAUL SWITCH,E4G-200 DC SWITCH 8 PORT GBE + 4 SFP	CAMBIUM NETWORKS LIM
DSN000000L067A	N000000L067A	PTP BACKHAUL SWITCH,E4G-200 16 X T1/E1 MODULE	CAMBIUM NETWORKS LIM
DSN000000L077A	N000000L077A	PTP BACKHAUL SWITCH,E4G-400 300W DC POWER SUPPLY MODULE	CAMBIUM NETWORKS LIM
DSN000000L081A	N000000L081A	POWER CORD FOR SUMMIT AC SWITCH,AMERICAN,10A,NEMA 5-15P,IEC320-C13	CAMBIUM NETWORKS LIM
DSN000000L085A	N000000L085A	PTP BACKHAUL SWITCH,SUMMIT X440-8T-AC,8X10/100/1000BT,4X1000BX UNPOP S	CAMBIUM NETWORKS LIM
DSN000000L088A	N000000L088A	PTP BACKHAUL SWITCH,SUMMIT X440-24T-AC,24X10/100/1000BT,4X1000BX UNPOP	CAMBIUM NETWORKS LIM
DSN000045L001A	N000045L001A	ETHERNET CABLE ADAPTER FOR CMM4	CAMBIUM NETWORKS LIM
DSN000045L002A	N000045L002A	TILT BRACKET ASSEMBLY	CAMBIUM NETWORKS LIM
DSN000065L001A	N000065L001B	PTP 650 AC POWER INJECTOR	CAMBIUM NETWORKS LIM
DSN000065L003A	N000065L003A	US LINE CORD FIG 8	CAMBIUM NETWORKS LIM
DSN000065L005A	N000065L005A	EU LINE CORD FIG 8	CAMBIUM NETWORKS LIM
DSN000065L030A	N000065L030A	EXTENDED DIAMETER MAST MOUNTING KIT 3.5IN AND 4.5IN	CAMBIUM NETWORKS LIM
DSN000065L031A	N000065L031A	PTP 650 MOUNTING BRACKET (INTEGRATED) - 1 REQ W/EA INTEGRATED ODU	CAMBIUM NETWORKS LIM
DSN000065L032A	N000065L032A	MOUNTING BRACKET (CONNECTORIZED)	CAMBIUM NETWORKS LIM
DSN000065L033A	N000065L033A	RJ-45 GLAND SPARE - PG16 SIZE - PACK OF 10	CAMBIUM NETWORKS LIM
DSN000065L036A	N000065L036A	BLANKING PLUG PACK (QTY 10)	CAMBIUM NETWORKS LIM
DSN000065L039A	N000065L039A	PTP 650 LOW PROFILE LARGE DIAMETER POLE MOUNT BRACKET	CAMBIUM NETWORKS LIM
DSN000065L042	N000065L042A	PTP 650 LARGE DIAMETER EXTENSION KIT FOR STANDARD INTEGRATED BRACKET	CAMBIUM NETWORKS LIM
DSN000080L001	N000080L001	WR90 FLEX TWIST HANGER KIT	CAMBIUM NETWORKS LIM
DSN000081H003A	N000081H003A	PTP810 MMU SUPER PDH MASTER I/O MODULE	CAMBIUM NETWORKS LIM
DSN000081H004	N000081H004	PTP810 MMU CHASSIS	CAMBIUM NETWORKS LIM
DSN000081H005	N000081H005B	PTP810 MMU CONTROL MODULE	CAMBIUM NETWORKS LIM
DSN000081H006	N000081H006	PTP810 MMU EXPANSION I/O: 16XE1/T1	CAMBIUM NETWORKS LIM
DSN000081H010A	N000081H010A	PTP810 MMU EXPANSION I/O: 2XSTM-1 OPTICAL/OC-3	CAMBIUM NETWORKS LIM
DSN000081H011	N000081H011A	PTP810 MMU EXPANSION I/O: 21XE1/T1	CAMBIUM NETWORKS LIM
DSN000081H012	N000081H012	PTP810 MMU GIGE MASTER I/O MODULE	CAMBIUM NETWORKS LIM
DSN000081H013A	N000081H013A	PTP810 MMU MINI I/O: STM-1 ELECTRICAL	CAMBIUM NETWORKS LIM
DSN000081H014A	N000081H014A	PTP810 MMU MINI I/O: STM-1 OPTICAL/OC-3	CAMBIUM NETWORKS LIM
DSN000081H015	N000081H015	PTP810 MMU POWER SUPPLY MODULE	CAMBIUM NETWORKS LIM
DSN000081H016	N000081H016	PTP810 MMU STANDARD MASTER I/O MODU	CAMBIUM NETWORKS LIM
DSN000081L001	N000081L001	PTP810 14 TO 1 SHIELDED E1/T1 CABLE	CAMBIUM NETWORKS LIM
DSN000081L002	N000081L002	PTP810 AC TO DC POWER ADAPTER	CAMBIUM NETWORKS LIM
DSN000081L006	N000081L006A	TNC MALE RIGHT ANGLE FOR CNT-400 BR	CAMBIUM NETWORKS LIM

DSN000081L007	N000081L007	TYPE N FEMALE TO TNC MALE ADAPTER	CAMBIUM NETWORKS LIM
DSN000081L008	N000081L008A	IF CABLE FOR PTP810 MMU AND IRFU	CAMBIUM NETWORKS LIM
DSN000082K027B	N000082K027B	PTP 820 ACT.KEY - AES KEY 256 BIT - PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L014A	N000082L014A	PTP 820 GLANDS X5 KIT	CAMBIUM NETWORKS LIM
DSN000082L016A	N000082L016A	PTP 820 CAT5E OUTDOOR 100M DRUM	CAMBIUM NETWORKS LIM
DSN000082L017A	N000082L017A	PTP 820 GROUNDING KIT FOR CAT5E F/UTP 8MM CABLE	CAMBIUM NETWORKS LIM
DSN000082L020A	N000082L020A	PTP 820 POE INJECTOR 19INCH RACK MOUNT KIT	CAMBIUM NETWORKS LIM
DSN000082L022A	N000082L022A	PTP 820 POE INJECTOR ALL OUTDOOR, REDUNDANT DC INPUT, 24VDC SUPPORT	CAMBIUM NETWORKS LIM
DSN000082L025A	N000082L025A	PTP 820 16T1 CABLE MDR68-RJ45 3M,LA,CROSS	CAMBIUM NETWORKS LIM
DSN000082L028A	N000082L028A	PTP 820G ACT.KEY - 2ND MODEM ACTIVATION	CAMBIUM NETWORKS LIM
DSN000082L032A	N000082L032A	PTP 820S ACT.KEY - CAPACITY 100M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L033A	N000082L033A	PTP 820S ACT.KEY - CAPACITY 500M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L034A	N000082L034A	PTP 820S ACT.KEY - CAPACITY 650M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L037A	N000082L037A	PTP 820 ACT.KEY - EDGE-CET-NODE MODE	CAMBIUM NETWORKS LIM
DSN000082L042A	N000082L042A	PTP 820 ACT.KEY - GE PORT, PER ADDITIONAL PORT	CAMBIUM NETWORKS LIM
DSN000082L043A	N000082L043A	PTP 820 ACT.KEY - HEADER DE-DUP, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L048A	N000082L048A	PTP 820 ACT.KEY - MC-ABC, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L056A	N000082L056A	PTP 820 ACT.KEY - XPIC, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L059A	N000082L059A	PTP 820 SFP OPTICAL 1000BASE-LX,EXT TEMP	CAMBIUM NETWORKS LIM
DSN000082L061A	N000082L061A	PTP 820C MIMO OR PROT MANAGEMENT CABLE 1M	CAMBIUM NETWORKS LIM
DSN000082L062A	N000082L062A	PTP 820C MIMO OR PROT MANAGEMENT ODU SPLTR	CAMBIUM NETWORKS LIM
DSN000082L065A	N000082L065A	PTP 820 DC CONNECTOR	CAMBIUM NETWORKS LIM
DSN000082L068A	N000082L068A	PTP 820 RFU-A BRANCHING DRAWER FOR 1+1	CAMBIUM NETWORKS LIM
DSN000082L073A	N000082L073	PTP 820 GBE_CONNECTOR_KIT	CAMBIUM NETWORKS LIM
DSN000082L082A	N000082L082A	PTP 820G ACT.KEY - CAPACITY 100M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L083A	N000082L083A	PTP 820G ACT.KEY - CAPACITY 500M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L084A	N000082L084A	PTP 820G ACT.KEY - CAPACITY 650M WITH ACM ENABLED	CAMBIUM NETWORKS LIM
DSN000082L086A	N000082L086A	PTP 820G ACT.KEY - CAPACITY UPGRADE FROM X TO 500M, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L116A	N000082L116A	PTP 820 GROUND CABLE FOR IDU AND ODU	CAMBIUM NETWORKS LIM
DSN000082L121A	N000082L121A	PTP 820 RFU-C POLE MOUNT KIT	CAMBIUM NETWORKS LIM
DSN000082L129A	N000082L129A	PTP 820S ACT.KEY - CAPACITY 300M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L130A	N000082L130A	PTP 820C ACT.KEY - CAPACITY 300M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L131A	N000082L131A	PTP 820G ACT.KEY - CAPACITY 200M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L132A	N000082L132A	PTP 820G ACT.KEY - CAPACITY 300M WITH ACM ENABLED, PER TX CHAN	CAMBIUM NETWORKS LIM
DSN000082L140A	N000082L140A	PTP 820 OPTICAL CABLE,SM, 50M	CAMBIUM NETWORKS LIM
DSN000082L146A	N000082L146A	PTP 820 FIBER 1+1 SPLITTER, SM	CAMBIUM NETWORKS LIM
DSN000082L147A	N000082L147A	PTP 820 FIBER ADAPTER	CAMBIUM NETWORKS LIM
DSN000082L149A	N000082L149A	TERM LOAD 11 GHZ	CAMBIUM NETWORKS LIM
DSN000082S095A	N000082S095A	PTP 820G IDU (END ONLY) EXTENDED WARRANTY, 1 ADDITIONAL YR	CAMBIUM NETWORKS LIM
DSN000082S102A	N000082S102A	PTP 820G RFU-C (END ONLY) EXTENDED WARRANTY, 1 ADDITIONAL YR	CAMBIUM NETWORKS LIM
DSN000900L001A	N000900L001B	GBPS POWER SUPPLY BRICK 15W, 29.5 VDC	CAMBIUM NETWORKS LIM
DSN000900L007A	N000900L007A	CABLE, UL POWER SUPPLY CORD SET, US	CAMBIUM NETWORKS LIM
DSN000900L008A	N000900L008A	CABLE, UL POWER SUPPLY CORD SET, EU	CAMBIUM NETWORKS LIM

DSN000900L009A	N000900L009A	CABLE, UL POWER SUPPLY CORD SET, UK	CAMBIUM NETWORKS LIM
DSN000900L010A	N000900L010A	CABLE, UL POWER SUPPLY CORD SET, BRAZIL	CAMBIUM NETWORKS LIM
DSN001007BL	N001-007-BL	CABLE, 7FT CAT5E / CAT5 350MHZ SNAGLESS PATCH CABLE RJ45 M/M BLUE	TRIPP LITE MANUFACTU
DSN009045D001A	N009045D001A	900 MHZ 60 DEGREE SECTOR ANTENNA (DUAL SLANT)	CAMBIUM NETWORKS LIM
DSN009045D003A	N009045D003A	900 MHZ 12 DBI GAIN DIRECTIONAL ANTENNA (DUAL SLANT)	CAMBIUM NETWORKS LIM
DSN060080L001A	N060080L001A	HSX4 - 4' HP ANTENNA, 5.925 -6.425 GHZ WITH RADOME, DUAL POL, CPR137G	CAMBIUM NETWORKS LIM
DSN060080L002	N060080L002	HPX6 - 6' HP ANTENNA, 5.925 -6.425 GHZ WITH RADOME, DUAL POL, CPR137G	CAMBIUM NETWORKS LIM
DSN060080L003	N060080L003A	HPX8 - 8' HP ANTENNA, 5.925 - 6.425 GHZ WITH RADOME, DUAL POL, CPR137G	CAMBIUM NETWORKS LIM
DSN060080L007A	N060080L007A	HPX8 - 8' HP ANTENNA, 6.425 -7.125 GHZ WITH RADOME, DUAL POL, CPR137G	CAMBIUM NETWORKS LIM
DSN060080L016A	N060080L016A	FIXED-TUNED PDR70 CONNECTOR FOR EWP63	CAMBIUM NETWORKS LIM
DSN060080L017A	N060080L017A	FIXED-TUNED PDR70 CONNECTOR FOR EWP52	CAMBIUM NETWORKS LIM
DSN060080R012A	N060080R012A	ODU-A 6GHZ, TR252, LO, B4 (5985.0 - 6085.0 MHZ), RECT WG, NEG POLE	CAMBIUM NETWORKS LIM
DSN060080R013A	N060080R013A	ODU-A 6GHZ, TR252, HI, B4 (6235.0- 6335.0 MHZ), RECT WG, NEG POLE	CAMBIUM NETWORKS LIM
DSN060080R014A	N060080R014A	ODU-A 6GHZ, TR252, LO, B5 (6045.0 - 6145.0 MHZ), RECT WG, NEG POLE	CAMBIUM NETWORKS LIM
DSN060080R015A	N060080R015A	ODU-A 6GHZ, TR252, HI, B5 (6295.0 - 6395.0 MHZ), RECT WG, NEG POLE	CAMBIUM NETWORKS LIM
DSN060082D128A	N060082D128A	PTP 820 3FT ANT,SP,6GHZ,RFU-C TYPE STD UDR70 - ANDREW	CAMBIUM NETWORKS LIM
DSN060082D132A	N060082D132A	PTP 820 6FT ANT,SP,6GHZ,RFU-C TYPE & STD UDR70 - ANDREW	CAMBIUM NETWORKS LIM
DSN060082D152A	N060082D152A	PTP 820 4 FTANT,SP,6GHZ,RFU-C TYPE&UDR70 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN060082D153A	N060082D153A	PTP 820 6FT ANT,SP,6GHZ,RFU-C TYPE&UDR70 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN060082L139A	N060082L139A	PTP 820 RFU-A 6GHZ L-BEND T1	CAMBIUM NETWORKS LIM
DSN060082L141A	N060082L141A	PTP 820 RFU-A 6GHZ SYSTEM HOUSING	CAMBIUM NETWORKS LIM
DSN060082L142A	N060082L142A	PTP 820 RFU-A 6GHZ TERMINATION	CAMBIUM NETWORKS LIM
DSN070082D306A	N070082D306A	PTP 820 2FT ANT,SP,7_8GHZ,RFU-C TYPE UBR84 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN070082D308A	N070082D308A	PTP 820 4FT ANT,SP,7_8GHZ,RFU-C TYPE UBR84 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN070082L002A	N070082L002A	PTP 820 RFU-C ADPT 7_8GHZ REMOTE MOUNT ADAPTOR - UBR84	CAMBIUM NETWORKS LIM
DSN070082L004A	N070082L004A	PTP 820 FLEXIBLE TWIST,WR112,PBR84,48.0 INCH,PBR84,7-8 GHZ	CAMBIUM NETWORKS LIM
DSN070082L301A	N070082L301A	PTP 820 RFU-C 7_8GHZ COUPLER KIT	CAMBIUM NETWORKS LIM
DSN070082L302A	N070082L302A	PTP 820 RFU-C 7_8GHZ OMT DM KIT	CAMBIUM NETWORKS LIM
DSN070082L310A	N070082L310A	PTP 820 RFU-C 7_8GHZ OMT INTERFACE-RADIOWAVE	CAMBIUM NETWORKS LIM
DSN070082L312A	N070082L312A	PTP 820 FLX-HNGR-7_8GHZ	CAMBIUM NETWORKS LIM
DSN110080L004A	N110080L004A	FIXED-TUNED PDR100 CONNECTOR FOR EWP90	CAMBIUM NETWORKS LIM
DSN110082D072A	N110082D072A	PTP 820 2FTANT,SP,11GHZ,RFU-C TYPE&STD UBR100 - ANDREW	CAMBIUM NETWORKS LIM
DSN110082D073A	N110082D073A	PTP 820 3FT ANT,SP,11GHZ,RFU-C TYPE&STD UBR100 - ANDREW	CAMBIUM NETWORKS LIM
DSN110082D075A	N110082D075A	PTP 820 4FT ANT,SP,11GHZ,RFU-C TYPE&STD UBR100 - ANDREW	CAMBIUM NETWORKS LIM
DSN110082D077A	N110082D077A	PTP 820 6FT ANT,SP,10_11GHZ,RFU-C TYPE&STD UBR100 - ANDREW	CAMBIUM NETWORKS LIM
DSN110082D098A	N110082D098A	PTP 820 3FT ANT ,SP, 11GHZ, RFU-C TYPE & UBR100 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN110082D100A	N110082D100A	PTP 820 4' ANT,SP,11GHZ,RFU-C TYPE&UBR100 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN110082D102A	N110082D102A	PTP 820 6FT ANT,SP,11GHZ,RFU-C TYPE&UBR100 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN110082L002A	N110082L002A	PTP 820 RFU-C ADPT 10_11GHZ REMOTE MOUNT ADAPTOR - UBR100	CAMBIUM NETWORKS LIM
DSN110082L082A	N110082L082A	PTP 820C OMT KIT 10-11GHZ	CAMBIUM NETWORKS LIM
DSN110082L084A	N110082L084A	PTP 820 RFU-A 11GHZ L-BEND T1	CAMBIUM NETWORKS LIM
DSN110082L086A	N110082L086A	PTP 820 RFU-A 11GHZ SYSTEM HOUSING	CAMBIUM NETWORKS LIM
DSN110082L087A	N110082L087A	PTP 820 RFU-A 11GHZ TERMINATION	CAMBIUM NETWORKS LIM

DSN110082L090A	N110082L090A	PTP 820 RFU-C 10_11GHZ COUPLER KIT	CAMBIUM NETWORKS LIM
DSN110082L092A	N110082L092A	PTP 820 RFU-C 10_11GHZ OMT INTERFACE-ANDREW	CAMBIUM NETWORKS LIM
DSN110082L093A	N110082L093A	PTP 820 RFU-C 10_11GHZ TWIST ADAPTOR KIT	CAMBIUM NETWORKS LIM
DSN110082L106A	N110082L106A	PTP 820 FLEXIBLE TWIST,WR90,PBR100, 35.0 INCH,CPR90F,10-11 GHZ	CAMBIUM NETWORKS LIM
DSN110082L107A	N110082L107A	PTP 820 FLX-HNGR-11GHZ	CAMBIUM NETWORKS LIM
DSN110082L111	N110082L111	FIXED-TUNED PBR100 CONNECTOR FOR EWP90	CAMBIUM NETWORKS LIM
DSN150080R003A	N150080R003A	ODU-A 15GHZ, TR640, LO, B2 (14605.0 - 14715.0 MHZ), RECT WG, NEG POL	CAMBIUM NETWORKS LIM
DSN150080R004A	N150080R004A	ODU-A 15GHZ, TR640, LO, B2 (15245.0 - 15355.0 MHZ), RECT WG, NEG POL	CAMBIUM NETWORKS LIM
DSN180082D031A	N180082D031A	PTP 820 1FT ANT,SP,18GHZ,RFU-C TYPE&STD UBR320 - ANDREW	CAMBIUM NETWORKS LIM
DSN180082D033A	N180082D033A	PTP 820 2FT ANT,SP,18GHZ,RFU-C TYPE&STD UBR220 - ANDREW	CAMBIUM NETWORKS LIM
DSN180082D052A	N180082D052A	PTP 820 2FT ANT,SP,18GHZ,RFU-C TYPE&UBR220 - RADIOWAVE	CAMBIUM NETWORKS LIM
DSN180082L046A	N180082L046A	PTP 820 RFU-C 18GHZ COUPLER KIT	CAMBIUM NETWORKS LIM
DSN180082L049A	N180082L049A	PTP 820 RFU-C 18GHZ TWIST ADAPTOR KIT	CAMBIUM NETWORKS LIM
DSN180082L050A	N180082L050A	PTP 820 RFU-C SPLITTER KIT 18GHZ (UBR220)	CAMBIUM NETWORKS LIM
DSN180082L059A	N180082L059A	PTP 820 FLX-HNGR-18_26GHZ	CAMBIUM NETWORKS LIM
DSN230082D021A	N230082D021A	PTP 820 1FT ANT,SP,23GHZ,RFU-C TYPE&STD UBR220 - ANDREW	CAMBIUM NETWORKS LIM
DSN241212	N2412-12	CONVERTER, 28 VDC	ASTRON CORP
DSN241224	N2412-24	CONVERTER, 28 VDC	ASTRON CORP
DSN254024	N254-024	24-PORT CAT6 FEED THROUGH PATCH PANEL 568A/B RJ45 1URM TAA	TRIPP LITE MANUFACTU
DSN420S	N420S	1/4-20 HEX NUT 18-8 SS (SOLD INDIVIDUALLY)	HARGER INC
DSNCW2178	HOFFMAN NCW2178	NET SERIES COMMUNICATION CABINET, 84HX19WX33.98D, 43U	ANIXTER INC
DSNFA01250	NFA01250	NFA01250, N FEMALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSNFA07850	NFA07850	NFA07850, N FEMALE FOR 7/8" CABLE	TRILOGY COMMUNICATIO
DSNFA11450	NFA11450	NFA11450, N FEMALE FOR 1-1/4" CABLE	TRILOGY COMMUNICATIO
DSNFA15850	NFA15850	NFA15850, N FEMALE FOR 1-5/8" CABLE	TRILOGY COMMUNICATIO
DSNFP01250	NFP01250	NFP01250, N FEMALE, PLENUM FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSNIC1003Z0110VV	NIC1003-Z01-10VV	CONTROLLER OUTPUT TO 13.7V	ELTEK INC
DSNMA01250	NMA01250	NMA01250, N MALE FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSNMA05850	NMA05850	NMA05850, N MALE FOR 5/8" CABLE	TRILOGY COMMUNICATIO
DSNMA07850	NMA07850	NMA07850, N MALE FOR 7/8" CABLE	TRILOGY COMMUNICATIO
DSNMA11450	NMA11450	NMA11450, N MALE FOR 1-1/4" CABLE	TRILOGY COMMUNICATIO
DSNMOKMPL	NMOKMPL	COAX CABLE KIT W/MINI PL CONNECTOR	PULSE ELECTRONICS IN
DSNMP01250	NMP01250	NMP01250, N MALE, PLENUM FOR 1/2" CABLE	TRILOGY COMMUNICATIO
DSNMPR01250	NMPR01250	NMPR01250, 1/2" N MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY COMMUNICATIO
DSNP126T	NP12-6T	BATTERY, 6V, 12 AH ENERSYS GENESIS NP12-6T	ELTEK INC
DSNSB100FT	NSB100FT	BATTERY, 12V, 100AH RED NORTHSTAR	NORTHSTAR BATTERY CO
DSNSB155FT	NSB155FT	BATTERY, 12V, 155AH RED NORTHSTAR	NORTHSTAR BATTERY CO
DSNSB210FT	NSB210FT	BATTERY, 12V, 210AH RED NORTHSTAR	NORTHSTAR BATTERY CO
DSNX08KW208V026B	NX08KW208V026B	UPS, NX 10KVA/8KW, 3-PH, 26 MN RUN	CELL MANAGEMENT SYST
DSNX16KW208V009B	NX16KW208V009B	UPS, NX 20KVA/16KW, 3-PH, 9 MN RUN	CELL MANAGEMENT SYST
DSNX24KW208V009B	NX24KW208V009B	UPS, NX 30KVA/24KW, 3-PH, 9 MN RUN	CELL MANAGEMENT SYST
DSNX24KW208V025B	NX24KW208V025B	UPS, NX 30KVA/24KW, 3-PH, 25 MN RUN	CELL MANAGEMENT SYST
DSOA202041DIN	OA2020-41-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 2 X 5 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC

DSOA202067DIN	OA2020-67-DIN	LOW PIM, 400-520MHZ, EXP DIPOLE, DUAL, OFFSET, 5/5DBD, DIN, 500W, 14LB	RFI AMERICAS INC
DSOA2041DIN	OA20-41-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSOA2057DIN	OA20-57-DIN	OFFSET, EXPOSED DIPOLE ARRRAY, 5 DBD, 330-420 MHZ, PIM RATED	RFI AMERICAS INC
DSOA2067DIN	OA20-67-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSOA4041DIN	OA40-41-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 136-174 MHZ, PIM RATED	RFI AMERICAS INC
DSOA4057DIN	OA40-57-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 330-420 MHZ, PIM RATED	RFI AMERICAS INC
DSOA4067DIN	OA40-67-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSOA4067DINT3	OA40-67-DIN-T3	CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED	RFI AMERICAS INC
DSOA8067DIN	OA80-67-DIN	OFFSET, EXPOSED DIPOLE ARRAY, 11 DBD, 400-520 MHZ, PIM RATED	RFI AMERICAS INC
DSOA8067DINT3	OA80-67-DIN-T3	OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI AMERICAS INC
DSOD62DX	OD-62DX	DDB OD-62DX 33RU OUTDOOR ENCLOSURE UNPAINTED	ANIXTER INC
DSOD78DDX	OD-78DDX	DDB UNLIMITED (78HX25WX42D INCH) SINGLE BAY OUTDOOR CABINET	ANIXTER INC
DSOMNISMT1400PNP	OMNI SMT1400PNP	UPS, 1400VA OMNISMART TOWER LINE-INTERACTIVE 120V 6 OUTLET	TRIPP LITE MANUFACTU
DSOP820B	1101-356-1	PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	TRANSTECTOR SYSTEMS
DSOP820B2	1101-700	PDU, 240V HW (8) IEC 320 OUTLET PDU W/TYPE 3 SAD PROTECTION	TRANSTECTOR SYSTEMS
DSOR808004389	OR-808004389	MOD 8/ TELCO PANEL, HIGH DENSITY, 24 PORTS / 4,5 / F50	GRAYBAR ELECTRIC CO
DSOSLN501	OSLN50-1	PRECISION N(M) OPEN/SHORT/LOAD, 42 DB, 6.0 GHZ	ANRITSU COMPANY
DSOTEC125ID	OTEC125 ID	AUTO TRANSFER SWITCH, 125A, 120/240V, INDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC125OD	OTEC125 OD	AUTO TRANSFER SWITCH, 125A, 120/240V 1PH, OUTDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC225ID	OTEC225 ID	AUTOMATIC TRANSFER SWITCH, 225A, 120/240V 1PH, INDOOR ENCL	CUMMINS NPOWER LLC
DSOTEC225ID3P	OTEC 225 ID 3PH 120/208	AUTO TRANSFER SWITCH, 225A 3-PH, 120/208 INDOOR	CUMMINS NPOWER LLC
DSOTEC225ID3P480	OTEC225 3PH 277/480V ID	AUTO TRANSFER SWITCH, 225A 3-PH, 277/480 INDOOR	CUMMINS NPOWER LLC
DSOTEC225OD	OTEC 225 OD	AUTO TRANSFER SWITCH, 225A, 120/240V 1PH, OUTDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC260ID	OTEC 260A ID ATS	AUTOMATIC TRANSFER SWITCH, 260A, 120/240V 1PH, INDOOR ENCL	CUMMINS NPOWER LLC
DSOTEC300ID	OTEC 300A ID ATS	AUTO TRANSFER SWITCH, 300A, 120/240V 1PH, INDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC300OD	OTEC 300A OD ATS	AUTO TRANSFER SWITCH, 300A, 120/240V 1PH, OUTDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC300OD3PH	OTEC300 3-PHASE	AUTO TRANSFER SWITCH, 300A, 3-PH, OUTDOOR	CUMMINS NPOWER LLC
DSOTEC400ID	OTEC 400A ID ATS	AUTO TRANSFER SWITCH, 400A, 120/240V 1PH, INDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSOTEC400ID3PH	OTEC400 3PH, NEMA 1	AUTO TRANSFER SWITCH, 400A, 3-PH, INDOOR	CUMMINS NPOWER LLC
DSOTEC600ID3PH	600 OTEC 3PH NEMA 1	AUTO TRANSFER SWITCH, 600A, 3PH, INDOOR	CUMMINS NPOWER LLC
DSOTEC600OD3PH	600 OTEC 3PH NEMA 3R	AUTO TRANSFER SWITCH, 600A, 3PH, OUTDOOR	CUMMINS NPOWER LLC
DSP004006	P004-006	AC POWER EXTENSION CABLE - PC STYLE PLUGS (IEC-320-C14 TO IEC-320-C13)	TRIPP LITE MANUFACTU
DSP005006	P005-006	TRIPP LITE 6FT HEAVY DUTY POWER EXTENSION CORD	CDW DIRECT LLC
DSP04268	P04268	ALUMINUM 6061-T6. PIPE 1 INCH SCHED 40	PCTEL INC
DSP1015MOUC5	P10-15MO-U-C5	UHF C5 AMP, 406-512MHZ, 100W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1015MOUC7	P10-15MO-U-C7	C7 UHF AMP, 406-512MHZ, 100W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1015MOVC5	P10-15MO-V-C5	VHF C5 AMP, 136-174MHZ, 100W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1015MOVC7	P10-15MO-V-C7	C7 VHF AMP, 136-174MHZ, 100W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1020MOUC5	P10-20MO-U-C5	UHF C5 AMP, 406-512MHZ, 100W OUTPUT, 20-50W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1020MOUC7	P10-20MO-U-C7	C7 UHF AMP, 406-512MHZ, 100W OUTPUT, 20-50W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1020MOUPS	P10-20MO-U-PS	UHF C5 AMP, 406-512MHZ, 100W OUTPUT, 20-50W INPUT, 13.8DC/110 AC	CRESCEND TECHNOLOGIE
DSP1020MOVC5	P10-20MO-V-C5	VHF C5 AMP, 136-174MHZ, 100W OUTPUT, 20-50W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1020MOVPS	P10-20MO-V-PS	VHF C5 AMP, 136-174MHZ, 100W OUTPUT, 20-50W INPUT, 13.8DC/110 AC	CRESCEND TECHNOLOGIE

DSP1515MOJKC6	P15-15MO-JK-C6	C6 800MHZ AMP, 764-870MHZ, 150W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1515MOLC6	P15-15MO-L-C6	C6 900MHZ AMP, 928-942MHZ, 150W OUTPUT, 15-25W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1520MOJKC6	P15-20MO-JK-C6	C6 800MHZ AMP, 764-870MHZ, 150W OUTPUT, 20-50W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP1520MOLC6	P15-20MO-L-C6	C6 900MHZ AMP, 928-942MHZ, 150W OUTPUT, 20-50W INPUT, 13.8DC	CRESCEND TECHNOLOGIE
DSP19SH810B	P19SH810B	SHELF, ADJUSTABLE DEPTH 19 INCH, COLOR BLACK	ANIXTER INC
DSP3RR420A	P3RRF20A	BLANK PANEL, 19 INCH 3 RU	LAMARCHE MFG CO
DSP3RRBA03A	P3RRBA03A	BATTERY TRAY, 19 IN W X 19 IN D	LAMARCHE MFG CO
DSP3RRBA03AZ	P3RRBA03AZ	BATTERY TRAY, 19 IN W X 19 IN D WITH SEISMIC TIE DOWNS	LAMARCHE MFG CO
DSP3RRBA08AX	P3RRBA08AX	BATTERY TRAY, 23 IN SEISMIC FOR FRONT TERMINATING BATTS	LAMARCHE MFG CO
DSP3RRP040	P3RRP040	19WX84H WIDE RELAY RACK	LAMARCHE MFG CO
DSP3RRP060	P3RRP060	RELAY EQUIPMENT RACK 7 FT X 23 IN	LAMARCHE MFG CO
DSP4ACELB200D1B	P4ACELB200D1B	BREAKER 200 AMP FOR DCPS POWER SYSTEM	LAMARCHE MFG CO
DSP4AIELB100D1B	P4AIELB100D1B	BREAKER 100 AMP FOR DCPS POWER SYSTEM	LAMARCHE MFG CO
DSP4AIELB10D1B	P4AIELB10D1B	BREAKER 10 AMP FOR DCPS POWER SYSTEM	LAMARCHE MFG CO
DSP4AIELB20D1B	P4AIELB20D1B	BREAKER 20 AMP FOR DCPS POWER SYSTEM	LAMARCHE MFG CO
DSP4AIELB50D1B	P4AIELB50D1B	BREAKER 50 AMP FOR DCPS POWER SYSTEM	LAMARCHE MFG CO
DSP4ALELB150D1B	P4ALELB150D1B	150A BATTERY BREAKER	LAMARCHE MFG CO
DSP750006	P750-006	CABLE, PS/2 CABLE KIT FOR KVM SWITCH B004-008 - 6 FT	TRIPP LITE MANUFACTU
DSP774006	P774-006	CABLE, PS/2 CABLE KIT FOR B020- AND B022- SERIES KVM SWITCHES - 6 FT	TRIPP LITE MANUFACTU
DSP776006	P776-006	USB CABLE KIT FOR B020- AND B022- SERIES KVM SWITCHES - 6 FT	TRIPP LITE MANUFACTU
DSP776019	P776-019	CABLE, KVM USB CABLE KIT FOR B020/B022 SERIES SWITCHES - 19 FT	TRIPP LITE MANUFACTU
DSP778006	P778-006	CABLE, KVM USB-PS2 COMBO KIT FOR B020/22-U08/16 SERIES SWITCHES 6 FT	TRIPP LITE MANUFACTU
DSP820MOJKPS	P8-20MO-JK-PS	800MHZ C5 AMP, 764-870MHZ, 80W OUTPUT, 20-50W INPUT, 13.8DC/110 AC	CRESCEND TECHNOLOGIE
DSPAR659WPXAA	PAR6-59W-PXA/A	6 FT PARABOLIC UNSHIELDED ANT,SINGLE-POLARIZED,5.925-7.125 GHZ,CPR137G	COMMSCOPE TECHNOLOGI
DSPARX659WPXAA	PARX6-59W-PXA/A	6FT PARAB UNSHIELD CATEGORY A, DUAL-POLARIZED, 5.925-7.125GHZ, CPR137G	COMMSCOPE TECHNOLOGI
DSPBA10	PBA-10	PBA PLUG-IN BREAKER 10 AMP	NEWMAR
DSPBA100	PBA-100	100 AMP CIRCUIT BREAKER	NEWMAR
DSPBA20	PBA-20	PBA PLUG-IN BREAKER 20 AMP	NEWMAR
DSPBA25	PBA-25	BREAKER, 25 AMP CIRCUIT BREAKER PBA	NEWMAR
DSPBA30	PBA-30	30 AMP CIRCUIT BREAKER	NEWMAR
DSPBA40	PBA-40	40 AMP CIRCUIT BREAKER	NEWMAR
DSPBA5	PBA-5	PBA PLUG-IN BREAKER 5 AMP	NEWMAR
DSPBA50	PBA-50	50 AMP CIRCUIT BREAKER	NEWMAR
DSPBM6607	1101-162	SPD, PUNCH DOWN FOR M66 BLOCK, PAIR PROTECTION 40V FOR ALARM CIRCUITS	TRANSTECTOR SYSTEMS
DSPDU1220	PDU1220	TRIPP LITE PDU BASIC 120V 20A 5-15/20R 13 OUTLET 5-20P HORIZONTAL 1URM	TRIPP LITE MANUFACTU
DSPDU1220T	PDU1220T	PDU, BASIC 120V 20A 5-15/20R 13 OUTLET L5-20P HORIZONTAL 1URM	TRIPP LITE MANUFACTU
DSPDU1230	PDU1230	PDU,208 VOLTS 30 AMPS (12) C-13 AC RECEPTACLES (3) 10 AMP BREAKERS	TRIPP LITE MANUFACTU
DSPDU20B2F8R	PDU20B2F8R	PDU, 10-OUTLET (2 FRONT 8 REAR) RACK MOUNT, 120V 20A OUTPUT	GRAYBAR ELECTRIC CO
DSPDU20BT10R	PDU20BT10R	PDU, 10-OUTLET RACK MOUNT, 120V 20A OUTPUT NEMA L5-20P TWIST LOCK PLU	GRAYBAR ELECTRIC CO
DSPDU20BT12R	PDU20BT12R	PDU, 12-OUTLET RACK MOUNT, 120V 20A OUTPUT NEMA L5-20P TWIST LOCK PLU	GRAYBAR ELECTRIC CO
DSPDU20BT8R	PDU20BT8R	PDU, 8-OUTLET RACK MOUNT, 120V 20A OUTPUT, NEMA L5-20P TWIST LOCK PLU	GRAYBAR ELECTRIC CO
DSPDUMH20AT	PDUMH20AT	SWITCH, 120 VOLTS 20 AMPS (16) 5-15R/20R AC RECEPTACLES 12 FT CORD	TRIPP LITE MANUFACTU
DSPDUMH20ATNET	PDUMH20ATNET	PDU SWITCHED ATS 120V 20A 5-15/20R 16 OUTLET L5-20P HORIZONTAL	TRIPP LITE MANUFACTU

DSPDUMH20NET	PDUMH20NET	PDU SWITCHED 120V 20A 5-15/20R 16 OUTLET 1U RM	TRIPP LITE MANUFACTU
DSPDUMV40	PDUMV40	PDU, 120 VOLTS 40(2X20) AMPS 32(2X16) 5-15R/20R AC RECEPTACLES (2) 20	TRIPP LITE MANUFACTU
DSPF7982100331N	PF7982-1003-31N	BANDPASS FILTER, RX, 3 MHZ BW, RANGE 796-824 MHZ	RFI AMERICAS INC
DSPF7982100631N	PF7982-1006-31N	BANDPASS FILTER, RX, 6 MHZ BW, RANGE 796-824 MHZ	RFI AMERICAS INC
DSPF7982101031N	PF7982-1010-31N	BANDPASS FILTER, RX, 10 MHZ BW, RANGE 796-824 MHZ	RFI AMERICAS INC
DSPF7982101531N	PF7982-1015-31N	BANDPASS FILTER, RX, 15 MHZ BW, RANGE 796-824 MHZ	RFI AMERICAS INC
DSPF7982101831N	PF7982-1018-31N	BANDPASS FILTER, RX, 18 MHZ BW, RANGE 796-824 MHZ	RFI AMERICAS INC
DSPF7982101831N2	PF7982-1018-31N-2	BANDPASS FILTERS, TWO ON 1RU PANEL, RX, 18MHZ BW, RANGE 796-824MHZ	RFI AMERICAS INC
DSPJ745	PJ745	PJ745: PLUG LOOPING BNT BRASS 2C	COMMSCOPE TECHNOLOGI
DSPJ772	PJ772	PJ772: P/C-BNT-DL-3C-072	COMMSCOPE TECHNOLOGI
DSPKGRAC3230261	PKGRAC3230261	DC POWER SYSTEM FP2 48V 450A TRILOGY 2BT 19 IN 2 DIST	ELTEK INC
DSPKGRAC3234521	PKGRAC323452-1	DC POWER SYSTEM FP2 48V 450A 23 INCH 2 BT, SMARTPACK	ELTEK INC
DSPPL657WPXAA	PL6-57W-PXA/A	FLEXIBLE TWIST FOR WR112, 7.05?10.0 GHZ, CPR112G 600 MM	COMMSCOPE TECHNOLOGI
DSPLUG12	PLUG-12	PLUG-12 1/2" ENTRY BOOT PLUGS	COMMSCOPE TECHNOLOGI
DSPM1240	PM-12-40	POWER MODULE, 12VDC OUTPUT, 40 AMPS	NEWMAR
DSPM1280	PM-12-80	POWER MODULE, 12VDC OUTPUT, 80 AMPS	NEWMAR
DSPM4810	PM-48-10	POWER MODULE, RACKMOUNT, 115V INPUT, 48VDC OUTPUT, 10 AMPS	NEWMAR
DSPM4820	PM-48-20	POWER MODULE, RACKMOUNT, 115V INPUT, 48VDC OUTPUT, 20 AMPS	NEWMAR
DSPMLSU463	PML-SU4-63	LARGE LEG UNIVERSAL SLIDING PIPE MOUNT KIT, 4-1/2 IN OD X 63 IN PIPE	COMMSCOPE TECHNOLOGI
DSPMLSU4B	PML-SU4-B	LARGE LEG UNIVERSAL SLIDING PIPE MOUNT KIT FOR 4-1/2 IN OD PIPE	COMMSCOPE TECHNOLOGI
DSPMSU2B	PM-SU2-B	UNIV. SLIDING PIPE MOUNT KIT, 2-3/8" OD	COMMSCOPE TECHNOLOGI
DSPMXT24	PM-XT-24	STAND-OFF PIPE MOUNT, 24 IN STAND-OFF	COMMSCOPE TECHNOLOGI
DSPPOWERMOD	NPOWER MOD	4KVA/2.8KW POWER MODULE-LIEBERT NFINITY	CELL MANAGEMENT SYST
DSPRD8	PRD8	PANDUIT PATCHRUNNER DUAL-HINGED METAL DOOR 45RU BLACK	ANIXTER INC
DSPREM1114M	1114M	CABLE 5' RJ48M TO DB25M STRAIGHT	PRODUCT SOURCE INTER
DSPREM1119P	1119P	CUSTOM CONNECTOR PANEL, 19IN RACK MOUNT, 1 X RJ21M (5FT), 8 X RJ45 E&M	PRODUCT SOURCE INTER
DSPREM1181	1181	ADAPTER 50 PIN TO 8 RJ48	PRODUCT SOURCE INTER
DSPREM1203F	1203F	CABLE 5FT DB25M TO V.35F STRAIGHT	PRODUCT SOURCE INTER
DSPREM1210	1210	5'50 PIN MALE TO MALE	PRODUCT SOURCE INTER
DSPREM1239	1239	Y ADAPTER 1:1 WAN REDUNDANCY	PRODUCT SOURCE INTER
DSPREM1504	1504	M66 BLOCK WITH 2 FEMALE 50 PIN	PRODUCT SOURCE INTER
DSPREM200103	200103	IMACS BLANK PANEL	PRODUCT SOURCE INTER
DSPREM3010AR	3010AR	ADVANCE REPLACEMENT UPGRADE OF ANY USER CARD	PRODUCT SOURCE INTER
DSPREM60101	60101	SNMP OPTION FOR IMACS	PRODUCT SOURCE INTER
DSPREM63130	63130	MCC FIRMWARE, MGMT COMM CONCENTRATOR FIRMWARE FOR ACS. VERSION 1.3	PRODUCT SOURCE INTER
DSPREM70012	70012	EMS LICENSE UPGRADE PACKAGE FROM 1 TO 2 (200 NODES)	PRODUCT SOURCE INTER
DSPREM801070	801070	WAN CARD, DUAL T1/E1, CE MARKED	PRODUCT SOURCE INTER
DSPREM801470	801470	WAN CARD, DUAL T1/E1 WAN CARD WITH RELAYS	PRODUCT SOURCE INTER
DSPREM810860	810860	8 PORT 2W E M TO CARD	PRODUCT SOURCE INTER
DSPREM811960	811960	8 PORT 4W E M TO EXT RANGE CRD	PRODUCT SOURCE INTER
DSPREM812960	812960	8 PORT 2W FXS MRD DPT 600 OHM	PRODUCT SOURCE INTER
DSPREM813970	813970	FXO CARD, 8-PORT, 2-WIRE, 600 OHM	PRODUCT SOURCE INTER
DSPREM816460	816460	4 PORT 4W DSM CARD	PRODUCT SOURCE INTER

DSPREM820260	820260	2 PORT RS 530 RS449 HSU CARD	PRODUCT SOURCE INTER
DSPREM820360	820360	2 PORT V 11 HSU CARD	PRODUCT SOURCE INTER
DSPREM821260	821260	2 PORT V 35 HSU CARD WITH DB25F	PRODUCT SOURCE INTER
DSPREM821570	821570	4 PORT RS530 V35 HSU CARD IMPROVED CLOCK JITTER	PRODUCT SOURCE INTER
DSPREM822061	822061	10 PORT RS232C SRU	PRODUCT SOURCE INTER
DSPREM8249	8249	DATA CARD 2 PORT OCU DP WITH ERROR	PRODUCT SOURCE INTER
DSPREM840160	840160	EXT ALARM CARD 4 IN 4 OUT	PRODUCT SOURCE INTER
DSPREM864	864	FRED SECURE CHILD CARD	PRODUCT SOURCE INTER
DSPREM880370	880370	CPU CARD, XCON CROSS-CONNECT, UP TO 8 E1 T1	PRODUCT SOURCE INTER
DSPREM880460	880460	CPU 2T1 E1 RCON BUS-CONNECT	PRODUCT SOURCE INTER
DSPREM880770	880770	CPU CARD, XCON CROSS-CON, 7.X, UP TO 8 E1 T1, 7.5.5 FIRMWARE	PRODUCT SOURCE INTER
DSPREM881360	881360	881360 ADVANCED COMM SERVER, MCC, 128 REMOTE MGMT PORTS 1 10 BASE T	PRODUCT SOURCE INTER
DSPREM883270	883270-66112	ENHANCED IP ROUTER & BRIDGING SERVER CRD, 100 BASE-T, 4 PORT, CE MARKED	PRODUCT SOURCE INTER
DSPREM88327566125	883275 W/883270-66125	ENHANCED IP ROUTER & BRIDGING SERVER CARD, 10/100 BASE-T, 4 PORT, CE	PRODUCT SOURCE INTER
DSPREM88327566126	883275 W/883275-66126	ENHANCED IP ROUTER & BRIDGING SERVER CARD, 10/100 BASE-T, 4 PORT, CE	PRODUCT SOURCE INTER
DSPREM8835707122	883570 W/883570-67122	ZHONE PSEUDOWIRE CARD (PWE). GIGE UPLINK, ONE TO EIGHT CESOPSTN E1/T1	PRODUCT SOURCE INTER
DSPREM88507068300	885070-68300	881360 ANALOG BRIDGING SERVER CARD, CE MARKED W/68300 FIRMWARE	PRODUCT SOURCE INTER
DSPREM887170	887170	ADPCM SERVER CARD	PRODUCT SOURCE INTER
DSPREM8901	8901	AC POWER SUPPLY 110/220VAC	PRODUCT SOURCE INTER
DSPREM890220	890220	DC POWER SUPPLY 48 VDC	PRODUCT SOURCE INTER
DSPREM8905	8905	110-220 VAC TO 48 VDC CNVTR	PRODUCT SOURCE INTER
DSPREM890620	890620	RING GENERATOR	PRODUCT SOURCE INTER
DSPREM8907	8907	24V POWER SUPPLY	PRODUCT SOURCE INTER
DSPREM891630	891630	UNIVERSAL ENCLOSURE TENSr 600	PRODUCT SOURCE INTER
DSPREM891830	891830	UNIVERSAL ENCLOSURE TENSr 800	PRODUCT SOURCE INTER
DSPREM892060	892060	8T1 E1 IF CARD 32K WITH MODEM	PRODUCT SOURCE INTER
DSPREM892260	892260	8T1 IF 128K NO MODEM EXT SYNC	PRODUCT SOURCE INTER
DSPREM892360	892360	8T1 E1 IF CARD 128K WITH MODEM	PRODUCT SOURCE INTER
DSPREM893270	893270	REDUNDANT IF CARD, 8 T1/E1 PORTS, NO MODEM, EXTERNAL SYNC (FRAMED T1)	PRODUCT SOURCE INTER
DSPREM893370	893370	8T1 E1 IF CARD 128K WITH MODEM FOR 7.X.Y CPU	PRODUCT SOURCE INTER
DSPRV8	PRV8	PANDUIT PATCHRUNNER VERTICAL CABLE MGR FR AND REAR 8IN FOR 7FT RACK	ANIXTER INC
DSPST012	PST012	PST012, PLENUM STRIP TOOL	TRILOGY COMMUNICATIO
DSPST012RB	PST012-RB	PST012-RB, PLENUM STRIP TOOL REPLACEMENT BLADE	TRILOGY COMMUNICATIO
DSPTS150P	PTS1-50-P	PLENUM,CORRUGATED 1/4IN WHITE FR-PVC JACKET	COMMSCOPE TECHNOLOGI
DSPTS250P	PTS2-50-P	PLENUM,CORRUGATED 3/8IN WHITE FR-PVC JACKET	COMMSCOPE TECHNOLOGI
DSPV2002774803Y	B93-00-2740	SPD, TYPE 2, 480/227VAC, 3-PHASE, NEMA 4 ENCLOSURE, MOV	TRANSTECTOR SYSTEMS
DSPV700HF	PV700HF	INVERTER, 12V DC TO AC, PORTABLE 700 CONTINUOUS WATTAGE 1400 INSTANTAN	TRIPP LITE MANUFACTU
DSPVCM2	PVCM2	HOFFMAN VERTICAL CABLE MGR 2, STEEL BLACK	ANIXTER INC
DSPVCMTD20	PVCMTD20	HOFFMAN VERT CABLE MGR TIE DOWN	ANIXTER INC
DSQT025IDVP	LPV25ID - QT025A LPV, NO HSG	GENERATOR, 25KW LP VAPOR, QT SERIES, 120/240V 1PH, NO HOUSING (INDOOR)	GENERAC POWER SYSTEM
DSQT025SANG	QT02524ANSNA	GENERATOR, 25KW NAT GAS/LPV, QT SERIES, 120/240V 1PH, OD HSG	GENERAC POWER SYSTEM
DSR4P	R4P	PANDUIT 7FT 4 POST RACK 30IN DEEP BLACK	ANIXTER INC
DSR4P36CN96	R4P36CN96	36 INCH DEEP 4 POST RACK WITH CAGE NUTS 8 FOOT	ANIXTER INC

DSR4PCN96	R4PCN96	4 POST RACK WITH CAGE NUT RAILS, 96.1HX23.3WX30D,52RU, BLACK ,ROHS	ANIXTER INC
DSR4PNF	R4PNF	N FEMALE LOW PIM POSITIVE STOP FOR 1/2 IN RCT RADIAX CABLE	COMMSCOPE TECHNOLOGI
DSR4PNM	R4PNM	N MALE LOW PIM POSITIVE STOP FOR 1/2 IN RCT RADIAX CABLE	COMMSCOPE TECHNOLOGI
DSR4PWF	R4PWF	PANDUIT WATERFALL 4 POST RACK BLACK 1.9INH X 26.1INW X 8.5IND	ANIXTER INC
DSR8000C3GPREMIER	R8000C-3G PREMIER	R8000C 3GHZ PREMIER PCKG (W/ R8-3G;R8-REMOTE;R8-TG;R8-ESA;R8-CF;R8-SC)	FREEDOM COMMUNICATIO
DSR8100	R8100	R8100 COMMUNICATIONS SYS ANALYZER (W/R8-TG; R8-ESA; R8-CF; BATT8100)	FREEDOM COMMUNICATIO
DSR8ATAPX	R8-AT_APX	R8000 AUTOTUNE FOR APX	FREEDOM COMMUNICATIO
DSR8ATKWNX	R8-AT_KWNX	R8000 AUTOTUNE FOR KENWOOD NX SERIES MOBILE AND PORTABLE RADIOS	FREEDOM COMMUNICATIO
DSR8ATXG75	R8-AT_XG-75	AUTOTUNE FOR HARRIS XG-75 SERIES MOBILES AND PORTABLES	FREEDOM COMMUNICATIO
DSR8ATXL200	R8-AT_XL200	R8000 AUTOTUNE FOR HARRIS XL200 RADIOS	FREEDOM COMMUNICATIO
DSR8ATXM100	R8-AT_XM100	R8000 AUTOTUNE FOR HARRIS XG-100M MOBILES	FREEDOM COMMUNICATIO
DSR8AUTOTUNEXTL	R8-AT_XTL	R8000 AUTOTUNE FOR XTL MOBILES	FREEDOM COMMUNICATIO
DSR8AUTOTUNEXTS	R8-AT_XTS	R8000 AUTOTUNE FOR XTS PORTABLES	FREEDOM COMMUNICATIO
DSR8DMR	R8-DMR	R8000 MOTOTRBO TEST PACKAGE SW UPGRADE TO FIELDLED UNIT	FREEDOM COMMUNICATIO
DSR8DPMR	R8-DPMR	R8000 DPMR TEST	FREEDOM COMMUNICATIO
DSR8FT7	R8-FT7	R8000 DRIVE-TEST SOFTWARE	FREEDOM COMMUNICATIO
DSR8GC	R8-GC	R8-GC PROTECTIVE GLOVE CASE	FREEDOM COMMUNICATIO
DSR8NXDN	R8-NXDN	NXDN TEST	FREEDOM COMMUNICATIO
DSR8NXDNTYPC	R8-NXDNTYPC	NXDN TYPE C TRUNKING	FREEDOM COMMUNICATIO
DSR8P25PHASE2	R8-P25 II	APCO PROJECT 25 PHASE 2	FREEDOM COMMUNICATIO
DSR8P25TRNK	R8-P25TRNK	R8-P25 APCO 25 TRUNKING TESTING	FREEDOM COMMUNICATIO
DSR8P25VOC	R8-P25_VOC	R8000 P25 VOCODER	FREEDOM COMMUNICATIO
DSR8TETRA	R8-TETRA	R8000 TETRA SUBSCRIBER TEST	FREEDOM COMMUNICATIO
DSR8TRBOAT	R8-TRBO_AT	R8000 AUTOTUNE FOR MOTOTRBO	FREEDOM COMMUNICATIO
DSRACKISOKIT19	RACK-ISO-KIT-19	RACK ISOLATION KIT	TRANSTECTOR SYSTEMS
DSRB121T02C	RB121T02C	BATTERY RACK, 1 TIER, FITS 2, C-SIZED BATTERIES (NON RETURNABLE)	WELDY LAMONT GROUP I
DSRB122T08E	RB122T08E	2 TIER 8 BATTERY RACK CAPABLE OF ACCOMODATING 8 E BATTERIES	WELDY LAMONT GROUP I
DSRCT4WBC1XRNA	RCT4-WBC-1X-RNA	1/2IN RADIAX RADIATING CBL, 50-2800 MHZ, FOIL,FIRE RETARD, MIN 1000FT	COMMSCOPE TECHNOLOGI
DSRDA661	RDA6-61	YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 450-480MHZ, N FEMALE	RFI AMERICAS INC
DSRDA699	RDA6-99 380-400 MHZ	RUGGEDISED UHF DIRECTIONAL YAGI ANT, 380-400 MHZ, 9.0 DBD	RFI AMERICAS INC
DSRDH4499A	RDH4499A	2-FT. (0.6M), 4.4-5.0 GHZ, H-POL&V	CAMBIUM NETWORKS LIM
DSRDH4500A	RDH4500A	3-FT. (0.9M), 4.4-5.0 GHZ, DUAL-POL	CAMBIUM NETWORKS LIM
DSRDH4501A	RDH4501A	4-FT. (1.2M), 4.4-5.0 GHZ, DUAL-POL	CAMBIUM NETWORKS LIM
DSRDH4502A	RDH4502A	6-FT. (1.8M), 4.4-5.0 GHZ, DUAL-POL	CAMBIUM NETWORKS LIM
DSRDH4503B	RDH4503B	2FT,5.25-5.85GHZ W/FINE ADJ,DUAL POLE	CAMBIUM NETWORKS LIM
DSRDH4504B	RDH4504B	5.25-5.85 GHZ, 3-FT (0.9M), DUAL-POL, H-POL & V-POL	CAMBIUM NETWORKS LIM
DSRDH4505B	RDH4505B	4-FT. (1.2M), 5.25-5.85 GHZ	CAMBIUM NETWORKS LIM
DSRDH4508B	RDH4508B	2-FT.(0.6M), HIGH PERFORMANCE DUAL	CAMBIUM NETWORKS LIM
DSRDH4509B	RDH4509B	5.25-5.85 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	CAMBIUM NETWORKS LIM
DSRDH4510B	RDH4510B	4-FT.(1.2M), HIGH PERFORMANCE DUAL-POL, 5.25 - 5.85 GHZ	CAMBIUM NETWORKS LIM
DSRDH4515A	RDH4515A	HPD6-4.7 6-FT.(1.8M), HP, 4.5-5.0GH	CAMBIUM NETWORKS LIM
DSRDH4516A	RDH4516A	HPD4-4.7 4-FT.(1.2M), HP, 4.5-5.0GH	CAMBIUM NETWORKS LIM
DSRDH4517A	RDH4517A	HPD3-4.7 3-FT.(0.9M), HP, 4.5-5.0GH	CAMBIUM NETWORKS LIM

DSRDH4518A	RDH4518A	HPD2-4.7 2-FT.(0.6M), HP, 4.5 -5.0G	CAMBIUM NETWORKS LIM
DSRDH4519A	RDH4519A	4.5-5.0 GHZ, 20.8 DBI, 1-FT (0.3M) HI PERF DUAL-POL, LOW PROFILE	CAMBIUM NETWORKS LIM
DSRDH4524A	RDH4524A	5.25-5.85 GHZ, 4-FT (1.2M), HIGH PERFORMANCE SINGLE-POL	CAMBIUM NETWORKS LIM
DSRDN5785A	RDN5785A	3 M (9.8 FT) SUPERFLEX RF LOW LOSS JUMPER CABLE	CAMBIUM NETWORKS LIM
DSRGBVKIT145872A	RGBVKIT145872A	1/4X5/8X72 RACK GRD BAR KIT VERTICAL	HARGER INC
DSRGT	POLYPHASER RGT	DC TO 2.4GHZ FIELD REPLACEABLE GAS TUBE SURGE PROTECTOR FEMALE CONNECT	TRANSTECTOR SYSTEMS
DSRGTDFM	POLYPHASER RGT-DFM	OUTDOOR, BIDIRECTIONAL ARRESTOR - POLYPHASER RGT DFM	TRANSTECTOR SYSTEMS
DSRK1000	RK1000	BELKIN RK1000 42U PREMIUM RACK ENCLOSURE	CDW DIRECT LLC
DSRKBS20ST2F10R	RKBS20ST2F10R	SPD, RACKBAR,120V 20A 1800 J OUTLET TYPE: 12 NEMA 5-20R (2 FRONT, 10 R	GRAYBAR ELECTRIC CO
DSRM20A	RM-20A	POWER SUPPLY, 19 IN RACK MOUNT 20 AMP	ASTRON CORP
DSRM35ABB	RM-35A-BB	POWER SUPPLY, 35A WITH BATTERY BACKUP	ASTRON CORP
DSRM35M	RM-35M	LINEAR POWER SUPPLY, RACK MOUNT, 35A, SEPARATE VOLT AND AMP METERS	ASTRON CORP
DSRM35MBB	RM-35M-BB	LINEAR POWER SUPPLY, RACKMNT, 35A, VOLT & AMP METERS, W/BATT REVERT	ASTRON CORP
DSRM50M	RM-50M	POWER SUPPLY 19 IN RM W/ SEPARATE VOLT AND AMP METERS	ASTRON CORP
DSRMA100	RM-A100	RM-A100, ROUND MEMBER ADAPTOR 1"-2" OD, PKG OF 10	TRILOGY COMMUNICATIO
DSRMA200	RM-A200	RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	TRILOGY COMMUNICATIO
DSRMC06EXP	DSRMC06-EXP	RMC EXPANSION KIT, 8-CHANNEL	DBSPECTRA
DSRMP420B	1101-942	SPD, TYPE 3, 120V RACK MOUNT, 20A STD PLUG-IN INPUT W/ 4 OUTLETS PER	TRANSTECTOR SYSTEMS
DSRMP615A	1101-534	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS	TRANSTECTOR SYSTEMS
DSRS0615F	RS-0615-F	POWER STRIP, 6 FRONT OUTLETS 19 IN, 15-AMP RACKMOUNT, LOCKING SWITCH	TRIPP LITE MANUFACTU
DSRS1215RA	RS1215-RA	SPD, 12 OUTLETS 15 FT CORD MULTIPLE OUTLET STRIP 15-AMP RIGHT-ANGLED	TRIPP LITE MANUFACTU
DSRS12A	RS-12A	POWER SUPPLY	ASTRON CORP
DSRS20A	RS-20A	POWER SUPPLY	ASTRON CORP
DSRS20ABB	RS-20A-BB	LINEAR POWER SUPPLY, 13.8VDC OUTPUT, BATTERY BACKUP	ASTRON CORP
DSRS20ABB220E	RS-20A-BB-220E	LINEAR POWER SUPPLY, 13.8VDC OUTPUT, BATTERY BACKUP 220V	ASTRON CORP
DSRS50M	RS-50M	POWER SUPPLY, W/ VOLT AND AMPMETER 50 AMP	ASTRON CORP
DSRS600	RS600	CENTER MOUNT SHELF FOR 19 IN WIDE TELECOM/RELAY RACK RS600	CELL MANAGEMENT SYST
DSRSM0000	RSM0000	RECEIVE SYSTEMS MONITOR, 9-36VDC	RFI AMERICAS INC
DSRSM000048	RSM0000-48	RECEIVE SYSTEMS MONITOR, 36-60VDC	RFI AMERICAS INC
DSRSS100	RSS100	RSS100 AUTO TRANSFER SWITCH, 100A, 120/240V 1PH, OUTDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSRSS200	RSS200	RSS200 AUTO TRANSFER SWITCH, 200A, 120/240V 1PH, OUTDOOR ENCLOSURE	CUMMINS NPOWER LLC
DSRUP001	RUP-001	UPLOADER SOFTWARE LICENSE FOR APM, SINGLE PC, 2 YEARS	RFI AMERICAS INC
DSRX0696300831B	RX0696-3008-31B	MULTICOUPLER EXPANSION, 8 PORT, 66-960 MHZ BNC (F)	RFI AMERICAS INC
DSRX0696301631B	RX0696-3016-31B	MULTICOUPLER EXPANSION, 16 PORT, 66-960 MHZ BNC (F)	RFI AMERICAS INC
DSRX699630013648N	RX6996-3001-36-48N	RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI AMERICAS INC
DSRX6996300136ACN	RX6996-3001-36-ACN	RMC03, 2 PORT CMU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI AMERICAS INC
DSRX699634083448B	RX6996-3408-34-48B	RMC01, 8 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI AMERICAS INC
DSRX6996340834ACB	RX6996-3408-34-ACB	RMC01, 8 PORT MCU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI AMERICAS INC
DSRX699634083848B	RX6996-3408-38-48B	RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI AMERICAS INC
DSRX6996340838ACB	RX6996-3408-38-ACB	RMC05, 8 PORT MULT WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI AMERICAS INC
DSRX699634163448B	RX6996-3416-34-48B	RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, -48 VDC	RFI AMERICAS INC
DSRX6996341634ACB	RX6996-3416-34-ACB	RMC01, 16 PORT MCU WITH TTA CONTROL, 698-960 MHZ, 110-240 VAC	RFI AMERICAS INC
DSS2CPUSEHNI6	S-2-CPUSE-H-NI6	2-WAY REACTIVE POWER SPLITTER, 698-2700 MHZ	COMMSCOPE TECHNOLOGI

DSS2CPUSELNI	S-2-CPUSE-L-NI	2-WAY LOW POWER SPLITTER 698-2700 N	COMMSCOPE TECHNOLOGI
DSS2TCPUSEHNI6	S-2-TCPUSE-H-NI6	TWO-WAY REACTIVE POWER SPLITTER, 698-2700 MHZ	COMMSCOPE TECHNOLOGI
DSS300	S-300	BRACKET, 36" STAND-OFF (KIT/1)	COMMSCOPE TECHNOLOGI
DSS3CPUSEHNI6	S-3-CPUSE-H-NI6	3-WAY REACTIVE POWER SPLITTER, 698-2700 MHZ	COMMSCOPE TECHNOLOGI
DSS3CPUSELNI	S-3-CPUSE-L-NI	3-WAY SPLITTER. 50 WATTS MAX WITH N-FEMALES, 698-2700 MHZ	COMMSCOPE TECHNOLOGI
DSS412E	S412E	ANRITSU S412E BASE UNIT WITH NO OPTIONS	ANRITSU COMPANY
DSS412E0015	S412E-0015	ANRITSU S412E OPTION 15 - VECTOR VOLTMETER	ANRITSU COMPANY
DSS412E0025	S412E-0025	ANRITSU S412E OPTION 25 - INTERFERENCE ANALYSIS	ANRITSU COMPANY
DSS412E0031	S412E-0031	ANRITSU S412D OPTION 31 - GPS RECIEVER	ANRITSU COMPANY
DSS412E0431	S412E-0431	ANRITSU S412E OPTION 431 - COVERAGE MAPPING	ANRITSU COMPANY
DSS412E0509	S412E-0509	NEW PURCHASE - OPTION 509 AM/FM/PM ANALYZER WITH CONVERGE MAPPING	ANRITSU COMPANY
DSS412E0521	S412E-0521	ANRITSU S412E OPTION 521 - P25 AND P25 PHASE 2 ANALYZER	ANRITSU COMPANY
DSS412E0522	S412E-0522	OPTION 522 P25 AND P25 PHASE 2 COVERAGE (REQUIRES OPTIONS 31 AND 521)	ANRITSU COMPANY
DSS412E6GHZ	S412E-0006/S412E-0016	ANRITSU ADD 6 GHZ BW TO SPECTRUM AND NETWORK ANALYZER	ANRITSU COMPANY
DSS412EBASE	S412EBASE	ANRITSU S412E BASE UNIT WITH REQ'D. OPTIONS	ANRITSU COMPANY
DSS412EDMR	S412E-0591/S412E-0592	ANRITSU DMR2 ANALYZER AND DMR2 TALK OUT COVERAGE	ANRITSU COMPANY
DSS412EHPS	S412E-0019/PSN50	ANRITSU HIGH ACCURACY POWER METER AND PSN50 SENSOR	ANRITSU COMPANY
DSS412EIPS	S412E-0019/MA24105A	ANRITSU HIGH ACCURACY POWER METER W/ INLINE SENSOR	ANRITSU COMPANY
DSS412ELTE	S412E-0541,0542, 0546	ANRITSU LTE RF, MODULATION AND OTA MEASUREMENTS	ANRITSU COMPANY
DSS412ENXDN	S412E-0531/S412E-0532	ANRITSU NXDN ANALYZER AND NXDN COVERAGE OPTION	ANRITSU COMPANY
DSS412EP25	S412E-0521/S412E-0522	ANRITSU P25 ANALYZER AND P25 COVERAGE OPTION	ANRITSU COMPANY
DSS412ES312	S412E-ES312	ANRITSU 3 YEAR EXT SERV - SEND TO ANRITSU STD CALIBRATION	ANRITSU COMPANY
DSS412ES510	S412E-ES510	ANRITSU 5 YEAR EXT. SERVICE - SEND TO ANRITSU REPAIR ONLY	ANRITSU COMPANY
DSS412ES512	S412E-ES512	ANRITSU 5 YEAR EXT SERV - SEND TO ANRITSU STD CALIBRATION	ANRITSU COMPANY
DSS412ES513	S412E-ES513	ANRITSU 5 YEAR EXT SERV - SEND TO ANRITSU REPAIR & STD CAL	ANRITSU COMPANY
DSS412ETETRA	S412E-0581/S412E-0582	ANRITSU TETRA ANALYZER AND TETRA COVERAGE OPTION	ANRITSU COMPANY
DSS412ETPS	S412E-0019/MA24106A	ANRITSU HIGH ACCURACY POWER METER W/ USB SENSOR	ANRITSU COMPANY
DSS432DH6LFD2I40G6	SC432D-HF6LDF(D02-I40-G06)	DUAL PORT OMNI WITH 2 DEGREE DOWNTILT, 6 DBD GAIN	SINCLAIR TECHNOLOGIE
DSS4L2RU12D19W	S4L2RU12D19W	REAR COVER FOR 100A BATTERY DISCONNECT W/ MTG HDWE	LAMARCHE MFG CO
DSS4L3RU12D19W	S4L3RU12D19W	SIDE REAR COVER, 19 IN W X 3RU HIGH	LAMARCHE MFG CO
DSS4L3RU12D23W	S4L3RU12D23W	23IN. WIDE, 4RU HIGH, 12IN DEEP REAR COVER FOR BUSS BAR	LAMARCHE MFG CO
DSS4L4RU8D19W	S4L4RU8D19W	4RU REAR COVER	LAMARCHE MFG CO
DSS66M150	M1-50	SIEMON M66 PUNCH BLOCK	ANIXTER INC
DSS66M25T68L	M2-5T-68L	PUNCHBLOCK 25PR BLK W/6-8WIRE JACKS	ANIXTER INC
DSS66M25T68L125R	SIEMON S66M2-5T-68L-125R	SIX 4-PAIR MODULAR JACKS, ONE 25-PAIR FEMALE CONNECTOR, T568B	GRAYBAR ELECTRIC CO
DSS66M25WB	M2-5WB	SIEMONS PUNCH BLOCK	ANIXTER INC
DSS89B	S89B	ATC 1 INCH STANDOFF BRACKET FOR M1-25 OR M1-50 BLOCKS	ANIXTER INC
DSSAB10	SA-B10	SA-B10, STIFF ARM BRACKET, 2 3/8 INCH X 126 INCH PIPE	COMMSCOPE TECHNOLOGI
DSSABL	SA-BL	STIFF ARM BRACKET FOR 2-3/8 IN OD PIPE	COMMSCOPE TECHNOLOGI
DSSAM0000	SAM0000	SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 9-36VDC	RFI AMERICAS INC
DSSAM000048	SAM0000-48	SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 36-60VDC	RFI AMERICAS INC
DSSAM0000TS	SAM0000-TS	SITE ALARM MODULE, TEMPERATURE SENSOR, -67 TO +257 DEGREES F	RFI AMERICAS INC
DSSASS200	SA-SS200	SA-SS200, UNIV SST STAND-OFF ADAPTOR FOR 2-3" OD MEMBERS, PKG OF 10	TRILOGY COMMUNICATIO

DSSB254102	SB254102	ISOLATION KIT SELF SUPPORTED 23" RACK WIDTH	ANIXTER INC
DSSB5563090UTG	SB5563090UTG	TWO-POST RACK STEEL 19IN W 90IN H EIA TELCO GREY	ANIXTER INC
DSSB5563096UTG	SB5563096UTG	TWO-POST RACK STEEL 19IN W 96IN H EIA TELCO GREY	ANIXTER INC
DSSB85219084FB	SB85219084FB	COOPER B-LINE NETWORK EQUIPMENT 19 INCH - SEISMIC RELAY 4-RACK	ANIXTER INC
DSSB85219084YZ	SB85219084YZ	BLINE RACK	ANIXTER INC
DSSB86283D084FB	SB86283D084FB	B-LINE LOW DENSITY VERT CBL MANAGER, NCNR	ANIXTER INC
DSSB862BRC3084FB	B862BRC3084FB	BACK REMOVABLE COVER FOR VERTICAL CABLE MANAGERS,NCNR	ANIXTER INC
DSSBHB119K	SBHB119K/GB PART #: 25404084	HORIZONTAL RACK GROUND BAR KIT	GRAYBAR ELECTRIC CO
DSSBTGBK	SBTGBK/GB PART #: 25404083	GROUND BAR & HARDWARE KIT	GRAYBAR ELECTRIC CO
DSSBTMGB12K	SBTMGB12K/GB PART #: 25397229	BUSS BAR KIT	GRAYBAR ELECTRIC CO
DSSBTMGB20K	SBTMGB20K/GB PART #: 25423067	TLCM MAIN GROUND BAR&KIT 1/4X4X20	GRAYBAR ELECTRIC CO
DSSBVB72K	SBVB72K	B-LINE SYS SBVB72K 72" VERTICAL GROUND BAR & HARDWARE KIT	GRAYBAR ELECTRIC CO
DSSC225MHF1SNM	SC225M-HF1SNM	COLLINEAR OMNI, COLLINEAR OMNI, 0 DBD, HD, N-MALE, 130-139 MHZ	SINCLAIR TECHNOLOGIE
DSSC225MHF3SNF	SC225MHF3SNF	COLINEAR OMNIDIRECTIONAL, 0 DBD GAIN,HEAVY DUTY,147-157 MHZ	SINCLAIR TECHNOLOGIE
DSSC225MHF6SNF	SC225M-HF6SNF	ANTENNA, COLLINEAR OMNI, 0 DBD, HD, N-FEMALE CONNECTOR, 150-160 MHZ	SINCLAIR TECHNOLOGIE
DSSC225MSF3SNM	SC225MSF3SNM	COLINEAR OMNIDIRECTIONAL, 0 DBD GAIN,147-157 MHZ	SINCLAIR TECHNOLOGIE
DSSC225MSF4SNM	SC225M-SF4SNM	COLLINEAR OMNI, 0 DBD, 156-166 MHZ	SINCLAIR TECHNOLOGIE
DSSC225MSF5SNM	SC225M-SF5SNM	COLLINEAR OMNI, 0 DBD, 164-174 MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXD2F1565	SC226-SFXLDF(D02-F1565)	COLLINEAR OMNI ANTENNA 6 DBD GAIN 156.5 2 DEG DOWNTILT	SINCLAIR TECHNOLOGIE
DSSC226SFXD2F1590	SC226-SFXLDF(D02-F1590)	COLLINEAR OMNI ANTENNA 6 DBD, 159MHZ 2 DT, PIM	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1382	SC226-SFXLDF(F1382)	COLLINEAR OMNI 6DBD, 6MHZ BW LOW PIM STRAIGHT RADOME DIN-FE 138-225MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1400	SC226-SFXLDF(F1400)	COLLINEAR OMNI 6DBD, 6MHZ BW LOW PIM STRAIGHT RADOME DIN-FE 138-225MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1433	SC226-SFXLDF(F1433)	COLLINEAR OMNI 6DBD, 6MHZ BW LOW PIM STRAIGHT RADOME DIN-FE 138-225MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1545	SC226-SFXLDF(1545)	COLLINEAR OMNI 6DBD, 6MHZ BW LOW PIM STRAIGHT RADOME DIN-FE 138-225MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1557	SC226-SFXLDF(F1557)	COLLINEAR OMNI 6DBD, 6MHZ BW LO PIM STR RADME DIN-F 138-225MHZ 155.715	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1570	SC226-SFXLDF(D00-F1570)	COLLINEAR OMNI 6DBD, 6MHZ BW LO PIM STR RADME DIN-F 138-225MHZ 1570MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1700	SC226-SFXLDF(F1700)	COLLINEAR OMNI 6DBD, 6MHZ BW LO PIM STR RADME DIN-F 138-225MHZ 170MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXLDF1655	SC226-SFXLDF(F1655)	COLINR OMNI 6DBD 6MHZ BW LOW PIM STRAIGHT RADOME DIN FEMALE 138-225MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXSNM61560	SC226-SFXSNM(D06-F1560)	COLLINEAR OMNI, 6 DBD, 6 MHZ BW, STRAIGHT RADOME, 138-225 MHZ 6DT	SINCLAIR TECHNOLOGIE
DSSC226SFXSNMF1560	SC226-SFXSNM(D00-F1560)	COLLINEAR OMNI, 6 DBD, 6 MHZ BW, STRAIGHT RADOME, 138-225 MHZ	SINCLAIR TECHNOLOGIE
DSSC226SFXSNMF1700	SC226-SFXSNM(D00-FXXXX)	COLLINEAR OMNI, 6 DBD, 6 MHZ BW, STRAIGHT RADOME,167-173 MHZ N MALE	SINCLAIR TECHNOLOGIE
DSSC229SFXLDF	SSC229SFXLDF	COLLINEAR OMNI, 6 DBD, LOW PIM, 138-225 MHZ, NEEDS CENTER FREQ	SINCLAIR TECHNOLOGIE
DSSC229SFXLDF6157	SC229SFXLDF	COLLINEAR OMNI ANTENNA, 6 DBD GAIN, LOW PIM, 6 DEG DT	SINCLAIR TECHNOLOGIE
DSSC229SFXLDF1570	SC229SFXLDF1570	LOW PIM COLLINEAR ANTENNA, 6 DBD GAIN, 173 MHZ, 6 MHZ B.W	SINCLAIR TECHNOLOGIE
DSSC229SFXLDF1730	SC229SFXLDF1730	LOW PIM COLLINEAR ANTENNA, 6 DBD GAIN, 173 MHZ	SINCLAIR TECHNOLOGIE
DSSC233MHFXSUMD00	SC233MHFXSUMD00	COLLINEAR OMNI MARINE, 3 DBD, 156-162.55 MHZ	SINCLAIR TECHNOLOGIE
DSSC233SFXSNFF1550	SC233SFXSNFF1550	COLLINEAR OMNI, 3 DBD, 2 MHZ BW, 138-174 MHZ FREQ. 155.0	SINCLAIR TECHNOLOGIE
DSSC251DHF2LDFG3	SC251DHF2LDFG3	COLLINEAR DUAL ANTENNA, 2.3 DBD GAIN, PIM/PIP RATED, HD, 138-158 MHZ	SINCLAIR TECHNOLOGIE
DSSC251DHF3LDFG3	SC251DHF3LDFG3	COLLINEAR DUAL ANTENNA, 2.3 DBD GAIN, PIM/PIP RATED, HD, 148-168 MHZ	SINCLAIR TECHNOLOGIE
DSSC251DHF4LDFG3	SC251DHF4LDFG3	COLLINEAR DUAL ANTENNA, 2.3 DBD GAIN, PIM/PIP RATED, HD, 156-174 MHZ	SINCLAIR TECHNOLOGIE
DSSC251HF3LDFD0G3	SC251HF3LDFD0G3	COLLINEAR OMNI, 2.3 DBD GAIN, PIM/PIP RATED, HD, 148-168 MHZ	SINCLAIR TECHNOLOGIE
DSSC251HF3LDFD0G4	SC251HF3LDFD0G4	COLLINEAR OMNI, 3.5 DBD GAIN, PIM/PIP RATED, HD, 148-168 MHZ	SINCLAIR TECHNOLOGIE
DSSC281HF2LDF	SC281HF2LDF	COLLINEAR OMNI ANTENNA, 5 DBD GAIN, LOW PIM, 138-158 MHZ	SINCLAIR TECHNOLOGIE

DSSC281HF3LDF	SC281HF3LDF	COLLINEAR OMNI ANTENNA, 5 DBD, LOW PIM, HD,148-168MHZ	SINCLAIR TECHNOLOGIE
DSSC281HF3LDFD02	SC281HF3LDFD02	COLLINEAR OMNI ANTENNA, 5 DBD, LOW PIM, HD,148-168MHZ 2 DEGREE DOWNTIL	SINCLAIR TECHNOLOGIE
DSSC281HF4LDF	SC281HF4LDF	LOW PIM COLLINEAR OMNI ANTENNA, 5 DBD GAIN, WIDE BAND, 156-174	SINCLAIR TECHNOLOGIE
DSSC323HF1LDFD6G3	SC323HF1LDFD6G3	COLLINEAR OMNI, 3 DBD, HD, 6 DEGREE DOWN TILT, LOW PIM, 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF1LDFG03	SC323HF1LDFG03	ANTENNA, LOW PIM, COLLINEAR OMNI, 3 DBD GAIN, 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF1SNMD00G3	SC323HF1SNMD00G3	COLLINEAR OMNI, 3 DBD, HD, N-MALE CONNECTOR, 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF1SNMD0G3	SC323HF1SNMD0G3	COLLINEAR OMNI, 3 DBD, HD, N-MALE CONNECTOR, 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF2LDFD00G3	SC323HF2LDFD00G3	COLLINEAR OMNI, 3 DBD, HD, LOW PIM, 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF2LDFD3G3	SC323HF2LDFD3G3	COLLINEAR ANT, 450-470MHZ, HEAVY DUTY, 3DBD GAIN, LOW PIM, 3 DEG DT	SINCLAIR TECHNOLOGIE
DSSC323HF2SNMG3	SC323HF2SNMG3	COLLINEAR OMNI, 3 DBD, HD, N-MALE CONNECTOR, 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HF7LDFG0	SC323HF7LDFG0	LOW PIM COLLINEAR OMNI, UNITY GAIN, HD, NO GROUND RADIALS,380-400	SINCLAIR TECHNOLOGIE
DSSC323HF9LDFD00G3	SC323HF9LDFD00G3	COLLINEAR OMNI 3 DBD, LOW PIM, 470-490 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT1LDFD3G3	SC323HT1LDFD3G3	COLLINEAR OMNI, 3 DBD, HD, LOW PIM, 3 DT, 380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT1LDFG3	SC323HT1LDFG3	COLLINEAR OMNI 3 DBD GAIN GRD RODS FREE 7/16DIN FE LOW PIM 380-400MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT1SNMD0G3	SC323HT1SNMD0G3	COLLINEAR OMNI, 3 DBD, HD, N-MALE CONNECTOR, 380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT1SNMG0	SC323HT1SNMG0	COLLINEAR OMNI ANTENNA, 0 DBD GAIN LOW PIM, 380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT1SNMG3	SC323HT1SNMG3	COLLINEAR OMNI 3 DBD GAIN N MALE CONNECTOR 380-430MHZ	SINCLAIR TECHNOLOGIE
DSSC323HT2SNMD0G3	SC323-HT2SNM(D00-G03)	COLLINEAR OMNI, 3 DBD, HD, N-MALE CONNECTOR, 410-430 MHZ	SINCLAIR TECHNOLOGIE
DSSC329HF1LDFD06G6	SC329HF1LDFD06G6	LOW PIM COLLINEAR OMNI 6 DBD GAIN, HD, 406-420 MHZ 6 DEG DT	SINCLAIR TECHNOLOGIE
DSSC329HF1LDFG6	SC329HF1LDFG6	LOW PIM COLLINEAR OMNI 6 DBD GAIN, HD, 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC329HF2LDFD00G6	SC329HF2LDFD00G6	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, HD, NO GROUND RADIALS 450-470MHZ	SINCLAIR TECHNOLOGIE
DSSC329HF2LDFD06G6	SC329-HF2LDF(D06-G06)	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, 450-470MHZ, DT6	SINCLAIR TECHNOLOGIE
DSSC329HF2LDFD3G6	SC329-HF2LDF(D03-G06)	COLLINEAR OMNI, 6 DBD, PIM CERTIFIED, 3DT, HD, 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC329HF2LDFG6	SC329-HF2LDF(G6)	COLLINEAR OMNI, LOW PIM, 6 DBD GAIN, 450-470MHZ	SINCLAIR TECHNOLOGIE
DSSC329HT1LDFD03G6	SC329-HT1LDF(D03-G6)	LOW PIM COLLINEAR OMNI, 6DBD, 3 DEG DT, HD, NO GRD RADIALS, 380-400MHZ	SINCLAIR TECHNOLOGIE
DSSC329HT1LDFD06G6	SC329-HT1LDF(D06-G06)	LOW PIM COLLINEAR OMNI, 6DBD, 6 DEG DT, HD, NO GRD RADIALS, 380-400MHZ	SINCLAIR TECHNOLOGIE
DSSC329HT1LDFG6	SC329-HT1LDF(D00-G06)	LOW PIM COLLINEAR OMNI , 6 DBD GAIN, 380-400 MHZ, HD	SINCLAIR TECHNOLOGIE
DSSC329HT1SNM	SC329-HT1SNM(G6)	COLLINEAR OMNI ANTENNA, 6 DBD GAIN, HD, NO GROUND RADIALS,380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSC329HT1SNMD06	SC329-HT1SNM(D06)	COLLINEAR OMNI 6 DB GAIN, HD, 380-400MHZ, 6DT	SINCLAIR TECHNOLOGIE
DSSC329HT2SNFG06	SC329HT2SNFG06	COLLINEAR OMNI 6DBD, HEAVY DUTY, NO GROUND RADIALS 410-430 MHZ, NF	SINCLAIR TECHNOLOGIE
DSSC329HT2SNMG06	SC329HT2SNMG06	COLLINEAR OMNI 6 DBD GAIN, HEAVY DUTY, NO GROUND RADIALS 410-430 MHZ	SINCLAIR TECHNOLOGIE
DSSC331SF1LDF	SC331-SF1LDF	COLLINEAR OMNI, 10DBD, STRAIGHT RADOME, LOW PIM, 406-420	SINCLAIR TECHNOLOGIE
DSSC331SF3LDFD00	SC331-SF3LDF(D00)	COLLINEAR OMNI 10 DBD, LOW PIM 460-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC331SF3SNM	SC331-SF3SNM	COLLINEAR OMNI, 10 DBD, N-MALE CONNECTOR, STRAIGHT RADOME, 460-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC351HF3LDFD0G4	SC351-HF3LDF(D00-G4)	COLLINEAR OMNI ANTENNA, 4 DBD GAIN, PIM/PIP RATED, HD, 450-512 MHZ	SINCLAIR TECHNOLOGIE
DSSC381HF1LDF	SC381-HF1LDF(D00)	COLLINEAR OMNI, 6 DBD LOW, PIM HD, 380-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC381HF2LDF	SC381-HF2LDF(D00)	LOW PIM UHF BROAD BAND COLLINEAR OMNI, 6 DBD, HD, 403-470 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSC381HF2LDFPIP	SC381-HF2LDF(D00-PIP)	COLLINEAR OMNI, 6 DBD, LOW PIM, PIP RATED, HD, 403-470 MHZ	SINCLAIR TECHNOLOGIE
DSSC381HF3LDF	SC381-HF3LDF(D00)	LOW PIM UHF BROAD BAND COLLINEAR OMNI, 6 DBD, HD, 450-512 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSC381HF3LDFD2	SC381HF3-LDF-D02	COLLINEAR OMNI, 6 DBD LOW, PIM HD, 380-420 MHZ	SINCLAIR TECHNOLOGIE
DSSC389HF3LDFD2	SC389-HF3LDF(D02)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP RATED, HD, 450-512 MHZ DT 2DT	SINCLAIR TECHNOLOGIE
DSSC389HF3LDFD3	SC389-HF3LDF(D03)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP RATED, HD, 450-512 MHZ DT 3DT	SINCLAIR TECHNOLOGIE
DSSC389HF3LDFD4	SC389-HF3LDF(D04)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP RATED, HD, 450-512 MHZ DT 4DT	SINCLAIR TECHNOLOGIE

DSSC389HF3LDFD6	SC389-HF3LDF(D06)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP RATED, HD, 450-512 MHZ DT 6DT	SINCLAIR TECHNOLOGIE
DSSC412HF2D4E5765	SC412HF2D4E5765	11.5DB GAIN, 746-869 MHZ 25% NULL FILL, 25 KW PIP RATING W/4DEG DT	SINCLAIR TECHNOLOGIE
DSSC412HF2LDF	SC412-HF2LDF	COLLINEAR OMNI ANTENNA, 11.5 DBD GAIN, 746-869 MHZ, PIM	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD01	SC412-HF2LDF(D01)	COLLINEAR OMNI, 11.5DBD, HD, LOW PIM, 746-869 MHZ, 1 DEGREE DT	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD1NUP	SC412-HF2LDF(D01-E5765)	COLLINEAR OMNI, 11.5 DBD, LOW PIM, NULL FILL, PIP RATED, HD, 746-869	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD2NU	SC412-HF2LDF(D02-E5608)	COLLINEAR OMNI 11.5DBD GAIN 746-869MHZ 2DT NULL FILL DIN FEMALE CONN	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD2NUP	SC412-HF2LDF(D02-E5765)	11.5 DBD GAIN COLLINEAR NULL FILL 746-869MHZ 25 KW PIP RATED 2 DEG DT	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD4NU	SC412-HF2LDF(D04-E5608)	COLLINEAR OMNI, 11.5DBD 4 DEGREE DT, HD, 746-869MHZ NULL FILL, LOW PIM	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFD4NUP	SC412-HF2LDF(D04-E5765)	COLLINEAR OMNI 11.5 DBD HD NULL PIP RATED LOW PIM 746-869MHZ 4 DEG DT	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFE5608	SC412-HF2LDFE5608	COLLINEAR OMNI ANTENNA, 11.5 DBD GAIN, 746-869 MHZ, 20% NULL FILL	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFE5749	SC412-HF2LDF (E5749)	COLLINEAR OMNI ANTENN, 11.5 DBD GAIN, HD, 746-869 MHZ, PIP RATED	SINCLAIR TECHNOLOGIE
DSSC412HF2LDFE5765	SC412-HF2LDF(D00-E5765)	COLLINEAR OMNI, 11.5DBD HD NULL FILL, PIP RATED LOW PIM 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC412HF3LD0FPIP	SC412-HF3LDF(D00-E5749)	COLLINEAR OMNI, 11.5 DBD, LOW PIM, PIP RATED, HD 0-10DT, 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC412HF3LDD25765	SC412-HF3LDF(D02-E5765)	COLLINEAR OMNI, 11.5 DB, LOW PIM, HD, PIP, NULL FILL, 806-960 MHZ, 2DT	SINCLAIR TECHNOLOGIE
DSSC412HF3LDFD2PIP	SC412-HF3LDF(D02-E5749)	ANTENNA, COLLINEAR OMNI, 11.5 DBD, LOW PIM, PIP, 2DT, HD, 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC420HF1LDF	SC420HF1LDF	LOW PIM COLLINEAR OMNI ANT, 7.5 DBD GAIN, HD, 806-869MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSC420HF1LNF	SC420HF1LNF	COLLINEAR OMNI ANTENNA, 7.5 DBD GAIN, LOW NOISE, HD, 806-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC420HF2LDFD06	SC420HF2LDFD06	LOW PIM COLLINEAR OMNI, 7.5 DBD, HD, 824-896 MHZ, 6 DEG DT	SINCLAIR TECHNOLOGIE
DSSC432DF6I40G6PIP	SC432D-HF6LDF(I40-G06-E5749)	COLLINEAR OMNI, 6 DBD (TYP), PIP, 40 DB, HD, LOW PIM, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC432DHF6D2I40G6	SC432D-HF6LDF(D02-I40-G06)	COLLINEAR OMNI, 6 DBD, DUAL PORTS, 2? DT, LOW PIM, 40 DB	SINCLAIR TECHNOLOGIE
DSSC432DHF6D6G6	SC432D-HF6LDF(D06-I40-G06)	COLLINEAR OMNI, 6 DBD, DUAL PORTS, 40 DB ISO, HD, 6DT, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC432DHF6D6IG6	SC432D-HF6LDF(D06I-I40-G06)	COLLINEAR OMNI, 6 DBD, DUAL PORT, 40DB ISO, HD, 6DT, 746-869MHZ INVRTD	SINCLAIR TECHNOLOGIE
DSSC432DHF6LDF40G6	SC432D-HF6LDF(I40-G6)	DUAL COLLINEAR OMNI, 6 DBD (TYP), LOW PIM, 746-869 MHZ, 40DB ISOLATION	SINCLAIR TECHNOLOGIE
DSSC432DHF6LDF45G3	SC432D-HF6LDF(I45-G03)	DUAL COLLINEAR OMNI 3DBD GAIN (TYP) LOW PIM, 746-869MHZ 45DB ISOLATION	SINCLAIR TECHNOLOGIE
DSSC432TSF6D3I30G6	SC432T-SF6LDF(D03-I30-G06)	TRIPLE COLLINEAR OMNI ANTENNA, 6DBD GAIN, LOW PIM 746-869MHZ 3DT	SINCLAIR TECHNOLOGIE
DSSC432TSF6D6I30G6	SC432TSF6D6I30G6	TRIPLE COLLINEAR OMNI ANTENNA, 6DBD GAIN, LOW PIM 746-869MHZ 6DEG DT	SINCLAIR TECHNOLOGIE
DSSC433HF1SNF	SC433-HF1SNF	COLLINEAR OMNI ANTENNA, 2.5 DBD GAIN, HD, 806-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC433HF3LDF	SC433-HF3LDF	COLLINEAR OMNI, 2.5 DBD, LOW PIM, HD, 890-940 MHZ	SINCLAIR TECHNOLOGIE
DSSC433HF5LDF	SC433-HF5LDF (D00)	LOW PIM COLLINEAR OMNI, 2.5 DB GAIN, HEAVY DUTY 746-806 MHZ	SINCLAIR TECHNOLOGIE
DSSC433HF5SNF	SC433HF5SNF	COLLINEAR OMNI 2.5 DBD GAIN, HD, 746-806 MHZ	SINCLAIR TECHNOLOGIE
DSSC442DHF1DFI30G9	SC442D-HF1LDF(D00-I30-G09)	DUAL PORT 9 DBD COLLINEAR ANTENNA, 30 DB ISOLATION, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC442DHF2LDFI4G9	SC442D-HF2LDF(D00-I40-G09)	DUAL PORT 9 DBD COLLINEAR ANTENNA, 40 DB ISOLATION, 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC473HF1LDF	SC473-HF1LDF(D00)	COLLINEAR OMNI ANTENNA, 3 DBD GAIN, LOW PIM, HD, 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC473HF1LDFPIP	SC473-HF1LDF(D00-E5749)	COLLINEAR OMNI, 4 DBD, LOW PIM, PIP RATED, HD, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC473HF2LDFD0	SC473-HF2LDF(D00)	COLLINEAR OMNI ANT, 4 DBD, LOW PIM, HD, 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC476HF1D6E5749	SC476-HF1LDF(D06-E5749)	COLLINEAR OMNI, 6 DBD, PIP RATED, LOW PIM, HD, 746-869 MHZ, 6DT	SINCLAIR TECHNOLOGIE
DSSC476HF1D6IE5749	SC476-HF1LDF(D06I-E5749)	COLLINEAR OMNI, 6 DBD, PIP, LOW PIM, HD, 746-869 MHZ, 6DT, INVERTED	SINCLAIR TECHNOLOGIE
DSSC476HF1LD105765	SC476-HF1LDF(D10-E5765)	COLLINEAR OMNI, 5.5 DB, LOW PIM, HD, NULL FILL, PIP, 746-869 MHZ, 10DT	SINCLAIR TECHNOLOGIE
DSSC476HF1LD2E5608	SC476-HF1LDF(D02-E5608)	COLLINEAR OMNI, 5.5 DBD, LOW PIM, NULL FILL, HD 2DT, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC476HF1LDF	SC476-HF1LDF(D00)	COLLINEAR OMNI, 6 DBD, LOW PIM, HD, 746-869 MHZ, 7/16 DIN FEMALE CONN.	SINCLAIR TECHNOLOGIE
DSSC476HF1LDFD06	SC476-HF1LDF(D06)	COLLINEAR OMNI ANTENNA, 6 DBD LOW PIM, 6 DEG DT, HD, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC476HF1LDFD2	SC476-HF1LDF(D02)	COLLINEAR OMNI 6DBD UPRIGHT OR INVERTED LOW PIM 2 DEG DT HD 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC476HF1LDFD2PIP	SC476-HF1LDF(D02-E5749)	COLLINEAR OMNI ANT 6 DBD, 2 DEG DT, LOW PIM, HD, 746-869MHZ PIP RATED	SINCLAIR TECHNOLOGIE

DSSC476HF1LDFD6PIP	SC476-HF1LDF(D06-E5749)	COLLINEAR OMNI, 6 DBD, PIP RATED, LOW PIM, 746-869MHZ, 6 DEG DOWNTILT	SINCLAIR TECHNOLOGIE
DSSC476HF1LDFE5749	SC476-HF1LDF(E5749)	COLLINEAR OMNI ANTENNA, 6 DBD, LOW PIM, HD, 746-869 MHZ, PIP RATED	SINCLAIR TECHNOLOGIE
DSSC476HF1LDFE5765	SC476-HF1LDF(D00-E5765)	COLLINEAR OMNI, 6 DBD, PIP RATED, LOW PIM, HD, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC476HF2LD55608	SC476-HF2LDF(D05-E5608)	COLLINEAR OMNI, 5.5 DBD, LOW PIM, NULL FILL, HD, 806-960 MHZ 5DT	SINCLAIR TECHNOLOGIE
DSSC476HF2LD65749	SC476-HF2LDF(D06-E5749)	COLLINEAR OMNI, 6.5 DBD, LOW PIM, PIP RATED, 806-960 MHZ, 6DT	SINCLAIR TECHNOLOGIE
DSSC479HF1D2E5608	SC479HF1LDF(E5608) D02	COLLINEAR OMNI ANTENNA, 9DBD, HD, NULL FILL, 746-869MHZ, 2 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1D2E6085	SC479-HF1LDF(D02-E6085)	COLLINEAR OMNI ANTENNA, 9.5DBD, HD, 746-869MHZ, 2 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1D2NUP	SC479-HF1LDF(D02-E5765)	COLLINEAR OMNI, 9 DBD, HD, NULL FILL, PIP RATED 746-869MHZ 2 DT	SINCLAIR TECHNOLOGIE
DSSC479HF1D4E6085	SC479-HF1LDF(D04-E6085)	COLLINEAR OMNI ANTENNA, 9.5DBD, HD, 746-869MHZ, 4 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1D4PIP	SC479-HF1LDF(D04-E5749)	COLLINEAR OMNI, 9DBD GAIN, HD, 746-869MHZ, PIP RATED W/DT OPTION	SINCLAIR TECHNOLOGIE
DSSC479HF1E5765D3	SC479-HF1LDF(D03-E5765)	COLLINEAR OMNI 9.5DBD LOW PIM NULL FILL PIP RATED HD 746-869MHZ 3DEG	SINCLAIR TECHNOLOGIE
DSSC479HF1LD2E5608	SC479-HF1LDF(D02-E5608)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL, HD, 746-869 MHZ 2DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD2E6085	SC479-HF1LDF(D02-E6085)	COLLINEAR OMNI, 10 DBD, LOW PIM, 2 DT, PIP/NF 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LD2I5765	SC479-HF1LDF(D02I-E5765)	COLLINEAR OMNI, 9 DBD, NULL FILL, 746-869 25 KW PIP PIM 2DT INV	SINCLAIR TECHNOLOGIE
DSSC479HF1LD3E5608	SC479-HF1LDF(D03-E5608)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL, HD, 746-869 MHZ 3DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD3E6085	SC479-HF1LDF(D03-E6085)	COLLINEAR OMNI, 10 DBD, LOW PIM, 3DT, PIP/NF 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LD4E6085	SC479-HF1LDF(D04-E6085)	COLLINEAR OMNI, 10 DBD, LOW PIM, 4 DT, PIP/NF 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LD5E6085	SC479-HF1LDF(D05-E6085)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, PIP, NULL FILL 746-869MHZ 5DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD6E5749	SC479-HF1LDF(D00-E5749)	COLLINEAR OMNI, 6 DBD, LOW PIM, HD, PIP RATED, 6 DEGREE DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD6E5765	SC479-HF1LDF(D06-E5765)	COLLINEAR OMNI, 9 DBD, NULL FILL, 746-869 25 KW PIP PIM 6DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD6E6085	SC479-HF1LDF(D06-E6085)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, PIP, NULL FILL 746-869MHZ 6DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LD6I5765	SC479-HF1LDF(D06I-E5765)	COLLINEAR OMNI, 9 DBD, NULL FILL, 746-869 25 KW PIP PIM 6DT INV	SINCLAIR TECHNOLOGIE
DSSC479HF1LDE5765I	SC479-HF1LDF(D00I-E5765)	COLLINEAR OMNI, 9 DB 746-869 MHZ, LOW PIM, PIP, NULL FILL, INVERTED	SINCLAIR TECHNOLOGIE
DSSC479HF1LDF	SC479HF1LDF	COLLINEAR OMNI ANTENNA, 9.5 DBD GAIN, LOW PIM, HD, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDF4INUP	SC479-HF1LDF(D04I-E5765)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP, NULL FILL, INVTD, 746-869 MHZ,4DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD03	SC479-HF1LDF(D03)	COLLINEAR OMNI ANTENNA, 9.5 DBD GAIN, HD, 746-869 MHZ DT 3DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD04	SC479-HF1LDF(D04)	COLLINEAR OMNI ANTENNA, 9.5 DBD GAIN, HD, 746-869 MHZ DT 4 DEG	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD2NU	SC479-HF1LDF(D02-E5608)	COLLINEAR OMNI 9.5DBD LOW PIM NULL FILL HD 746-869MHZ 2 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD2NUP	SC479-HF1LDF(D02-E5765)	COLLINEAR OMNI, 9 DBD, LOW PIM, PIP RATED, NULL FILL, 2 DT, 746-869	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD4NU	SC479-HF1LDF(D04-E5608)	COLLINEAR OMNI 9.5DBD LOW PIM NULL FILL HD 746-869MHZ 4 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD4NUP	SC479-HF1LDF(D04-E5765)	COLLINEAR OMNI 9 DBD LOW PIM NULL FILL PIP RATED, HD 746-869 4 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD6	SC479-HF1LDF(D06)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, HD, 6 DT, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD6NU	SC479-HF1LDF(D06-E5608)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, 6 DEG DT, NULL FILL HD 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFD6NUP	SC479HF1LDF(D06-E5765)	COLLINEAR OMNI 9 DBD LOW PIM NULL FILL PIP RATED, HD 746-869 6 DEG DT	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFE5608	SC479-HF1LDF(D00-E5608)	COLLINEAR OMNI ANTENNA, 9 DBD GAIN, HD, 746-869MHZ, NULL FILL, LOW PIM	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFE5749	SC479-HF1LDF(D00-E5749)	COLLINEAR 9.5 DBD LOW PIM, HD, 746-869 PIP RATED	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFE5765	SC479-HF1LDF(D00-E5765)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL, PIP RATED, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFE6029	SC479-HF1LDF(D00-E6029)	COLLINEAR OMNI, 10 DBD, LOW PIM, PIP RATED, HD 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFE6085	SC479-HF1LDF(D00-E6085)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, PIP, NULL FILL 746-869MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF1LDFI6085	SC479-HF1LDF(D00I-E6085)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL HD 746-869MHZ INV	SINCLAIR TECHNOLOGIE
DSSC479HF2D1E6085	SC479-HF2LDF(D01-E6085)	COLLINEAR OMNI, 9.5 DBD, LO PIM, HD, PIP/NULL FILL, 1DT 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF2LD2E6359	SC479-HF2LDF(D02-E6359)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL, PIP RATED, HD 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSC479HF2LDFD0PIP	SC479-HF2LDF(D00-E5749)	COLLINEAR OMNI, 9.5 DBD, LOW PIM, PIP RATED, HD 0-10DT, 806-960 MHZ	SINCLAIR TECHNOLOGIE

DSSC479HF2LDFD6NU	SC479-HF2LDF(D06-E5608)	COLLINEAR OMNI, 9 DBD, LOW PIM, NULL FILL, HD, 6DT, 746-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC488HF1LDFD06	SC488HF1LDFD06	LOW PIM COLLINEAR OMNI, 10 DBD GAIN, HEAVY DUTY 806-869 MHZ, 6 DEG DT	SINCLAIR TECHNOLOGIE
DSSC488HF2LDF	SC488HF2LDF	COLLINEAR OMNI, 10 DBD GAIN, LOW PIM, HD, 824-896 MHZ, DIN FEMALE CONN	SINCLAIR TECHNOLOGIE
DSSC488SF1LDF	SC488SF1LDF	COLLINEAR OMNI ANTENNA, 10 DBD GAIN, LOW PIM, 806-869 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSC488SF1SNF	SC488-SF1SNF(D00)	COLLINEAR OMNI 10 DBD 806-869 MHZ	SINCLAIR TECHNOLOGIE
DSSC488SF1SNFD02	SC488-SF1SNF(D02)	COLLINEAR OMNI 10 DBD STANDARD DUTY RADOME 806-869 MHZ, 2 DEG DT	SINCLAIR TECHNOLOGIE
DSSC488SF1SNFD06	SC488-SF1SNF(D06)	COLLINEAR OMNI 9.5 DBD 806-869 MHZ 6DT	SINCLAIR TECHNOLOGIE
DSSC488SF2LDF	SC488-SF2LDF(D00)	LOW PIM COLLINEAR OMNI ANT., 10 DBD GAIN, 824-896 MHZ	SINCLAIR TECHNOLOGIE
DSSC488SF2LDFD02	SC488-SF2LDF(D02)	LOW PIM COLLINEAR OMNI, 10 DBD, 2 DEG DT 824-896 MHZ	SINCLAIR TECHNOLOGIE
DSSC488SF6LDF	SC488SF6LDF	COLLINEAR OMNI, 10 DB, LOW PIM 746-806 MHZ	SINCLAIR TECHNOLOGIE
DSSC489SF1LNF	SC489-SF1LNF	COLLINEAR OMNI, 9 DBD, UPRIGHT OR INVERTED, 806-869 MHZ	SINCLAIR TECHNOLOGIE
DSSCE114	SCE-114	SCE-114 SINGLE ENTRANCE ASSEMBLY FOR 1-1/4 IN COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DSSCE12	SCE-12	SCE-12 WALL/ROOF FEED THRU KIT, FOR 1/2" CABLE	COMMSCOPE TECHNOLOGI
DSSCE78	SCE-78	SCE-78 CABLE SIZE 7/8" SINGLE ENTRANCE WALL/ROOF FEED-THRU ASSEMBLY	COMMSCOPE TECHNOLOGI
DSSD020ODDL	20003722	GENERATOR, 20KW DIESEL, 120/240V 1-PH, OUTDOOR HSG	GENERAC POWER SYSTEM
DSSD025ODDL	20003725	GENERATOR, 25KW DIESEL, OD ENCL W/MUFF	GENERAC POWER SYSTEM
DSSD035ODDL	20003731	GENERATOR, 35KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSD035ODDL300G	20014154	GENERATOR, 35KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING 300 GAL TANK	GENERAC POWER SYSTEM
DSSD035SADL	20003734	GENERATOR, 35KW DIESEL, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSD050IDDL	D50ID - SD050 DSL, NO HSG	GENERATOR, 50KW DIESEL, 120/240V 1-PH, NO HOUSING (INDOOR USE ONLY)	GENERAC POWER SYSTEM
DSSD050ODDL	D50OD - SD050 DLS, OD HSG	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSD050ODDL211G	20012509	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING 211 GAL TANK	GENERAC POWER SYSTEM
DSSD050ODDL300G	20013432	GENERATOR, 50KW DIESEL, 120/240 1-PH, OUTDOOR HOUSING 300 GAL TANK	GENERAC POWER SYSTEM
DSSD050ODDL3PH	20012478	GENERATOR, 50KW DIESEL, 120/208 3-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSD050SADL	20012506	GENERATOR, 50KW DIESEL, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSD050SADL3PH	D50SAE 3 PHASE	D50SAE 50KW DIESEL GENSET SOUND ATTEN 3 PHASE	GENERAC POWER SYSTEM
DSSD080ODDL	20012576	GENERATOR, 80KW DIESEL, 120/240V 1-PH , OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSD080SADL	20012579	GENERATOR, 80KW DIESEL, 1-PH , SND ATTN HOUSING	GENERAC POWER SYSTEM
DSSD100ODDL	20012648	GENERATOR, 100KW DIESEL, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSD100SADL3PH	SD100SAE SND ATTEN 3PH	GENERATOR, 100KW DIESEL, 120/208V 3-PH, SOUND ATTN (STD MDL)	GENERAC POWER SYSTEM
DSSD110SFXPASNM	SD110-SFXPASNM(FXXXX)	EXPOSED DIPLOE DIRECTIVE ANTENNA, 2.5 DBD GAIN, 30-76	SINCLAIR TECHNOLOGIE
DSSD112SPASNMF0455	SD112-SF2PASNM(F0455)	DUAL STACKED EXPOSED DIPLOE, 5.5DBD, 10% BW N-MALE CONN 27-35MHZ	SINCLAIR TECHNOLOGIE
DSSD150SADL3PH	D150SAE - SD150 DSL, 3PH	GENERATOR, 150KW DIESEL, 120/208V 3-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSD175SADL3PH	D175SAE3-SD175 DSL, SND ATTEN	GENERATOR, 175KW DIESEL, 120/208 3-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSD210HF2P2LDF	SD210-HF2P2LDF	LOW PIM 1 DIPOLE,(HD VERSION) 138-174 MHZ, BIDIRECTIONAL 1.5 DBD, DIN	SINCLAIR TECHNOLOGIE
DSSD210HF2P2SNM	SD210-HF2P2SNM	1 DIPOLE, 1.5 DBD, BI-DIRECTIONAL HD 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD210HF2P4LDF	SD210-HF2P4LDF	ANTENNA, LOW PIM 1 DIPOLE,(HD VERSION) 138-174MHZ, OFFSET, 2.0DBD, DIN	SINCLAIR TECHNOLOGIE
DSSD210RSF2P120LDF	SD210R-SF2P120LDF(D00S)	LOW PIM VHF REFLECTOR ANTENNA, 120 DEG BEAMWIDTH, 138-174MHZ	SINCLAIR TECHNOLOGIE
DSSD210RSF2P90LDFD	SD210R-SF2P90LDF(D00S)	LOW PIM VHF REFLECTOR ANTENNA, 90 DEG BEAMWIDTH, 138-174MHZ	SINCLAIR TECHNOLOGIE
DSSD210SF2P2LDF	SD210-SF2P2LDF(D00)	LOW PIM 1 DIPOLE ANTENNA, 1.5 DBD GAIN, ELLIPTICAL, 138-174 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD210SF2P2SNM	SD210SF2P2SNM	1 DIPOLE ANTENNA, 2.0 DBD GAIN, ELLIPTICAL, 138-174	SINCLAIR TECHNOLOGIE
DSSD210SF2P4LDF	SD210SF2P4LDF	LOW PIM 1 DIPOLE (STD VERSION),138-174MHZ,OFFSET 2.0 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD212DHF2P4LDFB	SD212D-HF2P4LDF(D00B)	2 DIPOLE, DUAL ARRAY, 2 FEED, 5 DBD, OFFSET, LOW PIM, HD,138-174 MHZ	SINCLAIR TECHNOLOGIE

DSSD212HF2P4LDF	SD212-HF2P4LDF (D00B)	LOW PIM 2 DIPOLE HD,138-174MHZ,OFFSET 5.0 DBD GAIN, BOTTOM MT	SINCLAIR TECHNOLOGIE
DSSD212RSF2P120LDF	SD212R-SF2P120LDF(D00S)	LOW PIM VHF REFLECTOR, 2 DIPOLE, 120 DEGREE B.W., 138-174 MHZ, 7DBD	SINCLAIR TECHNOLOGIE
DSSD212RSF2P60LDFS	SD212R-SF2P60LDF(D00S)	LOW PIM VHF REFLECTOR, 2 DIPOLE, 60 DEGREE B.W., 138-174 MHZ, 10DBD	SINCLAIR TECHNOLOGIE
DSSD212RSF2P90LDFS	SD212R-SF2P90LDF(D00S)	LOW PIM VHF REFLECTOR, 2 DIPOLE, 90 DEGREE B.W., 138-174 MHZ, 8.5DBD	SINCLAIR TECHNOLOGIE
DSSD212SF2P2LDF	SD212-SF2P2LDF	2 DIPOLE ANT, 4.5 DBD GAIN, BI-DIRECTIONAL, 138-174 MHZ, DIN, LOW PIM	SINCLAIR TECHNOLOGIE
DSSD212SF2P2SNM	SD212-SF2P2SNM	2 DIPOLE 5 DB GAIN BI-DIRECTIONAL 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD212SF2P4LDF	SD212SF2P4LDF	LOW PIM 2 DIPOLE ANTENNA, 5.0 DBD GAIN, OFFSET, 138-174 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD212SF2P4LDFD00	SD212SF2P4LDFD00	2 BAY DIPOLE 5DBD LOW PIM OFFSET 138-174MHZ SUBBAND F2 DIN F CONN 0 DT	SINCLAIR TECHNOLOGIE
DSSD212SF2P4SNMD00	SD212-SF2P4SNM (D00)	2 DIPOLE ANT 5.5 DBD G 138-174 1/4W NM	SINCLAIR TECHNOLOGIE
DSSD214HF2P2LDF	SD214-HF2P2LDF (D00B)	LOW PIM 4 DIPOLE HD, 138-174MHZ,BIDIRECTIONAL 7.0 DBD GAIN, DIN	SINCLAIR TECHNOLOGIE
DSSD214HF2P2SNMB	SD214-HF2P2SNM(D00B)	4 DIPOLE 8.0 DBD BI-DIRECTIONAL, TOP MT, HD, 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD214HF2P2SNMD0S	SD214-HF2P2SNM(D00S)	4 DIPOLE, 8.0 DBD, BI-DIRECTIONAL, SIDE MOUNT, HD, 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD214HF2P4LDFD0S	SD214-HF2P4LDF(D00S)	4 DIPOLE, 7.5 DBD LOW PIM, OFFSET, HD, 138-174 MHZ SIDE MOUNT	SINCLAIR TECHNOLOGIE
DSSD214RSF2P120LDF	SD214R-SF2P120LDF	LOW PIM VHF REFLECTOR ANTENNA, 120 DEGREE B.W., 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD214SF2P4LDF	SD214-SF2P4LDF(D00)	LOW PIM 4 DIPOLE (STD VERSION), 138-174MHZ,OFFSET, 7.5 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD222SF4PASNM	SD222-SF4PASNM	EXPOSED DIPOLE 3DBD OMNI, 6DBD OFFSET, FIELD ADJUST, N-MALE 147-157MHZ	SINCLAIR TECHNOLOGIE
DSSD222SF7PASNM	SD222SF7PASNM	EXPOSED DIPOLE 3DBD OMNI, 6DBD OFFSET, FIELD ADJUST, N-MALE 164-174MHZ	SINCLAIR TECHNOLOGIE
DSSD222SF8PASNM	SD222-SF8PASNM	EXPOSED DIPOLE 3 DBD OMNI, 6 DBD OFFSET FIELD ADJUST N-MALE 150-160MHZ	SINCLAIR TECHNOLOGIE
DSSD222SF9PASNM	SD222-SF9PASNM	EXPOSED DIPOLE 3 DBD/ 6 DBD OFFSET, FIELD ADJUST N-MALE 160-170MHZ	SINCLAIR TECHNOLOGIE
DSSD224SF7PASNM	SD224SF7PASNM	EXPOSED DIPOLE ANTENNA, 6/9 DBD GAIN, FIELD ADJUSTABLE, 163-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD224SF8PASNM	SD224SF8PASNM	EXPOSED DIPOLE, 6/9 DBD, FIELD ADJUSTABLE 150-160 MHZ	SINCLAIR TECHNOLOGIE
DSSD2352HF2PALDF	SD2352-HF2PALDF(D00B)	LOW PIM EXP. DIPOLE, 5.5/8.0 DBD,HD, ADJ. PATTERN, 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD2352SF2PALDF	SD2352-SF2PALDFD0B	LOW PIM EXP. DIPOLE, 5.5/8.0 DBD GAIN, 138-174MHZ, FIELD ADJ., DIN	SINCLAIR TECHNOLOGIE
DSSD2352SF2PASNMD0	SD2352-SF2PASNM(D00)	EXPOSED DIPOLE ARRAY, 6/8.5 DBD GAIN, FIELD ADJUST, 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSD235SF2PALDFB	SD235-SF2PALDF(D00B)	EXP DIPOLE ARRAY 3 DBD/5.5DBD, FIELD ADJ, LOW PIM, 138-174MHZ	SINCLAIR TECHNOLOGIE
DSSD235SF2PASNM	SD235SF2PASNM	EXPOSED DIPOLE ARRAY 3/5.5 DB GAIN FIELD ADJUSTABLE 138-174MHZ	SINCLAIR TECHNOLOGIE
DSSD310HF1P4LDF	SD310HF1P4LDF	LOW PIM 1 DIPOLE, 370-430MHZ, OFFSET PATTERN, 2.0 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD310HF3P2LDF	SD310HF3P2LDF	LOW PIM 1 DIPOLE, 450-512MHZ, ELLIPTICAL, HD, 1.5 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD310HF3P4LDF	SD310-HF3P4LDF	LOW PIM 1 DIPOLE, 450-512 MHZ, OFFSET PATTERN, 2.0 DBD GAIN, DIN	SINCLAIR TECHNOLOGIE
DSSD312HF1P2SNMD0	SD312-HF1P2SNM(D00)	2 DIPOLE 5 DBD, BI-DIRECTIONAL, N-MALE, HD, 370-460 MHZ	SINCLAIR TECHNOLOGIE
DSSD312HF2P2SNM	SD312-HF2P2SNM(D00)	2 DIPOLE ANTENNA, 5 DB GAIN, ELLIPTICAL, HEAVY DUTY, 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSD312HF2P4LDF	SD312-HF2P4LDF(D00)	2 DIPOLE ANT, 5 DBD, OFFSET, LOW PIM, HEAVY-DUTY, 406-470 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD312HF2P4SNM	SD312-HF2P4SNM	2 DIPOLE ANTENNA, 5.5 DBD GAIN, OFFSET, HEAVY DUTY 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSD314DHF1P4LDF	SD314D-HF1P4LDF(D00S)	DUAL PORT, 4 DIPOLE, 7.5 DBD, HD, LOW PIM, 370-430 MHZ	SINCLAIR TECHNOLOGIE
DSSD314DHF2P4LDFS	SD314DHF2P4LDFS	DUAL PORT, 4 DIPOLE ANT, 7.5 DBD GAIN, HD, 406-470 MHZ OFFSET	SINCLAIR TECHNOLOGIE
DSSD314DSF2P2SNM	SD314D-SF2P2SNM(D00)	DUAL, 4 DIPOLE, TWO INPUT, 8.0 DBD, BI-DIRECTIONAL, HD, 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSD314HF1P2LDFD4	SD314-HF1P2LDF(D04)	4 DIPOLE, 7 DBD, BI-DIRECTIONAL, LOW PIM, HD, 370-430 MHZ, 4 DEG DT	SINCLAIR TECHNOLOGIE
DSSD314HF1P2SNM	SD314-HF1P2SNM	4 DIPOLE ANTENNA, 8.0 DBD GAIN, ELLIPTICAL, HD, 370-430 MHZ	SINCLAIR TECHNOLOGIE
DSSD314HF2P2LDF	SD314HF2P2LDF	LOW PIM 4 DIPOLE, 406-470MHZ, BIDIRECTIONAL , 7.0 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD314HF2P4LDF	SD314-HF2P4LDF(D00)	LOW PIM 4 DIPOLE ANT, 7.5 DBD, OFFSET, HEAVY-DUTY, 406-470 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD318HF1P2LDF	SD318HF1P2LDF	8 DIPOLE, 10 DBD, BI-DIRECTIONAL, LOW PIM, HD, 370-430 MHZ	SINCLAIR TECHNOLOGIE
DSSD318HF1P4LDF	SD318-HF1P4LDF(D00)	8 DIPOLE, 10.5 DBD, OFFSET, LOW PIM, HD, 370-430 MHZ	SINCLAIR TECHNOLOGIE
DSSD318HF2P2LDF	SD318-HF2P2LDF(D00)	8 DIPOLE BI-DIRECTIONAL ANT, 10 DBD, HD, LO PIM, 406-470 MHZ, DIN	SINCLAIR TECHNOLOGIE

DSSD318HF2P4LDF	SD318HF2P4LDF	EXPOSED DIPOLE DIRECTIVE ANT, 10.5 DBD, HD, WIDE BAND, 406-470MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD318HF3P4LDF	SD318-HF3P4LDF(D00)	8 DIPOLE, 10.5 DBD GAIN, LOW PIM, OFFSET, HEAVY-DUTY, 450-512 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSD3352HF1PASNM	SD3352-HF1PASNM(D00B)	EXPOSED DIPOLE, 6/8.5 DBD, HEAVY DUTY, FIELD ADJUSTABLE 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSD3352HF2PALDF	SD3352-HF2PALDF(D00)	LOW PIM EXPOSED DIPOLE, ADJ., HD, 406-470MHZ, 5.5/8.0 DBD GAIN	SINCLAIR TECHNOLOGIE
DSSD3358SF1PALDF0B	SD3358-SF1PALDF(D00B)	EXPOSED DIPOLE ANTENNA, 12-14 DBD, FIELD ADJUST, LOW PIM, 406-512MHZ	SINCLAIR TECHNOLOGIE
DSSD335HF1PASNM	SD335HF1PASNM	EXPOSED DIPOLE, 3/5.5 DBD, FIELD ADJUSTABLE, 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSD335HF2PALDF	SD335HF2PALDF	EXP DIPOLE ARRAY, 2.5/5.0 DBD, LOW PIM, FIELD ADJUST, HD, 406-470 MHZ	SINCLAIR TECHNOLOGIE
DSSDMOFR01RXCK	SDMOFR01RXCK	SDMOFR01RXCK, 1 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR01TXCK	SDMOFR01TXCK	SDMOFR01TXCK, 1 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR02RXCK	SDMOFR02RXCK	SDMOFR02RXCK, 2 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR02TXCK	SDMOFR02TXCK	SDMOFR02TXCK, 2 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR03RXCK	SDMOFR03RXCK	SDMOFR03RXCK, 3 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR03TXCK	SDMOFR03TXCK	SDMOFR03TXCK, 3 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR04RXCK	SDMOFR04RXCK	SDMOFR04RXCK, 4 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR04TXCK	SDMOFR04TXCK	SDMOFR04TXCK, 4 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR05RXCK	SDMOFR05RXCK	SDMOFR05RXCK, 5 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR05TXCK	SDMOFR05TXCK	SDMOFR05TXCK, 5 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR06RXCK	SDMOFR06RXCK	SDMOFR06RXCK, 6 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR06TXCK	SDMOFR06TXCK	SDMOFR06TXCK, 6 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR07RXCK	SDMOFR07RXCK	SDMOFR07RXCK, 7 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR07TXCK	SDMOFR07TXCK	SDMOFR07TXCK, 7 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR08RXCK	SDMOFR08RXCK	SDMOFR08RXCK, 8 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR08TXCK	SDMOFR08TXCK	SDMOFR08TXCK, 8 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR09RXCK	SDMOFR09RXCK	SDMOFR09RXCK, 9 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR09TXCK	SDMOFR09TXCK	SDMOFR09TXCK, 9 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR10RXCK	SDMOFR10RXCK	SDMOFR10RXCK, 10 CH RX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSDMOFR10TXCK	SDMOFR10TXCK	SDMOFR10TXCK, 10 CH TX CABLE KIT, SHORT DUAL RACK	DBSPECTRA
DSSE412SWBP2LDFD0	SE412-SWBP2LDF(D00)	ENCLOSED DIPOLE, 5 DBD, BI-DIRECTIONAL 746-960 MHZ, DF, LOW PIM, PIP	SINCLAIR TECHNOLOGIE
DSSE412SWBP2LNF	SE412-SWBP2LNF	ENCLOSED DIPOLE, 4.5 DBD, BI-DIRECTIONAL, 746-960 MHZ PIP	SINCLAIR TECHNOLOGIE
DSSE412SWBP4LDFD6	SE412-SWBP4LDF(D06)	ENCLOSED DIPOLE, 5 DBD, OFFSET, LOW PIM, 746-960 MHZ, 6DT, PIM, PIP	SINCLAIR TECHNOLOGIE
DSSE412SWBP4LNF	SE412-SWBP4LNF(D00)	ENCLOSED DIPOLE, 5 DBD, OFFSET, LOW PIM, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE414SWBP2LDF	SE414-SWBP2LDF(D00)	ENC. DIPOLE ARRAY BI-DIRECTIONAL, 7 DBD, LOW PIM 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE414SWBP2LDFD6	SE414-SWBP2LDF(D06)	ENCLOSED DIPOLE, BI-DIRECTIONAL, 7 DBD, LOW PIM, 6DT, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE414SWBP4LDF	SE414-SWBP4LDF(D00)	ENCLOSED DIPOLE, 7.5 DBD, OFFSET LOW PIM 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE414SWBP4LDFD4	SE414-SWBP4LDF(D04)	ENCLOSED DIPOLE, 7.5 DBD, OFFSET LOW PIM 746-960 MHZ 4DT	SINCLAIR TECHNOLOGIE
DSSE414SWBPALDFD0	SE414-SWBPALDF(D00)	ENCLOSED DIPOLE, 8-11.5 DBD, ADJ BEAMWIDTH, LOW PIM, PIP, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE414SWBPALDFD6	SE414-SWBPALDF(D06)	ENCLOSED DIPOLE, 11.5 DBD, ADJ BEAMWID, LOW PIM, PIP, 6DT, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE4192SF1P4LDFD6	SE4192-SF1P4LDF(D06)	ENCLOSED DIPOLE DIRECTIONAL, 14 DBD, LOW PIM, 4 DEG DT 806-896MHZ	SINCLAIR TECHNOLOGIE
DSSE4192SWBP2LDFD0	SE4192-SWBP2LDF(D00)	ENCLOSED DIPOLE, BI-DIRECTIONAL, 12 DBD, LOW PIM, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE4192SWBP2LDFD1	SE4192-SWBP2LDF(D01)	ENCLOSED DIPOLE, BI-DIRECTIONAL, 12 DBD, LOW PIM, 746-960 MHZ, 1DT	SINCLAIR TECHNOLOGIE
DSSE4192SWBP4LD3NU	SE4192-SWBP4LDF(D03-E6461)	ENCLOSED DIPOLE, OFFSET, 12 DBD, NULL FILL, 3DT, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE4192SWBP4LD6NU	SE4192-SWBP4LDF(D06-E6461)	ENCLOSED DIPOLE, OFFSET, 12 DBD, NULL FILL, 6DT, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE4192SWBP4LDF	SE4192-SWBP4LDF(D00)	ENCLOSED DIPOLE, OFFSET, 12 DBD, 746-960 MHZ, LOW PIM, PIP	SINCLAIR TECHNOLOGIE

DSSE4192SWBP4LDNUF	SE4192-SWBP4LDF(D00-NUF)	ENCLOSED DIPOLE, OFFSET, 12 DBD, 746-960 MHZ, LOW PIM, PIP, NULL FILL	SINCLAIR TECHNOLOGIE
DSSE4192SWBPALD3NU	SE4192-SWBPALDF(D03-NUF)	ENCLOSED DIPOLE, 17.5DBD, ADJ. BW, NULL FILL, 3DT,746-960MHZ	SINCLAIR TECHNOLOGIE
DSSE4192WBPALDFNUF	SE4192-SWBPALDF(D00-NUF)	ENCL DIPOLE, 13.5-17.5 DBD, FIELD ADJ, DIN-F, LOW PIM, PIP, NULL FILL	SINCLAIR TECHNOLOGIE
DSSE419SF3P4LDFD02	SE419-SF3P4LDFD02	ENCLOSED DIPOLE ARRAY OFFSET, 10.5 DBD LOW PIM, 746-869 MHZ 2DT	SINCLAIR TECHNOLOGIE
DSSE419SWBP2LDF	SE419SWBP2LDF(D00)	ENCLOSED DIPOLE, BI-DIRECTIONAL, 10 DBD, LOW PIM, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE419SWBP2LDFD4	SE419-SWBP2LDF(D04)	ENCLOSED DIPOLE, BI-DIRECTIONAL, 9.5 DBD, LOW PIM,PIP 4DT, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE419SWBP4LDF	SE419-SWBP4LDF(D00)	ENCLOSED DIPOLE ARRAY, OFFSET, 10 DBD, LOW PIM, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE419SWBPALDF	SE419-SWBPALDF(D00)	ENCLOSED DIPOLE ARRAY, 11.5-15.5 DBD,LOW PIM, 746-960 MHZ	SINCLAIR TECHNOLOGIE
DSSE419SWBPALDFD2	SE419-SWBPALDF(D02)	ENCLOSED DIPOLE ARRAY, 11.5-15.5 DBD,LOW PIM, 746-960 MHZ 2DT	SINCLAIR TECHNOLOGIE
DSSE419SWBPALDFD3	SE419-SWBPALDF(D03)	ENCLOSED DIPOLE ARRAY, 11.5-15.5 DBD,LOW PIM, 746-960 MHZ 3DT	SINCLAIR TECHNOLOGIE
DSSE419SWBPALDFD4	SE419-SWBPALDF(D04)	ENCLOSED DIPOLE ARRAY, 11.5-15.5 DBD,LOW PIM, 746-960 MHZ 4DT	SINCLAIR TECHNOLOGIE
DSSEC1114	SEC-1114	SEC-1114 SNAP - SEAL ENTRY CUSHION 1X1 1/4" KT OF 1	COMMSCOPE TECHNOLOGI
DSSEC1158	SEC-1158	SEC-1158 SNAP-SEAL ENTRY CUSHION W/1 HOLE FOR 1-5/8" CORRIGATD COAX CBL	COMMSCOPE TECHNOLOGI
DSSEC378	SEC-378	SEC-378 SNAP-SEAL ENTRY CUSHION 3 X 7/8", KIT OF 1	COMMSCOPE TECHNOLOGI
DSSEC412	SEC-412	SEC-412 SNAP-SEAL ENTRY CUSHION 4 X 1/2IN KIT OF 1	COMMSCOPE TECHNOLOGI
DSSEC638	SEC-638	SNAPSEAL ENTRY CUSHION WITH 6 HOLES FOR 3/8" CORRUGATED COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DSSG035IDNG	20013530	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, NO ENCL	GENERAC POWER SYSTEM
DSSG035IDVP	20012729	GENERATOR, 35KW LP VAPOR, 120/240V 1PH, ID 5.4 L, UPSIZE TO 40KW	GENERAC POWER SYSTEM
DSSG035ODNG	20013532	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG035ODVP	20012738	GENERATOR, 35KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG035SANG	20015252	GENERATOR, 35KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG035SAVP	20015248	GENERATOR, 35KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG050IDNG	20013533	GENERATOR, 50KW, NATURAL GAS, 1P, NO ENCL	GENERAC POWER SYSTEM
DSSG050IDVP	20013253	GENERATOR, 50KW, LP VAPOR, 1P, NO ENCL	GENERAC POWER SYSTEM
DSSG050ODNG	20012274	GENERATOR, 50KW NAT GAS, 120/240V 1-PH, OUTDOR HOUSING	GENERAC POWER SYSTEM
DSSG050ODVP	20013257	GENERATOR, 50KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG050SANG	20013534	GENERATOR, 50KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG050SAVP	20013272	GENERATOR, 50KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG070ODNG	20013684	GENERATOR, 70KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG070ODVP	20013427	GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG070SANG3PH	SG070 - SOUND ATTENUATED HSG	70 KVA GENERAC GENSET NAT GAS SOUND ATTENUATED 3 PHASE	GENERAC POWER SYSTEM
DSSG070SAVP	20013776	GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG080ODVP	20013449	GENERATOR, 80KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG100ODNG	20013726	100KW NAT GAS GENERATOR, 1PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG100ODVP	20013454	100KW LP VAPOR GENERATOR, 1PH, OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG100ODVP3PH	SG100 - STD OD HOUSING 3PH	100KW LP VAPOR GENERATOR, 3PH, 120/208 OUTDOOR HOUSING	GENERAC POWER SYSTEM
DSSG100SANG3PH	SG100 - SOUND ATTENUATED HSG	GENERATOR, 100KW, NAT GAS, 3 PHASE SOUND ATTN HSG	GENERAC POWER SYSTEM
DSSG100SAVP	20013455	GENERATOR, 100KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG100SAVP3PH	LPV100SAE3	GENERATOR, 100KW LP VAPOR, 120/208V 3-PH, SOUND ATTENUATED HOUSING (OD)	GENERAC POWER SYSTEM
DSSG101SFXXNM	SG101-SFXXNM	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 30-76 MHZ,FREQ MUST BE PROVIDED	SINCLAIR TECHNOLOGIE
DSSG11406B2A	SG114-06B2A	SG114-06B2A 1-1/4" SURE GROUND GROUNDING KIT	COMMSCOPE TECHNOLOGI
DSSG11412B2U	SG114-12B2U	SG114-12B2U 1-1/4" SUREGROUND GROUNDING KIT	COMMSCOPE TECHNOLOGI
DSSG1206B2A	SG12-06B2A	SG12-06B2A 1/2IN SURE GROUND GROUNDING KIT	COMMSCOPE TECHNOLOGI

DSSG1212B2U	SG12-12B2U	SG12-12B2U, SUREGROUND 1/2", 48"	COMMSCOPE TECHNOLOGI
DSSG130IDNG3PH	NG130ID3	GENERAC INDOOR 130KW NATURAL GAS, 3 PHASE	GENERAC POWER SYSTEM
DSSG130SAVP3PH	LPV130SAE3	GENERATOR, 130KW LP VAPOR, 120/208V 3-PH, SOUND ATTENUATED HOUSING (OD	GENERAC POWER SYSTEM
DSSG15806B2A	SG158-06B2A	SG158-06B2A 1-5/8" SUREGROUND GROUNDING	COMMSCOPE TECHNOLOGI
DSSG201SF3SNF	SG201-SF3SNF	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 148-174 MHZ	SINCLAIR TECHNOLOGIE
DSSG238HF1SNM	SG238-HF1SNM	GROUND PLANE OMNI, 0 DBD, HD, 118-138 MHZ	SINCLAIR TECHNOLOGIE
DSSG301SF1SNF	SG301-SF1SNF	GROUND PLANE OMNIDIRECTIONAL ANT 0 DBD GAIN 406-420 MHZ	SINCLAIR TECHNOLOGIE
DSSG301SF2SNF	SG301SF2SNF	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 450 - 470 MHZ	SINCLAIR TECHNOLOGIE
DSSG301SF2SNM	SG301-SF2SNM	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSG301SF4SNF	SG301SF4SNF	GROUND PLANE ANTENNA 0 DBD GAIN, 470-490 MHZ, N FEMALE	SINCLAIR TECHNOLOGIE
DSSG317SF2SNM	SG317-SF2SNM	GROUND PLANE OMNIDIRECTIONAL ANT 2.5DBD GAIN 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSG401SF1SNF	SG401SF1SNF	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 806 - 890 MHZ	SINCLAIR TECHNOLOGIE
DSSG401SF1SNM	SG401-SF1SNM	GROUND PLANE OMNI, 0 DBD, 806-890 MHZ, 2 CLAMPS	SINCLAIR TECHNOLOGIE
DSSG401SF2SNF	SG401SF2SNF	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 890-960	SINCLAIR TECHNOLOGIE
DSSG401SF2SNM	SG401SF2SNM	GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 890-960	SINCLAIR TECHNOLOGIE
DSSG401SF3SNF	SG401-SF3SNF	GROUND PLANE OMNI, 0 DBD, 768-869 MHZ	SINCLAIR TECHNOLOGIE
DSSG401SF4SNF	SG401-SF4SNF	GROUND PLANE OMNI, 0 DBD, 750-805 MHZ	SINCLAIR TECHNOLOGIE
DSSG5806B2A	SG58-06B2A	SG58-06B2A SUREGROUND KIT FOR 5/8 INCH CABLE	COMMSCOPE TECHNOLOGI
DSSG7806B2A	SG78-06B2A	SG78-06B2A GROUNDING KIT FOR 7/8 IN COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DSSG7812B2U	SG78-12B2U	SG78-12B2U SUREGROUND GROUNDING KIT FOR 7/8 IN COAXIAL CABLE	COMMSCOPE TECHNOLOGI
DSSGKN4427A	SGKN4427A	CBL,PWR,US/CANADA/MEXICO PWR CBL,F/G	CAMBIUM NETWORKS LIM
DSSGLN6552A	SGLN6552A	BRACKET MOUNTING POLE M8	CAMBIUM NETWORKS LIM
DSSH36SRMASL	SH-36S-RM-ASL	SIGNALHAWK, RACKMOUNT SPECTRUM ANALYZER W/ASL 100KHZ - 3.6 GHZ	BIRD ELECTRONIC CORP
DSSHU114	SH-U114	SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	TRILOGY COMMUNICATIO
DSSHU12	SH-U12	SH-U12, UNIVERSAL SNAP-IN HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	TRILOGY COMMUNICATIO
DSSHU158	SH-U158	SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	TRILOGY COMMUNICATIO
DSSHU78	SH-U78	SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	TRILOGY COMMUNICATIO
DSSK4000TC	SK-4000-TC QUOTE 00139262	SITEHAWK, 85 - 4000 MHZ TRANSIT CASE VERSION	BIRD ELECTRONIC CORP
DSSL11R	SL-11R	POWER SUPPLY, 25 WATT 9.5 AMPS	ASTRON CORP
DSSL11SMGTX	SL-11SM/GTX	POWER SUPPLY, CUSTOM BASE STATION, 11A	ASTRON CORP
DSSL120	1104-29-000	SPD, TYPE 3, 120VAC, 15A PLUG-IN WITH 15A SIMPLEX OUTLET	TRANSTECTOR SYSTEMS
DSSL15CDM	SL-15CDM	ASTRON 12V POWER SUPPLY	ASTRON CORP
DSSL15R	SL-15R	POWER SUPPLY, LOW PROFILE 15A	ASTRON CORP
DSSL15SMGTX	SL-15SM/GTX	POWER SUPPLY, CUSTOM BASE STATION, 15A	ASTRON CORP
DSSLRBRK	SLRBRK	SLR IN BUD CABINET BRACKETS	DBSPECTRA
DSSMART1000RM2U	SMART1000RM2U	UPS, SMART1000RM2U 1KVA LINE INTERACTIVE	TRIPP LITE MANUFACTU
DSSMART1000RMXL2U	SMART1000RMXL2U	UPS, SMARTPRO 1KVA 900W LINE INTERACTIVE, EXTENDED-RUN & SNMP	TRIPP LITE MANUFACTU
DSSMART1500	SMART1500	UPS,1500VA SMARTPRO TOWER LINE-INTERACTIVE 120V 6 OUTLET -	TRIPP LITE MANUFACTU
DSSMART1500RMXL2U	SMART1500RMXL2UA	UPS,1500VA SYS SMARTPRO RACK/TOWER EXTENDED RUN LINE-INT	TRIPP LITE MANUFACTU
DSSMART1500SLT	SMART1500SLT	UPS,TRIPP LITE 1500VA 900W UPS SMART TOWER AVR 120V USB DB9 SNMP	TRIPP LITE MANUFACTU
DSSMART2200RMXL2U	SMART2200RMXL2U	SMART 2200 RM XL 3DBP COMM PORTS, EXTNDDED RUNTIME	TRIPP LITE MANUFACTU
DSSMART2600RM2U	SMART2600RM2U	UPS, 2600VA SYS SMARTPRO RACK/TOWER LINE-INTERACTIVE 120V 9 OUTLET -	TRIPP LITE MANUFACTU
DSSMART3000CRMXL	SMART3000CRMXL	UPS, 3000VA COMPACT 4U RM SMART PRO LINE-INTERACTIVE 9 OUTLETS 120V	TRIPP LITE MANUFACTU

DSSSMART3000RMXL2U	SMART3000RMXL2U	3000VA UPS SMARTPRO RACK/TOWER LINE-INTERACTIVE 3KVA 120V 9 OUT	TRIPP LITE MANUFACTU
DSSSMART3000RMXLN	SMART3000RMXLN	UPS, 3000VA 2880W UPS SMART LCD RACKMOUNT AVR 120V USB DB9 SNMP 2URM	TRIPP LITE MANUFACTU
DSSSMART750RM1U	SMART750RM1U	UPS,750VA UPS SMARTPRO RACK/TOWER LINE-INTERACTIVE 120V 6 OUTLET	TRIPP LITE MANUFACTU
DSSMD2036	SMD2036	SIDE MOUNTED EXPOSED DIPOLE, 0DBD,228 DEG BW,130-150 MHZ	RFI AMERICAS INC
DSSMD2041	SMD20-41	SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 175 DEG BW, 148-174 MHZ	RFI AMERICAS INC
DSSMD467U	SMD4-67-U	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 220 DEG BW, 400-520 MHZ	RFI AMERICAS INC
DSSMD783U	SMD7-83-U	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI AMERICAS INC
DSSMD890U	SMD8-90-U	SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 213 DEG BW, 806-960 MHZ	RFI AMERICAS INC
DSSMK325A3	SMK-325-A3	ADJUSTABLE SIDE MOUNT KIT FOR UP TO 3 FOOT STANDOFF	SINCLAIR TECHNOLOGIE
DSSMKSX	SMKSX	DCPS SMOKE SENSOR, WITH 1.7M SIGNAL CABLE	LAMARCHE MFG CO
DSSMMB1A	SMMB1A	ASSY,KIT,UNIV MTG KIT	CAMBIUM NETWORKS LIM
DSSMMB2A	SMMB2A	ASSY,ASSY,UNIV MTG BRKT-HEAVY DUTY	CAMBIUM NETWORKS LIM
DSSMPL	SMPL	MOUNTS, MT ANTENNA	PCTEL INC
DSSMPL1	SM/PL-1	PRECISION N(M) LOAD, 6.0 GHZ, 42DB	ANRITSU COMPANY
DSSMT1500RMUS	SMT1500RMUS/3034687	UPS, APC SMART-UPS 1500VA LCD RM 2U 120V	CDW DIRECT LLC
DSSMX1500XLRT2U	SMX1500XLRT2U	UPS 1500VA 1000W INTERNATIONAL SMART RACKMOUNT AVR 230V C13	TRIPP LITE MANUFACTU
DSSMX2000RMLV2UNC	SMX2000RMLV2UNC/CDW: 2410358	UPS X 2000VA RACK/TOWER LCD UPS WITH NETWORK MANAGEMENT CARD	ANIXTER INC
DSSMX3000RMHV2U	SMX3000RMHV2U/2430692	UPS, APC SMART-UPS X3000 RACK/TOWER LCD AC 230V 2.7KW	CDW DIRECT LLC
DSSMX750	SMX750/1921247	UPS, SMART UPS X 750VA RACK/TOWER LCD	CDW DIRECT LLC
DSSP0000115111	SP0000-1151-11	ANTENNA TRIPLEXER 30-180 MHZ, 330-520 MHZ, 746-960 MHZ	RFI AMERICAS INC
DSSP0000600211	SP0000-6002-11	50 OHM LOAD, DC-1000MHZ, N MALE, .5W	RFI AMERICAS INC
DSSP11KBPK191	SP11KBPK191	REAR LEXAN COVER FOR PANEL WITH NO RETURN BAR	LAMARCHE MFG CO
DSSP11KBPKR19	SP11KBPKR19	19 INCH COVER FOR BREAKER PANEL WITH RETURN BAR	LAMARCHE MFG CO
DSSP1318220611	SP1318-2206-11	HYBRID COUPLER, 6DB 130-180MHZ	RFI AMERICAS INC
DSSP13182440DFF1RU	SP1318-2440-DFF1RU	ANT LINE COUPLER 130-180MHZ 40DB 4-PORTS SUIT APM1317 SERIES 750W 1RU	RFI AMERICAS INC
DSSP304CSF2P65DFD2	SP304C-SF2P65LDF(D02)	CIRCULAR POLARIZED UHF PANEL, 12 DBD, 65? BEAMWIDTH, LOW PIM, 450-512	SINCLAIR TECHNOLOGIE
DSSP304VSF1P70LDF	SP304V-SF1P70LDF(D00)	VERTICAL POLARIZED UHF PANEL 11.5DB 70 DEG BW LOW PIM 380-450MHZ	SINCLAIR TECHNOLOGIE
DSSP304VSF2P70LDF	SP304V-SF2P70LDF(D00)	VERTICAL POLARIZED UHF PANEL 12DBD 70 DEG BEAMWIDTH LOW PIM 450-512MHZ	SINCLAIR TECHNOLOGIE
DSSP304VSWBP120LDF	SP304VSWBP120LDF(D00)	VERTICAL POLARIZED UHF PANEL 9.5DBD 120DEG BEAMWDTH LOW PIM 380-512MHZ	SINCLAIR TECHNOLOGIE
DSSP38554440DFF1RU	SP3855-4440-DFF1RU	ANT LINE COUPLER 380-550MHZ 40DB 4-PORTS SUIT APM3852 SERUES 750W 1 RU	RFI AMERICAS INC
DSSP4KBPUV5B1A	SP4KBPUV5B1A	BREAKER, 5 AMP BREAKER FOR SPLIT BUS PANEL, DSBPV1948V14R	LAMARCHE MFG CO
DSSP4KCDPD100B1	SP4KCDPD100B1	100 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD10B1	SP4KCDPD10B1	10 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD125B1	SP4KCDPD125B1	BREAKER, 125A	LAMARCHE MFG CO
DSSP4KCDPD15B1	SP4KCDPD15B1	15 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD1B1	SP4KCDPD1B1	BREAKER 1 AMP CDPD	LAMARCHE MFG CO
DSSP4KCDPD20B1	SP4KCDPD20B1	20 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD30B1	SP4KCDPD30B1	30 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD35B1	SP4KCDPD35B1	35 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD50B1	SP4KCDPD50B1	50 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD5B1	SP4KCDPD5B1	BREAKER 5 AMP CDPD	LAMARCHE MFG CO
DSSP4KCDPD60B1	SP4KCDPD60B1	60 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD70B1	SP4KCDPD70B1	BREAKER, 70 AMP	LAMARCHE MFG CO

DSSP4KCDPD80B1	SP4KCDPD80B1	80 AMP BREAKER FOR TYPE CDPD	LAMARCHE MFG CO
DSSP4KCDPD90B1	SP4KCDPD90B1	90 AMP BREAKER	LAMARCHE MFG CO
DSSP4KHAM02B1A	SP4KHAM02B1A	BREAKER, 2 AMP	LAMARCHE MFG CO
DSSP4KHAM05B1A	SP4KHAM05B1A	BREAKER, 5 AMP	LAMARCHE MFG CO
DSSP4KHAM100B1A	SP4KHAM100B1A	BREAKER, 100 AMP	LAMARCHE MFG CO
DSSP4KHAM10B1A	SP4KHAM10B1A	BREAKER, 10 AMP	LAMARCHE MFG CO
DSSP4KHAM125B1A	SP4KHAM125B1A	125 AMP BREAKER	LAMARCHE MFG CO
DSSP4KHAM150B1A	SP4KHAM150B1A	BREAKER KIT, 150 AMP	LAMARCHE MFG CO
DSSP4KHAM15B1A	SP4KHAM15B1A	BREAKER, 15 AMP	LAMARCHE MFG CO
DSSP4KHAM1B1A	SP4KHAM1B1A	1 AMP CIRCUIT BREAKER	LAMARCHE MFG CO
DSSP4KHAM20B1A	SP4KHAM20B1A	BREAKER, 20 AMP	LAMARCHE MFG CO
DSSP4KHAM2B1A	SP4KHAM2B1A	2A BREAKER	LAMARCHE MFG CO
DSSP4KHAM30B1A	SP4KHAM30B1A	BREAKER, 30 AMP	LAMARCHE MFG CO
DSSP4KHAM40B1A	SP4KHAM40B1A	BREAKER, 40 AMP	LAMARCHE MFG CO
DSSP4KHAM50B1A	SP4KHAM50B1A	BREAKER, 50 AMP	LAMARCHE MFG CO
DSSP4KHAM5B1A	SP4KHAM5B1A	5A CIRCUIT BREAKERS	LAMARCHE MFG CO
DSSP4KHAM60B1A	SP4KHAM60B1A	60A BREAKER FOR A BPK PANEL	LAMARCHE MFG CO
DSSP4KHAM80B1A	SP4KHAM80B1A	80 AMP BREAKER	LAMARCHE MFG CO
DSSP4KLMDC100B1A	SP4KLMDC100B1A	LMDC BREAKER, 100A	LAMARCHE MFG CO
DSSP4KLMDC10B1A	SP4KLMDC10B1A	LMDC BREAKER,10A	LAMARCHE MFG CO
DSSP4KLMDC20B1A	SP4KLMDC20B1A	LMDC BREAKER, 20 AMP	LAMARCHE MFG CO
DSSP4KLMDC25B1A	SP4KLMDC25B1A	LMDC BREAKER, 25A	LAMARCHE MFG CO
DSSP4KLMDC30B1A	SP4KLMDC30B1A	LMDC BREAKER, 30 AMP	LAMARCHE MFG CO
DSSP4KLMDC50B1A	SP4KLMDC50B1A	LMDC BREAKER, 50A	LAMARCHE MFG CO
DSSP4KLMDC5B1A	SP4KLMDC5B1A	LMDC BREAKER, 5A	LAMARCHE MFG CO
DSSP4KLMDC60B1A	SP4KLMDC60B1A	LMDC BREAKER, 60A	LAMARCHE MFG CO
DSSP6927530211	SP6927-5302-11	2 WAY POWER DIVIDER, 698-2700 MHZ, 50 WATTS	RFI AMERICAS INC
DSSP74962430DIN	SP74962430DIN	RF COUPLER 30 DB INCL MOUNTING 746-960 MHZ	RFI AMERICAS INC
DSSP74964440DFF1RU	SP7496-4440-DDF1RU	ANT LINE COUPLER 740-960MHZ 40DB 4-PORTS SUIT APM748 AND APM8796	RFI AMERICAS INC
DSSP7496530211	SP7496-5302-11	TWO WAY SPLITTER, 746-960 MHZ, LOW POWER	RFI AMERICAS INC
DSSPD1100DLD	SPD-1100-DLD	SPD-1100-DLD RACK MOUNTING HIGH POWER RF LOAD 500 WATTS 139-96	DBSPECTRA
DSSPD1220R1	SPD-1220-R1	900 MHZ WINDOW FILTER W CELLULAR NOTCH, 896 - 901 MHZ	DBSPECTRA
DSSPD767	SPD-767	850-870MHZ 500W BRANCH COUPLER W 716 DIN CONNECTOR	DBSPECTRA
DSSPD984	SPD-984	UHF SPECIAL QUAD FILTER TO ACCOMM FREQ 450MHZ,460MHZ,470MHZ AND 490MHZ	DBSPECTRA
DSSPIKBPKR191	SPIIKBPKR191	COVER FOR 19 INCH BPK PANELS	LAMARCHE MFG CO
DSSPLITCVR	SPLITCVR	REAR COVER FOR SPLIT BUS BREAKER PANEL	LAMARCHE MFG CO
DSSPM200	SPM-200	REMOTE SITE MONITOR	NEWMAR
DSSPNFMALC	SP-NFM-AL-6	SIX PACK RF SAMPLE PORT FOR COMBINER LMPS	TRANSTECTOR SYSTEMS
DSSR42UB	SR42UB	ENCLOSURE, 42U STANDARD (BLACK) 24 IN. WIDTH 42 IN. DEPTH	TRIPP LITE MANUFACTU
DSSR42UBDP	SR42UBDP	ENCLOSURE, 42U RACK ENCLOSURE SERVER CABINET DEEP 3000LB LOAD CAPACITY	TRIPP LITE MANUFACTU
DSSRM252	SRM-25-2	2 SWITCHING POWER SUPPLIES ON 1 RACK MOUNT, PANEL, 13.8VDC, 25A	ASTRON CORP
DSSRM30M2	SRM-30M-2	RACK MOUNTED SWITCHING POWER SUPPLY	ASTRON CORP
DSSRSHELF4PHD	SRSHELF4PHD	SMARTRACK HEAVY DUTY FIXED SHELF	TRIPP LITE MANUFACTU

DSSS18	SS-18	POWER SUPPLY, SWITCHING 15 AMP	ASTRON CORP
DSSS18MT	SS-18MT	POWER SUPPLY SS-18MT	ASTRON CORP
DSSS18SMGTX	SS-18SM/GTX	POWER SUPPLY, SWITCHING	ASTRON CORP
DSSS18XPR5	SS-18XPR5	POWER SUPPLY, BASE STATION SWITCHING FOR XPR5500 MOBILE RADIOS 18 ICS	ASTRON CORP
DSSS18XTL	SS-18XTL	POWER SUPPLY, SS-18XTL	ASTRON CORP
DSSS25CDM	SS-25CDM	POWER SUPPLY	ASTRON CORP
DSSSDTF1012120NA	SSDTF1012-120-NA / 555374	MEDIA CONVERTER, TRANSITION POINT SYSTEM T1/E1-FBR, SM ST, 8KM	ANIXTER INC
DSSSH114	SSH-114	SSH-114 1-1/4" SNAP STAK HANGER 10PK	COMMSCOPE TECHNOLOGI
DSSSH1143	SSH-114-3	SSH1143 1-1/4IN, STACKABLE SNAP-IN HANGERS, 3 STACK, 10 PKG QTY	COMMSCOPE TECHNOLOGI
DSSSH12	SSH-12	SSH-12 1/2" SNAPSTAK HANGER 10PK	COMMSCOPE TECHNOLOGI
DSSSH124	SSH-12-4	SNAPSTAK HANGER 1/2IN CABLE 4-STACK,10EA	COMMSCOPE TECHNOLOGI
DSSSH158	SSH-158	SSH-158 1-5/8" SNAPSTAK HANGER 10PK	COMMSCOPE TECHNOLOGI
DSSSH1583	SSH-158-3	SSH-158-3 SNAPSTAK HANGER 1-5/8" CABLE 3-STACK	COMMSCOPE TECHNOLOGI
DSSSH78	SSH-78	SSH-78 7/8" SNAPSTAK HANGER 10PK	COMMSCOPE TECHNOLOGI
DSSSH784	SSH-78-4	SSH-78-4 SNAPSTAK HANGER 7/8" CABLE 4-STACK	COMMSCOPE TECHNOLOGI
DSST121HDBTU	ST121HDBTU	STARTECH HDMI OVER CAT5 HDBASET EXTENDER 295FT	CDW DIRECT LLC
DSSTS334	STS3-34	STS3-34, SNAP-IN TOWER STANDOFF ADAPTER 3-4 INCH	COMMSCOPE TECHNOLOGI
DSSU1000RTXL2UA	SU1000RTXL2UA	UPS, 1000 VA 2U RACK-MOUNT, TRIPP LITE	TRIPP LITE MANUFACTU
DSSU1500XL	SU1500XL	UPS, 1500VA SMART ONLINE TOWER EXTENDED RUN PURESINE 6 OUTLET	TRIPP LITE MANUFACTU
DSSU2200RTXL2UA	SU2200RTXL2UA	UPS 2200VA 1600W SMART ONLINE RACKMOUNT 110V/120V USB DB9 2URM	TRIPP LITE MANUFACTU
DSSU3000RTXL3U	SU3000RTXL3U	UPS 3000VA 2400W SMART ONLINE RACKMOUNT 110V / 120V USB DB9 3URM	TRIPP LITE MANUFACTU
DSSURTA2200RMXL2U	2084494 / MFG: SURTA2200RMXL2U	UPS, SMART-UPS ON-LINE,1600 WATTS 2200 VA INPUT 120V OUTPUT 120V 2RU	CDW DIRECT LLC
DSSURTD5000RMXLP3U	SURTD5000RMXLP3U	SMART-UPS RT 5000VA, 208V TO 208/120V APC SURTD5000RMXLP3U	ANIXTER INC
DSSURTD6000RMXLP3U	SURTD6000RMXLP3U	SMART-UPS RT 6000VA RM, 208V TO 208/120V APC SURTD6000RMXLP3U	ANIXTER INC
DSSV231HDMIUA	SV231HDMIUA	STARTECH 2 PORT USB HDMI KVM SWITCH	CDW DIRECT LLC
DSSV302HF2SNM	SV302-HF2SNM	CORNER REFLECTOR DIRECTIVE ANTENNA, 9.5 DBD GAIN, HD, 450-512 MHZ	SINCLAIR TECHNOLOGIE
DSSY203SF12SNMC	SY203-SF12SNM(C)	VHF YAGI DIRECTIONAL, 5.5 DBD GAIN, CENTER MOUNT, 149-156 MHZ BW	SINCLAIR TECHNOLOGIE
DSSY203SF3SNME	SY203SF3SNME	ANTENNA, 148-154 MHZ, NM END MOUNT	SINCLAIR TECHNOLOGIE
DSSY203SF4SNME	SY203SF4SNME	YAGI DIRECTIONAL ANTENNA, 5.5 DBD GAIN, 152-159 MHZ, END MOUNT	SINCLAIR TECHNOLOGIE
DSSY203SF5SNMC	SY203-SF5SNM(C)	YAGI DIRECTIONAL, 5.5 DBD, CENTER MOUNT, BLACK ANODIZED, 157-164 MHZ	SINCLAIR TECHNOLOGIE
DSSY203SF5SNMCABK	SY203-SF5SNM(C-ABK)	YAGI DIRECTIONAL, 5.5 DBD, CENTER MOUNT, BLACK ANODIZED, 157-164 MHZ	SINCLAIR TECHNOLOGIE
DSSY203SF5SNMEABK	SY203-SF5SNM(E-ABK)	YAGI DIRECTIONAL, 5.5 DBD, END MONT , BLACK ANODIZED, 157-164 MHZ	SINCLAIR TECHNOLOGIE
DSSY2062SF2SNME	SY2062-SF2SNM(E)	YAGI DIRECTIONAL, DUAL ARRAY, 12 DBD, 152-159 MHZ, EXT BOOM	SINCLAIR TECHNOLOGIE
DSSY206SF2SNME	SY206-SF2SNM(E)	YAGI 152-159 MHZ, 9.5 DBD GAIN, EXTENDED BOOM	SINCLAIR TECHNOLOGIE
DSSY250HF2SNMU	SY250-HF2SNM(U)	YAGI DIRECTIONAL ANTENNA 8 DBD GAIN BROADBAND 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSY250SF2SDFE	SY250-SF2SDF(E)	YAGI DIRECTIONAL, EXTEND BOOM FOR END MOUNT, 7 DBD, 138-174 MHZ, DIN	SINCLAIR TECHNOLOGIE
DSSY250SF2SNMC	SY250-SF2SNM(C)	YAGI DIRECTIONAL ANTENNA, 7 DBD GAIN, BROAD BAND, 138-174MHZ CENTER MT	SINCLAIR TECHNOLOGIE
DSSY250SF2SNME	SY250-SF2SNM(E)	YAGI DIRECTIONAL ANTENNA, 7 DBD GAIN, EXTENDED BOOM, 138-174 MHZ	SINCLAIR TECHNOLOGIE
DSSY303SF1SNMABK	SY303-SF1SNM(ABK)	YAGI DIRECTIONAL ANTENNA, 6 DBD, 403-430 MHZ, BLK ANODIZED N-M	SINCLAIR TECHNOLOGIE
DSSY303SF2SNF	SY303-SF2SNF	YAGI DIRECTIONAL 6.5 DBD GAIN, 450-475 MHZ, CLEAR CHROMATE CONVERSION	SINCLAIR TECHNOLOGIE
DSSY3074SF8SNM	SY3074-SF8SNM	YAGI DIRECTIONAL ARRAY, 15 DBD, BLACK ANODIZED, QUAD, 380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSY307SF1SNM	SY307-SF1SNM	YAGI DIRECTIONAL ANTENNA, 10 DBD GAIN, BLACK ANODIZED, 403-430 MHZ	SINCLAIR TECHNOLOGIE
DSSY307SF2SNMABK	SY307-SF2SNM(ABK)	YAGI DIRECTIONAL, 10 DBD, BLACK ANODIZED, 430-450 MHZ	SINCLAIR TECHNOLOGIE

DSSY307SF3SNMABK	SY307-SF3SNM(ABK)	YAGI DIR ANTENNA BLACK ANODIZED 10 DBD 450-470 MHZ	SINCLAIR TECHNOLOGIE
DSSY307SF8SNMABK	SY307-SF8SNM(ABK)	YAGI DIRECTIONAL, 10 DBD, BLACK ANODIZED, 380-400 MHZ	SINCLAIR TECHNOLOGIE
DSSY350SFXSNF	SY350-SFXSNF	YAGI DIRECTIONAL ANTENNA, 7 DBD GAIN, BROAD BAND, 406-512 MHZ NF	SINCLAIR TECHNOLOGIE
DSSY350SFXSNM	SY350-SFXSNM	YAGI DIRECTIONAL ANT, 7 DBD GAIN BROADBAND 406-512 MHZ	SINCLAIR TECHNOLOGIE
DSSY406RHF3SNM	SY406R-HF3SNM	YAGI DIRECTIONAL, 10 DBD, RADOME, HD, 895-960 MHZ	SINCLAIR TECHNOLOGIE
DSSY406SF1SNFABK	SY406-SF1SNF(ABK)	YAGI DIRECTIONAL 10DBD, BLACK ANODIZED, 806-870MHZ, N FEMALE CONNECTOR	SINCLAIR TECHNOLOGIE
DSSY406SF7SNF	SY406-SF7SNF(ABK)	YAGI DIRECTIONAL, 10 DBD, BLACK ANODIZED, 746-806 MHZ	SINCLAIR TECHNOLOGIE
DSSY407SF2SNMABK	SY407-SF2SNM(ABK)	YAGI DIRECTIONAL ANTENNA, 10 DBD GAIN, BLACK ANODIZED, 746-869	SINCLAIR TECHNOLOGIE
DSSY450RHF1SNM	SY450R-HF1SNM	YAGI DIRECTIONAL ANTENNA, 6.5 DBD GAIN, 746-896 MHZ, HEAVY DUTY	SINCLAIR TECHNOLOGIE
DSSY450SF1SNM	SY450-SF1SNM	YAGI DIRECTIONAL ANTENNA, 6.5 DBD GAIN, 746-896 MHZ	SINCLAIR TECHNOLOGIE
DSSY450SF2SNM	SY450-SF2SNM	YAGI DIRECTIONAL, 6.5 DBD, 806-960 MHZ	SINCLAIR TECHNOLOGIE
DSSY459SF1SNM	SY459-SF1SNM(ABK)	BROADBAND YAGI, 10 DBD, ABK, 698-806 MHZ	SINCLAIR TECHNOLOGIE
DSTA798201001000	TA7982-0100-10-00	TTA01, FULLY REDUNDANT AMP, 796-824 MHZ (TTA ONLY)	RFI AMERICAS INC
DSTA798203001000	TA7982-0300-10-00	TTA03, SINGLE HIGH GAIN AMP, 796-824 MHZ (TTA ONLY)	RFI AMERICAS INC
DSTAKRAK1	TAKRAK1	RACK 7 IN CAV VHF 42X32X30 INCHES	SINCLAIR TECHNOLOGIE
DSTBP74	TBP74	ION-B BLANK PANEL 4HE X 7TE	COMMSCOPE TECHNOLOGI
DSTCMNFN15	TC-MNFN-1.5	TEST CABLE N(M)-N(F) 1.5M ARMORED PHASE STABLE DC-6000MHZ	BIRD ELECTRONIC CORP
DSTCMNMN15	TC-MNMN-1.5	TEST CABLE N(M)-N(M),1.5M ARMORED PHASE STABLE DC-6000MHZ	BIRD ELECTRONIC CORP
DSTCMNMN30	TC-MNMN-3.0	SH-362S SIGNAL HAWK TEST CABLE M/M-N, 3.0 M	BIRD ELECTRONIC CORP
DSTCS122425	TCS-12/24-25	CABLE, PT/PM TEMP. SENSOR - 25 FT CABLE	NEWMAR
DSTCS122440	TCS-12/24-40	CABLE, PT/PM TEMP. SENSOR - 40 FT CABLE	NEWMAR
DSTCSHWR	TCS-HWR	SURGE PROTECTOR, HARDWIRED, TVSS SAD, TWO STAGE 120V EDCO TCS-HW SERIE	EMERSON NETWORK POWE
DSTEL12125	TEL12125	BATTERY, 12 V, C & D TEL 12-125	ELTEK INC
DSTEL1245	TEL1245	BATTERY, 12V 45AH	ELTEK INC
DSTEL1270	TEL1270	BATTERY, 12V 70AH	ELTEK INC
DSTFAH708014	TFAH70/80-14	ION -B LMR700/LMR800, VAC,SC-APC,N-F,R2E	COMMSCOPE TECHNOLOGI
DSTFAHES708017	TFAH-ES70/80-17	ION B HIGH POWER REMOTE UNIT FOR LMR 700 - 800 BAND HI PWR	COMMSCOPE TECHNOLOGI
DSTFAHUS7B10014	TFAH-US7B/100-14	CELLULAR, LMR, AWS AND PCS 1900 HI PWR REMOTE, AC	COMMSCOPE TECHNOLOGI
DSTFAN5014	TFAN50-14	450MHZ ION B UHF REMOTE	COMMSCOPE TECHNOLOGI
DSTFLN25044	TFLN2504/4	ION B MASTER OPT. TRX, 700-2700 MHZ, SC-APC	COMMSCOPE TECHNOLOGI
DSTFLN40044	TFLN4004/4	ION B MASTER OPT. TRX, 400 MHZ, SC-APC	COMMSCOPE TECHNOLOGI
DSTGBIA14448P	TGBIA14448P	GROUND BAR,1/4X4X48 TIN GRD BAR W/ ANGLE	HARGER INC
DSTLA4100	TLA4100	698-5800MHZ, 5.0DBI, GROUND IND. TRANSIT ANTENNA - PLASTIC FIN RADOME	RFI AMERICAS INC
DSTLA4200	TLA4200	698-5800MHZ, 5.0DBI, GROUND IND. TRANSIT ANT, PLASTIC FIN RADOME, GPS	RFI AMERICAS INC
DSTLCN2W	TLCN2-W	ION-B WIDEBAND TWO-WAY SPLITTER/COMBINER, 380-2700 MHZ	COMMSCOPE TECHNOLOGI
DSTLCN4W	TLCN4-W	ION B4 WAY, 350-2700 MHZ, SMA-F	COMMSCOPE TECHNOLOGI
DSTLCN8W	TLCN8-W	ION B 8 WAY COMBINER, 350-2700 MHZ	COMMSCOPE TECHNOLOGI
DSTLM615NC20	TLM615NC20	POWER STRIP, 6 OUTLET, 15 FT CORD, 20 AMP, METAL RECEPTACLE	TRIPP LITE MANUFACTU
DSTLM615NCRA	TLM615NCRA	POWER STRIP, 6 OUTLET, 15 FT CORD, TURNED 90 DEGREES	TRIPP LITE MANUFACTU
DSTM8	TM8	TRUNK LID MOUNT, RG58A/U, NO CONNECTOR	LAIRD TECHNOLOGIES
DSTOSLNF50A8	TOSLNF50A-8	COAXIAL CALIBRATION KIT, TYPE N(F), DC TO 8 GHZ, 50 OHM	ANRITSU COMPANY
DSTPG23872	TP-G238-72	TP-G238-72, UNIV. TRIPOD MOUNT W/ 72" X 2-3/8" P	COMMSCOPE TECHNOLOGI
DSTPL	TPL	TRUNK LID MOUNT, RG58/U, MINI UHF	PCTEL INC

DSTPL600	TPL600	FUSE, TPL STYLE, 600AMP	ELTEK INC
DSTPL800	TPL800	FUSE, TPL STYLE, 800AMP	ELTEK INC
DSTPM230BRK1	TPM230BRK1	DC POWER SYSTEM, 48V 60ADC COMPACT, TO BE MTD IN EXISTING 19IN RACK	LAMARCHE MFG CO
DSTPOI851719E	TPOI85/17/19E	ION-B CELL 850/AWS/PCS EXT ACTIVE INTERFACE	COMMSCOPE TECHNOLOGI
DSTPOIP708092	TPOI-P70/80/92	ION-B LMR 700/LMR800/LMR900 PASSIVE INTERFACE	COMMSCOPE TECHNOLOGI
DSTPRN34	TPRN34	ION BRITECELL - NEG SUPPLY -72 TO -36 VDC - 12 SLOTS (1HE X 7TE)-MIN 2	COMMSCOPE TECHNOLOGI
DSTPRN64	TPRN64	ION-B SUBRACK,+12VDC,ACTIVE BP,19INCH X 4HE	COMMSCOPE TECHNOLOGI
DSTR7571059102	TR7571059102	FUSE PANEL, GMT 10/10 POSITION, -/+12/24VDC 1U, TRIMM	WELDY LAMONT GROUP I
DSTRAB4703	TRAB4703	470-490 PHANTOM ANTENNA, BLACK	LAIRD TECHNOLOGIES
DSTRBODEMO3	TRBO-DEMO-3	2016 DEMO KIT CASE	DBSPECTRA
DSTRMNM1W	TRM-NM-1W	TRM-NM-1W, TERMINATION N-MALE, 1 WATT	TRILOGY COMMUNICATIO
DSTRSN131	TRSN13-1	ION-B SERIES CENTRALPWR SUPPLY 13 OUT - 85:264 VAC / -48 VDC - (MIN 5)	COMMSCOPE TECHNOLOGI
DSTRSPM1	TRSPM-1	ION-B SERIES CENTRALPWR SUPPLY MOD 600W- 85:264 VAC / -48 VDC	COMMSCOPE TECHNOLOGI
DSTSJ100BT	1101-620	RECOMMENDED REPLACEMENT FOR ETHERNET SURGE PROTECTION IS DS1101990	TRANSTECTOR SYSTEMS
DSTSJ48CLT	1101-300-1	SPD, RJ-45 OR HARDWIRE CONNECTED FOR T1/E1, PROTECTS 4 WIRES	TRANSTECTOR SYSTEMS
DSTSJ48CLTGT	1101-300-2	PRIMARY ANS SECONDARY TELCO LINE PROTECTION	TRANSTECTOR SYSTEMS
DSTSJADP	1101-747	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	TRANSTECTOR SYSTEMS
DSTSJX6	1101-772-A	SIX POSITION RJ 45 IN/OUT MODULE, 18V PK, PROTECTS PINS 1-2, 4-5	TRANSTECTOR SYSTEMS
DSTSUN4	TSUN4/LNX	ION-B PLUG IN SUPERVISION UNIT	COMMSCOPE TECHNOLOGI
DSTSXDCDFM	POLYPHASER TSXDC-DFM	RF SPD, 698 MHZ-2.7 GHZ, 60VDC PASS, DIN, MALE/FEM PIM/PIP RATED, ASIG	TRANSTECTOR SYSTEMS
DSTSXDFFBF	POLYPHASER TSX-DFF-BF	RF SPD, 698-2700MHZ DC BLOCK HI PWR, DIN FEM/FEM BI-DIR W/ BRACKET	TRANSTECTOR SYSTEMS
DSTSXDFMBF	POLYPHASER TSX-DFM-BF	RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, DIN FEM/MALE BI-DIR W/ BRACKET	TRANSTECTOR SYSTEMS
DSTSXNFFPBF	POLYPHASER TSX-NFF-P + BF	RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, N FEM/FEMALE BIDIRECTIONAL W/BF	TRANSTECTOR SYSTEMS
DSTSXNFM PBF	POLYPHASER TSX-NFM-P + BFN	RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, NF/MALE BIDIRECTIONAL PIM W/BF	TRANSTECTOR SYSTEMS
DSTT05326AA	R8-3Y / R8-5Y	DELTA PRICING FOR CHANGING 3 YR SERVICE PLAN TO 5 YRS	FREEDOM COMMUNICATIO
DSTT05348AA	390XOPT206	P25 CONTROL CHANNEL LOGGER / 390XOPT206 / R2081A	AEROFLEX WICHITA INC
DSTT05350AA	390XOPT209	KVL KEYLOADER / 390XOPT209 / R2084A	AEROFLEX WICHITA INC
DSTT05353AA	390XOPT213	UNIT TO UNIT CALL/ 390XOPT213	AEROFLEX WICHITA INC
DSTT05362AA	390XOPT260	P25 PERFORMANCE TEST TRIGGERS / 390XOPT260	AEROFLEX WICHITA INC
DSTT05371AA	390XOPT600	XTS-5000 AUTOTEST AND ALIGNMENT / 390XOPT600 / R2131A	AEROFLEX WICHITA INC
DSTT05372AA	390XOPT601	XTS-3000 AUTOTEST AND ALIGNMENT / 390XOPT601 / R2132A	AEROFLEX WICHITA INC
DSTT05373AA	390XOPT602	XTL-2500, XTL-5000 POWER ALIGNMENT FOR AUTOTEST II / 390XOPT602	AEROFLEX WICHITA INC
DSTT4W24MCF1	TT4W24MCF1	MOD 4 WIRE JACK FIELD	SWITCHCRAFT INC
DSTT6W48MCF1	TT6W48MCF1	TTJAX .173 CONNECTORIZED 6-WIRE JACKFIELD, 48 CIRCUITS, HINGED FRONT	SWITCHCRAFT INC
DSTUSXDFF	POLYPHASER TUSX-DFF	RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN FEMALE/FEMALE BI-DIRECTIONA	TRANSTECTOR SYSTEMS
DSTUSXDFM	POLYPHASER TUSX-DFM	RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN MALE/FEMALE BI-DIRECTIONAL	TRANSTECTOR SYSTEMS
DSTUSXNFFBFN	POLYPHASER TUSX-NFF + BFN	DC BLOCK HIGH POWER, 300 TO 1200MHZ N FEMALE ANT W/ BFN	TRANSTECTOR SYSTEMS
DSTUSXNFM	POLYPHASER TUSX-NFM	DC BLOCK HIGH POWER, 300 TO 1400MHZ N MALE ANT	TRANSTECTOR SYSTEMS
DSU219000R	U219-000-R	USB TO PS/2 ADAPTER USB A MALE 2X MINI-DIN6 FEMAIL PLUG AND PLAY	TRIPP LITE MANUFACTU
DSU225004R	U225-004-R	4 PORT DESKTOP USB 2.0 USB 1.1 HUB 480MBPS 4 FT USB 2.0 HUB CABLE	TRIPP LITE MANUFACTU
DSU2MS	U2MS	MID ATLANTIC 2U, 3 - 1/2 IN MID MOUNT BATTERY RACKSHELF	ANIXTER INC
DSUA3	UA-3	UA-3 UNIVERSAL ANGLE ADAPTOR KIT, KIT OF TEN	COMMSCOPE TECHNOLOGI
DSUBC61811410	UBC61811/410	UNIT BONDING CONDUCTOR 18 JUMPER	HARGER INC

DSUBC62411410	UBC62411/410	UNIT BONDING CONDUCTOR 24 JUMPER ONE ? INCH TERMINAL, ONE #10 TERMINAL	HARGER INC
DSUC1	UC-1	ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI AMERICAS INC
DSUC114	UC-114	ANTENNA CLAMP 60 TO 115MM	RFI AMERICAS INC
DSUC1142	UC1142	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI AMERICAS INC
DSUC1143	UC1143	PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI AMERICAS INC
DSUC12	UC12	ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI AMERICAS INC
DSUC13	UC13	ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI AMERICAS INC
DSUCR1	UCR-1	ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI AMERICAS INC
DSUCR2	UCR-2	ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI AMERICAS INC
DSUFP5	UFP-5	FUSE PANEL, UNITY GMT FUSE PANEL	NEWMAR
DSUG1215815B4T	UG12158-15B4-T	UG12158-15B4-T, UNVRSL GRD KIT 1/2"-1 5/8 W/2HOLE	COMMSCOPE TECHNOLOGI
DSUGBADIN36	UGBADIN36	GROUND BAR ASSEMBLY UNIVERSAL	COMMSCOPE TECHNOLOGI
DSUGBKIT0210	UGBKIT-0210	UGBKIT-0210 UNIVERSAL GROUND BAR 2 X 10" W/HRDWR	COMMSCOPE TECHNOLOGI
DSUGBKIT2	UGBKIT-2	UGBKIT-2 GROUND BAR 1/4 X 2 1/2 X 12 1/2	COMMSCOPE TECHNOLOGI
DSUGF10	UGF-10	FUSE GMT 10 AMP	NEWMAR
DSUGF3	UGF-3	FUSE GMT 3 AMP	NEWMAR
DSUGF5	UGF-5	FUSE GMT 5 AMP	NEWMAR
DSUGF75	UGF-7.5	FUSE GMT 7.5 AMP	NEWMAR
DSUL800CB15	UL800CB-15	POWER STRIP, 120V 5-15R 10 OUTLET METAL 15 FT CORD 5-15P WABER	TRIPP LITE MANUFACTU
DSULM100	ULM-100	MONITOR, UNITY LOW VOLTAGE MONITOR	NEWMAR
DSUNITKIT2CC	UNI-KIT-2CC	1/4 INCH TO 2-1/8 INCH RF CABLE GROUNDING KIT	TRANSTECTOR SYSTEMS
DSUNV	UNV	LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI AMERICAS INC
DSUR483	UR48-3	UNITY RECTIFIER	NEWMAR
DSURS	URS	UNITY RECTIFIER SHELF	NEWMAR
DSUSB2HAB3	USB2HAB3	STARTECH 3FT USB 2.0 CERTIFIED A TO B CABLE	CDW DIRECT LLC
DSUSB2HAB6	USB2HAB6	STARTECH 6FT USB 2.0 A TO B CABLE	CDW DIRECT LLC
DSUT3302	UT3302	ETHERNET TUNNEL ENCRYPTED UT3302	ANIXTER INC
DSUT6602	UT6602	ETHERNET TUNNEL ENCRYPTED UT6602	ANIXTER INC
DSV1000BVC	V1000B-VC	RECTIFIER, 24V, 40A W/CLEI, 1120W, 40A OUTPUT FAN COOLED	ELTEK INC
DSV1500BVC	V1500B-VC	RECTIFIER 24V, 60A OUTPUT	ELTEK INC
DSV2500AVC	V2500A-VC	RECTIFIER, 48V, 50A	ELTEK INC
DSVBLANKVC	VBLANK-VC	BLANK V-SERIES RECTIFIER CHASSIS	ELTEK INC
DSVHF50DMPGR	VHF50D-MA-PGR	RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	TRANSTECTOR SYSTEMS
DSVHF50DPGR	VHF50D-PGR	SPD, 100 TO 512MHZ, DIN FEMALE/FEMALE CONNECTOR, PIM RATED	TRANSTECTOR SYSTEMS
DSVHF50HN	POLYPHASER VHF50HN	SPD, SINGLE TRANSMITTER ONLY, 750W RF, 100-512MHZ DC BLOCK NFF	TRANSTECTOR SYSTEMS
DSVHF50HNMA	POLYPHASER VHF50HN-MA	COMBINER/HIGH POWER FILTER (VHF50HNMA)	TRANSTECTOR SYSTEMS
DSVPR30	1101-726	CONSOLE OVERVOLTAGE DEVICE	TRANSTECTOR SYSTEMS
DSVPR3MCC	1101-748	PROTECTION MODULE, OPERATOR STATIC EME PROTECTOR W/ DB15 MF CONNECTOR	TRANSTECTOR SYSTEMS
DSVS35M	VS-35M	POWER SUPPLY W/ VOLT AND AMP METER	ASTRON CORP
DSVSTRUTP3KIT	VSTRUT-P3KIT	VSTRUT-P3KIT INBOARD SDE STRUT KT FOR 4FT AND 6FT MWAVE AND VALULN ANT	COMMSCOPE TECHNOLOGI
DSVUF50NHPMA	POLYPHASER VUF50NHP-MA	RF SPD, DC BLOCK .5HZ TO 1000HZ HIGH POWER, NMNF FOR AM/FM APPLIC	TRANSTECTOR SYSTEMS
DSW3500203	W3500/203	EXTENDED STANDARD WARRANTY 36 MONTHS	AEROFLEX WICHITA INC
DSW3500203C	W3500/203C	EXTENDED STANDARD WARRANTY 36 MONTHS WITH SCHED CALIBRATION	AEROFLEX WICHITA INC

DSW3500205	W3500/205	EXTENDED STANDARD WARRANTY 60 MONTHS	AEROFLEX WICHITA INC
DSW3500205C	W3500/205C	EXTENDED STANDARD WARRANTY 60 MONTHS WITH SCHED CALIBRATION	AEROFLEX WICHITA INC
DSW8800203	W8800/203	EXTENDED STANDARD WARRANTY 36 MONTHS	AEROFLEX WICHITA INC
DSW8800203C	W8800/203C	EXTENDED STANDARD WARRANTY 36 MONTHS WITH CALIBRATION	AEROFLEX WICHITA INC
DSW8800205	W8800/205	EXTENDED STANDARD WARRANTY 60 MONTHS	AEROFLEX WICHITA INC
DSW8800205C	W8800/205C	EXTENDED STANDARD WARRANTY 60 MONTHS WITH CALIBRATION	AEROFLEX WICHITA INC
DSWB1811B	WB1811B	PTP SER EMC CABLE GLAND (GROUNDING)	CAMBIUM NETWORKS LIM
DSWB1812	WB1812	GROUNDING LUG KIT	CAMBIUM NETWORKS LIM
DSWB2289A	WB2289A	PTP SER EMC CABLE GLAND (GROUNDING)	CAMBIUM NETWORKS LIM
DSWB2312H	WB2312H	PTP600 SERIES MULTI-MODE OPTICAL CONVERSION KIT (PER END)	CAMBIUM NETWORKS LIM
DSWB2402A	WB2402A	PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - END ONLY	CAMBIUM NETWORKS LIM
DSWB2511A	WB2511A	PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - LINK	CAMBIUM NETWORKS LIM
DSWB2519A	WB2519A	PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - LINK	CAMBIUM NETWORKS LIM
DSWB2607A	WB2607A	PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - END ONLY	CAMBIUM NETWORKS LIM
DSWB2907H	WB2907H	LPU END KIT PTP 600 (2 KITS REQUIRED PER LINK)	CAMBIUM NETWORKS LIM
DSWB2978H	WB2978H	LPU END KIT PTP 250/300/500 (2 KITS REQUIRED PER LINK)	CAMBIUM NETWORKS LIM
DSWB3025H	WB3025H	PTP300/500/600 PIDU WITH US LEAD	CAMBIUM NETWORKS LIM
DSWB3127	WB3127	PTP 500 SERIES LITE TO FULL UPGRADE KEY - LINK	CAMBIUM NETWORKS LIM
DSWB3175A	WB3175A	1000 FT REEL OUTDOOR COPPER CLAD CAT5E	CAMBIUM NETWORKS LIM
DSWB3176A	WB3176A	328 FT (100 M) REEL OUTDOOR COPPER CLAD CAT5E	CAMBIUM NETWORKS LIM
DSWB3177B	WB3177B	TYCO/AMP, MOD PLUG RJ45 UNSCREENED, 100 PK	CAMBIUM NETWORKS LIM
DSWB3211A	WB3211A	TYCO/AMP CRIMP TOOL	CAMBIUM NETWORKS LIM
DSWB3262	WB3262	PTP 49600 SOFTWARE KEY 5 - 10 MHZ LINK	CAMBIUM NETWORKS LIM
DSWB3263	WB3263	PTP 49600 SOFTWARE KEY X -20 MHZ LINK	CAMBIUM NETWORKS LIM
DSWB3267	WB3267	PTP 49600 SOFTWARE KEY 5 - 10 MHZ END ONLY	CAMBIUM NETWORKS LIM
DSWB3268	WB3268	PTP 49600 SOFTWARE KEY X -20 MHZ END ONLY	CAMBIUM NETWORKS LIM
DSWB3379HH	WB3379HH	PTP 48600 FULL CONNECTORISED - LINK COMPLETE	CAMBIUM NETWORKS LIM
DSWB3380HH	WB3380HH	PTP 48600 LITE INTEGRATED LINK COMPLETE	CAMBIUM NETWORKS LIM
DSWB3381HH	WB3381HH	PTP 48600 LITE CONNECTORIZED LINK COMPLETE	CAMBIUM NETWORKS LIM
DSWB3382HH	WB3382HH	PTP 48600 FULL INTEGRATED - END COMPLETE	CAMBIUM NETWORKS LIM
DSWB3383HH	WB3383HH	PTP 48600 FULL CONNECTORISED - END COMPLETE	CAMBIUM NETWORKS LIM
DSWB3384HH	WB3384HH	PTP 48600 LITE INTEGRATED - END UNIT	CAMBIUM NETWORKS LIM
DSWB3385HH	WB3385HH	PTP 48600 LITE CONNECTORIZED - END UNIT	CAMBIUM NETWORKS LIM
DSWB3409	WB3409	PTP600 SERIES FIPS UPGRADE - LINK	CAMBIUM NETWORKS LIM
DSWB3412	WB3412	PTP600 SERIES FIPS INCLUDING 128BIT AES - END ONLY	CAMBIUM NETWORKS LIM
DSWB3413	WB3413	PTP600 SERIES FIPS INCLUDING 256BIT AES - LINK	CAMBIUM NETWORKS LIM
DSWB3414	WB3414	PTP600 SERIES FIPS 140-2 INCLUDING 256BIT AES - END ONLY	CAMBIUM NETWORKS LIM
DSWB3480HH	WB3480HH	PTP800 MODEM 1000/100BASET WITH CAPACITY CAP 10 MBPS	CAMBIUM NETWORKS LIM
DSWB3486H	WB3486H	PTP 800 CMU / PTP-SYNC 19INCH RACK MOUNT INSTALLATION KIT	CAMBIUM NETWORKS LIM
DSWB3538	WB3538	PTP800 MODEM CAPACITY CAP - 20 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3539	WB3539	PTP800 MODEM CAPACITY CAP - 30 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3541	WB3541	PTP800 MODEM CAPACITY CAP - 50 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3542	WB3542	PTP800 MODEM CAPACITY CAP - 100 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM

DSWB3543	WB3543	PTP800 MODEM CAPACITY CAP - 150 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3544	WB3544	PTP800 MODEM CAPACITY CAP - 200 MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3545	WB3545	PTP800 MODEM CAPACITY CAP - 300MBPS (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3546	WB3546	PTP800 MODEM CAPACITY CAP - FULL CAPACITY (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3547	WB3547	PTP800 MODEM CAPACITY CAP UPGRADE FROM 20 -30 MBPS KEY (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3548	WB3548	PTP800 MODEM CAPACITY CAP UPGRADE FROM 30-40 MBPS KEY (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3550	WB3550	PTP800 MODEM CAPACITY CAP UPGRADE FROM 50-100 MBPS KEY (PER UNIT)	CAMBIUM NETWORKS LIM
DSWB3555	WB3555	PTP 800 SERIES AES LICENCE KEY 128BIT - END ONLY	CAMBIUM NETWORKS LIM
DSWB3556	WB3556	PTP 800 SERIES AES LICENCE KEY 256BIT - END ONLY	CAMBIUM NETWORKS LIM
DSWB3584	WB3584	PTP 300 SERIES TO PTP500 LITE UPGRADE KEY - LINK	CAMBIUM NETWORKS LIM
DSWB3585	WB3585	PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - LINK	CAMBIUM NETWORKS LIM
DSWB3607	WB3607	PTP 600 SERIES GROUP ACCESS UPGRADE KEY - LINK	CAMBIUM NETWORKS LIM
DSWB3608	WB3608	PTP 600 SERIES GROUP ACCESS UPGRADE KEY - END	CAMBIUM NETWORKS LIM
DSWB3611A	WB3611H	DUAL POLE 4.5 GHZ , 4X GROUP ACCESS KEYS	CAMBIUM NETWORKS LIM
DSWB3616A	WB3616H	COAXIAL CABLE INSTALLATION ASSEMBLY KITS (W/O SURGE ARRESTOR)	CAMBIUM NETWORKS LIM
DSWB3618A	WB3618A	MAINS LEAD- US 3PIN TO C5 (PTP800 AC-DC PSU)	CAMBIUM NETWORKS LIM
DSWB3620A	WB3620A	MAINS LEAD- EU WITH DUAL EARTH TO C5 (PTP800 AC-DC PSU)	CAMBIUM NETWORKS LIM
DSWB3622A	WB3622A	AC-DC POWER SUPPLY CONVERTOR (NO LEAD CABLE INCLUDED)	CAMBIUM NETWORKS LIM
DSWB3657A	WB3657A	LPU END KIT PTP800 (1 KIT REQUIRED PER COAXIAL CABLE)	CAMBIUM NETWORKS LIM
DSWB3659	WB3659	FCC M/W FREQ COORDINATION SERVICE	CAMBIUM NETWORKS LIM
DSWB3665HH	WB3665HH	PTP-SYNC, COMPLETE PACKED UNIT	CAMBIUM NETWORKS LIM
DSWB3806H	WB3806H	1+1 OPTICAL-Y SPLITTER KIT PER END (INC SFP MODULES - 850NM)	CAMBIUM NETWORKS LIM
DSWB3881	WB3881	PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - END	CAMBIUM NETWORKS LIM
DSWB3961H	WB3961H	PTP-SYNC TRIMBLE ADAPTER CABLE	CAMBIUM NETWORKS LIM
DSWB4113	WB4113	FCC M/W FREQ PROTECTION SERVICE - 5 ADDITIONAL YR	CAMBIUM NETWORKS LIM
DSWB4114	WB4114	FCC M/W FREQ PROTECTION SERVICE - 10 ADDITIONAL YR	CAMBIUM NETWORKS LIM
DSWB4141HH	WB4141HH	TRIMBLE ACUTIME GPS / ADAPTER CABLE KIT	CAMBIUM NETWORKS LIM
DSWB4149	WB4149	PTP600 SERIES UC-APL INCLUDING 256BIT AES AND FIPS - LINK	CAMBIUM NETWORKS LIM
DSWBBS	WB-BS	BASE SHOE FOR WAVEGUIDE BRIDGE KITS	COMMSCOPE TECHNOLOGI
DSWBCY110	WB-CY110	SAFETY GRATED WAVEGUIDE BRIDGE CHANNEL, 12 IN X 10 FT	COMMSCOPE TECHNOLOGI
DSWBK0510B	WB-K0510-B	5IN X 10FT SAFTEY GRATED WAVEGUIDE BRIDGE KIT, BURIAL	COMMSCOPE TECHNOLOGI
DSWBK110B	WB-K110-B	WAVEGUIDE BRIDGEKIT 12IN WIDE,3RUNG BP	COMMSCOPE TECHNOLOGI
DSWBK210B	WB-K210-B	GRATED ICE BRIDGE KIT (10FTX24IN), 13FT-4IN BURIAL PIPE	COMMSCOPE TECHNOLOGI
DSWBLB123	WB-LB12-3	BRACKET, 12IN WAVEGUIDE BRIDGESUPPRT	COMMSCOPE TECHNOLOGI
DSWGB463	WGB4-63	WAVEGUIDE BOOT	COMMSCOPE TECHNOLOGI
DSWGB490	WGB4-90	WGB4-90, BOOT ASSEMBLY, 4 IN, FOR ELLIPTICAL WAVEGUIDE 90	COMMSCOPE TECHNOLOGI
DSWGPGSG203C	WGPGSG/203C	EXTENDED STANDARD WARRANTY 36 MONTHS WITH SCHEDULED CALIBRATION	AEROFLEX WICHITA INC
DSWGPGSG205C	WGPGSG/205C	EXTENDED STANDARD WARRANTY 60 MONTHS WITH SCHEDULED CALIBRATION	AEROFLEX WICHITA INC
DSWKU	WK-U	WK-U, UNIVERSAL WEATHERPROOFING KIT	TRILOGY COMMUNICATIO
DSWL030017750I	WL030017750I	BREAKER, 20 AMP TRIMM	WELDY LAMONT GROUP I
DSWL11W	WL11W	24 FT TEMPERATURE PROBE FOR USE WITH LMHF EQUIPMENT	LAMARCHE MFG CO
DSWL18629209015	WL18629209015	STEEL FLOOR LOADING PLATE FOR A 90G15 BATTERY	WELDY LAMONT GROUP I
DSWL1GM105F	WL1GM105F	BATTERY, 12 VOLT 105 AH GNB	WELDY LAMONT GROUP I

DSWL1GM125F	WL1GM125F	BATTERY, 125 AH 12 V VALVE REGULATED FRONT CONNECTED	WELDY LAMONT GROUP I
DSWL1GM155F	WL1GM155F	BATTERY, 155 AH 12 V	WELDY LAMONT GROUP I
DSWL1GM70	WL1GM70	BATTERY, 12 V, 70 AH TOP TERMINATING	WELDY LAMONT GROUP I
DSWL1NSB100FT	WL1NSB100FT	12V, 100AH, FRONT TERMINAL BATTERY	WELDY LAMONT GROUP I
DSWL1NSB125TT	WL1NSB125TT	BATTERY, 12V, 125AH NORTHSTAR BATTERY TOP TERMINATING	WELDY LAMONT GROUP I
DSWL1SLA1105	WL1SLA1105	BATTERY, 12V, 12AH, POWER PATROL SLA 1105	WELDY LAMONT GROUP I
DSWL1TEL12125	WL1TEL12125	BATTERY, 12V 125 AH C&D	WELDY LAMONT GROUP I
DSWL2GM40	WL2GM40	BATTERY, 40 AH 24 VDC STRING	WELDY LAMONT GROUP I
DSWL2NSB100FT	WL2NSB100FT	24V STRING, 100AH, FRONT TERMINAL BATTERY	WELDY LAMONT GROUP I
DSWL4GM125F	WL4GM125F	125 AMP HOUR 48 VDC BATTERY MARATHON	WELDY LAMONT GROUP I
DSWL4NSB155FT	WL4NSB155FT	48V, 155AH, FRONT TERMINAL BATTERY NORTHSTAR	WELDY LAMONT GROUP I
DSWL4NSB170FT	WL4NSB170FT	48V STRING OF 170 AH FRONT TERM BATTERIES NORTHSTAR	WELDY LAMONT GROUP I
DSWL4NSB60FT	WL4NSB60FT	BATTERY, 48V,60AH BATTERY STRING	WELDY LAMONT GROUP I
DSWL6953204421	WL6953204421	RETURN BAR FOR 1U BREAKER PANEL	WELDY LAMONT GROUP I
DSWLBG1096STNY	WLBG1096STNY	BATTERY, 48V, 1096AH BATTERY STRING, SINGLE STACK	WELDY LAMONT GROUP I
DSWLBG1096STNY2	WLBG1096STNY2	BATTERY, 48V, 1096AH BATTERY STRING, DOUBLE STACK	WELDY LAMONT GROUP I
DSWLBG1200STNY	WLBG1200STNY	BATTERY, 48V, 1200AH BATTERY STRING, SINGLE STRING	WELDY LAMONT GROUP I
DSWLBG152R23	WLBG152R23	BATTERY, 48V, 152AH 23IN. RACK MTD STRING INCL: BASE PLATE & 23IN R	WELDY LAMONT GROUP I
DSWLBG2000GX24	2000GX24; M87-012-16525023TBLV	24V, 2000AH GX BATTERY ABSOLYTE GX BATTERY, 2 STACKS, 3 HIGH	WELDY LAMONT GROUP I
DSWLBG256ST	WLBG256ST	BATTERY, 48V, 256AH BATTERY STRING	WELDY LAMONT GROUP I
DSWLBG520ST	WLBG520ST	BATTERY, 48VDC 520 AH	WELDY LAMONT GROUP I
DSWLBG696STNY	WLBG696STNY	BATTERY, 48V, 696AH BATTERY STRING, SINGLE STACK	WELDY LAMONT GROUP I
DSWLBG696STNY2	WLBG696STNY2	BATTERY, 48V, 696AH BATTERY STRING, DOUBLE STACK	WELDY LAMONT GROUP I
DSWLBG800M16B	WLBG800M16B	BATTERY, 800 AH 48 VDC MEDIUM RATE 1600A BATT DISCONNECT MOUNTED HORIZ	WELDY LAMONT GROUP I
DSWLBG800ST2	WLBG800MST2	BATTERY, 800 AH 48 VDC MEDIUM RATE VLRA STRING 2 STACK CONFIGURATION	WELDY LAMONT GROUP I
DSWLGB1400ST	WLBG1400ST	BATTERY , 48V 1400AH WITH STANDARD CONNECTIONS	WELDY LAMONT GROUP I
DSWLNSB1984RK	WLNSB1984RK	7 FT, 19 INCH, 90 POUNDS RELAY RACK	WELDY LAMONT GROUP I
DSWLOS4414KVA	WLOS4414KVA	INVERTER SYSTEM 14KVA, ONYX S4, W/ 4 3.5KVA MODS, INC N+1, SYSTEM BYPA	WELDY LAMONT GROUP I
DSWLPS6360	WLP6360	BATTERY, 6V, 36AH BATTERY POWER SONIC PS-6360 OR SIMILAR	WELDY LAMONT GROUP I
DSWLS548120NEMA	WLS548120NEMA	ONYX, 48V INVERTER, W/ OUTPUT OF 120V WITH NEMA OUTLETS, MODULE ONLY	WELDY LAMONT GROUP I
DSWLT030017750B	WLT030017750B	BREAKER 1 AMP TRIMM PART # 030017750B	WELDY LAMONT GROUP I
DSWLT9072101002	WLT9072101002	BREAKER PANEL 1U 6A/6B -/+12-24VDC	WELDY LAMONT GROUP I
DSWLTRM430	WLTRM430	DISTRIBUTION PANEL, 4 POSITION WITH (4) 30A BREAKERS	WELDY LAMONT GROUP I
DSWLUN1RUBRPN	WLUN1RUBRPN	UNIPOWER, 1RU DISTRIBUTION PANEL, DUAL BUS (POS 48V AND NEG 48V SIDES)	WELDY LAMONT GROUP I
DSWLURD002319100	WLURD002319100	RAIL MOUNTED, 100A DISCONNECT FOR RIGHT SIDE OF RAIL	WELDY LAMONT GROUP I
DSWM100S	WM-100-S	WALL MOUNT, 1-1/2" - 3-1/2" OD, SOLWALL	COMMSCOPE TECHNOLOGI
DSWM4	WM-4	HEAVY DUTY W STYLE WALL MOUNT WITH 4 INCH STAND-OFF	PCTEL INC
DSWMPV45E	WMPV45E	FRONT AND REAR VERTICAL MANAGER 80.4INH X 4.9INW X 11.8IND	ANIXTER INC
DSWPH01	1101-372-1	SPD, HARDWIRE 4-WIRE FOR RS232, RS-485, DC BALANCED PAIRS (12V)	TRANSTECTOR SYSTEMS
DSWPH03	1101-372-3	SPD, HARDWIRE 4-WIRE FOR RS232, RS-485, DC BALANCED PAIRS (52V)	TRANSTECTOR SYSTEMS
DSWPH04	1101-372-4	SPD, HARDWIRE 4-WIRE FOR RS232, RS-485, DC BALANCED PAIRS (120V)	TRANSTECTOR SYSTEMS
DSWPH05	1101-372-5	SPD, HARDWIRE 4-WIRE FOR RS232, RS-485, DC BALANCED PAIRS (280V)	TRANSTECTOR SYSTEMS
DSX3BATTRACKW	X3BATTRACKW	RELAY RACK, 84HX23WX25D W/ 3 BATTERY TRAYS W/ DISCONNECTS, WIRING, GB	LAMARCHE MFG CO

DSXP11462	DS328696INV1	REPL BY: DS506848	ELTEK INC
DSXP600	XP-600	48VDC INVERTER EXELTECH XP-600, 600W	ELTEK INC
DSXRGE1248G	XRGE1248G	RECTIFIER, 1200 W (25A), 48V RECTIFIER	WELDY LAMONT GROUP I
DSXX45112009	DSXX45-112-009	BATTERY, 58700036-001, 12V 34WPC FOR 9355-10K UPS BF291JBA02 QTY 32	SEPS INC
DSYB661	YB6-61	YAGI ELEMENT 9 DBD 450-480 MHZ N FEMALE	RFI AMERICAS INC
DSYB80681	YB806-81	YAGI ELEMENT 9 DBD 806-896 MHZ N FEMALE	RFI AMERICAS INC
DSYB806894	YB806-94	YAGI ELEMENT 9 DBD 890-960 MHZ N FEMALE	RFI AMERICAS INC
DSYB80694	YB806-94	YAGI ELEMENT 9 DBD 890-960 MHZ N FEMALE	RFI AMERICAS INC
DSYH02D	YH02D	YAGI, 2 ELEMENT 4 DBD, 100-250 MHZ, 6 MHZ BW, N FEMALE	RFI AMERICAS INC
DSYH03	YH03	YAGI, 3 ELEMENT 6 DBD, 100-250 MHZ, 9 MHZ BW, N FEMALE	RFI AMERICAS INC
DSYH04	YH04	YAGI, 4 ELEMENT, 7DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI AMERICAS INC
DSYH06	YH06	YAGI, 6 ELEMENT, 9DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI AMERICAS INC
DSYW097489	YW09-7489	YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI AMERICAS INC
DSYW156989	YW15-6989	YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI AMERICAS INC
DSZ423BATRACK3	WLBG3288STDIS	BATTERY RACK, 23 IN WIDE, 90 IN HIGH, 18 IN DEEP SEISMIC ZONE 4	LAMARCHE MFG CO
DSZ4BATRACK3	Z4BATRACK3	RACK, 19IN, ZONE 4 SEISMIC W/ (3) BATT TRAYS, EACH W/150A DISCONN	LAMARCHE MFG CO
DSZ4BATRACK5	Z4BATRACK5	RACK, 19IN, ZONE 4 SEISMIC W/ (3) BATT TRAYS, EACH W/150A DISCONN	LAMARCHE MFG CO
DSZZZ507AMS39X03	ZZZ-507-AMS-39-X03	DDB FRONT & REAR DOOR ALARM SWITCHES FOR OD SERIES	ANIXTER INC
L1700	FSJ1-50A	FSJ1-50A CABLE: 1/4" SUPERFLEX POLY JKT PER FOOT	COMMSCOPE TECHNOLOGI
L1702	FSJ4-50B	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT	COMMSCOPE TECHNOLOGI
L1704	LDF2-50	LDF2-50 CABLE: 3/8" LDF HELIAX POLY JKT PER FOOT	COMMSCOPE TECHNOLOGI
L1705	LDF4-50A	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT	COMMSCOPE TECHNOLOGI
L1883	010-519-20-040	BATTERY REVERT CHARGER 14V	ALPHA TECHNOLOGIES L
L1884	010-523-20-040	BATTERY REVERT CHARGER 28V	ALPHA TECHNOLOGIES L
L3323	AVA5-50	AVA5-50, 7/8 IN VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER	COMMSCOPE TECHNOLOGI
L3405	AVA7-50	AVA7-50 CABLE: 1 5/8" AVA HELIAX POLY JKT PER FOOT	COMMSCOPE TECHNOLOGI
L3563	LDF4.5-50	LDF4.5-50 CABLE: 5/8" LOW DENSITY FOAM, PER FOOT	COMMSCOPE TECHNOLOGI
L3569	LDF4RK-50A	CABLE: 1/2" COAXIAL, LOW DENSITY FOAM, FIRE RETARDANT POLYOLEFIN JACKET	COMMSCOPE TECHNOLOGI
L3570	FSJ4RK-50B	FSJ4RK-50B CABLE: 1/2" SUPERFLEX FOAM COAX BLCK FIRE RETARDANT JCKT,	COMMSCOPE TECHNOLOGI
L3572	AVA5RK-50	AVA5RK-50 CABLE: 7/8" COAX, VIRTUAL AIR, FIRE RETRDNT POLYOLEFIN JCKT	COMMSCOPE TECHNOLOGI
L3579	FSJ1RK-50B	FSJ1RK-50B CABLE: 1/4" FSJ, FLAME RETARD.JKT. 50-OHM	COMMSCOPE TECHNOLOGI
L3599	AVA6-50	AVA6-50 CABLE: 1-1/4" AVA6-50, COAX CORRUG COPPER, BLACK PE JACKET	COMMSCOPE TECHNOLOGI
L3600	AVA6RK-50	AVA6RK-50 1-1/4" AVA6-50, COAX CORRUG COPPER, BLACK FIRE RET PE JACKET	COMMSCOPE TECHNOLOGI
L3605	AVA7RK-50	AVA7RK-50 CABLE: 1-5/8" AVA HELIAX POLY JKT PER FOOT - FIRE RETARDANT	COMMSCOPE TECHNOLOGI
L3608	FSJ2-50	FSJ2-50 CABLE: 3/8" SUPERFLEX FOAM COAX, BLK PE JKT, PER FOOT	COMMSCOPE TECHNOLOGI
MDN6816	43211A	STD HANGERS FOR 1/2IN CABLE & EW180/EW220/EW-HANGER KIT STAINLESS-10PK	COMMSCOPE TECHNOLOGI
MDN6817	42396A-5	42396A-5 7/8" CABLE HANGER STAINLESS, 10 PK	COMMSCOPE TECHNOLOGI
TDD7050	SD224-SF(1-10)SNM	ANTENNA VHF OMNI 6/9 DB EXPOSED ELEMENT	SINCLAIR TECHNOLOGIE
TDE6771	NMO-406, NMO-MM	ANTENNA MOBILE UHF MAGNETIC MT	PULSE ELECTRONICS IN
TDN6670	40417	40417 CABLE TIES NYLON (1 EA= 1 BAG = 50 TIES)	COMMSCOPE TECHNOLOGI
TDN6948	24312A	24312A HOISTING GRIP FOR 1-5/8" CABLE & EW44/52/63	COMMSCOPE TECHNOLOGI
TDN6949	42396A-2	42396A-2 1-5/8" CABLE HANGER KIT 10 PACK	COMMSCOPE TECHNOLOGI
TDN6950	31768A	31768A ADAPTER ANGLE IRON MOUNTING 10 PK	COMMSCOPE TECHNOLOGI

TDN6951	31670-1	31670-1 ADAPTER 1/2" ROUND MEMBER MOUNTING	COMMSCOPE TECHNOLOGI
TDN6952	31670-2	31670-2 ADAPTER 2" TO 3" ROUND MEMBER MOUNT	COMMSCOPE TECHNOLOGI
TDN6953	31670-3	31670-3 ADAPTER 3" TO 4" ROUND MEMBER MOUNTING	COMMSCOPE TECHNOLOGI
TDN7519	42396A-1	42396A-1 1-1/4" CABLE HANGER KIT STAINLESS	COMMSCOPE TECHNOLOGI
TDN7752	31769-1	31769-1 3/8" HARDWARE KIT, QTY 10	COMMSCOPE TECHNOLOGI
TDN8810	F4PNF-C	F4PNF-C 1/2" TYPE N FEMALE CONNECTOR	COMMSCOPE TECHNOLOGI
TDN8957	41SP	1/4" CONNECTOR UHF MALE S FLEX	COMMSCOPE TECHNOLOGI
TDN9289	221213	221213 CABLE WRAP WEATHERPROOFING	COMMSCOPE TECHNOLOGI
TDN9368	T5001	TERMINATION 50 OHM BNC T50-01	SINCLAIR TECHNOLOGIE
TDN9370	FMB72	MOUNTING BRACKET 2 CAVITY FMB7-2	SINCLAIR TECHNOLOGIE
TDN9575	MCPT-L4	MCPT-L4 1/2" CBL PRECISION PREP TOOL	COMMSCOPE TECHNOLOGI
TDN9576	MCPT-1412	MCPT-1412 1/4" OR 1/2" S FLEX PREP TOOL	COMMSCOPE TECHNOLOGI
TDN9586	204673-1	WALL ROOF FEED THRU PLATE 1 ENTRY	COMMSCOPE TECHNOLOGI
TDN9587	204673-4	204673-4 WALL ROOF FEED THRU PLATE 4 ENTRY	COMMSCOPE TECHNOLOGI
TDN9588	204673-8	WALL ROOF FEED THRU PLATE 8 ENTRY	COMMSCOPE TECHNOLOGI
TDN9668	223158-2	223158-2 1/4" OR 3/8" CABLE GROUND CLAMP KIT	COMMSCOPE TECHNOLOGI
TDN9878	877-124-20-000	CABLE INTERFACE BATTERY TO CHARGER	ALPHA TECHNOLOGIES L
TDN9879	747-081-20-000	TEMPERATURE SENSOR	ALPHA TECHNOLOGIES L
TT05318AA	R8-3G	R8-3G 3 GHZ OPERATION	FREEDOM COMMUNICATIO
TT05319AA	R8-REMOTE	R8-REMOTE REMOTE CONTROL SOFTWARE	FREEDOM COMMUNICATIO
TT05320AA	R8-TG	R8-TG TRACKING GENERATOR	FREEDOM COMMUNICATIO
TT05321AA	R8-ESA	R8-ESA ENHANCED SPECTRUM ANALYZER	FREEDOM COMMUNICATIO
TT05322AA	R8-CF	R8-CF CABLE FAULT LOCATOR	FREEDOM COMMUNICATIO
TT05323AA	R8-SC	R8-SC SOFT CARRYING CASE	FREEDOM COMMUNICATIO
TT05324AA	R8-TRBO	R8-TRBO MOTOTRBO TEST PACKAGE	FREEDOM COMMUNICATIO
TT05325AA	R8-3Y	R8-3Y THREE YEAR SERVICE PLAN	FREEDOM COMMUNICATIO
TT05326AA	R8-5Y	R8-5Y FIVE YEAR SERVICE PLAN	FREEDOM COMMUNICATIO
TT05327AA	R8-P25	R8-P25 APCO PROJECT 25 CONVENTIONALTESTING	FREEDOM COMMUNICATIO
TT05337AA	390XOPT051	SITE MONITORING APPLICATION / 390XOPT051 / R2111A	AEROFLEX WICHITA INC
TT05339AA	390XOPT054	IQ GEN MODULATION / 390XOPT054 / R2112A	AEROFLEX WICHITA INC
TT05340AA	390XOPT055	AUDIO ANALYZER / 390XOPT055 / R2086A	AEROFLEX WICHITA INC
TT05341AA	390XOPT059	AUTO-TEST II ANALOG / 390XOPT059 / R2127A	AEROFLEX WICHITA INC
TT05342AA	390XOPT060	HARMONICS & SPURIOUS MEASUREMENTS / 390XOPT060 / R2129A	AEROFLEX WICHITA INC
TT05343AA	390XOPT061	TRACKING GENERATOR / 390XOPT061 / R2020A	AEROFLEX WICHITA INC
TT05344AA	390XOPT064	ANALOG DUPLEX POWER BETWEEN MARKERS / 390XOPT064	AEROFLEX WICHITA INC
TT05345AA	390XOPT200	P25 CONVENTIONAL WITH DES OFB TYPE III / 390XOPT200 / R2075A	AEROFLEX WICHITA INC
TT05346AA	390XOPT201	P25 TRUNKING VHF/UHF/700/800MHZ / 390XOPT201 / R2076A	AEROFLEX WICHITA INC
TT05347AA	390XOPT204	LSM GENERATE AND RECEIVE/ANALYSIS / 390XOPT204 / R2079A	AEROFLEX WICHITA INC
TT05348AA	390XOPT206	P25 CONTROL CHANNEL LOGGER / 390XOPT206 / R2081A	AEROFLEX WICHITA INC
TT05349AA	390XOPT207	SMARTNET/SMARTZONE / 390XOPT207 / R2082A	AEROFLEX WICHITA INC
TT05350AA	390XOPT209	KVL KEYLOADER / 390XOPT209 / R2084A	AEROFLEX WICHITA INC
TT05351AA	390XOPT210	ANALOG SIMULCAST / 390XOPT210	AEROFLEX WICHITA INC
TT05352AA	390XOPT212	EXPLICIT MODE TRUNKING / 390XOPT212 / R2087A	AEROFLEX WICHITA INC

TT05353AA	390XOPT213	UNIT TO UNIT CALL/ 390XOPT213	AEROFLEX WICHITA INC
TT05354AA	390XOPT214	ADJACENT CHANNEL BROADCAST MESSAGE / 390XOPT214	AEROFLEX WICHITA INC
TT05355AA	390XOPT215	SECONDARY CONTROL CHANNEL BROADCAST MESSAGE / 390XOPT215	AEROFLEX WICHITA INC
TT05356AA	390XOPT218	AUTOTEST II FOR P25 RADIO SYSTEMS / 390XOPT218 / R2083A	AEROFLEX WICHITA INC
TT05357AA	390XOPT219	X2 TDMA TEST SUITE / 390XOPT219 / R2124A	AEROFLEX WICHITA INC
TT05358AA	390XOPT230	OFF AIR MONITOR SOFTWARE FOR P25 MESSAGE LOGGING / 390XOPT230	AEROFLEX WICHITA INC
TT05359AA	390XOPT240	P25 AES ENCRYPTION / 390XOPT240 / R2077A	AEROFLEX WICHITA INC
TT05360AA	390XOPT245	X2 TDMA MOBILE EMULATOR / 390XOPT245 / R2123A	AEROFLEX WICHITA INC
TT05361AA	390XOPT250	OCCUPIED BANDWIDTH FOR P25 / 390XOPT250	AEROFLEX WICHITA INC
TT05362AA	390XOPT260	P25 PERFORMANCE TEST TRIGGERS / 390XOPT260	AEROFLEX WICHITA INC
TT05363AA	390XOPT261	X2 TDMA ADVANCED TEST SUITE / 390XOPT261 / R2122A	AEROFLEX WICHITA INC
TT05364AA	390XOPT300	HPD TESTING OPTION / 390XOPT300 / R2091A	AEROFLEX WICHITA INC
TT05365AA	390XOPT301	MOTOROLA HPD ADVANCED ANALYSIS PACKAGE / 390XOPT301 / R2092A	AEROFLEX WICHITA INC
TT05366AA	390XOPT302	MOTOROLA HPD TESTING SUITE / 390XOPT302 / R2093A	AEROFLEX WICHITA INC
TT05367AA	390XOPT303	AUTOTEST II FOR HPD RADIO SYSTEMS / 390XOPT303	AEROFLEX WICHITA INC
TT05368AA	390XOPT400	MOTOTRBO DMR TESTING / 390XOPT400 / R2126A	AEROFLEX WICHITA INC
TT05369AA	390XOPT401	AUTOTEST II FOR MOTOTRBO DMR RADIO SYSTEMS / 390XOPT401	AEROFLEX WICHITA INC
TT05371AA	390XOPT600	XTS-5000 AUTOTEST AND ALIGNMENT / 390XOPT600 / R2131A	AEROFLEX WICHITA INC
TT05372AA	390XOPT601	XTS-3000 AUTOTEST AND ALIGNMENT / 390XOPT601 / R2132A	AEROFLEX WICHITA INC
TT05373AA	390XOPT602	XTL-2500, XTL-5000 POWER ALIGNMENT FOR AUTOTEST II / 390XOPT602	AEROFLEX WICHITA INC
TT05374AA	390XOPT603	TIA/EIA-603 LAND MOBILE RADIO TEST / 390XOPT603 / R2133A	AEROFLEX WICHITA INC
TT05375AA	W390X/203	EXTENDED WARRANTY 36 TOTAL MONTHS / W390X/203 / R2071A	AEROFLEX WICHITA INC
TT05376AA	W390X/205	EXTENDED WARRANTY 60 TOTAL MONTHS / W390X/205 / R2072A	AEROFLEX WICHITA INC
TT05377AA	W390X/203C	EXTENDED WARRANTY 36 TOTAL MONTHS WITH CAL / W390X/203C / R2073A	AEROFLEX WICHITA INC
TT05378AA	W390X/205C	EXTENDED WARRANTY 60 TOTAL MONTHS WITH CAL / W390X/205C / R2074A	AEROFLEX WICHITA INC
TT05652AA	R8-P25 TRNK	P25 TRUNKING OPTION FOR R8000	FREEDOM COMMUNICATIO
TT05681AA	390XOPT610	MOTOTRBO AUTOTEST/ALIGNMENT (REQS TT05368A & TT05369AA)	AEROFLEX WICHITA INC
TT05682AA	390XOPT058	2.7 GHZ FREQUENCY RANGE EXTENSION OPTION	AEROFLEX WICHITA INC
TT2231	R8000	R8000 COMMUNICATIONS SYSTEM ANALYZER	FREEDOM COMMUNICATIO
TT2232	R8000PREMIER	R8000 1 GHZ PREMIER PACK COMMUNICATIONS SYSTEM ANALYZER	FREEDOM COMMUNICATIO
TT2235	3920B-1GHZ	AEROFLEX 3920B SERVICE MONITOR 1MHZ TO 1GHZ	AEROFLEX WICHITA INC
TT2237	3920 SOFTWARE UPGRADE	SOFTWARE UPGRADE FOR AEROFLEX 3920	AEROFLEX WICHITA INC
TT2452	3920- PLATINUM 2.7 GHZ PACKAGE	AEROFLEX 3920B PLATINUM TEST PACKAGE	AEROFLEX WICHITA INC
TT2453	3920B-GOLD DEALER PACKAGE	AEROFLEX 3920B P25 & MOTOTRBO GOLD TEST PACKAGE	AEROFLEX WICHITA INC
TT2454	3500A - PACKAGE	AEROFLEX 3500A P25 PORTABLE TEST SET PACKAGE	AEROFLEX WICHITA INC
TT2455	3920B-P25 EXPERT PACKAGE	AEROFLEX 3920B P25 EXPERT TEST PACKAGE	AEROFLEX WICHITA INC
TT2456	3500A - PACKAGE	AEROFLEX 3500A MOTOTRBO PORTABLE TEST SET PACKAGE	AEROFLEX WICHITA INC
TT2457	3920B-MOTOTRBO SPEED TEST PKG	AEROFLEX 3920B MOTOTRBO SPEED TEST PACKAGE	AEROFLEX WICHITA INC
Z163	877-125-20-000	ADD: CBL, INTFC 2 WR STA- CHGR	ALPHA TECHNOLOGIES L
Z165	877-124-20-000	ADD: CBL, INTFC, BATT TO CHGR	ALPHA TECHNOLOGIES L
Z166	747-081-20-000	ADD: TEMPERATURE SENSOR	ALPHA TECHNOLOGIES L
Z691	877-145-20-000	ADD: CHGR LOAD CABLE MTR2000	ALPHA TECHNOLOGIES L
Z692	877-146-20-000	ADD: CHGR BAT CABLE MTR2000	ALPHA TECHNOLOGIES L

US VERSION

SIREN AND LIGHTS INTEGRATION MODULE for APX4500, APX6500 and APX7500 mobile radios



General Information:

The Siren and Lights Interface Module connects new or existing third party light and siren systems to Motorola's APX7500/APX6500 mobile radios. This solution allows the user to control all in vehicle radio, siren, and light functions from an O3, O7 or O9 APX control head to fit any response scenario.

Features:

EASE OF INSTALLATION:	Connects to APX mobile with 1 cable. Connects to OEM sirens with 1 or 2 cables
TWO-WAY MOBILE SUPPORT:	Compatible with APX 7500 and 6500 TDMA capable radio and feature set.
THIRD-PARTY SIREN AND LIGHT:	Compatible with Code 3®, Federal Signal, Whelen® Engineering
QUICK SET-UP:	USB Programming utility available.
CONTROL HEAD COMPATIBILITY:	Compatible with APX O3, O7, and O9 control heads
CONSOLIDATES PA AUDIO:	Supports single microphone for two-way audio and PA audio.
INPUTS/OUTPUTS:	4 dedicated inputs for auxiliary functions and OEM sensors

Notes:

THE SIREN AND LIGHTS INTERFACE MODULE IS COMPATIBLE WITH REMOTE-MOUNTED APX7500, APX6500, APX6500LI and APX4500 MOBILE RADIOS.
CONTROL HEADS SUPPORTED: O9, O7, O3; AS WELL AS O2 and O5 WHEN USED WITH KEYPAD MICROPHONE
IF UPGRADING FIELDIED UNIT, PLEASE REFER TO THE UPGRADE ORDERING GUIDE FOR ADDITIONAL INSTRUCTIONS

Options: TO COMPLETE AN ORDER YOU MUST MAKE ON (1) CHOICE PER EACH STEP

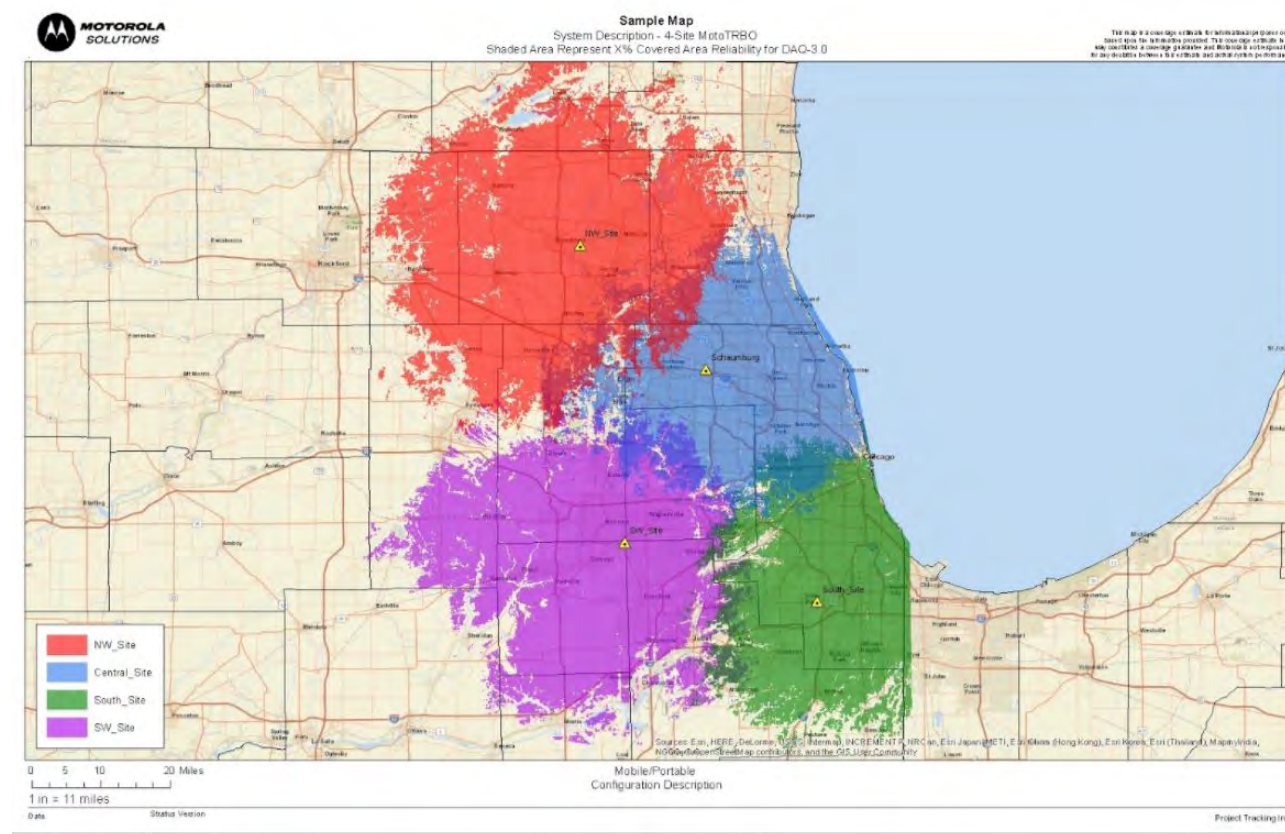
Model:	Description	MSRP
STEP 1:		
TT2723	SIREN AND LIGHTS INTEGRATION MODULE The module includes the Module to Radio cable, power cable and GPIO cable	\$690.00
STEP 2:		
TT05924	ADD: INTERFACE KIT IK-A1WB Compatible with: Whelen Cencom Sapphire, Control, Control WC (includes internal siren interface module)	\$295.00
TT05894	ADD: INTERFACE KIT IK-E2 (Z3) Compatible with: Code3 Z3	\$45.00
TT05923	ADD: INTERFACE KIT IK-A1WA Compatible with: Cencom Gold (includes external siren interface module) Aftermarket part number: DDN1896A	\$450.00
TT05890	ADD: INTERFACE KIT IK-A1 (GREY) Compatible with: Whelen CenCom Grey Aftermarket part number: DDN1778A	\$45.00

TT05925	ADD: INTERFACE KIT IK-C1F (SS2000) Min order Qty 100pcs Compatible with: Federal Signal Smart Siren SS2000, SM, Premium Vision, Vision (includes external siren interface module) Aftermarket part number: DDN1898A (Min 100)	\$295.00
TT05926	ADD: INTERFACE KIT IK-C1C (RLS) Compatible with: Code3 RLS (includes external siren interface module) Aftermarket part number: DDN1899A	\$295.00

OPTIONAL:

TT05889	ADD: PROGRAMMING KIT FOR SLIM Includes Programming Cable and CD (Only one Kit is required per shop)	\$60.00
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Motorola Solutions provides informational coverage maps to our partners deploying MOTOTRBO, MOTOTRBO NITRO or ASTRO P25 Systems. The typical Coverage map will provide predicted Talk in and Talk out coverage area for Portable and Mobile subscribers. The coverage maps will provide in Adobe Acrobat



GENERAL INFORMATION:

Provisions :

Pricing below includes maps for up to 6 sites

This cost includes up to two iterations of maps (alternate scenarios with different site locations, antenna heights, etc.)

The two iterations must be completed within 90 days of receiving the first set of maps

If there are more than 6 sites there will need to be additional quantities of this part number added (for example up to 18 sites order Qty. 3, up to 24 sites order Qty. 4, etc.)

Contact:

If you have an FO# that includes this model number below

OR need additional information please send an email to ats.support@motorolasolutions.com

REQUESTING COVERAGE MAPS:

If you would like to submit a request for coverage map generation services follow this link: [Coverage Map Request Link](#)

MOTOTRBO NITRO coverage maps will be generated for locations with base transceivers located outside buildings.

Turn around time is 5 business days from the day the Coverage Request has been submitted using the link above, along with all the supporting site information.

Channel Partners should select "Dealer" when prompted to request support. A confirmation email will be sent once the request has been submitted.

The 10-digit MOL order #3xxxxxxx must be provided in the google request form link above at time of submission.

Additional system information may be requested, if the information is not provided in the initial request. This may impact turn around time.

When purchasing purchasing the ATS system as modeled, the associated coverage map cost will be refunded as system credit.

The ATS system must be purchased within 90 days of the most recent coverage map.

Pricing

RESELLER PRICES

Coverage Map

MODEL	DESCRIPTION	MSRP
HKLN4495A	Coverage Map Generation Services	\$835.00

: PDF format but can also be provided in the Google Earth KMZ format on request. Please note: Coverage Maps will depict estimated coverage and not actual coverage. Actual Coverage will vary depending on actual topography and other interfering sources in the area. Coverage Maps may only be used for i

informational purposes and should not be assumed to carry a coverage guarantee.

US VERSION

REPEATER INTERFACE COMMUNICATIONS KIT™

RESELLER PRICES

The Repeater Interface Communications Kit Model Includes:

- For use with CDM750, CDM1250 & CDM1550
- Selectable Hang Time
- PL, DPL, CSQ
- Uni-Directional or Bi-Directional Repeater Operation
- Singleband and Crossband Operation
- Transparent Operation
- Remote Repeater Set-Up and Knock Down
- LED Indicators for Repeater Enable, COR and Repeater Set-Up
- Front Panel Control for Repeater Enable and Set-Up
- Interface Box, Mounting Bracket and all required Cables

MODEL	DESCRIPTION	MSRP
HLN3333	Repeater Interface Communications Kit (includes manual)	\$ 329.00
General Accessories:		
HKN9019	16 Pin Conductor Cable - same as HKN9969 (3 Ft. long enhanced connectors)	\$ 14.44
HKN9969_R	Accessory for Repeater Interface Communications Kit - additional 16 conductor cable (3 Ft. long) for connection to other access	\$ 35.50
Manuals:		
6880901Z79-B	R.I.C.K. Service & Programming Manual (most current issue includes MMR-062)	\$ 5.67

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US VERSION

GTR 8000

GTR 8000 ANALOG CONVENTIONAL BASE RADIO

RESELLER PRICES

GENERAL INFORMATION

The GTR 8000 Base Radio, orderable model T7039 is a future ready base radio that offers high reliability, future expandability, and excellent coverage. The GTR 8000 Base Radio deployed as an analog conventional repeater can be upgraded to simulcast, digital, trunking and other configurations including P25 TDMA with software upgrades only (no hardware changes). Its high performing analog capabilities enable narrow-banding migrations that maximize audio performance. With its compact design and superior hardware, the GTR 8000 surpasses the bar previously set by QUANTAR.

GENERAL INFORMATION:

High Powered Performance

- 100 ppb frequency stability directly enhances analog audio performance
- Supports optional analog features including simulcast, repeater access setup/knockdown, scanning receiver, multi-PL, and WildCard with GPIO (General
- Optional preselector achieves 95dB spurious and image response rejection to block out transmitters at crowded sites
- Standard -48V battery revert and charging capability eliminates the need for an uninterruptible power supply (UPS) in many installations

Installation & serviceability

- Compact hardware utilizes a 3 rack unit chassis
- Ships factory aligned ready for installation
- Hot Swap hardware enables service and hardware replacement without system down-time
- Software download can be managed while online and fully operational
- All servicing can be performed from the front of the station
- High-reliability fans are rated for 10 years of continuous use, will alarm 7 days prior to failure, decreasing maintenance costs and minimizing downtime

RESOURCES:

- GTR 8000 Base Radio Manual - <https://motonline.mot-solutions.com/Member/ContentManagement/resourcecenter.asp>
- 6871023P25-A Quick Guide for Replacing a Conventional QUANTAR with a GTR 8000 Base Radio - <https://motonline.mot-solutions.com/Member/ContentManagement/resourcecenter.asp>

ORDERING REQUIREMENTS:

NOTE: All stations on a Simulcast channel should be of the same station type.

1. Main Model

The following main model must be ordered for a GTR 8000 Base Radio.

T7039A GTR 8000 BASE RADIO

Ordering Note: Only order a quantity of one of the T7039A per line item. This model number will automatically generate internally added options for all hardware components that are not part of an orderable option (such as cabling).

2. Frequency Band and Power Level

Enter the Frequency Band option:

- | | |
|-----------|----------------------------------|
| CA00855AA | ADD : 700/800 MHZ MID POWER |
| X640AL | ADD : UHF R2 MID POWER (435-524) |
| X530BG | ADD : VHF MID POWER (136-174) |
| X448AA | ADD : UHF R1 MID POWER (380-435) |

Ordering Note: One TX and one RX frequency must be specified and will be collected at the main model level. When ordering analog conventional software (option CA01949AA), TX and RX frequencies can be equal when the antenna relay option CA01504AA is ordered.

700/800 MHz: Frequency Rules for CA00855AA

RX Range: 794.00625 - 824.99375 MHz.

TX Range: 764.00625 - 775.99375 MHz and 851.00625 - 869.99375 MHz

* If Freq (TX) is 764.00625 - 775.99375 MHz, then Freq (Rx) = TX + 30

* If Freq (TX) is 851.00625 - 869.99375 MHz, then Freq (Rx) = TX – 45

* All frequencies must be divisible by 2.5 or 3.125 kHz.

Note: Currently, 796.09375, 806.88125, 808.31875, and 822.375 are not supported for Rx.

UHF R2: Frequency Rules for X640AL

RX Range: 435.0000-524.0000 MHz.

TX Range: 435.0000-524.0000 MHz

* If Freq (TX) is 435-524 MHz, then Freq (Rx) > + .25 MHz TX

* All frequencies must be divisible by 2.5 or 3.125 kHz.

Note: Currently, 454.500, 474.6375, 494.05625, and 511.3125 are not supported for Rx.

UHF R1: Frequency Rules for X448AA

RX Range: 380.0000 – 435.0000 MHz.

TX Range: 380.0000 – 435.0000 MHz

* If Freq (TX) is 380-435 MHz, then Freq (Rx) > + .25 MHz TX

* All frequencies must be divisible by 2.5 or 3.125 kHz.

Note: Currently, 380.250 and 416.925 MHz are not supported for Rx.

VHF: Frequency Rules for X530BG

RX Range: 136.0000 – 174.0000 MHz.

TX Range: 136.0000 – 174.0000 MHz

* If Freq (TX) is 136 - 174 MHz, then Freq (Rx) > + .25 MHz TX

* All frequencies must be divisible by 2.5 or 3.125 kHz.

150W High Power 800MHz PA

CA02478AA ADD: 800MHZ 150W HI POWER

- CA02478AA provides high power transmission in the 800MHz frequency. It's compatible with analog simulcast & non-simulcast.

3. Base Radio Software

CA01949AA ADD: ANALOG CONVENTIONAL SOFTWARE

CA01949AA provides a circuit analog conventional base radio. This base radio software supports 2wire, 4wire, and 8wire circuit analog wireline links. 16 programmable channel personalities. Each channel personality can be configured for base station, repeater, simplex, or receive only operation. TRC wireline keying is supported, with a full complement of programmable function tones. The CSS (Configuration Service Software) install disc is included with this option.

4. Energy Efficiency Options

CA01953AA ADD : POWER EFFICIENCY PACKAGE

This optional feature provides hardware and software for reduced power consumption to accommodate needs at sites without grid power or that are

driven off alternative energy sources.

* Only available with UHF R2 (X640AL), UHF R1 (X448AA), & VHF (X530BG).

5. Conventional Software System Configuration

Choose the appropriate optional conventional software system configuration if required.

CA01952AA ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE

CA01952AA provides the analog conventional base radio with the Gen Tx Data and E&M keying interface to a DSM channel bank card. The base radio must be provided with a 5MHZ/1PPS composite reference to ensure the timing and signal integrity required for analog simulcast. The GTR 8000 base radio cannot be mixed with QUANTAR analog simulcast stations on the same simulcast channel/frequency.

CA01951AA ADD: ANALOG CONVENTIONAL VOTING SOFTWARE

CA01951AA supports analog transmit and receive operation when connected to SpectraTAC, DIGITAC, and other TRC comparators in a voting channel

6. Conventional Features

Choose the appropriate optional system feature options if required.

CA01504AA ADD : ANTENNA RELAY

CA01504AA required for base stations with a single antenna and allows one antenna to be used for both transmit and receive signals.

CA01503AA ADD : FALL BACK IN CABINET REPEAT- SIMULCAST

CA01503AA enables the station to continue to receive and transmit when communication with the comparator is lost.

CA01947AA ADD: RECEIVER SCAN OPERATION

- CA01947AA provides the ability to scan for qualified activity on up to 16 receive frequencies. The receive frequencies are assigned in the 16 programmable channel personalities. Scan operation can be suspended and resumed by TRC WildCard programming.

CA01950AA ADD: CONV MULTI-NAC MULTI-PL

CA01950AA enables multiple PL tones (analog) or multiple NACs (digital P25 Network Access Codes) to be detected on a single channel. Each of the 16 channel personalities can be configured with a list of PL tones and NACs to use for receiver qualifiers.

CA01954AA ADD: WILDCARD w/GPIO

CA01954AA provides configurable inputs and outputs with a programmable set of event/action tables for implementing custom base radio interface

CA01955AA ADD: MAIN/STANDBY OPERATION

CA01955AA provides WildCard programming presets and cabling for a side-by-side base radio main/standby configuration.

7. Peripherals

7.1 Tx Filters and Duplexers: Tx Filters are not compatible with Duplexers. In circuit or IP simulcast configurations the PMU on the TX filters are not

* 700/800 MHz: If the customer frequencies are in the 700 MHz frequency range (Tx: 764.00625 - 775.99375 MHz), the customer must order X182BW or CA00882AA per FCC licensing rules. If the customer frequencies are in the 800 MHz frequency range (Tx: 851.00625 - 869.99375 MHz), the following

* UHF (R1 380-435 MHz, R2 435-524 MHz): The following peripherals are optional.

* VHF (136-174 MHz): The following peripherals are optional. TX and RX frequencies must be at least 1.5 MHz apart if peripherals are desired.

X182BW ADD : DUPLEXER, 700 MHZ

- X182BW provides the option of using the same antenna for receive and transmit in the 700 MHz standalone base radio configuration. This option provides the filtering required by the FCC for 700 MHz.

X182BX ADD : DUPLEXER, 800 MHZ

- X182BX provides the option of using the same antenna for receive and transmit in the 800 MHz standalone base radio configuration.

X182BZ ADD : DUPLEXER, UHF 380-512 MHz

- X182BZ provides the option of using the same antenna for receive and transmit in the UHF standalone base radio configuration. If the X182BZ is ordered, X265AP (ADD: NARROW PRESELECTOR, 380-512 MHz) is required. The transmit frequencies must fall within one of the following subbands: 380-403, 403-435, 435-470, 470-494, and 494-512 MHz. Also, above 470 MHz, the Tx and Rx frequency separation should be at least 3.0 MHz for best performance.

X182CC ADD : DUPLEXER 136-146 MHZ

- X182CC provides the option of using the same antenna for receive and transmit in the VHF (136-146 MHz) standalone base radio configuration. If the X182CC is ordered, the X265AN (ADD: NARROW PRESELECTOR, 136-154) is required. The Tx and Rx frequency separation must be at least 1.5 MHz for best

X182CB ADD : DUPLEXER 144-160 MHZ

- X182CB provides the option of using the same antenna for receive and transmit in the VHF (144-160 MHz) standalone base radio configuration. If the X182CB is ordered, the X265AN (ADD: NARROW PRESELECTOR, 136-154) or X265AM (ADD: NARROW PRESELECTOR, 150-174) are required. The Tx and Rx frequency separation must be at least 1.5 MHz for best performance.

X182CA ADD : DUPLEXER 158-174 MHZ

- X182CA provides the option of using the same antenna for receive and transmit in the VHF (158-174 MHz) standalone base radio configuration. If the X182CA is ordered, the X265AM (ADD: NARROW PRESELECTOR, 150-174) is required. The Tx and Rx frequency separation must be at least 1.5 MHz for best

CA00882AA ADD : 700 MHz TX FILTER w/PMU

- CA00882AA provides the TX filtering of up to 12 combined 700 MHz transmitters. The Tx filter can be added after the cavity combiner.

CA00883AA ADD : 800 MHz TX FILTER w/PMU

- CA00883AA provides the required TX filtering of up to 12 combined 800 MHz transmitters. The Tx filter can be added after the cavity combiner.

7.2 Narrow Preselector: The Base Radio Preselector rejects unwanted signals including the transmitter signals from overloading the receiver.

* If TIA102-CAAB Class A spurious response rejection (90 dB) specification is required, the Base Radio Preselector must be ordered. The Narrow Preselector

* If a Duplexer is to be ordered also, a Narrow Preselector is required for UHF (X448AA or X640AL) or VHF (X530BG) systems.

X265AJ ADD : BASE RADIO PRESELECTOR, 700 MHZ

- X265AJ provides RX filtering in the 700 MHz standalone base radio configuration and is attached to the back side of the base radio.

X265AH ADD : BASE RADIO PRESELECTOR, 800 MHZ

- X265AH provides RX filtering in the 800 MHz standalone base radio configuration and is attached to the back side of the base radio.

X265AN ADD : BASE RADIO PRESELECTOR, (136 – 154 MHZ)

- X265AN provides RX filtering in the VHF subband 136 - 154 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz.

X265AM ADD : BASE RADIO PRESELECTOR, (150 – 174 MHZ)

- X265AM provides RX filtering in the VHF subband 150 – 174 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz.

X265AP ADD : BASE RADIO PRESELECTOR, (380 – 512 MHZ)

- X265AP provides RX filtering in the UHF subband 380-512 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest Rx frequency and the lowest Rx frequency can be no more than 4 MHz.

7.3 Dual Circulator: If an external dual circulator is needed, order quantity one of X676BF, X676BG, X676BJ, X676BI or X676BH based on the frequency

* NOTE: The dual circulator is not compatible when the base radio ordered is using Linear Simulcast Modulation (LSM) in the UHF (X640AL or X448AA) or

X676BF ADD : 700/800 MHZ EXTERNAL DUAL CIRCULATOR

- X676BF adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the 700/800 MHz band. Since the power amplifier has one circulator, this option brings the total number of circulators to three.

X676BG ADD : UHF EXTERNAL DUAL CIRCULATOR (380-512 MHZ)

- X676BG adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the UHF band (380 – 524 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three. All Tx frequencies must fall within one of the following subbands: 380-403, 403-

X676BJ ADD : EXT DUAL CIRCULATOR, 136 – 146 MHZ

- X676BJ adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (136 – 146 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

X676BI ADD : EXT DUAL CIRCULATOR, 144 – 160 MHZ

- X676BI adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (144 – 160 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

X676BH ADD : EXT DUAL CIRCULATOR, 158 – 174 MHZ

- X676BH adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (158 – 174 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

7.4 Optional Conventional Hardware Kits

The following kits provide add-on hardware (including associated cables and fasteners) with installation instructions for specialized Conventional base radio

CA01958AA ADD: T2-2R RECEIVER MUTE

CA01959AA ADD: T3-3R RECEIVER MUTE

CA01960AA ADD: T4-4R RECEIVER MUTE

CA01961AA ADD: RCVR SOFT NO SPLITTER

CA01957AA ADD: T1-2R W/ TALKAROUND

CA01962AA ADD: T2-2R DUPLEXER & TRPL RELAY

8. Cables

CA01400AA ADD : POWER CABLE, DC

- A 12 foot AC power cable will come standard with the base radio. If a DC power cable is required, order option CA01400AA and a DC cable will be shipped

- A Battery Temperature Sensor and a 40 foot long cable are included when CA01400AA option is ordered.

CA00975AA ADD : BATTERY TEMPERATURE SENSOR EXTENSION CABLE

- The CA00975AA option offers an extension cable that provides a 50 foot extension. Up to 3 extensions can be ordered.

9. Rack Mount Hardware

Choose rack mount hardware, if required.

X153AW ADD : RACK MOUNT HARDWARE

- X153AW provides rack mount hardware for the base radio as well as any associated optional/peripheral equipment. It should be selected if the base radio will be installed in standard 19-inch relay racks or if it is being installed into an existing Quantar rack.

Models:		
T7039	GTR 8000 BASE RADIO	\$0.00
* Requires frequency band selection		
Options:		
Frequency Band:		MSRP
CA00855AA	ADD: 700/800 MHZ	\$6,300.00
X640AL	ADD: UHF R2 (435-524 MHZ)	\$6,300.00
X530BG	ADD: VHF (136-174 MHZ)	\$6,300.00
X448AA	ADD: UHF R1 (380-435 MHZ)	\$6,300.00
150W High Power 800MHz PA		MSRP
CA02478AA	ADD: 800MHZ 150W HI POWER	\$12,500.00
Base Radio Software:		MSRP

CA01949AA	ADD: ANALOG CONVENTIONAL SOFTWARE	\$6,000.00
Energy Efficiency :		
CA01953AA	ADD: POWER EFFICIENCY PACKAGE	\$500.00
Conventional Software System Configuration:		MSRP
CA01952AA	ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	N/C
CA01951AA	ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	N/C
Conventional Features:		MSRP
CA01504AA	ADD: ANTENNA RELAY	\$350.00
CA01503AA	ADD: FALL BACK IN SIMULCAST CABINET REPEAT	\$600.00
CA01947AA	ADD: RECEIVER SCAN OPERATION	\$400.00
CA01950AA	ADD: CONVENTIONAL MULTI-NAC MULTI-PL	\$500.00
CA01954AA	ADD: WILDCARD W/GPIO	\$1,200.00
CA01955AA	ADD: MAIN/STANDBY OPERATION	\$450.00
Peripherals:		MSRP
X182BW	ADD: DUPLEXER, 700 MHZ	\$1,380.00
X182BX	ADD: DUPLEXER, 800 MHZ	\$1,380.00
X182BZ	ADD: DUPLEXER, UHF	\$1,380.00
X182CC	ADD: DUPLEXER, 136-146 MHZ), THEN TX AND RX MUST BE 136-146	\$1,380.00
X182CB	ADD: DUPLEXER, 144-160 MHZ), THEN TX AND RX MUST BE 144-160	\$1,380.00
X182CA	ADD: DUPLEXER, 158-174 MHZ	\$1,380.00
CA00882AA	ADD: 700 MHZ TX FILTER W/PMU	\$1,000.00
CA00883AA	ADD: 800 MHZ TX FILTER W/PMU	\$1,000.00
X265AJ	ADD: BASE RADIO PRESELECTOR, 700 MHZ	\$500.00
X265AH	ADD: BR PRESELECTOR, 800 MHZ	\$500.00
X265AN	ADD: NARROW PRESELCTOR, 136-154 MHZ	\$500.00
X265AM	BR PRESELCTOR, 150-174 MHZ	\$500.00
X265AP	ADD: BR PRESELECTOR 380-512 MHZ	\$500.00
X676BF	ADD: 700/800 MHZ EXTERNAL DUAL CIRCULATOR	\$1,000.00
X676BG	UHF EXTERNAL DUAL CIRCULATOR (435-494 MHZ)	\$1,500.00
X676BJ	ADD: EXT DUAL CIRCULATOR, 136-146 MHZ	\$1,500.00
X676BI	ADD: EXT DUAL CIRCULATOR, 144-160 MHZ	\$1,500.00
X676BH	ADD: EXT DUAL CIRCULATOR, 158-174 MHZ	\$1,500.00
Conventional Hardware:		MSRP
CA01958AA	T2-2R RECEIVER MUTE	\$2,000.00
CA01959AA	T3-3R RECEIVE MUTE	\$2,000.00
CA01960AA	T4-4R RECEIVER MUTE	\$2,000.00
CA01961AA	RCVR SOFT NO SPLITTER	\$400.00
CA01957AA	T1-2R W/TALKAROUND	\$1,200.00
CA01962AA	T2-2R DUPLXR &TRPL RELAY	\$4,000.00
Cables:		MSRP

CA01400AA	ADD: POWER CABLE, DC	N/C
Rack Mount Hardware:		MSRP
X153AW	ADD: RACK MOUNT HARDWARE	\$50.00
Replacement Parts:		MSRP
DLN6895	FRU: PA 7/800 MHz	\$1,200.00
DLN6896	FRU: PA UHF R2	\$1,200.00
DLN6891	FRU: PA UHF R1	\$1,561.00
DLN6897	FRU: PA VHF	\$1,828.00
DLN6935A	FRU: 150W PA 800MHZ	\$12,500.00
DLN6883	FRU: XCVR 7/800 MHZ V2 W/OPT CARD	\$4,000.00
DLN6886	FRU: XCVR UHF R2 V2 W/OPTION CARD	\$4,000.00
DLN6887	FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	\$4,000.00
DLN6889	FRU: XCVR UHF R1 V2 W/OPTION CARD	\$4,000.00
DLN6890	FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	\$4,000.00
DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	\$4,000.00
DLN6781	FRU POWER SUPPLY	\$2,200.00
DLN6805	FRU: PWR EFF POWER SUPPLY CEC	\$2,200.00
DLN6795	FRU: T2-2R RECEIVER MUTE	\$2,000.00
DLN6796	FRU: T3-3R RECEIVE MUTE	\$2,000.00
DLN6797	FRU: T4-4R RECEIVER MUTE	\$2,000.00
DLN6798	FRU: RCVR SOFT NO SPLITTER	\$400.00
DLN6799	FRU: T1-2R W/TALKAROUND	\$1,200.00
DLN6800	FRU: T2-2R DUPLXR &TRPL RELAY	\$4,000.00
DLN6821	FRU: GTR ANALOG 4W E&M SIMULCST KIT	\$250.00
DLN6898	FRU: FAN MODULE	\$206.00
DLN6455	CONFIGURATION/SERVICE SOFTWARE	\$25.00

US VERSION

MTR3000 SATELLITE RECEIVER

VHF & UHF, 800/900 MHz

RESELLER PRICES

MODELS & OPTIONS

Please note: The MTR3000 Satellite Receiver has been discontinued and is no longer available for purchase. The below software and accessory sections for this receiver will be retained for reference purposes

		MSRP
Software:		
RVN5115	Portable, Mobile, and Repeater Customer Programming Software (CPS) Package - Software package includes CPS, Air Tracer, Tuner, Repeater Diagnostic Control, and the MOTOTRBO System Planner. 3 Year Subscription Package Software is compatible with Windows XP & Windows Vista (Home and Professional versions) and Windows 7; support for Windows 2000 ended 6/30/09. Note: Software requires a license agreement and is not intended for resale.	\$265.00
DDN9957	HI-SPEED USB CABLE 6FT (TYPE A -B)	\$20.00

Kits & Accessories: MTR3000 Field Replaceable Units (FRUs)

All Field Replacement Units (FRUs) are available through Customer Care and Service Division (RPSD) 1-800-927-2744.

FRU MTR3000 Satellite Receivers:

DLN6776	FRU: MTR3000 RECEIVER EXCITER FRU	\$100.00
DLN6777	FRU: MTR3000 RECEIVER PA FRU	\$100.00

SPEAKERS/TEST CABLE:

HSN1006	EXTERNAL SPEAKER	\$104.00
0185180U01	CABLE FOR EXTERNAL SPEAKER	\$18.25
30009493001	RECEIVER AUDIO TEST CABLE	\$65.25

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US VERSION

BATTERY REVERTING CHARGER FOR USE WITH MOTOROLA MTR2000 BASE STATIONS

RESELLER PRICES

These battery reverting charger units charge and maintain the radio battery bank in a float type application. The system provides automatic reverting to a battery bank when main AC power fails and also provides separate charging capability.

BASIC PACKAGE INCLUDES:

- Auto Transfer Circuit
- Low Voltage Disconnect
- Stand Alone Box
- Auto Equalize
- Battery "On" Indicator
- Overvoltage Protection & Indicator
- Float and Automatic Equalize Circuitry
- Output Current Indicator
- Temperature Compensation Capability (optional)
- Charger Failure Indicator
- Rack Mountable

MODEL	DESCRIPTION	MSRP
L1883	Battery Reverting Charger, 14-volt (12-volt nominal) (for 30 Watt, 40 Watt and Receive Only models)	\$1,619.00
L1884	Battery Reverting Charger, 28-volt (24-volt nominal) 25-100 Watt	\$1,619.00

Peripherals:

CDN6226A	Cable Interface, Station to Charger	\$66.15
CDN6227A	Cable Interface, Battery to Charger	\$85.70
TDN9879A	Temperature Sensor	\$40.00

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<https://learning.motorolasolutions.com/>

US VERSION

VXR-7000 DESKTOP REPEATER VERTEX STANDARD VHF & UHF

RESELLER PRICES

VXR-7000 Desktop Repeater Features:

- 12.5/25 kHz Switchable Channel Spacing
- 16 Channels
- Output Power 10~50 Watts Adjustable
- Programmable Busy Channel Lock Out
- Programmable Busy Timer Lock Out
- CWID
- CTCSS / DCS Codes
- Automatic DC Power Supply Back Up
- 100% Continuous Duty Cycle

The available channel stepping frequency ranges for the VXR-7000 are 2.5kHz, 5kHz, 6.25kHz, 10kHz, and 12.5kHz

Repeater Package Items

Untuned duplexers for the VXR-7000 are available.

The duplexers must be order separately.

The desktop microphone must be ordered separately.

Repeater CPS is downloadable from MOL.

Warranty Policy

Repeater warranty is 3 Years. For warranty repair, repeater must be sent to Vertex Standard directly. Please contact Vertex Standard at 1-800-2Vertex. Vertex Accessory warranty is 1 year. For warranty, please contact Motorola Customer Service at 1-800-927-2744 for a warranty

Service Repair Policy

VXR-7000 repeaters are supported by Motorola's 45 Day DOA Policy. For 45 day DOA radios, please contact Motorola's Customer Service at 1-800-927-2744. After 45 days, please contact Vertex Standard directly for all repair services at 1-800-2Vertex for the required repair request form. All service charges will require credit card payment.

Return Policy

These products are supported by the Motorola Return Policy. All product must be returned with factory box, packing materials, owner's manual & warranty cards. Contact Motorola Customer Service at 1-800-927-2744 for return authorization.

Post Sales Support

For post-sales technical inquiries and support needs, please contact Vertex Standard directly at 1-800-2Vertex.

MODEL	DESCRIPTION	MSRP
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STEP 1:

Select One (1) of the following Desktop Repeater Models

A13670010 VXR-7000VC PKG-1; 50W 150-174 Mhz, 16 Ch

\$1,650.00

A13680014 VXR-7000UD PKG-1; 50W 450-480 Mhz, 16 Ch \$1,650.00

STEP 2:

AAF13X001 MD-12A8J Mobile Desktop Microphone \$102.00

STEP 3:

All duplexers have female type "N" connectors.

Select One (1) Untuned Duplexer

XUFIP0002 Untuned VHF Duplexer for VXR-7000, 148-160 MHz \$410.00

XUFIP0001 Untuned UHF Duplexer for VXR-7000, 440-480 MHz \$410.00

STEP 4:

Select cable option if duplexer was ordered above.

AAA21X001 CT-68 Duplexer Installation Cable Kit \$63.00

MODEL	DESCRIPTION	MSRP
Service information is in the GR Series Service Manual 6880903Z42 and RSS programming information is in the 6880903Z43 which can be ordered separately. The only Repeater Controller that requires GM300 RSS is the HLN8388.		
AAF13X001	MD-12A8J Mobile Desktop Microphone	\$102.00
AAA21X001	CT-68 Duplexer Installation Cable Kit	\$63.00
XUFIP0002	Untuned VHF Duplexer for VXR-7000, 148-160 MHz	\$410.00
XUFIP0001	Untuned UHF Duplexer for VXR-7000, 440-480 MHz	\$410.00
A06420002	VPL-1 Programming Cable	\$87.00

US VERSION

MC2500™ DESKTOP CONTROLLERS Models

RESELLER PRICES

MC2500 Models Include:

- 4 Frequency Station Control	- 120V AC - 60 Hz Po - LTR® Compatible	- Black Color
- Push-to-Talk Handset	- Supervisory Takeover - Service Manual	- Volume Control / Transmit LED
- 2 or 4 Wire	- Operator Cross Mut - One Year Warranty	- Monitor Switch
- LOTL/LOBL		- Intercom

MC2500 Only Additional Features:

4 Base Station Control - Capable of controlling 4 Tone channels or 3 Tone channels and 1 DC channel.

Connector for Unselect Speaker

Individual Volume Control

Dedicated Logging Recorder Output

Radio Patch

Multi-Select

Multi-Tasking

All Mute

Aux I/O's

18 Programmable Buttons

2 Line x 20 Character Backlit Display

Multi-Frequency Capability - up to 16 frequencies on Tone

110V/220V AC - 50/60 Hz Power Supply

MDC Features:

- PTT Unit ID (Encode/Decode)
- Voice Selective Call (Encode/Decode)
- Call Alert/Short Call Alert (Encode/Decode)
- Status Message (Decode)
- Radio Enable/Disable (Encode)

- Radio Check (Encode)
- Emergency Alarm (Decode)

Securenet Coded/Clear Operation - Supports positive mode control (Tone)

Recent User Stack - Last nine records are stored for review at any time.

Also capable of E & M control on all channels. Use of a Tone or DC Remote Adapter is required when of a Tone or DC Remote Adapter is required when connected to a mobile in a tray.

RS232 Port - Allows RSS programming via computer or the logging of MDC1200 inbound/outbound Serial Printer Port activity for permanent record keeping on a serial printer.

Paging Encode- Allows you to selectively call a pager, portable, or mobile unit and eliminate the need to purchase a stand alone encoder. The following schemes are supported: QC II, 2 Tone, 5 Tone, 6 Tone, Digital Dial, Reach 1+1, GE 99, NEC 5 & 6, DTMF or Custom A and B tones.

Notes:

1. Intercom - Allows communication between desksets without accessing the radio frequency
2. Up to 10 remotes can be used in parallel.
3. MC Series remotes are not compatible with 900 MHz MaxTrac Mobiles.
4. MC2500 units require RSS programming software.
5. MC2500 unselect speaker port supports a passive speaker only.
6. For unexpected out-of-box failures or quality issues, the MC Series and MC3000 must be returned for warranty repair. Please refer to the user's manual. Units will be replaced if they are sent in a total of 3 times and continue to exhibit the same problem.
7. For L3277, radio interface cable not included. Must be ordered separately.

DC and Tone Remote Control Models Only:

- For DC and Tone Remote Control: If base is not remote capable, a Remote Adapter is required (see L3277).
- The L3217 Desksets support channel steering between 15 talkgroups over conventional or LTR® Trunking Systems.

For technical training of Motorola products, please visit:

<https://learning.motorolasolutions.com/>

MODEL	DESCRIPTION	MSRP
L3217	MC2500 Multi-Channel Remote Control	\$2,482.00

Tone & DC Remote Adapters - includes AC Power Supply (DDN7066) and Install/Service Manual:

L3277	DC Remote Adapter	\$552.00
General Accessories:		
HLN9457	Hardware Kit for use with the Expanded Accessory Connector (includes 16 connector pins, five (5) 8" wires with pins attached and an extra housing)	\$6.95
Extended Local Control Accessories (for use with L3211 and L3214):		
DDN6337	Junction Box (order appropriate cable below) For connecting up to 6 local control desksets to the station.	\$399.00
Radio Interface Cables (for use with DDN6337, L3276 and L3277):		
DDN6338	Radio Interface Cable (10 Ft.) for use with MaxTrac (16 pin accessory connector required), SM120™, M1225™, CDM750™, CDM1250™, CDM1550™ & CDM1550•LS+™	
DDN6340	Generic Radio Cable (10 Ft.) - unterminated, bare leads (can also be used with L3217)	\$50.00
Field Install Kits:		
DDN6481	Punch Block with Spark Gap (recommended)	\$405.00
DDN6516	Headset Jackbox - adds headset capacity (See MC3000 pages for compatible headsets)	\$110.00
DDN6668	Single Footswitch	\$94.00
DDN6341	110VAC Transformer for MC1000 models	\$69.00
DDN6342	110/220VAC - 50/60 Hz Power Supply for MC2000 and MC3000 models	\$219.00
DDN6339	110/220VAC - 50/60 Hz Power Supply for MC2500 models	\$350.00
DDN7066	110/220VAC - 50/60 Hz Power Supply for L3276 & L3277 Remote Adapters	\$195.00
Programming (MC2000 and MC2500 Models Only):		
RVN4178	Radio Service Software (includes CD-ROM)	\$265.00
DDN6367	Radio Service Software Cable AT (DB9)	\$35.00

US VERSION

MIP™ 5000 VoIP RADIO CONSOLE

RESELLER PAGES

MIP 5000 Console General Information:

The MIP 5000 VoIP Radio console is designed to provide customers an affordable solution to transmit dispatch quality voice over their existing Multicast enabled Ethernet network. The MIP 5000 radio console connects up to 100 users with flexible licensing that is available with 1, 4, 8, 12, 24, and 48 channel software options. In addition, up to 128 radio resources can be connected to the network and configured in the Console System Database Manager (CSDM). These configuration files can be saved on each operator position to allow the dispatcher to access and control different combinations of radio resources (up to 48 at a time).

MIP 5000 consists of Gateways which connect the radios to the Network and Operator Position components including: MIP 5000 application software, Personal Computer (PC), and Audio accessories

Gateways

There are 4 types of gateways available in a MIP 5000 system to interface to radios: Local, Tone, Digital, and MOTOTRBO. Gateways have a one to one relationship to radios. One gateway is required for each radio controlled.

Local Gateway L3482 controls radios, typically Mobiles in a Tray, via Microphone and Speaker connection and will support up to 16 frequency select (depending on radio capability).

Radio Interface Cables:

- Prewired cable for CDM Family: DDN6338
- Prewired cable for MCS2000: DDN6699
- Generic radio cable for use with XTL family: DDN6340 (Requires field install of XTL accessory connector)
- Map universal cable for use with MOTOTRBO/XPR family: PMKN4018 (Requires field install of DB25 for local gateway)

Tone Gateway L3483 controls base stations or repeaters with tone control signaling which will support up to 16 frequency select (depending on radio capability) via 600 Ohm lease lines. In addition, the tone gateway will also support E&M signaling.

DIU With a tone gateway connected to the 4 wire interface on a DIU, the MIP 5000 can talk/listen, change frequency and, select coded/clear. However, MIP 5000 does not support the ACIM link functionality of the DIU.

Digital Gateway L3484 acts as a virtual control head for specific Motorola radios or Consolettes via the SB9600 protocol. MIP 5000 will display the Alias ID if the individual Subscriber is configured to send it. MIP 5000 will provide the dispatcher access to the same number of frequencies the radio is capable of.

Mobiles supported are:

- APX 7500 Mobile in a tray (05 Control Head, Remote Mount)
- MCS2000 Model III
- Spectra/Spectra Plus Consolette W9
- ASTRO XTL5000 Consolette W9
- CDM1550 LS/LS+ - Requires Remote Kit (RLN4802) and Remote Cable Kit (RKN4077)

MIP 5000 Release	APX 7500 Firmware Version
R04.01.00	R09.00.00 or later
R04.01.01	R09.00.00 or later
R04.02.00	R10.00.00 or later

MOTOTRBO Gateway L3598 acts as a virtual control head for the MOTOTRBO XPR4550 control station via the XCMP protocol. MIP5000 will display the Alias ID when in analog or TRBO digital mode. MIP5000 will provide the dispatcher access to the same number of frequencies the radio is capable of. MOTOTRBO system types supported are:

- Conventional
- IP Site Connect
- Linked Capacity Plus
- Capacity Plus
- Connect Plus - Requires Connect Plus System Release 1.4b

MIP 5000 Release	XPR 4550 Firmware Version	XPR 5550 Firmware Version
R03.00.00	1.7.x	N/A
R03.00.01	1.7.x	N/A

R04.00.01	1.7.x	N/A
R04.00.00	1.8.x	N/A
R04.01.00	1.9.x	N/A
R04.01.01	1.11.x	N/A
R04.02.00	1.12.x	R02.30.01

Network

It is highly recommended that customers intending to use MIP 5000 in Public Safety situations use a dedicated network for dispatching. For non public safety situations, a MIP 5000 can be placed on an existing customer network. Network must support multicast addressing and be QoS enabled. For complete network requirements, see Specification Sheet on MOL or EYES.

MIP™ 5000 VoIP RADIO CONSOLE

Models

RESELLER PRICES

Personal Computer (PC)

It is highly recommended that customers intending to use MIP 5000 in Public Safety situations purchase the TT2833 Motorola certified HP desktop computer. If not purchasing Motorola computers, see Specification Sheet on MOL for Recommended Minimum Computer Specifications. R04.02.00 supports Windows 7 Professional Service Pack 1 (32 or 64 bit) and Windows 8.1 Professional (64-Bit). For Information Assurance Customers, the TT2833 is still the only certified solution.

ORDERING REQUIREMENTS

*** You must also order a DDN9867 MOTOTRBO Direct Connect Cable to connect the MOTOTRBO Gateway to the XPR 4550 or XPR 5550 Mobile ***

The MIP 5000 gateways do not ship with punch blocks or cables for connecting to base stations or radios. These must be ordered separately or provided by the customer. See the Accessories section below for cables that can be used for connecting to various radios.

Headset Jackbox

Every MIP 5000 operator position requires either a MIP 5000 USB Basic (Basic no longer available) or an Enhanced headset Jackbox. The Jackbox is needed for all standard (non USB) accessories. Each position requires a minimum of 1 and can support a maximum of 3 of any combination of Jackboxes. TT05522AA is the option for the Enhanced headset Jackbox.

A headset(s) may be used with the MIP 5000 Console. Each headset must be connected to a MIP 5000 USB Basic (Basic no longer available) or Enhanced Jackbox. A headset consists of two parts, a base and a top. A choice of two bases (CDN6281 and CDN6282) and several tops is provided. The MIP 5000 supports a maximum of two headsets per operator position.

Upgrades

Upgrades to R04.02.00 are available at no charge. Labor for upgrade installation is not reimbursable. To order contact System Support Center at 800-221-7144, option 4 on the call tree and request that a software case be opened.

Existing System Expansion

All new orders for Software and Gateways will ship with the latest release software – R04.02.00.

Adding Gateways: If adding gateways onto an existing R04.01.01 system or earlier, gateways will automatically downgrade during the installation process to match the software release running in the system.

Adding Operator Positions: If adding new operator positions to an existing R04.01.01 system or earlier, you will be required to upgrade the entire system (all Operator positions, CSDM and gateways) to R04.02.00. All operator positions and gateways in a MIP 5000 system must run the same version of software.

Instant Recall Recorder (IRR)

The Instant Recall Recorder (IRR) software with MIP 5000 allows users to record audio digitally on the MIP 5000 Operator position. Operator TX audio, Select and Unselect RX audio,

Telephone Call Director Audio or any combination may be recorded.

If PC is...	Order	Includes:
...TT2538A MIP 5000 Certified PC	DDN1612	IRR Software & License, Soundcard, and PC Speakers
...Customer PC w/o Speakers	DDN1612	IRR Software & License, Soundcard, and PC Speakers
...Customer PC with Speakers	DDN1611 & DDN1118	IRR Software & License, Soundcard

Note: MIP 5000 with IRR on a laptop is not a supported configuration Link to price pages; Dual Instant Recall Recorder

Pre-Install Support

Motorola now offers MIP 5000 Installers an exclusive conference call with a knowledgeable Technical Support consultant prior to going on site. If you previously have not installed a MIP 5000 system, we highly recommend this call at no charge to you to ensure a successful install. Motorola will cover the first 30 Minutes of the call, any additional support beyond the 30 Minutes will follow the standard MIP 5000 support process. Call 1-800-221-7144 option 2,3,3.

Network Equipment		
Model Number	Description	MSRP
CLN1836	HP Switch 2610-24	\$2,250.00

MIP™ 5000 VoIP RADIO CONSOLE

Models & Accessories

RESELLER PRICES

Model Number	Description	MSRP
Gateways:		
L3482AC	MIP5000 VoIP Local Gateway PS California Compliant - Provides one MIP 5000 Local Gateway. Each gateway is capable of supporting one local control radio. Punch blocks and cabling for connecting to the radio are not included in the L3482AC. An Ethernet cable (not included) is also required for each L3482AC	\$798.00
L3483AC	MIP 5000 VoIP Tone Gateway PS California Compliant - Provides one MIP 5000 Tone Gateway. Each gateway is capable of supporting one tone remote controlled base station. Punch blocks and cabling for connecting to the station are not included in the L3483AC. An Ethernet cable (not included) is also required for each L3483AC.	\$798.00
L3484AC	MIP 5000 VoIP Digital Gateway PS California Compliant - Provides one MIP 5000 Digital Gateway. Each gateway is capable of supporting one SB9600-capable radio. Punch blocks and cabling for connecting to the radio are not included in the L3484AC. An Ethernet cable (not included) is also required for each L3484AC	\$798.00
L3598AC	MIP5000 VoIP MOTOTRBO Gateway - Provides one MIP 5000 MOTOTRBO Gateway. Each gateway is capable of supporting one XPR4550 or XPR 5550 radio. Punch blocks and cabling for connecting to the radio are not included in the L3598AC. An Ethernet cable (not included) is also required for each L3598AC.	\$798.00

DDN8671 15 Ft Null Modem Cable DB9 F/F \$13.00
 1 cable required per system to configure the gateway

DDN8672AC Spare Power Supply for MIP 5000 Gateway w/ Power Cable California Compliant \$146.00

MIP 5000 Software Channels:

L3485 MIP5000 VoIP Dispatch SW 1 Ch. - Provides the software application and licenses for one MIP 5000 1 Ch. Dispatch console. Allows a dispatcher to access and control one MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateway. The PC, microphone, speakers and headset are not included and must be provided separately. \$1,500.00

L3486 MIP5000 VoIP Dispatch SW 4 Ch. - Provides the software application and licenses for one MIP 5000 4 Ch. Dispatch console. Allows a dispatcher to access and control up to four MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways. The PC, microphone, speakers and headset are not included and must be provided separately. \$2,500.00

L3487 MIP5000 VoIP Dispatch SW 8 Ch. - Provides the software application and licenses for one MIP 5000 8 Ch. Dispatch console. Allows a dispatcher to access and control up to eight MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways. The PC, microphone, speakers and headset are not included and must be provided separately. \$6,500.00

L3499 MIP5000 VoIP Dispatch SW 12 Ch. - Provides the software application and license for one MIP 5000 12 Ch Dispatch console. Allows a dispatcher to access and control up to 12 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways. The PC, microphone, speakers and headset are not included and must be provided separately. \$10,500.00

L3567 MIP5000 VoIP Dispatch SW 24 Ch. - Provides the software application and USB Hasp Key for one MIP5000 24-Channel dispatch console. Allows a dispatcher to access and control up to 24 MIP5000 Local, Tone, Digital, or MOTOTRBO Gateways. The PC, microphone, speakers, and headset are not included and must be provided separately. \$15,500.00

L3630 MIP5000 VoIP Dispatch SW 48 Ch. - Provides the software application and USB Hasp Key for one MIP5000 48-Channel dispatch console. Allows a dispatcher to access and control up to 48 MIP5000 Local, Tone, Digital, or MOTOTRBO Gateways. The PC, microphone, speakers, and headset are not included and must be provided separately. \$25,000.00

MIP 5000 Options for Software:

TT05522 MIP5000 Enhanced Model USB Headset Jackbox \$575.00

MIP™ 5000 VoIP RADIO CONSOLE

Models & Accessories

RESELLER PRICES

Model Number	Description	MSRP	
MIP 5000 Software Channels:			

TT2194 Expansion software from 12 channel to 24 channel capability \$5,500.00

TT2193 Expansion software from 8 channel to 24 channel capability \$9,500.00

TT2192 Expansion software from 4 channel to 12 channel capability \$8,500.00

TT2191 Expansion software from 4 channel to 24 channel capability \$13,000.00

TT2225 Expansion software from 8 channel to 12 channel capability \$4,500.00

TT2745	Expansion software from 4 channel to 48 channel capability	\$23,000.00
TT2746	Expansion software from 8 channel to 48 channel capability	\$19,000.00
TT2747	Expansion software from 12 channel to 48 channel capability	\$15,000.00
TT2748	Expansion software from 24 channel to 48 channel capability	\$10,000.00

Note: Orders place for Expansion Software must be accompanied by telephone call to System Support Center (SSC) to open an entitlement case. Before your MIP 5000 Expansion Software order can ship you must call Support Center at 800-221-7144, option 4 on the call tree and request a software case be opened. Be prepared to provide the Factory Order (FO) # and the Serial number of currently installed software as well as the new FO# for Expansion SW.

Demo Equipment:		
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L3544	MIP5000 4 Ch. Demo Software	\$750.00
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The 4 channel MIP 5000 Demo Software provides software to dealers at a significant discount. This discount is made available to dealers who want to set up a working MIP 5000 system for Customer demo purposes. The offer is limited by the number of dealership offices To complete the demo system, the following components need to be ordered:

- 1) Up to 4 MIP 5000 Gateways (L3482 local , L3483 tone, L3484 digital, L3598 MOTOTRBO)
- 2) DDN8671 Null Modem cable for programming the gateway.
- 3) DDN9492 USB Headset Jackbox,
- 4) B1914 Desktop Gooseneck Microphone.
- 5) Mobile radio with radio interface cables to connect the gateway to the radio
- 6) A desktop or laptop computer meeting MIP 5000 specifications
- 7) a set of PC Speakers
- 8) Subscriber to demonstrate RX and TX audio

L3615	MIP 5000 1 Channel MOTOTRBO Demo Kit	\$750.00
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Kit Includes:

- 1) 1 Channel MIP 5000 Software
- 2) 1 MIP 5000 MOTOTRBO Gateway
- 3) 1 MIP 5000 MOTOTRBO Direct Connect Cable

Limited to 1 Kit Per Dealer Site Location

Computers:		
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TT3225	Z2 MINI WORKSTATION 258G 8G NON RET	\$2,500.00
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DDN1244	SW Based IRR USB HASP with License, Sound Card, and Speakers for Windows 7 Kit includes software based Instant Recall Recorder (IRR) CD, USB HASP protection key, and Sound Blaster XFI Xtreme sound . A set of PC speakers are included to facilitate the playback audio from the telephone and radio lines.	\$2,935.00
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CDN6673	Set of 2 PC Speakers	\$46.00
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DSTG191	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH (4:3 Aspect Ratio)	\$1,398.00
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DSEV191	TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH (4:3 Aspect Ratio)	\$1,598.00
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DSTG221	TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH (Wide, 16:9 Aspect Ratio)	\$2,498.00
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DSEV221	TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH (Wide, 16:9 Aspect Ratio)	\$3,378.00
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Audio:		
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DDN9493	MIP5000 Enhanced Model USB Headset Jackbox	\$575.00
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	Supports 1 Plantronics two prong headset base and quick disconnect top, 1 footswitch BLN6732 and 1 gooseneck Microphone B1914, also provides port for Call Director, logging Recorder or External Pager port.	
B1914	MCC Series Desktop Gooseneck Microphone Provides one desktop style microphone. Includes transmit and monitor buttons, an 18" gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	\$250.00
BLN6732	Foot, Switch Tradition	\$135.00

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<https://learning.motorolasolutions.com/>

MIP™ 5000 VoIP RADIO CONSOLE

Accessories

RESELLER PRICES

Model Number	Description	MSRP
MOTOTRBO Gateway Radio Interface Cable:		
DDN9867	MOTOTRBO XPR4550 and XPR 5550 Direct Connect Cable	\$159.00
Digital GW Radio Interface Cables:		
DDN1463	APX 7500 Mobile Direct Connect Cable	\$230.00
DDN8350	MCS2000 III Direct Connect Cable	\$200.00
DDN8351	Consolette W9 Direct Connect Cable	\$100.00
DDN8352	CDM1550 Series Direct Connect Cable	\$100.00
Local GW Radio Interface Cables:		
DDN6338	Radio Interface Cable 4 Use with MAXTRAC, M1225, SM50, SM120, CDM1550 - For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	\$72.00
DDN6340	Generic Radio Cable with Unterminated Bare Leads - For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). <i>Provides 10 Ft. cable with DB 25 connector on one end</i>	\$50.00
DDN6699	Radio Interface Cable For the MCS2000	\$138.00
Headset Tops: (pick at least 1 headset top)		
RMN5077	Supraplus Single Muff Headset	\$110.00
RMN5078	Supraplus NC Single Muff Headset	\$149.00
RMN5079	Supraplus Dual Muff Headset	\$117.00
RMN5080	Supraplus NC Dual Muff Headset	\$139.00
Headset Bases: (1 per operator position)		
RLN6098	HDST Module Base w/ PTT, 15' Cbl	\$210.00
RLN6099	HDST Module Base w/ PTT, 25' Cbl	\$242.00
RackMount Kit:		
DDN8900	MIP5000 Rackmount Kit (Holds maximum of 2 gateways)	\$225.00

US VERSION

MONITORING & CONTROL NETWORK (MCN) FOR MIP 5000 CONSOLE

RESELLER PRICES

The MIP 5000 console system now supports Auxiliary I/Os via CTI's Monitoring Control Network Remote Comparator Display (MCN RCD) Client Server Software. This software provides real-time monitoring and control for a wide range of devices including doors, alarms, light switches, and other general purpose Auxiliary I/O applications. In addition, the MCN RCD system supports comparator/voting displays at the MIP 5000 console operator position. The MCN RCD Client Server Software is an IP based solution and can run on the same network as the MIP 5000 console. The MCN RCD system consists of two parts: The MCN RCD Server Software with HIB-IP Module and the specific interface module for the application. The interface module(s) can be General Purpose I/Os, Comparator module, or a combination of the two. The paired solution between the MIP 5000 console and the MCN RCD Client Server Software can support up to 192 inputs and 128 outputs.

Ordering Requirements:

STEP 1:

Order the MCN RCD Software with HIB-IP, DDN1388 – this will allow up to 4 MIP 5000 operator positions (clients) to share the I/O module status. If more than 4 operator positions are required, than the MCN SW Lic Opt Client Expansion for 4 Add'l Clients, DDN1295 is required.

STEP 2:

Order 1 power supply CDN6116 with every HIB-IP Module.

STEP 3:

Order the appropriate modules for the application. A maximum of 16 modules can be supported per HIB-IP.

- For General Purpose Aux I/Os, order DDN1385 (GPIO). Each DDN1385A can control 12 inputs and 8 outputs.
- For interfacing to ASTRO-TAC Comparators, order CDN6119 (AIB).
- For interfacing to SPECTRA-TAC Comparator, order CDN6121 (CIB).

STEP 4:

Order 1 power supply, CDN6116, for every 4 modules ordered in Step 3.

- Example 1: If you order 2 DDN1385 and 2 CDN6119, then order 1 CDN6116.
- Example 2: If you order 3 DDN1385 and 2 CDN6121, then order 2 CDN6116.

STEP 5:

Order the same number of network cables as the Quantity of modules ordered in Step 3. The following Network cable lengths are available:

- CABLE ASSY NETWORK 9 INCHES, CDN6123
- CABLE ASSY NETWORK 3 FT, CDN6124
- CABLE ASSY NETWORK 10 FT, CDN6125
- CABLE ASSY NETWORK 25 FT, CDN6126
- CABLE ASSY NETWORK 100 FT, CDN6127

Note: If rack mounting, the 9 inch cable should be used from module to module. To connect between rackmount shelves, the 3 FT cable should be used.

STEP 6:

Order 2 Network Terminator's, CDN6115, for every HIB (DDN1388) ordered in Step 1.

STEP 7:

Order appropriate cabling for modules:

For each GPIO and CIB module ordered in Step 3, order:

- 1 PUNCH BLOCK DUAL 25 PAIR, CDN6118
- 1 CABLE ASSY 25 PR M-NONE 25FT, CDN6135

And 1 of the cables below:

- CBL ASSY 25 PR MALE-MALE 10 FT, CDN6129

OR

- CBL ASSY 25 PR MALE-MALE 25 FT, CDN6130

For each AIB module ordered in Step 3, order CBL ASSY AIB COMPARATOR 10 FT, CDN6131

Order 1 CABLE KIT HIB PC AT/XT 6 FT, DDN6132 for every system

STEP 8:

It's recommended to order the appropriate manual for modules ordered in Step 1 and Step 3, manuals are not included with Modules.

Manuals for Modules in Step 1 – Both manuals are needed for DDN1388

- HIB HARDWARE GUIDE, CDN6110
- MCN SERVER SOFTWARE MANUAL DDN1402

Manuals for Modules in Step 3

- GPIO HARDWARE GUIDE, DDN1386
- AIB HARDWARE GUIDE, CDN6107
- CIB HARDWARE GUIDE, CDN6109

STEP 9: (Optional)

Order the appropriate quantity of rackmount shelves for modules ordered in Step 1 and Step 3.

- **DDN1387 is available to rackmount the MCN RCD HIB MODULE. Each rackmount will support 1 DDN1388 (Step 1) and two additional GPIO, AIB or CIB modules (Step 3).**
- Additional rackmount shelves for the GPIO, AIB or CIB modules ordered in Step 3, can be purchased with part number CDN6112. Each CDN6112 can support up to 4 modules.

MODEL NUMBER	DESCRIPTION	MSRP
<u>MCN Modules</u>		
DDN1388	MCN RCD Software and HIB-IP Module	\$7,000.00
DDN1385	MCN GPIO-1208C Input/Output Module	\$1,075.00
CDN6119	AIB ASTROTAC Interface Module	\$1,900.00
CDN6121	CIB Comparator Interface Module	\$775.00
<u>Software Expansion</u>		
DDN1295	MCN SW LIC OPT Client Expansion for 4 Additional Clients	\$2,765.00
<u>Power Supply</u>		
CDN6116	Power Supply MCN120 VAC	\$84.00
<u>Network Cables and Terminators</u>		

CDN6123	Cable Accessory Network, 9 IN	\$21.00
CDN6124	Cable Accessory Network, 3 FT	\$21.00
CDN6125	Cable Accessory Network, 10 FT	\$21.00
CDN6126	Cable Accessory Network, 25 FT	\$38.00
CDN6127	Cable Accessory Network, 100 FT	\$92.00
CDN6115	Network Terminator (Standard 78K Systems)	\$10.00

Parallel Input/Output Cables

CDN6129	Cable Accessory, 25 PR Male-Male, 10 FT	\$36.00
CDN6130	Cable Accessory, 25 PR Male-Male, 25 FT	\$55.00

Serial Cables

CDN6132	Cable Kit HIB PC AT/XT, 6 FT	\$30.00
CDN6131	Cable Accessory AIB Comparator, 10 FT	\$55.00

Manuals

CDN6110	HIB Hardware Guide	\$20.00
DDN1402	MCN Server Software Manual	\$28.00
DDN1386	GPIO Hardware Guide	\$20.00
CDN6107	AIB Hardware Guide	\$20.00
CDN6109	CIB Hardware Guide	\$20.00

Rack Mounting

DDN1387	MCN Accessory Rack Mount Kit Dual A + B	\$75.00
CDN6112	Rack Mount Quad Size A	\$78.00



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 7
Change Effective Date : 1/28/2022

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2022

Commodity Specialist: Raeden Hosler **Telephone:** 717-787-4103 **Email:** rhosler@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Mike Ciampagli, with any questions regarding products and pricing.

Mike Ciampaglia 410-303-9383 mike.ciampaglia@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.

2-WAY RADIO ACCESSORIES
APX 3000 & APX 4000 Product Series Radios
2-Way Radio Accessories

Adapters					
Description	Full Description	Nomenclature	APC	Price	
Adapters					
ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$65.00	
Antennas - APX 3000					
Description					
700/800- GPS ANTENNA	700/800-MHz whip antenna. 764-870 MHz	NAF5085A	555	\$45.00	
Antennas - APX 4000					
Description					
ANT,HCLC,136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136-174 MHz	NAR6593A	555	\$38.00	
UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380-520MHz	PMAE4065A	555	\$21.00	
UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$60.00	
700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$45.00	
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00	
UHFR2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$60.00	
Batteries					
Description					
BATT IMP STD LI ION 1250M 1300T	ONLY compatible with APX 3000 series radios	NNTN8305AR	453	\$115.00	
Battery Chargers					
Description					
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLNS382C	785	\$95.00	
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00	
INSERT, UNIVERSAL MUC	Only compatible with XTS Multi Unit Chargers	NNTN8170A	785	\$207.00	
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	PMPN4174A is a CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$76.00	
INSERT, UNIVERSAL SUC	Only compatible with XTS Single Unit Chargers	NNTN8169A	453	\$45.00	
US IMPRES SUC W/O LINEAR POWER SUPP	This is the charger base only. AC power supply must be purchased separately.	WPLN4243A	785	\$50.00	
CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA	Simultaneously charges up to 6 batteries or devices with IMPRES(TM) extended service life algorithms. Includes one display to view battery information.	PMPN4284A	785	\$655.00	
Battery Fleet Management					
Description					
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO, TRBO & APX adapter included).	NNTN7392	785	\$250.00	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
CHARGR INTRFCE UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00	
Bluetooth Mission Critical Wireless					
Description					
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00	
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00	
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00	
Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y-adapter and retention hook	NNTN8385A	742	\$100.00	
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip (NTN8457A)	NNTN8434A	742	\$515.00	
Bluetooth Mission Critical Wireless Replacement Parts					
Description					
EARTIPS, REPLACEMENT	Replacement eartips for NTN8294A, NTN8295A or NTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.15	
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00	
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00	
EARPIECE W/12" CABLE	Replacement cable for NTN2570C, FM Certified, MCW BT	NTN2572A	742	\$156.00	
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00	
COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	Pack of 10 adapters	NNTN8737A	742	\$401.00	
DISCREET EARPIECE KIT	Phonak Phonito Intra Ear Receiver	RLN4921	372	\$275.00	
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50	
Belt Clips					
Description					
BELT CLIP 2"	Compatible with NTN8128, NTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$12.00	
2.5-INCH BELT CLIP	Compatible with NTN8128, NTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$13.00	
Carrying Solutions - APX 3000					
Description					
APX3000 COVERT CARRY HOLSTER	-	PMLN6327A	271	\$30.00	
Carrying Solutions - APX 4000					
Description					
APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	ONLY compatible with the APX 4000 one-knob configuration	PMLN6085A	271	\$60.00	
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$15.50	
APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	ONLY compatible with the APX 4000 two-knob configuration	PMLN7162A	271	\$66.00	
CommPort					
CommPort Replacement Items					
Description					
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00	
Earpieces					
Description					
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$399.00	
Headsets					
Description					
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75	
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk. FM Certified and UL Approved	PMLN5101A	742	\$251.00	
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00	
Hearing Protection					
Heavy Duty Headsets by 3M Peltor					
Description					
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00	
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00	
HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-the-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00	
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00	
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00	
AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5135A	742	\$440.00	
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00	
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$284.00	
Public Safety Microphones (PSMs) - APX 3000 ONLY					
Description					

Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved, PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved, PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved, PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$164.00
Remote Speaker Microphones (RSMs)				
Description	Full Description	Nomenclature	APC	Price
IMPRES RSM NO DPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4101B	372	\$330.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	MNM6274A	372	\$405.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button, Rugged, Submersible (IP68)	MNM6271A	372	\$325.00
IMPRES RSM DPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4103B	372	\$345.00
ACCESSORY KIT APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$300.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button, FM Approved, Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	372	\$95.00
MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	APX Wireless RSM: includes battery and clip, DOES NOT INCLUDE CHARGER	RLN6544A	742	\$250.00
IMPRES RSM DPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4104B	372	\$454.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57), FM Approved and UL Approved	PMMN4065AL	372	\$107.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporting, Rugged (IP68), FM Approved	PMMN4083AL	742	\$125.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANC. EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button, FM Approved and UL Approved, Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$118.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55), FM Approved	PMMN4069AL	372	\$121.00
Remote Speaker Microphones (RSMs) Accessories and Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
BATT STD LION 1800T	Wireless RSM Battery, 1800mAh Lilon	PMN44461A	453	\$65.00
RUBBER EAR TIP CLEAR	Pack of 10 clear rubber ear tips	67009254001	742	\$9.95
CHR STD DUC EXT US/NA/JP/TAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$65.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104, FM Approved	RMN5116A	742	\$340.00
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$72.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY, FM Approved	RLN6424B	742	\$80.00
Surveillance Kits (Wired)				
Description	Full Description	Nomenclature	APC	Price
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector, Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter	ZMN6032	742	\$143.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector, *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6031	742	\$177.00
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6038	476	\$149.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige, FM Approved	PMLN6128A	742	\$108.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
BATT STD LION 1800T	Wireless RSM Battery, 1800mAh Lilon	PMN44461A	453	\$65.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$43.25
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige, FM Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black, FM Approved	PMLN6127A	742	\$108.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige, FM Approved	PMLN6124A	742	\$178.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black, FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige, FM Approved	PMLN6130A	742	\$126.00
1 WIRE RECEIVE ONLY SURVEILLANCE KIT WITH TRANSLUCENT TUBE, EXTRA LOUD	Compatible with APX 4000	RLN5313BXL	742	\$54.00

Updated Pricing for contract 4400016317 as of January 2022

Surveillance (Wired) Accessory Replacement Parts

Description	Full Description	Nomenclature	APC	Price
CMFRT EARRP W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00

APX 4000XH Radios
2-WAY RADIO ACCESSORIES
Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA, WHIP,ANTENNA, WHIP,800-900MHZ	CSA APPROVED	PMAF4020A	555	\$45.00

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK,LITHIUM ION,BATTERY PACK, IMPRES LIION CSA157 IP67 2050T	CSA APPROVED	NNTN8750A	453	\$224.00

Battery Charger

Not CSA Approved

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	RLN7967	785	\$21.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
INSERT, UNIVERSAL MUC	-	NNTN8170A	785	\$207.00
INSERT, UNIVERSAL SUC	-	NNTN8168A	453	\$45.00

Carrying Solutions
Audio Accessories

Description	Full Description	Nomenclature	APC	Price
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	CSA APPROVED	BDN6781	742	\$21.00
CSA157 TRBO NEXUS, 4 POLE	CSA APPROVED	NNTN8378A	742	\$305.00
DUAL MUFF CSA 157 HEADSET 24NRR	CSA APPROVED	NNTN8379A	742	\$456.00
DUAL MUFF CSA 157 HEADSET 26NRR	CSA APPROVED	NNTN8380A	742	\$419.00
HEAVY DUTY HEADSET PMLN5275C	CSA APPROVED	PMLN5275C	742	\$534.00
ATEX PTT ADAPTER, NEXUS 4 POLE	CSA APPROVED	PMLN6368A	742	\$265.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	CSA APPROVED	RLN4941A	742	\$71.00
RECEIVE ONLY SURV KIT (BLACK)/NOISE	CSA APPROVED	RLN5313B	742	\$55.50
RECEIVE ONLY SURV KIT(BEIGE)/NOISE	CSA APPROVED	RLN5314B	742	\$54.00
RX ONLY HRDHAT MNT 3.5MM RT PLUG	CSA APPROVED	RMN4054B	742	\$127.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporing (IP57). FM Approved and UL Approved	PMMN4065AL	372	\$107.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporing, Rugged (IP68). FM Approved	PMMN4083AL	742	\$125.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporing (IP55). FM Approved	PMMN4069AL	372	\$121.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANC. EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button. FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$118.00

Remote Speaker Microphones (RSM)

Description	Full Description	Nomenclature	APC	Price
MICROPHONE,SUBMERSIBLE REMOTE SPEAKER MIC	-	PMMN4040AL	372	\$88.00

APX 6000, 6000XE, 6000LI, 7000, 7000XE & SRX 2200 Product Series Radio
2-WAY RADIO ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
CHR IMP DISP DUC EXT US/NA/CA/LA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	RLN7967	785	\$21.00
APX CHARGER INSERT ADAPTER FOR XTS SINGLE-UNIT CHARGER	Only 1 SUC insert will ship. Only work in Single Unit Chargers. Requires charger containing Software Version 3.4 or greater.	NNTN7687A	785	\$45.00
APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	Six inserts will ship in one package. Only work in Multi Unit Chargers. Requires charger containing Software Version 3.4 or greater.	NNTN7686A	785	\$207.00
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,540.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US/JPN	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	NNTN8897A	785	\$1,100.00

Battery Chargers - SRX 2200

Description	Full Description	Nomenclature	APC	Price
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,540.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US/JPN	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	NNTN8897A	785	\$1,100.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO, TRBO & APX adapter included).	NNNT7392	785	\$250.00
CHGRG INTRFC UNT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit . attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
FLEET MANAGEMENT CHGRG INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Bluetooth Mission Critical Wireless

Note: requires QA00583 to be ordered in the APX radio in order to enable Bluetooth software

Description	Full Description	Nomenclature	APC	Price
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip: (NNTN8457A)	NNTN8434A	742	\$515.00
Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y-adapter and retention hook	NNTN8385A	742	\$100.00
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price
COMMERCIAL 3.5 EARBUD HEADSET ADAPTER, MULTIPACK (10)	Pack of 10 adapters	NNTN8737A	742	\$401.00
DISCREET EARPIECE KIT	Phonak Phonio Intra Ear Receiver	RLN4921	372	\$275.00
EARTIPS, REPLACEMENT	Replacement ear tips for NNTN8294A, NNTN8295A or NNTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.15
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$156.00

Belt Clips / Belt Loops / Radio Straps

Description	Full Description	Nomenclature	APC	Price
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00
2.5" PLASTIC BELT CLIP ATTACHMENT	2.57 Belt Clip is compatible with all APX subscribers except the APX4000 series	NNTN8266B	271	\$12.00
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$15.50
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$15.50
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$15.50
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00

Carrying Solutions - APX 6000

Description	Full Description	Nomenclature	APC	Price
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMNN4547A TIA battery. Replacement for PMLN5657B.	PMLN7904A	271	\$79.00
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMNN4547A TIA battery. Replacement for PMLN5658B.	PMLN7903A	271	\$67.00
UNIVERSAL HOLDER FOR STD MODELS	For APX leather case Standard model. Replacement for PMLN5709A.	PMLN7901A	271	\$32.00
UNIVERSAL HOLDER FOR XE MODELS	For APX leather case XE model. Replacement for PMLN5880A.	PMLN7902A	271	\$29.00

Carrying Solutions - APX 6000XE

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMMN4547A TIA battery. Replacement for PMLN5876A.	PMLN7905A	271	\$62.00
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMMN4547A TIA battery. Replacement for PMLN5875A.	PMLN7906A	271	\$65.00
UNIVERSAL HOLDER FOR XE MODELS	For APX leather case XE model. Replacement for PMLN5880A	PMLN7902A	271	\$29.00
Carrying Solutions - APX 7000				
Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-CASE,APX7000 FIRE	This carry case is a special design requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY000222A01	271	\$56.00
Carrying Solutions - SRX 2200				
CommPort				
Carrying Solutions - APX 7000XE				
Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-CASE,APX7000 FIRE	This carry case is a special design requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY000222A01	271	\$56.00
APX7000XE UNIVERSAL CARRY HOLDER	This is the standard carry case for the Model 3.5 (Dual Display/Keypad) version of the APX7000XE radio.	PMLN6102A	271	\$29.00
CommPort				
CommPort Replacement Items				
Description	Full Description	Nomenclature	APC	Price
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$399.00
Headsets				
Description	Full Description	Nomenclature	APC	Price
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk. FM Certified and UL Approved	PMLN5101A	742	\$251.00
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4084.	RMN4057	742	\$131.00
TACTICAL HARD-HAT MOUNT HEADSET, GRAY	TacticalPro Series Hard Hat Attached with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 22 dB	RMN4053	742	\$350.00
TACTICAL HEADBAND-STYL E HEADSET, GRAY	TacticalPro Series Over-The-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN4052	742	\$350.00
2-WAY HARD-HAT MOUNT HEADSET, BLACK	MT Series Hard Hat Attached with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 21 dB	RMN4051	742	\$299.00
Hearing Protection				
Heavy Duty Headsets by 3M Peltor				
Description	Full Description	Nomenclature	APC	Price
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-The-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$284.00
AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN5135A	742	\$440.00
Public Safety Microphones (PSMs) - APX 6000 & 7000				
Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$164.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00
Remote Speaker Microphones (RSMs) - SRX 2200				
Description	Full Description	Nomenclature	APC	Price
IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	PMMN4099B	372	\$145.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANC, EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button, FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$118.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57), FM Approved and UL Approved	PMMN4065AL	372	\$107.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55), FM Approved	PMMN4069AL	372	\$121.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporting, Rugged (IP68), FM Approved	PMMN4083AL	742	\$125.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4136A	372	\$450.00
Remote Speaker Microphones (RSMs) - APX 6000, 6000XE, 6000L, 7000, and 7000XE				
Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$300.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Black	NNTN8575ABLK	372	\$538.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER	RLN6544A	372	\$250.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN	XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68). FM Approved. Green	NNTN8575A	372	\$538.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4101B	372	\$330.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4104B	742	\$454.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4103B	372	\$345.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55	IMPRES Windporting RSM with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button, Rugged, Submersible (IP68)	NMN6271A	372	\$325.00
IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	PMMN4099B	372	\$145.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANC, EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button, FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$118.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57), FM Approved and UL Approved	PMMN4065AL	372	\$107.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55), FM Approved	PMMN4069AL	372	\$121.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporting, Rugged (IP68), FM Approved	PMMN4083AL	742	\$125.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4136A	372	\$450.00
Remote Speaker Microphones (RSMs) Accessories and Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$72.00
BATT STD LILION 1800T	Wireless RSM Battery, 1800mAh Lilon	PMMN4461A	453	\$65.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$340.00
CHR STD DUC EXT US/NA/JPN/TAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$65.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	3009402001	372	\$90.00
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	3009402002	372	\$175.00
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber ear tips	67009254001	742	\$9.95
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00

Surveillance Kits (Wired)				
Description	Full Description	Nomenclature	APC	Price
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$43.25
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$41.25
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NNTN8613 adapter.	ZMN6031	742	\$177.00
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	742	\$123.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NNTN8613 adapter	ZMN6032	742	\$143.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NNTN8613 adapter.	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$126.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6124A	742	\$178.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6123A	742	\$178.00
1 WIRE RECEIVE ONLY SURVEILLANCE KIT WITH TRANSLUCENT TUBE, EXTRA LOUD	Compatible with APX 6000XE, APX 7000XE	RLN5313BXL	742	\$54.00

Surveillance (Wired) Accessory Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$117.00

APX Vehicular Adaptor

 The APX Vehicular Adaptor (APX VA) is compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200 radios. VHF NOT supported.
 For ordering information, compatible accessories and specifications of the APX VA please click here

Description	Full Description	Nomenclature	APC	Price
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,540.00

**For APX 8000 Radios
2-WAY RADIO ACCESSORIES**

Antennas				
Description	Full Description	Nomenclature	APC	Price
APX 7000 GPS STUBBY ANTENNA	This antenna is needed when a user has a Public Safety Microphone attached to the radio and still requires GPS capability. Attaches to the APX radio directly and is only used when the radio is operating in a single band configuration of UHF or 700/800 MHz.	NAG4000	555	\$18.00
UHF/R2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$60.00
ANT 1/4 WAVE /7800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 784-870 MHz	NAR6595A	555	\$29.00
UHF 1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$60.00
APX PSM 700/800MHZ ANTENNA	This antennas is tested and certified to work with the PSM on the APX 6000/XE/LI and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band); UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna.	PMAF4002	372	\$12.00
ANTENNA, ANTENNA, WHIP, ANTENNA, WHIP, 700-800MHZ	-	PMAF4040A	555	\$37.00
UHF (380-520) /7-800 GPS	-	PMAS4001A	555	\$31.00
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00
Batteries				
Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION R IP68 5100T	-	PMNN4494	453	\$198.00
BATT IMPRES 2 LIION R IP68 3400T	-	PMNN4486	453	\$163.00
BATT IMPRES 2 LIION R IP68 4850T	-	PMNN4487	453	\$189.00

BATT IMPRES 2 LION R IP68 2550T		-	PMNN4485	453	\$146.00
Battery Chargers					
Description	Full Description	Nomenclature	APC	Price	
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NALA-PLUG, ACC USB CHGR	NNTN8844A contains USA power cord. If needed please order one of the power cords listed below.	NNTN8844A	785	\$1,315.00	
CHR IMP DISP DUC EXT US/NA/CA/LA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00	
Battery Fleet Management					
Description	Full Description	Nomenclature	APC	Price	
FLEET MANAGEMENT CHGRG INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
CHGRG INTRFCUE UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO, TRBO & APX adapter included)	NNTN7392	785	\$250.00	
IMPRES Battery Fleet Management Software can be downloaded here. Bluetooth Mission Critical Wireless Note: requires Bluetooth option to be ordered in the APX radio					
Description	Full Description	Nomenclature	APC	Price	
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00	
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$139.00	
ACCY.KIT.EAR.PIECE.2W.SHORT.CORD.BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00	
Bluetooth Mission Critical Wireless Replacement Parts					
Description	Full Description	Nomenclature	APC	Price	
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00	
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50	
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00	
PWR SUPPLY, SMPs, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00	
EARPIECE W/12" CABLE	Replacement cable for NTN2570C, FM Certified; MCW BT	NTN2572A	742	\$156.00	
Belt Clips / Belt Loops / Radio Straps					
Description	Full Description	Nomenclature	APC	Price	
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00	
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$15.50	
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$15.50	
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$15.50	
CARRY CASE SHOULDER STRAP	Adjustable nylon Carrying Strap	NTN5243A	271	\$23.00	
2.5" PLASTIC BELT CLIP ATTACHMENT	2.5? Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8268B	271	\$12.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. *(HT750, HT1250, HT1250?LS+ & HT1550?XLS - not compatible with UHF models)	HLN6602	271	\$38.00	
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	Replacement for PMLN5657B	PMLN7904A	271	\$79.00	
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	Replacement for PMLN5658B	PMLN7903A	271	\$67.00	
UNIVERSAL HOLDER FOR STD MODELS	Replacement for PMLN5709A	PMLN7901A	271	\$32.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMNS508A	742	\$92.75	
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00	
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00	
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4052, PMMN4059 or PMMN4084	RMN5132A	742	\$147.00	
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00	
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00	
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00	
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4084.	RMN4057	742	\$131.00	
Hearing Protection					
Public Safety Microphones (PSMs)					
Description	Full Description	Nomenclature	APC	Price	
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHF-R1 PSM is PMAE4065A	PMMN4059B	372	\$164.00	
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHF-R1 PSM is PMAE4065A	PMMN4060B	372	\$164.00	
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button, IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$164.00	
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00	
APX PSM 700/800MHZ ANTENNA	This antennas is tested and certified to work with the PSM on the APX 6000/XE/LI and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band); UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna	PMAF4002	372	\$12.00	
UHF (380-520) /7-800 GPS	-	PMA54001A	555	\$31.00	
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00	
ANTENNA, ANTENNA, WHIP,ANTENNA, WHIP,700-800MHZ	-	PMAF4040A	555	\$37.00	
Remote Speaker Microphones (RSMs)					
Description	Full Description	Nomenclature	APC	Price	
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4104B	372	\$454.00	
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4103B	372	\$345.00	
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4101B	372	\$330.00	
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00	
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology. Volume Control, 1-Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$325.00	
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00	
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$300.00	
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$590.00	
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00	
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00	
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00	
Remote Speaker Microphones (RSMs) Accessories and Replacement Parts					
Description	Full Description	Nomenclature	APC	Price	
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$90.00	
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104, FM Approved	RMNS116A	742	\$340.00	
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$90.00	
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$175.00	
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5.08E+103	742	\$29.25	
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00	

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber ear tips	67009254001	742	\$9.95
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$7.90
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
RX ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN6424BXL	742	\$120.00

Surveillance Kits (Wired)				
Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$108.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$108.00
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$126.00
ADAPTER-APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$65.00

**APX 8000XE Radios
2-WAY RADIO ACCESSORIES**

Antennas				
Description	Full Description	Nomenclature	APC	Price
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz. GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$29.00
UHF (380-520) 7/800 GPS	-	PMA54001A	555	\$3.00
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00

Batteries				
Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 3400T	-	PMNN4504	453	\$193.00
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 4850T	-	PMNN4505	453	\$221.00
BATT IMPRES 2 LIION TIA4950 R IP68 3100T	-	PMNN4547A	453	\$169.00
BATT STD LIION 1800T	BATTERY FOR RLN6554 WIRELESS REMOTE SPEAKER MICROPHONE	PMNN4461A	453	\$65.00

Battery Chargers				
Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	-	NNTN8844A	785	\$1,315.00
CHR IMP DISP DUC EXT US/NA/CALA	Dual-Unit IMPRES charger with two displays	NNTN7593A	785	\$413.00
CHARGER,CHR IMP VEH EXT NA/EU KIT	-	NNTN7624C	785	\$472.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$157.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	-	NNTN8863A	785	\$157.00

Battery Fleet Management				
Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFC UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit - attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

IMPRES Battery Fleet Management Software can be downloaded here.

Bluetooth Mission Critical Wireless

Note: requires Bluetooth option to be ordered in the APX radio

Bluetooth Mission Critical Wireless Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$350.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$700.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,100.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00
ACCY KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$180.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00

Bluetooth Mission Critical Wireless Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$29.50
EARPIECE W/12" CABLE	Replacement cable for NTN2570C, FM Certified; MCW BT	NTN2572A	742	\$156.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00

Belt Clips / Belt Loops / Radio Straps				
Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN8875A	271	\$13.00
2.5" PLASTIC BELT CLIP ATTACHMENT	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$12.00
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$15.50
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$15.50
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$15.50
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$23.00
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$20.00
ACCESSORY KIT FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
ACCESSORY KIT FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
ACCESSORY KIT ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	-	NNTN8749A	372	\$75.00

Carry Solutions				
Description	Full Description	Nomenclature	APC	Price
APX6000 CC 2.75 SWL BL 4200MAH	-	PMLN5659B	271	\$74.00
APX6000 CC 3 FIX BL 4200MAH	-	PMLN5660B	271	\$69.00
APX6000 UNIVERSAL CARRY HOLDER	-	PMLN5709A	271	\$29.00
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$55.00
BREAKAWAY CHEST PACK	-	RLN4570A	271	\$95.00
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. *(HT750, HT1250, HT12507LS+ & HT15507XLS - not compatible with UHF models)	HLN6602	271	\$38.00
CARRY ACCESSORY-STRAP WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
CARRY ACCESSORY-STRAP,XL WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$50.00
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMNN4547A TIA battery. Replacement for PMLN5875A	PMLN7906A	271	\$65.00
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMNN4547A TIA battery. Replacement for PMLN5876A	PMLN7905A	271	\$62.00
UNIVERSAL HOLDER FOR XE MODELS	Replacement for PMLN5880A	PMLN7902A	271	\$29.00

Headsets				
Description	Full Description	Nomenclature	APC	Price
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$92.75
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM/79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00

Description		Full Description	Nomenclature	APC	Price
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG		HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B		HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
Hearing Protection					
Description		Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS		-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS		-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS		-	RLN6513A	742	\$28.50
Remote Speaker Microphones (RSMs)					
Description		Full Description	Nomenclature	APC	Price
IMPRES RSM D5PLY W JACK, W CHNL		IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4104B	372	\$454.00
IMPRES RSM D5PLY W JACK, NO CHNL		IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4103B	372	\$345.00
IMPRES RSM NO D5PLY W JACK, NO CHNL		IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button, Windporting, Rugged, Submersible (IP68), FM Approved	HMN4101B	372	\$330.00
IMPRES RSM DELTA-T		IMPRES RSM Windporting, Rugged (IP68), FM Approved	PMMN4083A	742	\$125.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX		IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button, FM Approved, Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$95.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES WINDPORTING RSM, IP55		IMPRES Windporting RSM with Volume Toggle Switch, Orange Button, 3.5mm NON-Threaded Jack (IP55)	PMMN4099A	372	\$132.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION		IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button, Rugged, Submersible (IP68)	NMN6271A	372	\$325.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK		IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP		APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER	RLN6554A RLN6544A	372 372	\$300.00 \$250.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE GREEN		XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68), FM Approved, Green	NNTN8575A	372	\$538.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES XE RSM XT CABLE BLACK		XE RSM with Xtreme Temperature Cable. Dual microphone noise cancellation technology. Submersible (IP68), FM Approved, Black	NNTN8575ABLK	372	\$538.00
*AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN		-	PMMN4106B	372	\$550.00
XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL		-	PMMN4107A	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB		-	PMMN4107ABLK	372	\$550.00
IP68 REMOTE SPEAKER MICROPHONE 3.5MM,UL		-	PMMN4099B	372	\$145.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MICROPHONE, BLACK WITH KNOB		-	PMMN4132ABLK	372	\$665.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITH KNOB		-	PMMN4132A	372	\$665.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB		-	PMMN4137A	372	\$590.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB		-	PMMN4137ABLK	372	\$590.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB		-	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB		-	PMMN4136A	372	\$450.00
XE500 BLACK HOSIUNG, CHANNEL KNOB, XTREME TEMPERATURE CABLE		-	PMMN4106CBLK	372	\$616.00
Remote Speaker Microphones (RSMs) Accessories and Replacement Parts					
Description		Full Description	Nomenclature	APC	Price
DISPLAY RSM GCAI, REPLACEABLE CABLE		Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	307536B17	372	\$90.00
RX/TX BOOMLESS TEMPLE TRANSDUC		Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104, FM Approved	RMN5116A	742	\$340.00
RUBBER EAR TIP, CLEAR		Pack of 10 clear rubber ear tips	67009254001	742	\$9.95
REPLACEMENT CLEAR ACOUSTIC TUBE		-	0105954029	795	\$7.90
IMPRES RSM REPL COIL CORD		Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
REPLACEMENT RUBBER EARTIPS, CLEAR		-	5.08E+103	742	\$29.25
RX ONLY EARPIECE W/TRANSLUCENT TUBE		Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY, FM Approved	RLN6424B	742	\$80.00
RSM REPLACEMENT CABLE ASSEMBLY		Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$175.00
EAR RCVR W/COIL CBL83.5MM PLUG		-	WADN4190B	742	\$44.25
RSM REPLACEMENT CABLE		Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$90.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE		-	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE		-	AARLN4885	742	\$25.75
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG		HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4084.	RMN4057	742	\$131.00
BATT STD LIION 1800T		BATTERY FOR RLN6554 WIRELESS REMOTE SPEAKER MICROPHONE	PMMN4461A	453	\$65.00
Surveillance Kits (Wired)					
Description		Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BEIGE		IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige, FM Approved	PMLN6130A	742	\$128.00
1 WIRE SURVEILLANCE KIT-BLACK		1-Wire Receive-only earpiece, black, FM Approved	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE		1-Wire Receive-only earpiece, beige, FM Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK		IMPRES 2-Wire Surveillance Kit, programmable button, black, FM Approved	PMLN6127A	742	\$108.00
IMPRES 2 WIRE SURVEILLANCE-BGE		IMPRES 2-Wire Surveillance Kit, programmable button, beige, FM Approved	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK		IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black, FM Approved	PMLN6129A	742	\$122.00
RECEIVE NLY SURV KIT (BLACK) /NOISE		1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5313B	742	\$55.50
Surveillance (Wired) Accessory Replacement Parts					
Description		Full Description	Nomenclature	APC	Price
SURVEILLANCE HIGH NOISE KIT		-	RLN5887A	742	\$32.00
SMALL CUSTOM EARPIECE, RIGHT EAR		-	RLN4760	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR		-	RLN4761	742	\$20.50
LARGE CUSTOM EARPIECE, RIGHT EAR		-	RLN4762	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR		-	RLN4763	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR		-	RLN4764	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR		-	RLN4765	742	\$20.50
SURVEILLANCE LOW NOISE KIT		-	RLN5886A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE		-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR-50/PAK		-	RLN6282A	742	\$45.25
Tactical Kit					
Description		Full Description	Nomenclature	APC	Price
ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER		-	PMLN6766A	742	\$377.00
ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE		-	PMLN6827A	742	\$234.00
ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH		-	PMLN6767A	742	\$182.00
ACCESSORY KIT,TACTICAL EAR MICROPHONE		-	PMLN6829A	742	\$325.00
ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH		-	PMLN6830A	742	\$52.00
APX NEXT ACCESSORIES					
Antennas					
Description		Full Description	Nomenclature	APC	Price
ANTENNA, STUBBY STUBBY 65MM (760-870 MHZ)		-	AN000296A01	555	\$30.00
ANTENNA, WHIP,WHIP, ALL BAND		-	AN000297A01	555	\$110.00
ANTENNA, WHIP 7/800 WHIP, 16CM		-	AN000392A01	555	\$45.00
ANTENNA, WHIP,UHF WHIP, 14CM		-	AN000393A01	555	\$45.00
Batteries					
Description		Full Description	Nomenclature	APC	Price
BATTERY PACK,IMPRES GEN2, LIION,IP68, 3850T		-	NNTN9087A	453	\$190.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 3850T, UL2054 DIV 2		-	NNTN9088A	453	\$220.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T		-	NNTN9089A	453	\$240.00
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2		-	NNTN9090A	453	\$270.00
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T		-	NNTN9216A	453	\$205.00
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2		-	NNTN9217A	453	\$235.00
Battery Chargers					
Description		Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CALA PLUG, ACC-CHARGER		-	NNTN9115A	414	\$1,315.00
INSERT RADIO NEXT G2I PERFORMANCE MUC		-	NNTN9212A	796	\$50.00
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA		-	NNTN9199A	785	\$157.00
Audio Accessories					
Description		Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK		-	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE -BLK		-	PMLN6127A	742	\$108.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$126.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
XV REMOTE SPEAKER MICROPHONE	Xtreme Voice (XV) RSM delivers the clearest and loudest audio communications	PMMN4123A	372	\$435.00
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	742	\$123.00
REC ONLY EARPIECE W/TRANSLUCENT TUBE, LOUD VERSION	-	RLN4941BXL	742	\$85.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$590.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00
Belt Clips / Belt Loops				
Description	Full Description	Nomenclature	APC	Price
3" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5409	271	\$15.50
2.5" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5407	271	\$15.50
2.75" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5408	271	\$15.50
2.5" PLASTIC BELT CLIP ATTACHMENT	-	NTN8266B	271	\$12.00
3" BELT CLIP	-	PMLN7965A	271	\$12.00
Carry Solutions				
Description	Full Description	Nomenclature	APC	Price
APX NEXT CLASSIC HOLSTER	-	PMLN7947A	271	\$35.00
APX NEXT HYBRID LEATHER HOLSTER, STANDARD BATTERY	-	PMLN7948A	271	\$85.00
APX NEXT HYBRID LEATHER HOLSTER, HIGH CAP BATTERY	-	PMLN7964A	271	\$85.00

APX NEXT XE ACCESSORIES
Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA, STUBBY,STUBBY 65MM (760-870 MHZ)	-	AN000296A01	555	\$30.00
ANTENNA, WHIP,WHIP, ALL BAND	-	AN000297A01	555	\$110.00
ANTENNA, WHIP,7/800 WHIP, 16CM	-	AN000392A01	555	\$45.00
ANTENNA, WHIP,UHF WHIP, 14CM	-	AN000393A01	555	\$45.00
ANTENNA, STUBBY,UHF 1 (STUBBY ANTENNA) (380-470MHZ)(9CM)	-	AN000369B01	555	\$45.00
ANTENNA, STUBBY,UHF2 (STUBBY ANTENNA) (450-527MHZ)(9 CM)	-	AN000369B02	555	\$45.00
Antenna Colored Bands				
Description	Full Description	Nomenclature	APC	Price
GRAY ANTENNA ID BAND (PACK OF 10)	Gray band for base of all-band antenna (pack of ten)	32012144001	555	\$6.50
YELLOW ANTENNA ID BAND (PACK OF 10)	Yellow band for base of all-band antenna (pack of ten)	32012144002	555	\$6.50
GREEN ANTENNA ID BAND (PACK OF 10)	Green band for base of all-band antenna (pack of ten)	32012144003	555	\$6.50
BLUE ANTENNA ID BAND (PACK OF 10)	Blue band for base of all-band antenna (pack of ten)	32012144004	555	\$6.50
PURPLE ANTENNA ID BAND (PACK OF 10)	Purple band for base of all-band antenna (pack of ten)	32012144005	555	\$6.50

Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2	-	NNTN9090A	453	\$270.00
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2	-	NNTN9217A	453	\$235.00

Chargers

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CALA PLUG, ACC-CHARGER	-	NNTN9115A	414	\$1,315.00
INSERT RADIO NEXT G21 PERFORMANCE MUC	-	NNTN9212A	796	\$50.00
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	-	NNTN9199A	785	\$157.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-STRAP,XL WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$50.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
2.5" PLASTIC BELT CLIP ATTACHMENT	-	NTN8266B	271	\$12.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
3" BELT CLIP	-	PMLN7965A	271	\$12.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
CARRY ACCESSORY-HOLSTER,APX NEXT XE CLASSIC HOLSTER	APX NEXT M4.5 XE Classic Holster	PMLN8208A	271	\$35.00

AUDIO

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$122.00
IMPRES 2 WIRE SURVEILLANCE-BLK	-	PMLN6127A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$128.00
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	742	\$123.00

RSMs

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	-	PMMN4107ABLK	372	\$550.00
XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	-	PMMN4107A	372	\$550.00
*AUDIO ADAPTER,APX XE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN	-	PMMN4106B	372	\$550.00
APX XE500 REMOTE SPEAKER MIC, BLACK, WITH CHANNEL KNOB	-	PMMN4106BBLK	372	\$616.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
ACCESSORY KIT,XVE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITH KNOB	XVE500 Remote Speaker Microphone, High Impact Green with Knob	PMMN4132A	372	\$665.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MICROPHONE, BLACK WITH KNOB	XVE500 Remote Speaker Microphone, Black with Knob	PMMN4132ABLK	372	\$665.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$590.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00

ACE3600
REMOTE TERMINAL UNIT
MODELS

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	85	\$1,260.00
Expansion Frame :				
Description	Full Description	Nomenclature	APC	Price
ACE3600 EXPANSION CPU, POWER SUPPLY AND MOUNTING	-	F7510	85	\$945.00
CPU Modules :				
Description	Full Description	Nomenclature	APC	Price
ACE3600 IP GATEWAY CPU4600	ACE3600 IP Gateway firmware loaded on the CPU module with on board RS-232 port, RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7507	85	\$4,725.00
ACE3600 CPU3680	CPU module only with on board RS-232 port, RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7508	85	\$1,313.00
ACE3600 MID TIER CPU, 3640	CPU module only with on board RS-232 port, RS-232/485 port and 10/100 Mbps Ethernet port. Up to two optional plug-in ports.	F7502	85	\$1,050.00

OPTIONS
Radio Options

Order one of the following Radio System Family options with one Radio Platform option. Appropriate radio installation kit is included.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 ANALOG CONVENTIONAL	-	VA00198	275	\$1,890.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$389.00
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00199	275	\$389.00
ADD: ASTRO 25 ANALOG TRUNKING	-	VA00199	275	\$1,890.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,310.00
ADD: MOTOTRBO ANALOG CONVENTIONAL	-	VA00194	275	\$389.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,310.00

One of the following Radio Platform options is required when a Radio System Family option is ordered,VA00160

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$525.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$525.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$525.00
ADD: VHF MOBILE RADIO	-	VA00160	275	\$525.00

Radio Installation Kits

The F7509 can be ordered with the following radio installation kits

Description	Full Description	Nomenclature	APC	Price
ADD: HT750/SP320/SP328 /PROS150 INST. KIT	Includes radio modem plug-in.	V154	85	\$270.00
ADD: XTL5000/2500 ANALOG INSTALLATION KIT	Includes radio modem plug-in.	V157	85	\$250.00
ADD: CDM750 INSTALLATION KIT	-	V143	85	\$289.00
ADD: CM200/CM140/EM200/GM3188 INSTALLATION KIT	Includes radio modem plug-in.	V148	85	\$289.00
APX6500 DIGITAL INSTALLATION KIT	-	VA00125	85	\$315.00
XPR4350/DM3400/XIR M8220/DGM4100 RADIO INSTALLATION KIT	RTU must have CPU 3680 for this option.	V682	85	\$190.00
ADD: XPR 5000 ANALOG ACE 3600 INSTALLATION KIT	-	VA00596	85	\$324.00
ADD: ACE3600 XTS 2500 INSTALLATION KIT	Includes Brackets, cables and mounting H/W This Option is orderable only with the F7509. This option must be ordered with a Metal chassis or housing option.	V156	85	\$260.00
RS-485 JUNCTION BOX	Includes one FKN8427 cable; order additional cables as V440 from MOSCAD Accessories. Incompatible with V184 and all Modem options unless a rack mount option is available and also ordered (refer to the Product Planner for assistance).	V186	85	\$158.00

The following radio installation kits will begin shipping August 1 2015

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 ANALOG ACE 3600 INSTALLATION KIT	-	VA00587	275	\$441.00
ADD: XPR 5000 CONNECT PLUS ACE 3600 INSTALLATION KIT	-	VA00591	275	\$215.00
ADD: XPR 5000 DIGITAL ACE 3600 INSTALLATION KIT	-	VA00589	85	\$252.00

Frames

The default basic frame includes slots for power supply and CPU modules (no I/O slots). Order one of the following options so that the frame configuration supports the required I/O slots.V102

Description	Full Description	Nomenclature	APC	Price
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (6 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	85	\$137.00
ADD: 5 I/O SLOTS FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V105	85	\$195.00
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	85	\$405.00
ADD: ACE3600 REDUNDANCY	Includes frame, redundant CPU3680, space for 4 I/O modules and space for a redundant power supply. If redundant power supply is required, order V275.	VA00433	85	\$1,785.00
ADD: 3 I/O SLOTS FRAME	Fits all chassis and housing sizes. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V103	85	\$79.00
ADD: 7 I/O SLOT FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V107	85	\$342.00
2 I/O SLOTS FRM	-	V102	85	\$58.00

Chassis & Housings

When housing is not used, the metal chassis is required for installation of radio, backup battery and other accessories. The metal chassis can be installed on a wall or inside enclosure. The Housing options provides NEMA 4X / IP65 outdoor protection.V229

Description	Full Description	Nomenclature	APC	Price
28 X 36 CM METAL CHASSIS	Compatible with 2 I/O Slots (V102) frame only. Fits mobile radio with 6.5 AH battery. If portable radio is used, either 10 AH or 6.5 AH battery will fit.	V229	85	\$76.00
ADD: EXPANDED 19 CHAS	-	V269	85	\$242.00
ADD: HOUSING TAMPER SWITCH	-	V224	85	\$95.00
ADD: 38 X 38 CM METAL CHASSIS	Fits to 6.5 Ah battery.	V214	85	\$58.00
ADD: 50X50 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis. Fits to 6.5 Ah and 10Ah battery. Not includes padlock.	VA00405	85	\$1,008.00
ADD: 50X50 CM PAINTED METAL HOUSING	Includes a metal chassis and fits either the 6.5 Ah or the 10Ah battery. It does not include a padlock.	V228	85	\$474.00
ADD: CHASSIS FOR 19" RACK MTG 0, 3, 5, 8 I/O FRM	Metal backplane required for mounting on 19 in. rack. Compatible with V103 and V105 slots frame. Mounting brackets (V051) should be ordered separately.	V120AG	85	\$147.00
ADD: 48 X 48 CM METAL CHASSIS	Fits to 6.5 AH or 10AH battery.	V056	85	\$105.00
ADD: 40X40 CM PAINTED METAL HOUSING	Includes a metal chassis. Fits to 6.5 Ah battery.	V276	85	\$460.00
ADD: CHASSIS FOR 19" RACK MTG	Metal backplane required for mounting on 19 in. rack. Compatible with V107 and VA00433 I/O slots frame. Mounting brackets (V051) should be ordered separately.	V120	85	\$147.00
ADD: 40X40 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis and fits the 6.5 Ah battery. It does not include a padlock.	VA00406	85	\$952.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ADD: 16AI +/-5 V	-	V742	85	\$709.00
ADD: 4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0-10 V output. Require I/O slots and frame.	V118	85	\$520.00
12 DO ML RELAY 120-230V MODULE	-	VA00332	85	\$441.00
ADD: 4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 20 mA. Require I/O slots and frame.	V562	85	\$935.00
ADD: 8 DO EE RELAY 2A	-	V508	85	\$273.00
ADD: 8AI +/-5 V	-	V741	85	\$510.00
OPTN.ACQY.ADD: 16 DO EE RLY 2A SBO	-	VA00347	85	\$420.00
ADD: 4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	V460	85	\$909.00
ADD: 16 DO ML RELAY 2A	-	V516	85	\$378.00
16 DI 120-230V MODULE	-	VA00331	85	\$310.00
ADD: 8 AI +/-20 MA	-	V318	85	\$552.00
ADD: 8DO EE 2 FORM A SBO	-	VA00343	85	\$331.00
ADD: 16 DI FAST 24V	-	V265	85	\$210.00
ADD: 16AI +/-20 MA	-	V463	85	\$762.00
ADD: 16 DI FAST 24V IEC TP2	16DI 24V DC per IEC 61131-2 Type 2	V117	85	\$210.00
ADD: 16DI 4DO EE 4AI +/-20MA	-	V245	85	\$468.00
ADD: 24V FLOATING POWER SUPPLY	-	V260	85	\$79.00
ADD: 16DI 4DO ML 4AI +/-20MA	-	V453	85	\$468.00
ADD: 32 DI FAST 24V IEC TP2	32DI 24V DC per IEC 61131-2 Type 2	V959	85	\$315.00
12 DO EE RELAY 120-230V MODULE	-	VA00348	85	\$426.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	85	\$24.00
ADD: 32 DO / DI FET	-	V481	85	\$384.00
ADD: 16 DO EE RELAY 2A	-	V616	85	\$363.00
ADD: 8 DO ML RELAY 2A	-	V314	85	\$284.00
ADD: 32 DI FAST 24V	-	V379	85	\$352.00
ADD: 32 DI FAST 48V	-	V474	85	\$315.00
ADD: 16 DO / DI FET	-	V480	85	\$263.00

Terminal Blocks and Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 40 PIN TB HOLDER KIT	Connector kit for cable. Fits 32DI, 32DO/DI, 16AI, 16DO, Mixed I/O, 8AI/4AO, and 8DO-SBO.	V153	85	\$40.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	3 meter numbered cable with connector. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V203	85	\$187.00
30 PIN TERMINAL BLOCK HOLDER KIT	Connector kit for cable. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V202	85	\$37.00
ADD: 40 WIRE CABLE W/ TB HOLDER 3 M	3 meter numbered cable with connector. Fits 32DI, 32DO/DI, 16AI, 16DO, Mixed I/O, 8AI/4AO, and 8DO-SBO.	V358	85	\$171.00
ADD: 20 PIN TB HOLDER KIT	Connector kit for cable. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V158	85	\$33.00
ADD: 20 WIRE CABLE W/ TB HOLDER 3 M	3 meter color-coded cable with connector. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V253	85	\$111.00

Power Supply & Batteries

The default power supply module provided with each model is 12V DC (10.8-15.5 V input voltage range). To replace the default PS, add one of the following PS options. If backup battery is required, add PS with charger option.

Description	Full Description	Nomenclature	APC	Price
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	85	\$301.00
DC PS 18-72V PS W/ BAT CHGR	-	V367	85	\$427.00
OPTN.CHGR.ADD: AC PWR PS 100-240 V W/ BAT CHGR	-	V261	85	\$435.00
ADD: 6.5 AH BACKUP BATTERY	Fits all metal chassis and housing.	V114	85	\$180.00
ADD: DC POWER SUPPLY 18-72V	-	V251	85	\$370.00
OPTN.POWER SUPPLY ASSEMBLY.ADD: AC PWR SPLY 100-240 V W/O CHGR	-	V346	85	\$375.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: 12V DC PS LOW-TIER	This Option will allow an external 12V P/S to be connected through the CPU to the back plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	V149	85	(\$116.00)
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CPU
The default CPU module is CPU3640 with on board RS-232 port and RS-232/485 port, one 100MB IP Port, up to two optional plug-in ports, 3 MB User FLASH memory and 10 MB User DRAM. Select from the options below to upgrade the CPU module. V448

Description	Full Description	Nomenclature	APC	Price
ADD: PLUG-IN RS-232 PORT	-	V184	85	\$111.00
ADD: PLUG-IN 4 MB SRAM	Adds 4Meg user SRAM. One per RTU/CPU.	V447	85	\$155.00
ACE3600 IP GATEWAY CPU4600	The CPU4600 adds IP Gateway functionality. Two optional plug-in ports are still available.	V449	85	\$3,990.00
ADD: ACE3600 CPU3680	The CPU3680 adds two USB host ports and increased memory capacity to the CPU3640. Two optional plug-in ports are still available.	V448	85	\$289.00
ADD: PLUG-IN ETHERNET 10M PORT	-	V204	85	\$111.00
PLUG-IN RADIO PORT	Provided with conventional and analog trunking models or radio installation kit	VA00362	85	\$111.00
ADD: PLUG-IN RS 485 PORT	-	V440	85	\$111.00
ADD: PLUG-IN ETHERNET 10/100 M PORT	Fits only to port P11.	V212	85	\$111.00

CPU and Power Supply Redundancy

These options are compatible when the Redundancy frame, VA00433, is ordered. The CPU options will be installed on the redundant CPU. If these options are required on the primary CPU, please select from the CPU options above.

Description	Full Description	Nomenclature	APC	Price
ADD: SEC. CPU PLUG-IN 4 MB SRAM	Provides the same functionality as the V447, but installed on the redundant CPU.	V444	85	\$147.00
ADD: SEC. CPU PLUG-IN RADIO PORT	Provides the same functionality as the VA00362, but installed on the redundant CPU.	VA00364	85	\$111.00
ADD: SEC. CPU PLUG-IN ETHERNET 10/100 M PORT	Provides the same functionality as the V202, but installed on the redundant CPU.	V215	85	\$111.00
ADD: SEC. CPU PLUG-IN ETHERNET 10M PORT	Provides the same functionality as the V204, but installed on the redundant CPU.	V205	85	\$111.00
ADD: SECONDARY DC PS 10.5-15.5V	-	V275	85	\$365.00
ADD: SEC. CPU PLUG-IN RS-232 PORT	Provides the same functionality as the V184, but installed on the redundant CPU.	V185	85	\$111.00
ADD: SEC. CPU PLUG-IN RS 485 PORT	Provides the same functionality as the V440, but installed on the redundant CPU.	V441	85	\$111.00

I/O Expansion LAN Switch

This should be ordered as an option to the main RTU models. The LAN switch takes one of the I/O slots on the main RTU.

Description	Full Description	Nomenclature	APC	Price
ADD: ACE3600 EXPANSION LAN SWITCH MODULE	Required when more than 1 expansion frame is connected to an RTU. Occupies one I/O slot on the main RTU. Includes a 60 cm LAN cable (FKN8561) for connecting the LAN switch to the main CPU. Requires the 3640 CPU on the main RTU.	VA00226	85	\$462.00

I/O Expansion Frame

These options are compatible with the F7510 only.

Description	Full Description	Nomenclature	APC	Price
ADD: LAN CABLE 3 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V666	85	\$28.00
ADD: LAN CABLE 60 CM	Can be used for connecting the LAN switch to the main CPU or for connecting the expansion frame to the LAN switch.	V529	85	\$21.00
ADD: DC 10.5-15.5V	This option removes the power supply that is standard with the Expansion Frame (F7510) and adds the power supply that is standard with the ACE3600 RTU. Use this option if A) the current draw from the Expansion racks + the current draw from the main RTU exceed the capacity of the main RTU power supply, or if B) a power source local to the expansion rack will be used. Please see System Planner for details.	V274	85	\$0.00
ADD: LAN CROSS CABLE 3 METER	Crossed LAN cable for connecting an expansion frame directly to the main CPU. Not compatible with the LAN switch.	V665	85	\$21.00
ADD: LAN CABLE 2 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V648	85	\$21.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
OPTION TEST REPORT	May be ordered with any of the main RTU models and also with the Expansion Frame. V99 provides printed report of the factory test.	V99	85	\$11.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	85	\$24.00
ADD: ACT MODULE FOR ACE3600	-	V155	85	\$630.00

Software and Software Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires DNP capability. License is included with the RTU.	V283	214	\$105.00
ADD: IEC870-5-101 LICENSE	One required for each RTU or FIU that uses this protocol driver.	V242	85	\$105.00
ADD: 3 RD PARTY PROTOCOL LICENSE	One required for each RTU or FIU that uses the 3rd party protocol: ModBus, Allan Bradley.	V377	214	\$105.00
ADD: AGA LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is included with the RTU.	V284	214	\$105.00

Security Options

Description	Full Description	Nomenclature	APC	Price
ADD: AEC3600 SECURITY ENABLE OPTION	-	VA00360	85	\$289.00

ACCESSORIES

CPU				
Description	Full Description	Nomenclature	APC	Price
ADD-ON ETHERNET 10/100 M PORT	Kit includes screws and spacers.	FLN4104	85	\$121.00
ADD-ON RS 485 PORT	Kit includes screws and spacers.	FLN4107	85	\$121.00
ADD-ON RADIO PORT (GRI)	Kit includes screws and spacers.	FLN3696	85	\$121.00
ADD-ON ETHERNET 10M PORT	Kit includes screws and spacers.	FLN4106	85	\$121.00
HARD KIT	Screws and spacers for plug-in ports.	FHN6802	85	\$10.00
PLUG-IN 4 MB SRAM	Increases user SRAM from 4Meg to 8Meg. One per RTU/CPU.	FLN3818	85	\$158.00
ADD-ON RS-232 PORT	Kit includes screws and spacers.	FLN4105	85	\$121.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
ASSY.ACCY.MTM800 INSTALLTION KIT	-	FLN4109	85	\$383.00
HT750/GP320/328/PROS150 INSTALLATION KIT	-	FLN3637	85	\$412.00
APX6500 DIGITAL INSTALLATION KIT	-	FLN1072	85	\$362.00
APX6500 ANALOG INSTALLATION KIT FOR ACE3600	-	FLN0114A	85	\$460.00
XPR5350/80 CONNECT PLUS INSTALLATION KIT FOR ACE 3600	-	FLN0113A	85	\$227.00
MARLIN CABLE ANTENNA MINI UHF	-	FKN8429	85	\$63.00
XPR5350/80 DIGITAL INSTALATION KIT FOR ACE3600	-	FLN4102A	85	\$275.00
MOTOTRBO ANALOG RADIO INSTLN KIT	-	FLN1059	85	\$369.00
CDM750 INSTALLATION KIT	-	FLN3638	85	\$329.00
CM/EM/GM ANTENNA CABLE N TYPE	-	FKN8430	85	\$67.00
XTL5000/2500 ANALOG INSTALLATION KIT	-	FLN3640	85	\$394.00
XTL5000/2500 DIGITAL INSTALLATION KIT	-	FLN3649	85	\$286.00
CM200/CM140/EM200/GM3188 INSTALLATION KIT	-	FLN3635	455	\$335.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ACE 3600 BLANK MODULE	-	FHN6972	85	\$27.00
16 AI +/-20MA	-	FLN3559	85	\$840.00
16 DI FAST 24V	-	FLN3552	85	\$231.00
16 AI +/-5V	-	FLN3561	85	\$735.00
16 DI FAST 24V IEC T2	-	FLN3547	85	\$231.00
16DI 4DO EE 4AI +/-20MA	-	FLN3572	85	\$483.00
32 DO / DI FET	-	FLN3554	85	\$403.00
12 DO EE RELAY 120-230V MODULE	-	FLN4052	85	\$447.00
16 DO EE RELAY 2A	-	FLN3537	85	\$381.00
4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 20 mA. Require I/O slots and frame.	FLN3816	85	\$956.00
32 DI FAST 24V IEC TP2	-	FLN3560	85	\$331.00
16 DO / DI FET	-	FLN3553	85	\$277.00
8 AI +/-20MA	-	FLN3566	85	\$573.00
4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	FLN3815	85	\$956.00
16 DI 120-230V MODULE	-	FLN4051	85	\$326.00
8 AI +/-5V	-	FLN3560	85	\$525.00
32 DI FAST 24V	-	FLN3548	85	\$370.00
8 DO ML RELAY 2A	-	FLN3538	85	\$299.00
4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0-10 V output. Require I/O slots and frame.	FLN3817	85	\$546.00
8 DO EE RELAY 2A	-	FLN3605	85	\$287.00
16DI 4DO ML 4AI +/-20MA	-	FLN3573	85	\$483.00
8DO EE 2 FORM A SBO	-	FLN4146	85	\$347.00

Description	Full Description	Nomenclature	APC	Price
16 DO ML RELAY 2A	-	FLN3539	85	\$420.00
12 DO ML RELAY 120-230V MODULE	-	FLN4053	85	\$457.00
Cables				
Description	Full Description	Nomenclature	APC	Price
30 PIN TERMINAL BLOCK HOLDER KIT	-	FTN7532	85	\$41.00
40 PIN TB HOLDER KIT	-	FTN7160	85	\$48.00
DATA CBL CPU TO RAD/RS485	-	FKN8427	85	\$23.00
20 PIN TB HOLDER KIT	-	FTN7159	85	\$42.00
RS-485 JUNCTION BOX	-	FLN3641	85	\$179.00
40 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8486	85	\$187.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	-	FKN8557	85	\$198.00
ASSY.CBL.12V DC OPEN EXTN PWR CBL	-	FKN8523	85	\$19.00
20 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8465	85	\$125.00
CABLE, TOOLBOX 3M W/ADAPTER EPP	-	FLN6457	214	\$48.00
I/O Expansion Frame				
Description	Full Description	Nomenclature	APC	Price
LAN CABLE 3 METER	-	FKN8563	85	\$30.00
LAN CROSS CABLE 3 METER	-	FKN8525	85	\$29.00
ACE3600 EXPANSION POWER SUPPLY	-	FPN1654	85	\$266.00
ACE3600 EXPANSION MODULE	CPU module used with the F7510; not compatible with the main RTU models.	FLN4075	85	\$767.00
LAN CABLE 2 METER	-	FKN8562	85	\$42.00
ACE3600 EXPANSION LAN SWITCH MODULE	-	FLN4078	85	\$486.00
LAN CABLE 60CM	-	FKN8561	85	\$24.00
EXP PWR SUPPLY EXT POWER CABLE	-	FKN8559	85	\$51.00
Motherboards, Enclosures, and Frames				
Description	Full Description	Nomenclature	APC	Price
ACE3600 NO I/O SLOTS FRAME	-	FLN4125	85	\$231.00
ACE3600 REDUNDANCY 4 I/O FRAME	-	FLN4699	85	\$447.00
38 X 38 CM METAL CHASSIS	-	FHN6794	85	\$99.00
METAL BASE FOR 0 I/O FRAME	-	FHN6816	85	\$69.00
48 X 48 CM METAL CHASSIS	-	FHN6792	85	\$126.00
HOUSING TAMPER SWITCH	-	FLN3697	85	\$105.00
ACE3600 5 I/O SLOTS FRAME	-	FLN4122	85	\$315.00
ADD: 40X40 METAL HOUSING NEMA 48 PAD LOCK	-	FHN6946	85	\$1,092.00
TWO I/O SLOT FRAME	-	FLN4303	85	\$299.00
ACE3600 8 I/O SLOTS FRAME	-	FLN4120	85	\$394.00
50X50 CM PAINTED METAL HOUSING	-	FHN6870	85	\$513.00
ADD: 50X50 METAL HOUSING NEMA 48 PAD LOCK	-	FHN6945	85	\$1,202.00
2 SLOTS PLASTIC ENCLOSURE KIT	-	FLN4111	85	\$36.00
EXPAND TO 19" FRAME METAL BACK	-	FHN7385	85	\$164.00
EXPAND TO 19" FRAME METAL BACK	Suitable for use with 0, 3, and 5 I/O slots frame. Includes the frame for mounting in a 19 in. rack and also includes 1 set of mounting brackets.	FLN4304	85	\$327.00
ACE 28X36CM METAL CHASSIS SFP	-	FLN4276	85	\$122.00
ACE3600 3 I/O SLOTS FRAME	-	FLN4123	85	\$263.00
ADD: 40X40 CM PAINTED METAL HOUSING	-	FHN6871	85	\$468.00
ACE3600 7 I/O SLOTS FRAME	-	FLN4121	85	\$388.00
METAL BASE FOR 5 I/O FRAME	-	FHN6815	85	\$90.00
METAL BASE FOR 7 I/O FRAME	-	FHN6818	85	\$95.00
3 SLOTS PLAS ENCL KIT	-	FLN4112	85	\$36.00
METAL BASE FOR 3 I/O FRAME	-	FHN6817	85	\$98.00
Battery & Power Supply				
Description	Full Description	Nomenclature	APC	Price
DC PS 12V POWER CABLE	-	FKN8481	85	\$26.00
BATTERY THERMISTOR CABLE	-	FKN8377	85	\$38.00
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	85	\$116.00
ASSY.P/S.AC PS 100-240 V W/O CHGR_MODULE	AC power supply module only, without battery charger.	FPN1641	85	\$693.00
BATTERY POWER CABLE	Connects the battery to the power supply module. Fits 6.5Ah and 10Ah battery.	FKN8376	85	\$187.00
BATTERY 6.5 AH	Battery mounting bracket (FHN6902) and battery power cable (FKN8376) must be ordered separately.	FTN7120	85	\$15.00
P/S, 100-240VAC W/ CHGR MDL	AC power supply module only with battery charger.	FPN1903	85	\$749.00
DC PS JUNCTION BOX	-	FHN6812	85	\$13.00
AC P.S JUNCTION BOX	-	FTN7014	85	\$13.00
MOUNTING BRACKET FOR 6.5 AH BATTERY	-	FHN6902	85	\$42.00
XTL5000 ANLG DATA CBL	-	FKN8438	85	\$105.00
DC POWER CABLE FOR DUAL PS	-	FKN8406	85	\$58.00
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	85	\$84.00
DC PS 18-72V W/O CHGR	-	FPN1646	454	\$725.00
DC PS 18-72V W/ BATTERY CHARGER MODULE	18-72V DC power supply module only with battery charger.	FPN1904	85	\$749.00
ASSY.P/S.AC PS 100-240 V W/ BAT CHGR KIT	-	FPN1644	85	\$786.00
BATTERY 10 AH	Battery mounting bracket (FHN6901) and battery power cable (FKN8376) must be ordered separately.	FNN7898	85	\$312.00
DC PS 18-72V PS W/ BAT CHGR	-	FPN1645	85	\$786.00
DATA CPU USB TO MOTOTRBO RAD	-	FKN8644	85	\$84.00
ASSY.PS BLANK MODULE FOR REDUNDANCY	-	FHN6861	85	\$30.00
SECONDARY DC PS 10-15.5V	-	FPN1656	85	\$305.00
XTL5000 DIG DATA CBL KIT	-	FKN8432	85	\$74.00
ASSY.CBL.AC PWR CBL FOR 0 I/O SLT	-	FKN8492	85	\$28.00
12V DC PS LOW-TIER	This Option will allow an external 12V P/S to be connected through the CPU to the back plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	FPN1652	85	\$231.00
DC PS 18-72 V POWER CABLE	-	FKN8381	85	\$33.00
ASSY.CBL.AC POWER CABLE FOR DUAL PS	-	FKN8407	85	\$58.00
ASSY.P/S.AC PS 100-240 V W/O CHGR KIT	-	FPN1642	85	\$725.00
MOUNTING BRACKET FOR 10 AH BATTERY	-	FHN6901	85	\$151.00
AC PS POWER CABLE	-	FKN8382	85	\$34.00
ACE3600 TO MOTOTRBO RADIO ANALOG CABLE	-	FKN8801A	85	\$84.00
DC POWER SUPPLY 18-72V MODULE	-	FPN1640	85	\$725.00
DC POWER SUPPLY 12V (W/O TELKOOR)	18-72V DC power supply module only, without battery charger.	FPN1643	85	\$375.00
Radios and Modems				
Description	Full Description	Nomenclature	APC	Price
APX6500 450-520MHZ (A+D)	-	FUE1251A	85	\$3,150.00
XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	85	\$982.00
APX6500 700/800 MHZ (A+D)	-	FUF1201A	85	\$3,150.00
XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	85	\$982.00
XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	85	\$982.00
APX6500 136-174 MHZ (A+D)	-	FUD1041A	85	\$3,150.00
APX6500 380-470 MHZ (A+D)	-	FUE1250A	85	\$3,150.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
ACT MODULE FOR ACE3600	Requires RTU with Chassis or housing.	FLN3851	85	\$646.00
Security Options				
Description	Full Description	Nomenclature	APC	Price
CD.SW.ACE3600 SECURED SYS TOOL SUITE VER. 18.50	-	FVN5973	85	\$830.00
Software Licenses				
Description	Full Description	Nomenclature	APC	Price
AGA 8 LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is provided separately.	FRN5901	85	\$105.00
IEC870-5-101 LICENSE	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FLN9504	85	\$105.00
DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FRN5899	214	\$105.00
3 RD PROTOCOL LICENSE	-	FRN5902	214	\$105.00



Updated Pricing for contract 4400016317 as of January 2022

ACE 1000 RTU Models

Description	Full Description	Nomenclature	APC	Price
MC IOT MAIN MODEL	-	F0016	275	\$0.00

ACE1000 Mandatory Options

If F0016 is selected the following option must be added

ACE 1000 RTU Options

CPU Plug-in Board (Optional - VA00006 compatible with F0016A only, not compatible with F0026A and F5209A)

Description	Full Description	Nomenclature	APC	Price
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00
ADD: MICROHARD N920 PLUG-IN BOARD	-	VA00144	275	\$210.00

DIN Rail Installation Kit, Module Covers (Optional - Compatible with F0016A)

Description	Full Description	Nomenclature	APC	Price
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00

I/O Modules (Order up to 2 modules)

Description	Full Description	Nomenclature	APC	Price
ADD: 12DI/8AI HW ONLY NO LIC	-	VA00150	275	\$595.00
ADD: 8DO/2AO HW ONLY NO LIC	-	VA00149	275	\$620.00
ADD: MIXED IO 7DI/6DO/1AO/3AI HW ONLY NO LIC	-	VA00599	275	\$640.00

If VA00150AA Ordered, Order an Equal Quantity of I/O Specification Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0 - 20MA DI/AI	-	VA00152	275	\$0.00
ADD: 0 - 5V DI/AI	-	VA00151	275	\$0.00

Continue to the Power Supply Options section below...

ACE 1100 FEP Model

Description	Full Description	Nomenclature	APC	Price
ACE 1100 - FEP MODULE	-	F0043	275	\$1,600.00

ACE 1100 FEP Options

ACE 1100 FEP Operation (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: ACE1000 FEP OPERATION	-	VA00154	275	\$0.00
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00
ADD: MICROHARD N920 PLUG-IN BOARD	-	VA00144	275	\$210.00

CPU Plug-in Board is standard equipment/automatically included on F0043A

DIN Rail Installation Kit, Module Covers (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00

Power Supply Options

Power Supply Options (Power Supplies are not available for the State of California. See ordering guide for details.)

Description	Full Description	Nomenclature	APC	Price
ADD: AC POWER SUPPLY 24V / 120W DC OUTPUT	-	VA00130	275	\$300.00
ADD: AC POWER SUPPLY UNIT 12V / 5A DC OUTPUT	-	VA00009	275	\$225.00
ADD: DC POWER CABLE	-	VA00155	275	\$50.00

Radio Options

To order a radio, select one Radio System Option and one Radio Equipment Option.

Included when Radio Options, Wall Mount Installation Kit, and a Power Supply Option are ordered.

Radio System Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00159	275	\$389.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$389.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,310.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,310.00

Radio Platform Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: VHF MOBILE RADIO	-	VA00160	275	\$525.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$525.00
ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$525.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$525.00

Radio Installation Kit Options

Radio Installation Kit options should be ordered when the APX6500 or XPR5000 radio equipment is already available to the end customer or application integrator. These options cannot be ordered with the Radio Options.

Included when Radio Installation Kit, Wall Mount Installation Kit, and a Power Supply Option are ordered.

Radio Installation Kits (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 DIGITAL INSTALLATION KIT	-	VA00588	275	\$275.00
ADD: XPR 5000 DIGITAL ACE 1000 INSTALLATION KIT	-	VA00590	275	\$160.00
ADD: XPR 5000 CONNECT PLUS ACE 1000 INSTALLATION KIT	-	VA00592	275	\$160.00

Software

Software License Options

If needed Software add-ons should be ordered now, it cannot be added later in this field.

Description	Full Description	Nomenclature	APC	Price
ADD: DNP3 MASTER LICENSE	-	VA00593	275	\$100.00
ADD: DNP3 SLAVE LICENSE	-	VA00594	275	\$100.00
ADD: CODESYS IEC 61131 LICENSE	-	VA00595	275	\$100.00

Latest ACE 1000 Firmware and Software disc images are available on Motorola Online

Accessories

Description	Full Description	Nomenclature	APC	Price
ADD: I/O MODULE EXTRACTOR TOOL	-	VA00153	275	\$10.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
TERMINAL BLOCK MALE 2 PIN 5 MM	-	FHN0063	275	\$10.00
MTM5200 INSTALLATION KIT	-	FLN0043	85	\$160.00
ACE1000 CABLE BATTERY ELIMINATOR POWER	-	FKN8802A	85	\$30.00
GROUND CABLE	-	FKN0034	275	\$10.00
ACE1000 MICROHARD N920 PLUG-IN BOARD	-	FLN0109	275	\$210.00
TERMINAL BLOCK MALE 4 PIN 3.5MM	-	FHN0064	275	\$15.00
RS-232 DATA CABLE	-	FKN0022	275	\$55.00
DIN RAIL 26 CM	-	FHN0054	275	\$20.00
DIN RAIL STOPPER	-	FHN0057	275	\$15.00
MTM5200 DATA CABLE	-	FKN0027	275	\$50.00
APX4000 INSTALLATION KIT	-	FLN0042	275	\$300.00
MOBILE RADIO DC CABLE 10FT	-	FKN0036	275	\$30.00
RJ45 TO RJ45 EXTENSION CABLE 1500MM	-	FKN8803A	85	\$50.00
CPU PANEL COVER	-	FHN0058	275	\$10.00
TERMINAL BLOCK MALE 3 PIN 5 MM	-	FHN0062	275	\$10.00
APX3000/4000 DATA CABLE	-	FKN0025	275	\$95.00
DIN RAIL 45 CM	-	FHN0056	275	\$20.00
SD COVER	-	FHN0060	275	\$5.00
12DI/8AI MODULE +/- 20MA	-	FLN0060	275	\$650.00
AC POWER SUPPLY 12V/120W DC OUT	-	FLN0096	275	\$225.00
RJ50 I/O MODULE CABLE	-	FHN0065	275	\$15.00
DC POWER CABLE	-	FKN0033	275	\$75.00
AC POWER SUPPLY 24V/120W DC OUT	-	FLN0101	275	\$300.00
APX6500 INSTALLATION KIT	-	FLN0100	275	\$250.00
TERMINAL BLOCK CONNECTOR EXTRACTOR	-	FKN0024	275	\$10.00
RS-485 PORT 120 OHM TERMINATION CABLE	-	FKN0030	275	\$150.00
8DO/2AO MODULE +/- 20MA, 5V	-	FLN0052	275	\$650.00
APX 3000/4000 BATTERY ELIMINATOR BOARD	-	FLN1058	85	\$150.00
TERMINAL BLOCK MALE 10 PIN 5MM	-	FHN0061	275	\$40.00
XPR5300 INSTALLATION KIT	-	FLN0093	275	\$160.00

I/O MODULE CONNECTOR COVER	-	FHN0059	275	\$5.00
2XRS-232 PORT / AUX POWER PLUG-IN BOARD	-	FLN0048	275	\$250.00
12DI/8AI MODULE +/- 5V	-	FLN0051	275	\$650.00
XPR5350/80 CONNECT PLUS INSTALLATION KIT FOR ACE1000	-	FLN0115A	85	\$160.00
XPR 5350 USB CABLE	-	FKN0026	275	\$110.00
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	85	\$116.00
MIXED I/O CURRENT	-	FLN0116	275	\$750.00
APX6500 DATA CABLE	-	FKN0035	275	\$75.00

Radio Models	Description	Full Description	Nomenclature	APC	Price
	XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	85	\$982.00
	XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	85	\$982.00
	XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	85	\$982.00
	APX6500 136-174 MHZ (A+D)	-	FUD1041A	85	\$3,150.00
	APX6500 380-470 MHZ (A+D)	-	FUE1250A	85	\$3,150.00
	APX6500 450-520MHZ (A+D)	-	FUE1251A	85	\$3,150.00
	APX6500 700/800 MHZ (A+D)	-	FUF1201A	85	\$3,150.00

700 MHz Antennas

ALIVE TELECOM PARTS					
Description	Full Description	Nomenclature	APC	Price	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D7-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7NF	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D71	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 2 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D72NF	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 3 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-3 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D73	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 4 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D74NF	351	\$4,129.00	
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D7	351	\$2,530.00	
746-870 MHZ COLLINEAR OMNI 5.3 DBD 7-16 DIN FEMALE 5 DEGREE TILT	ALIVE PART#: ATC-GC7V40-D7-5 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40-D7-5.pdf	DSATCGC7V40D75	351	\$2,760.00	
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WP178 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WP178.pdf	DSATCW178	351	\$345.00	
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V20.pdf	DSATCGC7V20D4	351	\$633.00	
746-870 MHZ COLLINEAR OMNI 10.0 DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V20.pdf	DSATCGC7V100D4	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 4.3-10 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D4NF	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 4.3-10 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D4-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D41	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 4.3-10 DIN FEMALE 2 DT NULL FILL	ALIVE PART#: ATC-GC7V100-D4-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D42NF	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.5 DBD 4.3-10 DIN FEMALE 3 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D4-3 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D43	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 9.0 DBD 4.3-10 DIN FEMALE 4 DT NULL FILL	ALIVE PART#: ATC-GC7V100-D4-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D44NF	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 5.5 DBD 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D4	351	\$2,530.00	
746-870 MHZ COLLINEAR OMNI 5.3 DBD 4.3-10 DIN FEMALE 5 DEGREE TILT	ALIVE PART#: ATC-GC7V40-D4-5 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D45	351	\$2,760.00	
PANEL ANTENNA, 746-870 MHZ, 7 DBD, 4.3-10 DIN FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WP178-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WP178-D4.pdf	DSATCW178D4	351	\$345.00	
746-870 MHZ COLLINEAR OMNI 10.0 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7	351	\$4,129.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D7-NF SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D7NF	351	\$5,003.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-2 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D72	351	\$5,003.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-4 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D74	351	\$5,003.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D4-NF SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D4NF	351	\$5,003.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-2 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D42	351	\$5,003.00	
746-870 MHZ COLLINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-4 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D44	351	\$5,003.00	

ALIVE TELECOM - COMPARABLE TO SINCLAIR 412 AND 479 MODELS
 THESE ANTENNAS WERE DESIGNED AS DIRECT REPLACEMENTS FOR SINCLAIR 479 AND 412 SERIES MODEL ANTENNAS.

Description	Full Description	Nomenclature	APC	Price
746-870 MHZ COLLINEAR OMNI 10.0 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7	351	\$4,129.00
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D7-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7NF	351	\$4,129.00
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D71	351	\$4,129.00
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 2 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D72NF	351	\$4,129.00
746-870 MHZ COLLINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 4 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D74NF	351	\$4,129.00
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D7-NF SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D7NF	351	\$5,003.00
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-2 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D72	351	\$5,003.00
746-870 MHZ COLLINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-4 SPEC SHEET LINK: https://alivetele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D74	351	\$5,003.00

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/Hi-PI	DBSPECTRA PART#: DS7C03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36Ux.pdf	DSDS7C03P36UM	351	\$1,944.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/Hi-PI	DBSPECTRA PART#: DS7C06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux.pdf	DSDS7C06P36UM	351	\$3,048.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 2 DEGREE TILT, LOW PIM, PIP RAT	DBSPECTRA PART#: DS7C06P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2Mx.pdf	DSDS7C06P36U2M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/Hi-PI	DBSPECTRA PART#: DS7C06P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4Mx.pdf	DSDS7C06P36U4M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/Hi-PI	DBSPECTRA PART#: DS7C06P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6Mx.pdf	DSDS7C06P36U6M	351	\$3,335.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 4.3-10 F	DBSPECTRA PART#: DS7C09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36Ux.pdf	DSDS7C09P36UM	351	\$4,014.00
764-869MHZ 9 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 2 DEG D	DBSPECTRA PART#: DS7C09P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U2Mx.pdf	DSDS7C09P36U2M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 4 DEG DT	DBSPECTRA PART#: DS7C09P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U4Mx.pdf	DSDS7C09P36U4M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 6 DEG DT	DBSPECTRA PART#: DS7C09P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U6Mx.pdf	DSDS7C09P36U6M	351	\$4,301.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 4.3-10	DBSPECTRA PART#: DS7C10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36Ux.pdf	DSDS7C10P36UM	351	\$4,244.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 2 DEG D	DBSPECTRA PART#: DS7C10P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2Mx.pdf	DSDS7C10P36U2M	351	\$4,531.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/Hi-P	DBSPECTRA PART#: DS7C10P36U3M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U3Mx.pdf	DSDS7C10P36U3M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U4Mx.pdf	DSDS7C10P36U4M	351	\$4,531.00



764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U6M.pdf	DSDS7C10P36U6M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 8 DEG D	DBSPECTRA PART#: DS7C10P36U8M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U8M.pdf	DSDS7C10P36U8M	351	\$4,531.00
764-869MHZ 10 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 10-DEG	DBSPECTRA PART#: DS7C10P36U0M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U0M.pdf	DSDS7C10P36U0M	351	\$4,531.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP	DBSPECTRA PART#: DS7C10P3U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U4M.pdf	DSDS7C10P3U4M	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP	DBSPECTRA PART#: DS7C10P3U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U4M.pdf	DSDS7C10P3U4M	351	\$4,708.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP	DBSPECTRA PART#: DS7C10P3U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U6M.pdf	DSDS7C10P3U6M	351	\$4,704.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-IP, 4.3-10 F	DBSPECTRA PART#: DS7C12P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U4M.pdf	DSDS7C12P36U4M	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-IP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U2M.pdf	DSDS7C12P36U2M	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-IP, 4-DEG DT	DBSPECTRA PART#: DS7C12P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U4M.pdf	DSDS7C12P36U4M	351	\$5,175.00

DBSPECTRA MAGNUM TYPE ANTENNAS

THESE ANTENNAS WERE DESIGNED AS DIRECT REPLACEMENTS FOR THE RFS BOGNAR TYPE ANTENNAS - "PENETRATOR ANTENNAS"

Description	Full Description	Nomenclature	APC	Price
10DB 700/OMNI MAGNUM ANTENNA	DBSPECTRA PART#: DS7M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M10P36U-D.pdf	DSDS7M10P36UD	351	\$7,252.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M11PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M11PDAU-D.pdf	DSDS7M11PDAUD	351	\$7,993.00
764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	DBSPECTRA PART#: DS7M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12P36U-D.pdf	DSDS7M12P36UD	351	\$8,625.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	DBSPECTRA PART#: DS7M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12PH2U-D.pdf	DSDS7M12PH2UD	351	\$8,274.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M13PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M13PDAU-D.pdf	DSDS7M13PDAUD	351	\$10,149.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDBU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDBU-D.pdf	DSDS7M14PDBUD	351	\$7,993.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDBU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDBU-D.pdf	DSDS7M14PDBUD	351	\$10,149.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDDU-D.pdf	DSDS7M14PDDUD	351	\$8,251.00
764-905 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, BI-DIRECTIONAL	DBSPECTRA PART#: DS7M14PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PH2U-D.pdf	DSDS7M14PH2UD	351	\$10,339.00
794-824 MHZ, OFFSET MAGNUM ANTENNA, A-PATTERN, 12.5 DBD GAIN, LOW-PIM/	DBSPECTRA PART#: DS7L1M13PAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7L1M13PAU-D.pdf	DSDS7L1M13PAUD	351	\$9,488.00
794-824MHZ MAGNUM ANT, 13.5 DBD, OMNI LOW PIM , H-PATTERN	DBSPECTRA PART#: DS7L1M14PHU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7L1M14PHU-D.pdf	DSDS7L1M14PHUD	351	\$9,976.00

DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
ANTENNA_DUAL_3DBD_OMNI_LOW-PIM	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36D-D.pdf	DSDS7C03P36DD	351	\$3,163.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-D.pdf	DSDS7C06P36UD	457	\$1,944.00
764-869 MHZ, DUAL OMNIDIRECTIONAL ANTENNA, 6 DBD GAIN, LOW PIM/PI-IP,	DBSPECTRA PART#: DS7C06P36D2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D2D.pdf	DSDS7C06P36D2D	351	\$4,589.00
764-869 MHZ, 6 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/PI-IP,	DBSPECTRA PART#: DS7C06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D6D.pdf	DSDS7C06P36D6D	351	\$4,589.00
DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D-D.pdf	DSDS7C06P36DD	351	\$4,020.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36T-D.pdf	DSDS7C06P36TD	351	\$5,261.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-D.pdf	DSDS7C06P36UD	351	\$3,048.00
764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH 2DT	DBSPECTRA PART#: DS7C06P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2D.pdf	DSDS7C06P36U2D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4D.pdf	DSDS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6D.pdf	DSDS7C06P36U6D	351	\$3,335.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, DIN	DBSPECTRA PART#: DS7C08PPVU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU-D.pdf	DSDS7C08PPVUD	351	\$1,815.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2D.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4D.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPVU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU6D.pdf	DSDS7C08PPVU6D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, DIN	DBSPECTRA PART#: DS7C08PPVU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU-D.pdf	DSDS7C08PPVUD	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2D.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4D.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-IP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPVU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU6D.pdf	DSDS7C08PPVU6D	351	\$2,029.00
746-896MHZ BROADBAND DIRECTIONAL ANTENNA	DBSPECTRA PART#: DS7G08Y60U-N SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7G08Y60U-N.pdf	DSDS7G08Y60UN	351	\$518.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/PI-IP,	DBSPECTRA PART#: DS7C09P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D6D.pdf	DSDS7C09P36D6D	351	\$5,808.00
DS7C09P36D-D, 764-869MHZ DUAL 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D-D.pdf	DSDS7C09P36DD	351	\$5,377.00
764-869MHZ, 9DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA W/ 7/16 DIN	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-D.pdf	DSDS7C09P36UD	351	\$4,301.00
DS7C09P36U-D, 764-869MHZ SINGLE 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U2D.pdf	DSDS7C09P36U2D	351	\$5,808.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/PI-IP,	DBSPECTRA PART#: DS7C09P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U4D.pdf	DSDS7C09P36U4D	351	\$4,301.00
764-869MHZ, 9DB GAIN OMNI ANTENNA	DBSPECTRA PART#: DS7C09P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U6D.pdf	DSDS7C09P36U6D	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 6 DEG DT	DBSPECTRA PART#: DS7C10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U-D.pdf	DSDS7C10P36UD	351	\$4,244.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2D.pdf	DSDS7C10P36U2D	351	\$4,531.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/PI-IP	DBSPECTRA PART#: DS7C10P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U3D.pdf	DSDS7C10P36U3D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U4D.pdf	DSDS7C10P36U4D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U6D.pdf	DSDS7C10P36U6D	351	\$4,531.00
764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	DBSPECTRA PART#: DS7C10P36U0D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U0D.pdf	DSDS7C10P36U0D	351	\$4,531.00
764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	DBSPECTRA PART#: DS7C10P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2D.pdf	DSDS7C10P36U2D	351	\$4,704.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P3U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U4D.pdf	DSDS7C10P3U4D	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-IP	DBSPECTRA PART#: DS7C10P3U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U6D.pdf	DSDS7C10P3U6D	351	\$4,704.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PI-IP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C10PPVU-D.pdf	DSDS7C10PPVUD	351	\$3,022.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PI-IP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C10PPVU2D.pdf	DSDS7C10PPVU2D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PI-IP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C10PPVU4D.pdf	DSDS7C10PPVU4D	351	\$3,326.00

764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: D57C10PPVU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C10PPVU6D_D57C11PPYUxD.pdf	DSDS7C10PPVU6D	351	\$3,326.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PART#: D57C11PPTU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C11PPTU4D_D57C11PPYUxD.pdf	DSDS7C11PPTU4D	351	\$3,134.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: D57C11PPYU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C11PPYU4D_D57C11PPYUxD.pdf	DSDS7C11PPYU4D	351	\$3,022.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: D57C11PPYU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C11PPYU2D_D57C11PPYUxD.pdf	DSDS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: D57C11PPYU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C11PPYU4D_D57C11PPYUxD.pdf	DSDS7C11PPYU4D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: D57C11PPYU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C11PPYU6D_D57C11PPYUxD.pdf	DSDS7C11PPYU6D	351	\$3,326.00
746-869 MHZ, 12 DBD, DIRECTIONAL PANEL ANTENNA, DIN	DBSPECTRA# D57A12P90U-D SPEC SHEET LINK: http://www.db spectra.com/specifications/800.pdf	DSD57A12P90UD	351	\$2,959.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	DBSPECTRA PART#: D57C12P36U-D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12P36UxD.pdf	DSDS7C12P36UD	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	DBSPECTRA PART#: D57C12P36U2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12P36UxD.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 4-DEG DT	DBSPECTRA PART#: D57C12P36U4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12P36UxD.pdf	DSDS7C12P36U4D	351	\$5,175.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: D57C12PPAU-D SPEC SHEET LINK: http://www.db spectra.com/specifications/D57C12PPAUxD.pdf	DSDS7C12PPAU4D	351	\$2,608.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: D57C12PPAU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPAUxD.pdf	DSDS7C12PPAU2D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: D57C12PPAU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPAUxD.pdf	DSDS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: D57C12PPVU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPVUxD.pdf	DSDS7C12PPVU2D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: D57C12PPVU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPVUxD.pdf	DSDS7C12PPVU4D	351	\$7,342.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: D57C12PPAU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPAUxD.pdf	DSDS7C12PPAU6D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: D57C12PPVU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPVUxD.pdf	DSDS7C12PPVU6D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: D57C12PPVU-D SPEC SHEET LINK: www.db spectra.com/specifications/D57C12PPVUxD.pdf	DSDS7C12PPVUD	351	\$6,797.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# D57C13PPYU-D SPEC SHEET LINK: www.db spectra.com/specifications/D57C13PPYUxD.pdf	DSDS7C13PPYUD	351	\$6,797.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA PART#: D57C14PPTU-D SPEC SHEET LINK: www.db spectra.com/specifications/D57C14PPTUxD.pdf	DSDS7C14PPTUD	351	\$3,278.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	DBSPECTRA PART#: D57C14PPTU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C14PPTUxD.pdf	DSDS7C14PPTU2D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	DBSPECTRA PART#: D57C14PPTU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C14PPTUxD.pdf	DSDS7C14PPTU4D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	DBSPECTRA PART#: D57C14PPTU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C14PPTUxD.pdf	DSDS7C14PPTU6D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	DBSPECTRA# D57C14PPTU8D SPEC SHEET LINK: www.db spectra.com/specifications/D57C14PPTUxD.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA# D57C15PPAU-D SPEC SHEET LINK: TBD	DSDS7C15PPAU4D	351	\$4,313.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: D57C15PPAU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C15PPAUxD.pdf	DSDS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: D57C15PPAU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C15PPAUxD.pdf	DSDS7C15PPAU4D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: D57C15PPAU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C15PPAUxD.pdf	DSDS7C15PPAU6D	351	\$4,744.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: D57C17PPAU-D SPEC SHEET LINK: www.db spectra.com/specifications/D57C17PPAUxD.pdf	DSDS7C17PPAUD	351	\$9,639.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: D57C17PPAU2D SPEC SHEET LINK: www.db spectra.com/specifications/D57C17PPAUxD.pdf	DSDS7C17PPAU2D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: D57C17PPAU4D SPEC SHEET LINK: www.db spectra.com/specifications/D57C17PPAUxD.pdf	DSDS7C17PPAU4D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: D57C17PPAU6D SPEC SHEET LINK: www.db spectra.com/specifications/D57C17PPAUxD.pdf	DSDS7C17PPAU6D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 8-DEG DT	DBSPECTRA PART#: D57C17PPAU8D SPEC SHEET LINK: www.db spectra.com/specifications/D57C17PPAUxD.pdf	DSDS7C17PPAU8D	351	\$10,412.00
RFI ANTENNAS WITH 4.3.10 CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749612012P	351	\$2,632.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749612015P	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-11-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749618011P	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-14-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749618014P	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-13-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP474966013P	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP474966015P	351	\$3,015.00
OMNI, CORPORATE COLLINER, 3DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-03-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80703P	351	\$2,563.00
OMNI, CORPORATE COLLINER, 6DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706P	351	\$3,051.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 3 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T3P	351	\$3,162.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 5 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T5-P SPEC SHEET LINK: TBD	DSCC80706T5P	351	\$3,162.00
OMNI, CORPORATE COLLINER, 8DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-08-P SPEC SHEET LINK: TBD	DSCC80708P	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T1-P SPEC SHEET LINK: TBD	DSCC80708T1P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T2P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 3 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T3P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T4P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 5 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T5P	351	\$4,140.00
OMNI, CORPORATE COLLINER, 9DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709P	351	\$4,531.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 2 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T2P	351	\$4,705.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 4 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T4P	351	\$4,705.00
OMNI, CORPORATE COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-11-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711P	351	\$6,200.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T1P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T2P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 3 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T3P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T4P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 5 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T5P	351	\$6,633.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-12-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712P	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4 DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-12-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712T4P	351	\$6,891.00
OMNI, MEANDER COLLINER, 9DBD, 746-806MHZ, PIM RATED	RFI PART#: COL811-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$795.00
OMNI, MEANDER COLLINER, 9DBD, 748-806MHZ, PIM RATED	RFI PART#: COL811-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811806P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 796-824MHZ, PIM RATED	RFI PART#: COL811-824-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811824P	351	\$1,045.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED	RFI PART#: COL84-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84806P	351	\$845.00
OMNI, MEANDER COLLINER, 7DBD, 748-806MHZ, PIM RATED	RFI PART#: COL85-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85806P	351	\$899.00
RFI ANTENNAS				
Description	Full Description	Nomenclature	APC	Price

PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, CORPORATE COLLINER, 3 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART# - CC807-03 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80703	351	\$2,562.00
OMNI, CORPORATE COLLINER, 6 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART# - CC807-06 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706	351	\$3,051.00
OMNI, CORP COLLINER, 60DBD, 746-870MHZ, 3 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T3	351	\$3,162.00
OMNI, CORP COLLINER, 60DBD, 746-870MHZ, 5 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T5	351	\$3,162.00
OMNI, CORPORATE COLLINER, 8 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART# - CC807-08-T1 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T1	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1DEG DT, PIM, 25KW PIP RATED	RFI PART# - CC807-08-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T2	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART# - CC807-08-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T3	351	\$4,140.00
OMNI CORPORATE COLLINER 8DBD 746-870MHZ 3 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-08-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T4	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART# - CC807-08-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T5	351	\$4,140.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART # - CC807-11 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711	351	\$6,201.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1DT, PIM, 25KW PIP RATED	RFI PART# - CC807-11-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T2	351	\$6,632.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-11-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T3	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 3DEG DT, PIM, 25KW PIP RATED	RFI PART # - CC807-11-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T4	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-11-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T5	351	\$6,632.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART# - CC807-12 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80712	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-12-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807-12-P-43021-1.pdf	DSCC80712T2	351	\$6,891.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART# - CC807-12-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807-12-P-43021-1.pdf	DSCC80712T4	351	\$6,891.00
OMNI, MEANDER COLLINER, 9 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL811-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL81806	351	\$1,045.00
OMNI, MEANDER COLLINER, 9 DBD, 796-824 MHZ, PIM RATED, 7/16 DIN	RFI PART # - COL811-824 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL81824	351	\$1,045.00
OMNI, MEANDER COLLINER, 0DBD, 746-806MHZ, PIM RATED, 7/16 DIN	RFI PART# - COL81-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81806	351	\$795.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED, 7/16 DIN	RFI PART# - COL84-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84806	351	\$845.00
OMNI, MEANDER COLLINER, 7 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL85-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL85806	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART# - YB803-99 SPEC SHEET LINK: http://www.rfwireless.com.au/media/ywisywyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART# - YW09-7489 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00
YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART# - YW15-6989 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART# - UC1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$69.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART# - UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$125.00
ANTENNA CLAMP 60 TO 115MM	RFI PART# - UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$250.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART# - UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$375.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART# - UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART# - UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$39.25
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART# - UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART# - UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART# - UC-12 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-12_datasheet-std-conversions.pdf	DSUC12	351	\$805.00
PANEL ANTENNA, 100DB, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART# - BPA7496-120-12 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART# - UC-12 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-12_datasheet-std-conversions.pdf	DSUC12	351	\$137.00

700 MHz CONTROL STATION ANTENNAS

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N-FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,403.00

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART# - ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATCGC7V40D7	351	\$2,530.00
OMNI ANTENNA, COLLINER ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART# - ATC-GC7V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATCGC7V20D7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART# - ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATGD7VCNF	351	\$380.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART# - SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD7VC.pdf	DSATWP178	351	\$805.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1	DSPLMKIT1	351	\$140.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
700 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS7B03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS7B03CS36UN	351	\$1,029.00
764-806 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS7B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS7B03CS36DN	351	\$1,961.00
764-806 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS7B03CS36DN DS8A03CS36DN DS9A03CS36DN.pdf	DSDS7B00CS36DN	351	\$1,093.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI PART#: SM07-83-U SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/4094212_SMDSeries_030908-4-67.pdf	DSSMD783U	351	\$230.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	RFI PART#: COD8-7687 CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD87687	351	\$530.00



800 MHz Antennas

ALIVE TELECOM PARTS

Table with 5 columns: Description, Full Description, Nomenclature, APC, Price. Lists various antenna models like OMNI ANTENNA, COLLINER ARRAY, and PANEL ANTENNA.

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS

Table with 5 columns: Description, Full Description, Nomenclature, APC, Price. Lists various DBSPECTRA antenna models with detailed specifications.

DBSPECTRA MAGNUM ANTENNAS

Table with 5 columns: Description, Full Description, Nomenclature, APC, Price. Lists various DBSPECTRA MAGNUM antenna models.

DBSPECTRA ANTENNAS

Summary table with 5 columns: Description, Full Description, Nomenclature, APC, Price.

Description	Full Description	Nomenclature	APC	Price
ANTENNA_DUAL_3DBD_OMNI_LOW_PIM	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36D-D.pdf	DSDS7C03P36DD	351	\$3,163.00
764-869 MHZ, TRIPLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36T-D.pdf	DSDS7C03P36TD	351	\$3,623.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36U-D.pdf	DSDS7C03P36UD	457	\$1,944.00
764-869 MHZ, DUAL OMNIDIRECTIONAL ANTENNA, 6 DBD GAIN, LOW PIM/HI-PIP.	DBSPECTRA PART#: DS7C06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D-D.pdf	DSDS7C06P36DD	351	\$4,589.00
764-869 MHZ, 6 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP.	DBSPECTRA PART#: DS7C06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D6D.pdf	DSDS7C06P36D6D	351	\$4,589.00
DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-D.pdf	DSDS7C06P36UD	351	\$4,020.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36T-D.pdf	DSDS7C06P36TD	351	\$5,261.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-D.pdf	DSDS7C06P36UD	351	\$3,048.00
764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH ZDT	DBSPECTRA PART#: DS7C06P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2D.pdf	DSDS7C06P36U2D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4D.pdf	DSDS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6D.pdf	DSDS7C06P36U6D	351	\$3,335.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2D.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4D.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPYU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPYU2D.pdf	DSDS7C08PPYU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPYU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPYU4D.pdf	DSDS7C08PPYU4D	351	\$2,029.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP.	DBSPECTRA PART#: DS7C09P36D2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D2D.pdf	DSDS7C09P36D2D	351	\$5,808.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP.	DBSPECTRA PART#: DS7C10P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U6D.pdf	DSDS7C10P36U6D	351	\$5,808.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	DBSPECTRA PART#: DS7C10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U-D.pdf	DSDS7C10P36UD	351	\$4,704.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU-D.pdf	DSDS7C10PPVUD	351	\$3,022.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU2D.pdf	DSDS7C10PPVU2D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU4D.pdf	DSDS7C10PPVU4D	351	\$3,326.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PART#: DS7C11PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPTU-D.pdf	DSDS7C11PPTUD	351	\$3,134.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C11PPYU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU2D.pdf	DSDS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C11PPYU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU4D.pdf	DSDS7C11PPYU4D	351	\$3,326.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR.	DBSPECTRA PART#: DS7C12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U-D.pdf	DSDS7C12P36UD	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U2D.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU2D.pdf	DSDS7C12PPAU2D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU4D.pdf	DSDS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU6D.pdf	DSDS7C12PPAU6D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU2D.pdf	DSDS7C12PPVU2D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU4D.pdf	DSDS7C12PPVU4D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPVU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU6D.pdf	DSDS7C12PPVU6D	351	\$7,342.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C13PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C13PPYU-D.pdf	DSDS7C13PPYUD	351	\$6,797.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	DBSPECTRA PART#: DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU-D.pdf	DSDS7C14PPTUD	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	DBSPECTRA PART#: DS7C14PPTU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU2D.pdf	DSDS7C14PPTU2D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	DBSPECTRA PART#: DS7C14PPTU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU4D.pdf	DSDS7C14PPTU4D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	DBSPECTRA PART#: DS7C14PPTU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU6D.pdf	DSDS7C14PPTU6D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 10 DG TILT	DBSPECTRA PART#: DS7C14PPTU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU8D.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA PART#: DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU-D.pdf	DSDS7C14PPTUD	351	\$3,278.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C15PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU2D.pdf	DSDS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C15PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU4D.pdf	DSDS7C15PPAU4D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C15PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU6D.pdf	DSDS7C15PPAU6D	351	\$4,744.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C17PPAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU-D.pdf	DSDS7C17PPAUD	351	\$9,639.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C17PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU2D.pdf	DSDS7C17PPAU2D	351	\$10,412.00
RFI ANTENNAS WITH 4.3.10 CONNECTORS				
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749612012P	351	\$2,632.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749612015P	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-11-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749618011P	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-14-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749618014P	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-13-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA74966013P	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA74966015P	351	\$3,015.00
OMNI, CORPORATE COLLINER, 3DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-03-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80703P	351	\$2,563.00
OMNI, CORPORATE COLLINER, 6DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706P	351	\$3,051.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 3 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T3P	351	\$3,162.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 5 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T5P	351	\$3,162.00
OMNI, CORPORATE COLLINER, 8DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-08-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708P	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T1P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T2P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T3P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T4P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T5P	351	\$4,140.00
OMNI, CORPORATE COLLINER, 9DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709P	351	\$4,531.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T2P	351	\$4,705.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T4P	351	\$4,705.00
OMNI, CORPORATE COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-11-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711P	351	\$6,200.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T1P	351	\$6,633.00

OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T2P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T3P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T4P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T5P	351	\$6,633.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-12-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712P	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-12-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712T4P	351	\$6,891.00
OMNI, MEANDER COLLINER, 0DBD, 746-806MHZ, PIM RATED	RFI PART#: COL81-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 806-870MHZ, PIM RATED	RFI PART#: COL81-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81870P	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 850-930MHZ, PIM RATED	RFI PART#: COL81-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81930P	351	\$795.00
OMNI, MEANDER COLLINER, 9DBD, 746-806MHZ, PIM RATED	RFI PART#: COL81-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 796-824MHZ, PIM RATED	RFI PART#: COL81-824-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81824P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 806-870MHZ, PIM RATED	RFI PART#: COL81-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81870P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 850-930MHZ, PIM RATED	RFI PART#: COL81-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81930P	351	\$1,045.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED	RFI PART#: COL84-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84806P	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 806-870MHZ, PIM RATED	RFI PART#: COL84-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84870P	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 850-930MHZ, PIM RATED	RFI PART#: COL84-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84930P	351	\$845.00
OMNI, MEANDER COLLINER, 7DBD, 746-806MHZ, PIM RATED	RFI PART#: COL85-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85806P	351	\$899.00
OMNI, MEANDER COLLINER, 7DBD, 806-870MHZ, PIM RATED	RFI PART#: COL85-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85870P	351	\$899.00
OMNI, MEANDER COLLINER, 7DBD, 850-930MHZ, PIM RATED	RFI PART#: COL85-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85930P	351	\$899.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-180-11.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-180-14.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-60-13.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-60-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, MEANDER COLLINER, 9DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL811-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811870	351	\$1,045.00
OMNI, MEANDER COLLINER, 9 DBD, 850-930 MHZ, PIM RATED	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811930	351	\$1,045.00
OMNI, MEANDER COLLINER, 0DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL81-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81870	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL81-930 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81930	351	\$795.00
OMNI, MEANDER COLLINER, 5DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL84-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84870	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL84-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84930	351	\$845.00
OMNI, MEANDER COLLINER, 7 DBD, 806-870 MHZ, PIM RATED	RFI# COL85-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL85870	351	\$899.00
OMNI, MEANDER COLLINER, 7 DBD, 850-930 MHZ, PIM RATED	RFI# COL85-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL85930	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfwireless.com.au/media/ywsiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART#: YW09-7489 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00
YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART#: YW15-6989 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$125.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$250.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$205.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$375.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$39.25
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-12	DSUC12	351	\$137.00

800 MHz CONTROL STATION ANTENNAS
STI-CO TRI BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N-FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,403.00

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V40D7	351	\$2,530.00
OMNI ANTENNA, COLLINER ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V20D7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART#: ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alive.com/wp-content/uploads/ATC-GD7VC.pdf	DSATCGD7VCNF	351	\$380.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WP178 SPEC SHEET LINK: https://alive.com/wp-content/uploads/ATC-WP178.pdf	DSATWP178	351	\$805.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, 800-870 MHZ	AMPHENOL PART#: CXL 800-1. Order brackets separately. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/523-cxl-800-1	DSCXL8001	351	\$195.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw?generate=1	DSCXL9001LWH	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/l. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWL	351	\$187.00

PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, MEANDER COLLINEAR, 9 DBD, 850-930 MHZ, PIM RATED	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811-Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811930	351	\$1,045.00
YAGI ARRAY HORIZ STACK, VERT POL, 16 DBD, 890-960MHZ, WITH CLAMPS & BR	RFI PART NUMBER# YB820-94BK SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/P-40809-17%20YB815%20Series.pdf	DSYB82094BK	351	\$1,441.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$125.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$250.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$375.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$39.25
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00

900 MHz CONTROL STATION ANTENNAS
AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/L BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWL	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-960 MHZ	AMPHENOL PART#: CXL 900-1LW/m. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWM	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h. Brackets included. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWH	351	\$187.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
900 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# D59A03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSD59A03CS36UN	351	\$1,006.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: D59A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSD59A03CS36DN	351	\$1,938.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: D59A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A00CS36DN_DS9A00CS36DN.pdf	DSD59A00CS36DN	351	\$1,093.00
890-960MHZ UNITY GAIN CONTROL STATION ANTENNA	www.dbspectra.com/specifications/DS7B03CS36UN_DS8A00CS36UN_DS9A00CS36UN_DS9A03CS36UN.pdf	DSD59A00CS36UN	351	\$794.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 850-960 MHZ	RFI# COD8-8596 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD88596	351	\$530.00

Mini Mag (TM) Antennas
Models

Description	Full Description	Nomenclature	APC	Price
ANTENNA 800MHZ MINI MAGNET BLACK	824-895 MHz, Mini-UHF Connector, Black	RAF4036AMM	554	\$47.00

Antennas Parts
Models

Description	Full Description	Nomenclature	APC	Price
ANT TRANSIT DOME 148-160 MHZ	Antenna and Cable Kit. Power 150 Watts Max. Gain: Unity, VSWR: 1.5:1, Impedance: 50 Ohms, nominal	RRA4455	554	\$137.00
ANT TNK MT	Trunk lip mount, Mini UHF, 17 ft. cable.	0180355A88	554	\$31.75

UHF Band Antennas
ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
DIPOLE ANTENNA, OFFSET, 5 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE, HD	ALIVE PART#: ATC-GD4V2C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V2C.pdf	DSATCGD4V2CD7	351	\$1,058.00
DIPOLE ANTENNA, OFFSET, 9 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GD4V4C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V4C.pdf	DSATCGD4V4CD7	351	\$1,932.00
DIPOLE ANTENNA, OFFSET, 11 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GD4V8C-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V8C.pdf	DSATCGD4V8CD7	351	\$2,760.00
CORNER REFLECTOR EXPOSED DIPOLE ANTENNA 450-512 MHZ 9.5 DBD 7-16 DIN F	ALIVE PART#: ATC-GP4V1CR-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GP4V1CR.pdf	DSATCGP4V1CRD7	351	\$1,438.00
PANEL ANTENNA, 450-512 MHZ, 6 DBD, 4.3-10 DIN FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-4I65-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-4I65-2.pdf	DSATC4I65D4	351	\$380.00
COLLINEAR OMNI ANTENNA, 380-400 MHZ, 6.3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC3V4O-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC3V4O.pdf	DSATCGC3V4OD4	457	\$1,150.00
COLLINEAR OMNI ANTENNA, 450-470 MHZ, 3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC4V2O-1D4 SPEC SHEET LINK: TBD	DSATCGC4V2O1D4	351	\$690.00
COLLINEAR OMNI ANTENNA, 400-420 MHZ, 3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC4V2O-D4 SPEC SHEET LINK: TBD	DSATCGC4V2O4	351	\$690.00
COLLINEAR OMNI ANTENNA, 450-470 MHZ, 6.3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC4V4O-1D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC4V4O-1.pdf	DSATCGC4V4O1D4	351	\$1,150.00
COLLINEAR OMNI ANTENNA, 470-490 MHZ, 6.3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC4V4O-2D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC4V4O-2.pdf	DSATCGC4V4O2D4	351	\$1,150.00
COLLINEAR OMNI ANTENNA, 400-420 MHZ, 6.3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC4V4O-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC4V4O.pdf	DSATCGC4V4OD4	351	\$1,150.00
EXPOSED DIPOLE ANTENNA, DIRECTIONAL, 400-520 MHZ, 5 DBD, 4.3-10 DIN	ALIVE PART#: ATC-GD4V2C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V2C.pdf	DSATCGD4V2CD4	351	\$1,058.00
EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 3 DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD4V2O-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V2O.pdf	DSATCGD4V2OD4	351	\$1,610.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 9 DBD, 400-520 MHZ, 4.3-10 DIN	ALIVE PART#: ATC-GD4V4C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V4C.pdf	DSATCGD4V4CD4	351	\$1,932.00
EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 6 DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD4V4O-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V4O-1.pdf	DSATCGD4V4OD4	351	\$2,588.00
EXPOSED DIPOLE ANTENNA, 400-520 MHZ, CARDIOID, 11 DBD, 4.3-10 DIN	ALIVE PART#: ATC-GD4V8C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V8C.pdf	DSATCGD4V8CD4	351	\$2,760.00
EXPOSED DIPOLE ANTENNA, OMNI, 400-520 MHZ, 9 DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD4V8O-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD4V8O.pdf	DSATCGD4V8OD4	351	\$4,784.00
EXPOSED DIPOLE ANTENNA, BACKPLANE DIRECTIONAL, 406-512 MHZ, 7 DBD, 4.3	ALIVE PART#: ATCGP4V2C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GP4V2C.pdf	DSATCGP4V2CD4	351	\$1,380.00

CORNER REFLECTOR EXPOSED DIPOLE ANTENNA 450-512 MHZ 9.5 DBD 4.3-10 DIN		ALIVE PART#: ATC-GP4V1CR-D4 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GP4V1CR.pdf	DSATCGP4V1CRD4	351	\$1,438.00
DBSPECTRA ANTENNAS WITH 4.3-10 CONNECTORS					
Description	Full Description	Nomenclature	APC	Price	
380-410MHZ OMNIDIRECTIONAL - 2.9 DBD GAIN, LOW-PIM, DAS RATED ANTENNA,	DBSPECTRA PART#: DS3A03L36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03L36U-D.pdf	DSDS3A03L36UM	351	\$1,640.00	
380-410 MHZ, 3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/H	DBSPECTRA PART#: DS3A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UM	351	\$2,006.00	
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UM	351	\$1,833.00	
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UM	351	\$3,191.00	
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UM	351	\$3,128.00	
380-410 MHZ, 8 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	DBSPECTRA PART#: DS3A08P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A08P36U-D.pdf	DSDS3A08P36UM	351	\$5,003.00	
380-410 MHZ, 8 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/Hi-PIP, 4.3-	DBSPECTRA PART#: DS3A08P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A08P36U-D.pdf	DSDS3A08P36UM	351	\$4,715.00	
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	DBSPECTRA PART#: DS3A09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UM	351	\$5,319.00	
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/Hi-PIP, 4.3-	DBSPECTRA PART#: DS3A09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UM	351	\$5,031.00	
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	DBSPECTRA PART#: DS3X00L36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00L36U-D.pdf	DSDS3X00L36UM	351	\$1,121.00	
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/Hi-PIP,	DBSPECTRA PART#: DS3X00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00P36U-D.pdf	DSDS3X00P36UM	351	\$1,317.00	
406-436 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, UNITY GAIN (0 DBD), LOW-	DBSPECTRA PART#: DS3X00L36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00L36U-D.pdf	DSDS3X00L36UM	351	\$1,317.00	
406-436 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/Hi-PI	DBSPECTRA PART#: DS4A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36U-D.pdf	DSDS4A03P36UM	351	\$2,006.00	
406-436 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/Hi-PIP,	DBSPECTRA PART#: DS4A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36U-D.pdf	DSDS4A03P36UM	351	\$1,833.00	
406-436MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 4.3-10 F	DBSPECTRA PART#: DS4A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36U-D.pdf	DSDS4A06P36UM	351	\$2,614.00	
406-430 MHZ, UHF DIRECTIONAL YAGI ANTENNA, 7 DBD GAIN, 90 DEGREES HORI	DBSPECTRA PART#: DS4A07Y90U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A07Y90U-D.pdf	DSDS4A07Y90UM	351	\$661.00	
406-436 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS4A09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A09P36U-D.pdf	DSDS4A09P36UM	351	\$5,031.00	
425-455 MHZ, UHF SINGLE OMNI DIRECTIONAL ANTENNA, 5.9 DBD, LOW-PIM/Hi-	DBSPECTRA PART#: DS4B06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4B06P36U-D.pdf	DSDS4B06P36UM	351	\$3,128.00	
450-470 MHZ, 3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/H	DBSPECTRA PART#: DS4F03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DSDS4F03P36UM	351	\$2,339.00	
450-470MHZ, SINGLE FEED OMNI ,3DB GAIN, LOW PIM,HI PIP, 4.3-10 FEMALE	DBSPECTRA PART#: DS4F03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DSDS4F03P36UM	351	\$2,136.00	
450-470MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/Hi-PIP, 6 DEG DT	DBSPECTRA PART#: DS4F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D.pdf	DSDS4F06P36UM	351	\$3,191.00	
450-470MHZ 6DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP 3 DEG DT	DBSPECTRA PART#: DS4F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D.pdf	DSDS4F06P36UM	351	\$3,191.00	
450-470 MHZ, UHF INVERTED ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN LOW-PIM/	DBSPECTRA PART#: DS4F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D.pdf	DSDS4F06P36UM	351	\$3,076.00	
450-470MHZ, SINGLE FEED OMNI, 6DB GAIN, LOW PIM,HI PIP, 4.3-10 FEMALE	DBSPECTRA PART#: DS4F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D.pdf	DSDS4F06P36UM	351	\$2,904.00	
450-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 8 DB GAIN, LOW-PIM/Hi-PIP, 4	DBSPECTRA PART#: DS4F08P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F08P36U-D.pdf	DSDS4F08P36UM	351	\$4,111.00	
450-470MHZ, SINGLE FEED OMNI, 9DB GAIN, LOW PIM,HI PIP, 4.3-10 FEMALE	DBSPECTRA PART#: DS4F09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F09P36U-D.pdf	DSDS4F09P36UM	351	\$4,554.00	
450-470 MHZ, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN, LOW PIM/	DBSPECTRA PART#: DS4F10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F10P36U-D.pdf	DSDS4F10P36UM	351	\$5,003.00	
450-470 MHZ, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN, LOW PIM/	DBSPECTRA PART#: DS4F10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F10P36U-D.pdf	DSDS4F10P36UM	351	\$5,003.00	
UHF DUAL ANTENNA, LOW-PIM, HI-PIP, 0 DBD UNITY GAIN, 470-512MHZ	DBSPECTRA PART#: DS4T00P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4T00P36D-D.pdf	DSDS4T00P36DM	351	\$2,013.00	
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	DBSPECTRA PART#: DS4X00L36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00L36U-D.pdf	DSDS4X00L36UM	351	\$1,121.00	
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/Hi-PIP,	DBSPECTRA PART#: DS4X00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00P36U-D.pdf	DSDS4X00P36UM	351	\$1,317.00	
DBSPECTRA ANTENNAS					
Description	Full Description	Nomenclature	APC	Price	
380-410MHZ OMNIDIRECTIONAL 2.9 DBD GAIN, LOW-PIM, DAS RATED ANTENNA	DBSPECTRA PART#: DS3A03L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03L36U-D.pdf	DSDS3A03L36UD	351	\$1,640.00	
380-410 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/Hi-P	DBSPECTRA PART#: DS3A03P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36D-D.pdf	DSDS3A03P36DM	351	\$3,433.00	
380-410 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/Hi	DBSPECTRA PART#: DS3A03P36T-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36T-D.pdf	DSDS3A03P36DM	351	\$3,939.00	
3 DB GAIN TRIPLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36T-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36T-D.pdf	DSDS3A03P36DM	351	\$4,399.00	
ANTENNA - 380-410MHZ, 3DB GAIN SINGLE OMNI, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UM	351	\$1,833.00	
3 DB GAIN SINGLE DUAL ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36D-D.pdf	DSDS3A03P36DM	351	\$3,663.00	
3 DB GAIN SINGLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UM	351	\$2,006.00	
380-410MHZ, 6DB GAIN DUAL FEED OMNI DIRECTIONAL, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A06P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36D-D.pdf	DSDS3A06P36DM	351	\$4,253.00	
SINGLE 6 DB GAIN OMNI , 380-410 MHZ, DIN CONNECTOR PIM & PIP RATED	DBSPECTRA PART#: DS3A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UM	351	\$3,128.00	
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UM	351	\$3,191.00	
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/Hi-PIP, DIN	MSI PART#: DS3A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UM	351	\$5,031.00	
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	MSI PART#: DS3A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UM	351	\$5,319.00	
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS,	DBSPECTRA PART#: DS3X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00L36U-D.pdf	DSDS3X00L36UD	351	\$1,121.00	
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/Hi-PIP,	DBSPECTRA PART#: DS3X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00P36U-D.pdf	DSDS3X00P36UD	351	\$1,317.00	
406-430 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/Hi-P	DBSPECTRA PART#: DS4A03P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36D-D.pdf	DSDS4A03P36DM	351	\$3,433.00	
UHF DUAL ANTENNA, OMNI, LOW PIM, HI-PIP, 3DB, BEAM TILT 6 DEG	DBSPECTRA PART#: DS4A03P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36D-D.pdf	DSDS4A03P36DM	351	\$3,664.00	
406-436 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/Hi-PIP,	DBSPECTRA PART#: DS4A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36U-D.pdf	DSDS4A03P36UM	351	\$1,833.00	
406-430 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/Hi	DBSPECTRA PART#: DS4A03P36T-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36T-D.pdf	DSDS4A03P36DM	351	\$4,135.00	
406-420MHZ DUAL FEED OMNI ANTENNA,5.9DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36D-D.pdf	DSDS4A06P36DM	351	\$4,485.00	
406-420MHZ OMNI ANTENNA, 6DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36U-D.pdf	DSDS4A06P36UM	351	\$2,615.00	
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS4A09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A09P36U-D.pdf	DSDS4A09P36UM	351	\$5,031.00	
425-455 MHZ, UHF SINGLE OMNI DIRECTIONAL ANTENNA, 5.9 DBD, LOW-PIM/Hi-	DBSPECTRA PART#: DS4B06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4B06P36U-D.pdf	DSDS4B06P36UM	351	\$3,128.00	
480-512 MHZ, 3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D03P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36D-D.pdf	DSDS4D03P36DM	351	\$3,433.00	
480-512 MHZ, 3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEGREE D	MSI PART#: DS4D03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36U-D.pdf	DSDS4D03P36UM	351	\$1,833.00	
480-512MHZ 6DB GAIN DUAL FEED OMNI ANT, LOW PIM, HI PIP ANT,	DBSPECTRA PART#: DS4D06P36D-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36D-D.pdf	DSDS4D06P36DM	351	\$4,253.00	
480-512 MHZ, 6 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36U-D.pdf	DSDS4D06P36UM	351	\$2,904.00	
406-512MHZ, 6DB GAIN DIRECTIONAL PANEL ANTENNA, DIN	MSI PART#: DS4E06P18U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E06P18U-D.pdf	DSDS4E06P18UM	351	\$2,279.00	
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 8 DBD, 7/16 DIN	DBSPECTRA# DS4E08P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E08P12U-D.pdf	DSDS4E08P12UM	351	\$2,361.00	

Description	Full Description	Nomenclature	APC	Price
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 10 DBD, 7/16 DIN	DBSPECTRA# DS4E10P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E10P12U-D.pdf	DSDS4E10P12UD	351	\$2,979.00
450-470 MHZ, UNITY GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA, 0 DEG DT	DBSPECTRA PART#: DS4F00P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F00P36D-D.pdf	DSDS4F00P36DD	351	\$2,455.00
450-470 MHZ, 3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/	DBSPECTRA PART#: DS4F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36D-D.pdf	DSDS4F03P36DD	351	\$3,663.00
DS4F03P36D-D, DUAL, 3DB GAIN LOW PIM, PIP, DIN	DBSPECTRA# DS4F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36D-D.pdf	DSDS4F03P36DD	351	\$3,433.00
OMNI, 3DB GAIN LOW PIM, DIN	DBSPECTRA# DS4F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DSDS4F03P36UD	351	\$2,134.00
450-470 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	MSI PART#: DS4F03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36T-D.pdf	DSDS4F03P36TD	351	\$3,939.00
450-470 MHZ, 3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/	DBSPECTRA PART#: DS4F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DSDS4F03P36UD	351	\$2,329.00
450-470MHZ DUAL FEED 5.9DB GAIN, LOW-PIM, PIP RATED ANT, DIN	DBSPECTRA# DS4F06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36D-D-(I-U-D).pdf	DSDS4F06P36DD	351	\$4,169.00
ANTENNA, 6DBD OMNI, LOW-PIM, DIN 450-470 MHZ	DBSPECTRA# DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D-(I-U-D).pdf	DSDS4F06P36UD	351	\$2,904.00
450-470MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D-(I-U-D).pdf	DSDS4F06P36UD	351	\$3,191.00
450-470MHZ, DUAL FEED OMNI, INVERTED, 6DB GAIN, LOW PIM, HI PIP, 7/16 D	DBSPECTRA# DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D-(I-U-D).pdf	DSDS4F06P36UD	351	\$4,554.00
450-470 MHZ, UHF INVERTED ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN LOW-PIM/	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D-(I-U-D).pdf	DSDS4F06P36UD	351	\$3,076.00
450-470MHZ 6DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP 3 DEG DT	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-D-(I-U-D).pdf	DSDS4F06P36UD	351	\$3,191.00
450-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 8 DB GAIN, LOW-PIM/HI-PIP, D	DBSPECTRA PART#: DS4F08P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F08P36U-D.pdf	DSDS4F08P36UD	351	\$4,111.00
450-470MHZ, SINGLE FEED OMNI, .9DB GAIN, LOW PIM, HI PIP, 7/16 DIN	DBSPECTRA# DS4F09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F09P36U-D.pdf	DSDS4F09P36UD	351	\$4,203.00
450-470 MHZ, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN, LOW PIM/	DBSPECTRA PART#: DS4F10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F10P36U-D.pdf	DSDS4F10P36UD	351	\$5,003.00
ANT 450-512MHZ, 5.8DB GAIN DIRECTIONAL PANEL, LOW-PIM/HI-PIP W DIN CON	MSI PART#: DS4K06P18UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K06P18UD.pdf	DSDS4K06P18UD	351	\$2,616.00
ANTENNA, YAGI, 450-512 MHZ	DBSPECTRA# DS4K07Y85U-N SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K07Y85U-N.pdf	DSDS4K07Y85UN	351	\$518.00
450-512 MHZ, UHF ANTENNA-DIRECTIONAL PANEL, LOW PIM/HI-PIP, 9.7 DB GAIN	DBSPECTRA PART#: DS4K10PP65UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K10PP65UD.pdf	DSDS4K10PP65UD	351	\$3,105.00
UHF DUAL ANTENNA, LOW-PIM, HI-PIP, 0 DBD UNITY GAIN, 470-512MHZ	DBSPECTRA PART#: DS4T00P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4T00P36D-D.pdf	DSDS4T00P36DD	351	\$2,013.00
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	DBSPECTRA PART#: DS4X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00L36U-D.pdf	DSDS4X00L36UD	351	\$1,121.00
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS4X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00P36U-D.pdf	DSDS4X00P36UD	351	\$1,317.00
RFI ANTENNAS WITH 4.3.10 CONNECTORS				
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, PIM RATED	RFI PART#: BA160-67-P SPEC SHEET LINK: TBD	DSBA16067P	351	\$8,220.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: BA160-67-T3-P SPEC SHEET LINK: TBD	DSBA16067T3P	351	\$8,220.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: BA160-67-T8-P SPEC SHEET LINK: TBD	DSBA16067T8P	351	\$6,549.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 330-420 MHZ, PIM RATED	RFI PART#: BA40-67-P SPEC SHEET LINK: TBD	DSBA4067P	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 400-520 MHZ, PIM RATED	RFI PART#: BA40-67-P SPEC SHEET LINK: TBD	DSBA4067P	351	\$2,158.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 330-420MHZ, PIM RATED	RFI PART#: BA4040-67-P SPEC SHEET LINK: TBD	DSBA404067P	351	\$3,240.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 400-520MHZ, PIM RATED	RFI PART#: BA4040-67-P SPEC SHEET LINK: TBD	DSBA404067P	351	\$3,240.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 330-420MHZ, PIM RATED	RFI PART#: BA80-67-P SPEC SHEET LINK: TBD	DSBA8067P	351	\$3,048.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 400-520MHZ, PIM RATED	RFI PART#: BA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8067P	351	\$2,919.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: BA80-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8067T3P	351	\$2,919.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, PIM RATED	RFI PART#: BA8080-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA808067P	351	\$5,458.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3D DT, PIM RATE	RFI PART#: BA8080-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA808067T3P	351	\$5,458.00
UHF PANEL ANTENNA 380-430MHZ, 12DBD, 65DEG, PIM RATED	RFI PART#: BPA3843-65-14-P CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-14-P-421811.pdf	DSBP38436514P	351	\$2,724.00
UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	RFI PART#: BPA3843-65-8-P CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8-P-42286-3.pdf	DSBP3843658P	351	\$1,743.00
OMNI, CORPORATE COLLINER, 6DBD, 380-430MHZ, PIM RATED	RFI PART#: CC380-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC38006P	351	\$3,386.00
OMNI, DUAL CORPORATE COLLINER, 2 X 3DBD, 380-420MHZ, PIM RATED	RFI PART#: CC380-33-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC38033P	351	\$3,457.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, PIM RATED	RFI PART#: CC450-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45006P	351	\$2,743.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, 3 DEG DT, PIM RATED	RFI PART#: CC450-06-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45006T3P	351	\$2,880.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, 6 DEG DT, PIM RATED	RFI PART#: CC450-06-T6-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45006T6P	351	\$2,880.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, PIM RATED	RFI PART#: CC450-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009P	351	\$3,864.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, 3DEG DT, PIM RATED	RFI PART#: CC450-09-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009T3P	351	\$3,942.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, 6DEG DT, PIM RATED	RFI PART#: CC450-09-T6-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009T6P	351	\$3,942.00
OMNI, MEANDER COLLINER, 0DBD, 380-400MHZ, PIM RATED	RFI PART#: COL41-58-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4158P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 400-420MHZ, PIM RATED	RFI PART#: COL41-65-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4165P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 450-470MHZ, PIM RATED	RFI PART#: COL41-70-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4170P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 470-490MHZ, PIM RATED	RFI PART#: COL41-71-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4171P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 490-520MHZ, PIM RATED	RFI PART#: COL41-72-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4172P	351	\$1,125.00
OMNI, MEANDER COLLINER, 9DBD, 380-400MHZ, PIM RATED	RFI PART#: COL410-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410400P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 400-420MHZ, PIM RATED	RFI PART#: COL410-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410420P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 410-430MHZ, PIM RATED	RFI PART#: COL410-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410430P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 450-470MHZ, PIM RATED	RFI PART#: COL410-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410470P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 470-490MHZ, PIM RATED	RFI PART#: COL410-490-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410490P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 490-520MHZ, PIM RATED	RFI PART#: COL410-520-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410520P	351	\$2,018.00
OMNI, MEANDER COLLINER, 5DBD, 380-400MHZ, PIM RATED	RFI PART#: COL43-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43400P	351	\$852.00
OMNI, MEANDER COLLINER, 5DBD, 400-420MHZ, PIM RATED	RFI PART#: COL43-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43420P	351	\$852.00
OMNI, MEANDER COLLINER, 5DBD, 410-430MHZ, PIM RATED	RFI PART#: COL43-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43430P	351	\$852.00
OMNI, MEANDER COLLINER, 5DBD, 450-470MHZ, PIM RATED	RFI PART#: COL43-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43470P	351	\$852.00
OMNI, MEANDER COLLINER, 5 DBD, 490-520MHZ, PIM RATED	RFI PART#: COL43-520-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43520P	351	\$852.00
OMNI, MEANDER COLLINER, 7DBD, 380-400MHZ, PIM RATED	RFI PART#: COL45-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45400P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 400-420MHZ, PIM RATED	RFI PART#: COL45-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45420P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 410-430MHZ, PIM RATED	RFI PART#: COL45-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45430P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 450-470MHZ, PIM RATED	RFI PART#: COL45-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45470P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 470-490MHZ, PIM RATED	RFI PART#: COL45-490-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45490P	351	\$1,165.00

RFI PART#	Description	Full Description	Nomenclature	APC	Price
	OMNI, MEANDER COLLINER, 7DBD, 490-520MHZ, PIM RATED	RFI PART#: COL45-520-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45520P	351	\$1,165.00
	DIRECTIONAL DIPOLE ARRAY, 7DBD, 64DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA10-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA1067P	351	\$1,541.00
	DIRECTIONAL DIPOLE ARRAY, 9DBD, 71DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA20-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA2067P	351	\$2,908.00
	DIRECTIONAL DIPOLE ARRAY, 11DBD, 60DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA40-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA4067P	351	\$3,952.00
	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5DBD, 400-520MHZ, PIM RATED	RFI PART#: EA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA4067P	351	\$2,200.00
	ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 400-520MHZ, PIM RATED	RFI PART#: EA400-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA404067P	351	\$2,760.00
	ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 400-520MHZ, PIM RATED	RFI PART#: EA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8067P	351	\$2,681.00
	DIRECTIONAL DIPOLE ARRAY, 5DBD, 121DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA10-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA1067P	351	\$1,117.00
	DIRECTIONAL DIPOLE ARRAY, 7DBD, 132DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA20-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA2067P	351	\$2,355.00
	DIRECTIONAL DIPOLE ARRAY, 9DBD, 135DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA4067P	351	\$3,093.00
	OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	RFI PART#: IA404040-41-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSIA4040404167P	351	\$8,865.00
	OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 330-420MHZ, PIM RATED	RFI PART#: OA20-57-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2057P	351	\$1,552.00
	OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 400-520MHZ, PIM RATED	RFI PART#: OA20-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2067P	351	\$1,551.00
	OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 400-520, PIM RATED	RFI PART#: OA2020-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA202067P	351	\$2,570.00
	OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 330-420MHZ, PIM RATED	RFI PART#: OA40-57-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4057P	351	\$2,127.00
	OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, PIM RATED	RFI PART#: OA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067P	351	\$2,108.00
	OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: OSA40-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067T3P	351	\$2,108.00
	OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 5DEG DT, PIM RATED	RFI PART#: OSA40-67-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067T5P	351	\$2,108.00
	OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2X9DBD, 400-520MHZ, PIM RATED	RFI PART#: OA400-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA404067P	351	\$3,797.00
	OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, PIM RATED	RFI PART#: OA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA8067P	351	\$4,451.00
	OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: OA80-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA8067T3P	351	\$4,451.00
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	OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI PART#: BA160-67-DIN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf It is important to be certain that this file is from a trustworthy source. Would you like to open this file? ----- OK Cancel -----	DSBA16067DIN	351	\$6,219.00
	OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, 3 DEG DT, PIM RATED	RFI#BA160-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA16067DINT3	351	\$6,220.00
	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 330-420MHZ, PIM RATED	RFI#BA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/Sales-Aid-400-520MHz2.pdf	DSBA404067DIN	351	\$3,240.00
	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 400-520 MHZ, PIM RATED	RFI#BA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA4067DIN	351	\$3,240.00
	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 330-420 MHZ, PIM RATED	RFI#BA40-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA4057DIN	351	\$2,158.00
	OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 400-520 MHZ, PIM RATED	RFI#BA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA4067DIN	351	\$2,158.00
	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 330-420 MHZ, PIM RATED	RFI#BA80-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA8057DIN	351	\$3,048.00
	OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 400-520 MHZ, PIM RATED	RFI#BA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DIN	351	\$2,918.00
	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3DEG DT, PIM RA	RFI#BA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DINT3	351	\$2,919.00
	OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520 MHZ, PIM RATED	RFI#BA8080-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA808067DIN	351	\$5,458.00
	ANTENNA-DUAL, OMNI EXPOSED DIPOLE 400-520MHZ 3 DEG DT 6/6 DBD	RFI#CC380-06 FOR CLAMPS USE DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/P-42438-4-CC-380-Series.pdf	DSCC38006	351	\$3,386.00
	OMNI, CORPORATE COLLINER, 6DBD, 380-430MHZ, PIM RATED	RFI#CC380-33 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC380_US_41334-3_Released-30-April-131.pdf	DSCC38033	351	\$3,457.00
	OMNI DUALCORPORATE COLLINER 2X3 DBD, 380-420MHZ PIM RATED	RFI#CC450-06 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006	351	\$2,743.00
	OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATED	RFI#CC450-06-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T3	351	\$2,880.00
	OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATED 3DT	RFI#CC450-06-T6 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T6	351	\$2,880.00
	OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATED 6DT	RFI#CC450-09 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009	351	\$3,864.00
	OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, PIM RATED	RFI#CC450-09-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T3	351	\$3,942.00
	OMNI, CORPORATE COLLINER, 8.5DBD, 450-520M 6DT, PIM RATED	RFI#CC450-09-T6 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T6	351	\$3,942.00
	OMNI, MEANDER COLLINER, 9DBD, 380-400MHZ, PIM RATED	RFI#COL410-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41058	351	\$2,018.00
	OMNI, MEANDER COLLINER, 9DBD, 400-420MHZ, PIM RATED	RFI#COL410-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41065	351	\$2,018.00
	OMNI, MEANDER COLLINER, 9DBD, 410-430MHZ, PIM RATED	RFI#COL410-66 FOR CLAMPS USE DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41066	351	\$2,018.00
	OMNI, MEANDER COLLINER, 9 DBD, 450-470 MHZ, PIM RATED	RFI#COL410-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41070	351	\$2,018.00
	OMNI, MEANDER COLLINER, 9 DBD, 470-490 MHZ, PIM RATED	RFI#COL410-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41071	351	\$2,018.00
	OMNI, MEANDER COLLINER, 9 DBD, 490-520 MHZ, PIM RATED	RFI#COL410-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41072	351	\$2,018.00
	OMNI, MEANDER COLLINER, 0DBD, 380-400MHZ, PIM RATED	RFI#COL41-58 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4158	351	\$1,125.00
	OMNI, MEANDER COLLINER, 0DBD, 380-420MHZ, PIM RATED	RFI#COL41-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4165	351	\$1,125.00
	OMNI, MEANDER COLLINER, 0 DBD, 450-470 MHZ, PIM RATED	RFI#COL41-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4170	351	\$1,125.00
	OMNI, MEANDER COLLINER, 0 DBD, 470-490 MHZ, PIM RATED	RFI#COL41-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4171	351	\$1,125.00
	OMNI, MEANDER COLLINER, 0DBD, 490-520MHZ, PIM RATED	RFI#COL41-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4172	351	\$1,125.00
	OMNI, MEANDER COLLINER, 5DBD, 380-400MHZ, PIM RATED	RFI#COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4358	351	\$852.00
	OMNI, MEANDER COLLINER, 5DBD, 400-420MHZ, PIM RATED	RFI#COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4365	351	\$852.00
	OMNI, MEANDER COLLINER, 5DBD, 410-430MHZ, PIM RATED	RFI#COL43-66 FOR CLAMPS ORDER COL43-66 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4366	351	\$852.00
	OMNI, MEANDER COLLINER, 5 DBD, 450-470 MHZ, PIM RATED	RFI#COL43-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4370	351	\$852.00
	OMNI, MEANDER COLLINER, 5 DBD, 490-520MHZ, PIM RATED	RFI#COL43-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4372	351	\$852.00
	UHF MEANDER COLLINER, OMNI, 6.3DBD, 380-400MHZ DIN CONNECTOR	RFI#COL45-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4558	351	\$1,165.00
	OMNI, MEANDER COLLINER, 7 DBD, 400-420 MHZ, PIM RATED	RFI#COL45-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4565	351	\$1,165.00
	OMNI, MEANDER COLLINER, 7DBD, 410-430MHZ, PIM RATED	RFI#COL45-66 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4566	351	\$1,165.00
	OMNI, MEANDER COLLINER, 7 DBD, 450-470MHZ PIM RATED	RFI#COL45-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4570	351	\$1,165.00
	OMNI, MEANDER COLLINER, 7 DBD, 470-490MHZ PIM RATED	RFI#COL45-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4571	351	\$1,165.00
	OMNI, MEANDER COLLINER, 7 DBD, 490-520 MHZ, PIM RATED	RFI#COL45-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4572	351	\$1,165.00

Description	Full Description	Nomenclature	APC	Price
VERTICAL COLLINER ANTENNA, 3DBD GAIN, 380-530MHZ, 4%BW	RFI PART#: COL7 SPEC SHEET LINK: spec sheet link	DSCOL7	351	\$602.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 70 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA10-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA1067DIN	351	\$1,541.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA20-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA2067DIN	351	\$2,907.00
DIRECTIONAL DIPOLE ARRAY, 11 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA40-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA4067DIN	351	\$3,952.00
UHF ELLIPTICAL DIPOLE, BI-DIRECTINAL PAT, 2X 5 DBD ARRAY, 400-520MHZ	RFI# EA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA404067DIN	351	\$2,760.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI# EA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA4067DIN	351	\$2,200.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD, 400-520 MHZ, PIM RATED	RFI# EA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA8067DIN	351	\$2,681.00
DIRECTIONAL DIPOLE ARRAY 5DBD, 130 DEG BW, 406-512MHZ, PIM RATED	RFI# FSA10-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA1067DIN	351	\$1,117.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 130 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA2067DIN	351	\$2,355.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 132 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA4067DIN	351	\$3,093.00
LOW PIM, 400-520MHZ, EXP DIPOLE, DUAL, OFFSET, 5/5DBD, DIN, 500W, 14LB	RFI# FSA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSOA202067DIN	351	\$2,571.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 330-420 MHZ, PIM RATED	RFI# OA20-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-4_oa-series_uhf420MHz-40.pdf	DSOA2057DIN	351	\$1,554.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI# OA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA2067DIN	351	\$1,554.00
UHF OFFSET DIPOLE, 2X 9 DBD ARRAYS, 400-520 MHZ	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-4_oa-series_uhf420MHz-40.pdf	DSOA4067DIN	351	\$3,797.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 330-420 MHZ, PIM RATED	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4057DIN	351	\$2,127.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DIN	351	\$2,108.00
CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED	RFI# OA40-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DINT3	351	\$1,650.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 5DEG DT, PIM RATED	RFI PART#: OA40-67-DIN-T5 CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DINT5	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: OA40-67-DIN-T8 CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA4067DINT8	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 11 DBD, 400-520 MHZ, PIM RATED	RFI# OA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA8067DIN	351	\$4,451.00
OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI# OA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA0A40-67-DIN-40.pdf	DSOA8067DINT3	351	\$4,451.00
STABILIZER ARM FOR COL45/410 ANTENNA SERIES	RFI PART#: COLBRACE-65 SPEC SHEET LINK: TBD	DSCOLBRACE65	351	\$570.00
YAGI ANTENNA, 2 ELEMENT, 3DBD GAIN, 300-600MHZ 5% BW	RFI PART#: YB02-99 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0299	351	\$238.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UC1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$125.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$250.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$375.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UC1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UC1-UB1.pdf	DSUCR1	351	\$39.25
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UC1-UB1.pdf	DSUCR2	351	\$43.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UC1-UB1.pdf	DSUB1	351	\$16.50
YAGI 3 ELEMENT, 6DBD, 350-600MHZ, 5%BW, N FEMALE	RFI PART#: YB03-99 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0399	351	\$298.00
YAGI ELEMENT 9 DBD 450-480 MHZ N FEMALE	RFI PART#: YB6-61 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/04/YB6-series-UHF-9dBd.pdf	DSYB661	351	\$224.00
UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	DBSPECTRA PART#: BPA3843-65-8 APEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8_P-42286-3.pdf	DSBPA3843658	351	\$1,743.00
YAGI, 16 ELEMENT, 12DBD, 470-490MHZ, WITH CLAMP & BRACE KIT	RFI PART#: RDA16-71BK SPEC SHEET LINK: TBD	DSRDA1671BK	351	\$409.00
YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 480-520MHZ, N FEMALE	RFI PART#: RDA6-62 SPEC SHEET LINK: spec sheet link	DSRDA662	351	\$295.00
ANTENNA SYSTEM, YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 330-600MHZ, CUSTOM TUN	RFI PART#: RDA6-99 MUST PROVIDE CENTER FREQUENCY SPEC SHEET LINK: TBD	DSRDA699	351	\$358.00
YAGI 6 ELEMENT, 9 DBD, 470-500MHZ	RFI PART#: YB6-500 SPEC SHEET LINK: TBD	DSYB6500	351	\$255.00

UHF CONTROL STATION ANTENNAS
STI-CO TRI BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N-FEMALE CONNECTOR	STI-CO PART #: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,403.00

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINER OMNI ANTENNA, 3 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GC4V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC4V40.pdf	DSATCGC4V0D7	351	\$1,150.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00
PANEL ANTENNA, 450-512 MHZ, 6 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-4I65 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-4I65-2.pdf	DSATC4I65	351	\$345.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 380-430 MHZ	AMPHENOL PART#: CXL70-1LW1. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw	DSCXL701LW1	351	\$152.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 460-510 MHZ	AMPHENOL PART#: CXL70-1LW/hs. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw	DSCXL701LWHS	351	\$152.00
COLLINER DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	AMPHENOL PART#: CXL 270C SPEC SHEET LINK: https://amphenolprocom.com/products/base-station-antennas/446-cxl-270c?generate=1	DSCXL270C	351	\$545.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 420-470 MHZ	AMPHENOL PART#: CXL 70-1LW1H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl-70-1lw?generate=1	DSCXL701LW1H	351	\$152.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4C00CS36UN	351	\$1,006.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4C03CS36UN	351	\$1,811.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS3A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3A00CS36UN	351	\$1,122.00
380-410MHZ, UHF CONTROL STATION ANT 3 DBD GAIN, N-TYPE CONNECTOR	DBSPECTRA# DS3A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3A03CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4A00CS36UN	351	\$1,121.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4A03CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4D00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS4D00CS36UN	351	\$1,926.00

UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRAR D54D03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4x00CS36UN_DS4x00CS36UN.pdf	DSDS4D03CS36UN	351	\$1,926.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03CS36DN_DS4x03CS36DN.pdf	DSDS4A03CS36DN	351	\$2,859.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03CS36DN_DS4x03CS36DN.pdf	DSDS4A03CS36DN	351	\$2,858.00
425-455MHZ 3 DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS4B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4B03CS36DN_DS4x03CS36DN.pdf	DSDS4B03CS36DN	351	\$2,858.00
UHF CS ANTENNA 2.9DBD	DBSPECTRA PART#: DS4C03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4C03CS36DN_DS4x03CS36DN.pdf	DSDS4C03CS36DN	351	\$2,858.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4D03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03CS36DN_DS4x03CS36DN.pdf	DSDS4D03CS36DN	351	\$2,858.00
440-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4H03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4H03CS36DN_DS4x03CS36DN.pdf	DSDS4H03CS36DN	351	\$2,858.00
340-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3X00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4x00CS36DN.pdf	DSDS3X00CS36DN	351	\$1,949.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36DN_DS4x00CS36DN.pdf	DSDS3A00CS36DN	351	\$1,903.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A00CS36DN_DS4x00CS36DN.pdf	DSDS4A00CS36DN	351	\$1,903.00
450-482 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4C00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4C00CS36DN_DS4x00CS36DN.pdf	DSDS4C00CS36DN	351	\$1,903.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4D00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D00CS36DN_DS4x00CS36DN.pdf	DSDS4D00CS36DN	351	\$1,903.00
380-470 MHZ, SINGLE UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3X00CS36UN_DS3X03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3X00CS36UN	351	\$1,248.00
380-470 MHZ, SINGLE UHF CONTROL STATION ANTENNA, 3 DB GAIN, N	DBSPECTRA PART#: DS3X03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X03CS36UN_DS4x00CS36UN_DS4x03CS36UN.pdf	DSDS3X03CS36UN	351	\$2,053.00

RFI PARTS	Description	Full Description	Nomenclature	APC	Price
	SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 220 DEG BW, 400-520 MHZ	RFI# SMD4-67-U CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-7-83.pdf	DSSMD467U	351	\$243.00
	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 450-520 MHZ	RFI# COD4-4552 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/05/COD4-4047-4552-P-43214-1.pdf	DSCOD44552	351	\$518.00
	OBSOLETE BY VENDOR, USE DSCOD43847.	RFI# COD4-4047 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/COD4-4047.pdf	DSCOD44047	351	\$517.00
	VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 380-470 MHZ	RFI PART#: COD4-3847 SPEC SHEET LINK: https://drive.google.com/file/d/1HM5SRHh2CTLcgx31Wf9S6mew6XwctU/view	DSCOD43847	351	\$518.00

VHF BAND ANTENNAS
ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D7 NOTE: Mount Part Number DSPMLTKIT Required, ordered separately SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D7	351	\$2,128.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT NOTE: Includes 2 Clamp Sets	DSPMLKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT1 NOTE: Includes 3 Clamp Sets	DSPMLKIT1	351	\$140.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GC1V20-2-D7 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V202D7	351	\$978.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D7 NOTE: Mount Part Number DSPMLTKIT Required, ordered separately SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D7	351	\$1,265.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V40-D7 NOTE: Mount Part Number DSPMLTKIT 1 Required, ordered separately SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V40.pdf	DSATCGD1V40D7	351	\$2,415.00
EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 7-16 DIN FEMALE	RFI PART#: COD4-3847 SPEC SHEET LINK: https://aliveatele.com/nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GD1V40-B-2.pdf	DSATCGD1V40BD7	351	\$2,530.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V20-2-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V202D4	351	\$978.00
COLLINEAR OMNI ANTENNA, 156-166 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-1-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V40-1.pdf	DSATCGC1V401D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 162-174 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-2-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V40-2.pdf	DSATCGC1V402D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 130-140 MHZ, 4.1 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-3-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V40-3.pdf	DSATCGC1V403D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 140-150 MHZ, 4.1 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-4-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V40-4.pdf	DSATCGC1V404D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 150-160 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC1V40-D4.pdf	DSATCGC1V40D4	457	\$1,840.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V2C-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V2C.pdf	DSATCGD1V2CD4	351	\$1,265.00
EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 5 DBD, 138-174 MHZ, 4.3-10 DIN	ALIVE PART#: ATC-GD1V2D-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V2D.pdf	DSATCGD1V2DD4	351	\$2,070.00
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D4	351	\$2,128.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V4C-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V4C.pdf	DSATCGD1V4CD4	351	\$2,415.00
EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 8 DBD, 138-174 MHZ, 4.3-10 DIN	ALIVE PART#: ATC-GD1V4D-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V4D.pdf	DSATCGD1V4DD4	351	\$4,600.00
EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V40-D4 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GD1V40.pdf	DSATCGD1V40D4	351	\$4,830.00
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 5.0DBD	ALIVE PART#: ATC-GP1V1C-D7 SPEC SHEET LINK: https://aliveatele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-5gdb	DSATCGP1V1CD7	351	\$1,725.00
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 8.0DBD	ALIVE PART#: ATC-GP1V2C-D7 SPEC SHEET LINK: https://aliveatele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-8gdb	DSATCGP1V2CD7	351	\$3,450.00
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD	ALIVE PART#: ATC-GP1V4C-D7 SPEC SHEET LINK: https://aliveatele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11gdb	DSATCGP1V4CD7	351	\$6,900.00
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD 8 DEGREE TILT	ALIVE PART#: ATC-GP1V4C-8-D7 SPEC SHEET LINK: https://aliveatele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11gdb	DSATCGP1V4CD7	351	\$7,245.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, PIM RATED	RFI PART#: BA4041-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4041P	351	\$2,961.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: BA4041-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4041T3P	351	\$2,961.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 136-174MHZ, PIM RATED	RFI PART#: BA4040-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA404041P	351	\$5,477.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: BA40404040-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4040404067P	351	\$7,516.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, PIM RATED	RFI PART#: BA8041-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8041P	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, PIM RATED	RFI PART#: BA8041-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED, TAILORED MODEL NO SPEC SHEET AVAILABLE SPEC SHEET LINK: TBD	DSBA8041T3P	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, 8DEG DT, PIM RATED	RFI PART#: BA8041-T8-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED, TAILORED MODEL NO SPEC SHEET AVAILABLE SPEC SHEET LINK: TBD	DSBA8041T8P	351	\$6,381.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 130-140MHZ, PIM RATED	RFI PART#: COL51-140-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51140P	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 140-150MHZ, PIM RATED	RFI PART#: COL51-150-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51150P	351	\$2,233.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI PART#: COL51-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51160P	351	\$2,233.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI PART#: COL51-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51174P	351	\$2,233.00
OMNI, MEANDER COLLINEAR, 4DBD, 130-140MHZ, PIM RATED	RFI PART#: COL53-140-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53140P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 140-150MHZ, PIM RATED	RFI PART#: COL53-150-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53150P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 150-160MHZ, PIM RATED	RFI PART#: COL53-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53160P	351	\$2,369.00

Description	Full Description	Nomenclature	APC	Price
OMNI, MEANDER COLLINER, 4DBD, 156-166MHZ, PIM RATED	RFI PART#: COL53-166-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53166P	351	\$2,369.00
OMNI, MEANDER COLLINER, 4DBD, 160-174MHZ, PIM RATED	RFI PART#: COL53-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53174P	351	\$2,369.00
OMNI, MEANDER COLLINER, 6DBD, 145-155MHZ, PIM RATED	RFI PART#: COL54-155-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54155P	351	\$2,454.00
OMNI, MEANDER COLLINER, 6DBD, 150-160MHZ, PIM RATED	RFI PART#: COL54-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54160P	351	\$2,454.00
OMNI, MEANDER COLLINER, 6DBD, 156-166MHZ, PIM RATED	RFI PART#: COL54-166-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54166P	351	\$2,454.00
OMNI, MEANDER COLLINER, 6DBD, 162-174MHZ, PIM RATED	RFI PART#: COL54-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54174P	351	\$2,454.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 64DEG BW, 148-174MHZ, PIM RATED	RFI PART#: CSA104-1-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA1041P	351	\$2,510.00
DIRECTIONAL DIPOLE ARRAY, 9DBD, 62DEG BW, 148-174MHZ, PIM RATED	RFI PART#: CSA20-41-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA2041P	351	\$4,553.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5DBD, 136-174MHZ, PIM RATED	RFI PART#: EA40-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA4041P	351	\$2,873.00
ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 136-174MHZ, PIM RATED	RFI PART#: EA400-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA40041P	351	\$5,725.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, PIM RATED	RFI PART#: EA80-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8041P	351	\$6,199.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: EA80-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8041T3P	351	\$6,199.00
DIRECTIONAL DIPOLE ARRAY, 5DBD, 106DEG BW, 146-174MHZ, PIM RATED	RFI PART#: FSA10-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA1041P	351	\$1,648.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 108DEG BW, 146-174MHZ, PIM RATED	RFI PART#: FSA20-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA2041P	351	\$3,633.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 30BD VHF / 2 X 30BD UHF	RFI PART#: IA404040-41-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSIA404040167P	351	\$8,865.00
OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 136-174MHZ, PIM RATED	RFI PART#: OA20-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2041P	351	\$2,413.00
OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 136-174MHZ, PIM RATED	RFI PART#: OA200-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2002041P	351	\$4,888.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, PIM RATED	RFI PART#: OA40-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4041P	351	\$5,233.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: OA40-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4041T3P	351	\$5,233.00
RFI ANTENNAS				
OMNI QUAD EXPOSED DIPOLE ARRAY, 4 X 3 DBD, 400-520 MHZ, PIM RATED	RFI# BA40404040-67-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/12/BA-UHF-high-BA40404040-40945-1.pdf	DSBA4040404067DIN	351	\$7,516.00
DUAL OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA4040-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA404041DIN	351	\$5,477.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA4041DIN	351	\$2,984.00
OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 136-174 MHZ, PIM RATED	RFI# BA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DIN	351	\$6,381.00
ANTENNA, SINGLE OMNI, EXPOSED DIPOLE, 136-174 MHZ, 6/6 DBD GAIN	RFI# BA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DINT3	351	\$6,381.00
VERTICAL COLLINER ANTENNA, 4.5DBD GAIN, 144-175MHZ, 4%BW	RFI PART#: COL4 SPEC SHEET LINK: spec sheet link	DSCOL4	351	\$1,036.00
OMNI, RUGGED MEANDER COLLINER, 0DBD, 130-140MHZ, PIM RATED	RFI# COL51-140 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51140	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINER, 0DBD, 140-150MHZ, PIM RATED	RFI# COL51-150 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51150	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINER, 0 DBD, 150-160 MHZ, PIM RATED	RFI# COL51-160 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51160	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINER, 0DBD, 162-174MHZ, PIM RATED	RFI# COL51-174 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51174	351	\$2,234.00
OMNI, MEANDER COLLINER, 4 DBD, 130-140 MHZ, PIM RATED	RFI# COL53-140 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53140	351	\$2,369.00
OMNI, MEANDER COLLINER, 4 DBD, 140-150 MHZ, PIM RATED	RFI# COL53-150 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53150	351	\$2,370.00
OMNI, MEANDER COLLINER, 4 DBD, 150-160 MHZ, PIM RATED	RFI# COL53-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53160	351	\$2,370.00
OMNI, MEANDER COLLINER, 4DBD, 156-166MHZ, PIM RATED	RFI# COL53-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53166	351	\$2,369.00
OMNI, MEANDER COLLINER, 4 DBD, 160-174 MHZ, PIM RATED	RFI# COL53-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53174	351	\$2,370.00
OMNI, MEANDER COLLINER, 6.0 DBD, 145-155 MHZ, PIM RATED	RFI# COL54-155 FOR CLAMPS ORDER DSUC1143 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54155	351	\$2,454.00
OMNI, MEANDER COLLINER, 6.0 DBD, 150-160 MHZ, PIM RATED	RFI# COL54-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54160	351	\$2,454.00
OMNI, MEANDER COLLINER, 6.0 DBD, 156-166 MHZ, PIM RATED	RFI# COL54-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54166	351	\$2,454.00
OMNI, MEANDER COLLINER, 6 DBD, 162-174 MHZ, PIM RATED	RFI# COL54-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54174	351	\$2,454.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 64 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA104-1-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA1041DIN	351	\$2,510.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 62 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA20-41-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA2041DIN	351	\$4,553.00
ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY 2X5 DBD, 136-174 MHZ, PIM RATED	RFI# EA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA4041DIN	351	\$5,112.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI# EA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA4041DIN	351	\$2,426.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD 136-174 MHZ, PIM RATED	RFI# EA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA8041DIN	351	\$5,768.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# IS EA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA8041DINT3	351	\$5,769.00
DIRECTIONAL DIPOLE ARRAY, 5 DBD, 106 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA10-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA1041DIN	351	\$1,647.00
DIRECTIONAL DIPOLE ARRAY 7DBD, 108 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA2041DIN	351	\$3,633.00
OFFSET, EXPOSED DIPOLE ARRAY, 2 X 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA200-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA2002041DIN	351	\$3,982.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA2041DIN	351	\$1,891.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 136-174 MHZ, PIM RATED	RFI# OA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DIN	351	\$4,637.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# OA40-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DINT3	351	\$4,638.00
SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 175 DEG BW, 148-174 MHZ	RFI PART#: SMD20-41 SPEC SHEET LINK: spec sheet link	DSMD2041	351	\$678.00
SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 228 DEG BW, 130-150 MHZ	RFI PART#: SMD20-36 SPEC SHEET LINK: spec sheet link	DSMD2036	351	\$664.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 30BD VHF / 2 X 30BD UHF	RFI PART#: IA404040-41-67-DIN SPEC SHEET LINK: spec sheet link	DSIA404040167DIN	351	\$8,865.00
ANTENNA SYSTEM,YAGI, 2 ELEMENT 4 DBD, 100-250 MHZ, 6 MHZ BW, N FEMALE	RFI PART#: YH02 SPEC SHEET LINK: TBD	DSYH02	351	\$368.00
YAGI, 3 ELEMENT 6 DBD, 100-250 MHZ, 9 MHZ BW, N FEMALE	RFI PART#: YH03 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH03	351	\$729.00
YAGI, 4 ELEMENT, 7DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH04 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH04	351	\$812.00
YAGI, 6 ELEMENT, 9DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH06 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH06	351	\$1,085.00
STABILIZER ARM FOR COL53/54 ANTENNA SERIES	RFI PART#: COLBRACE-76 SPEC SHEET LINK: TBD	DSCOLBRACE76	351	\$570.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP 60 TO 115MM	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-stfd-conversions.pdf	DSUC114	351	\$125.00

Description	RFI PART#	Full Description	Nomenclature	APC	Price
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	UC-1142	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-1142_datasheet-std-conversions.pdf	DSUC1142	351	\$250.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 3 CLAMPS	UC-1143	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-1143_datasheet-std-conversions.pdf	DSUC1143	351	\$375.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	UC-13	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	UCR-1	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$39.25
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	UCR-2	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$45.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	UNV	SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdf/antenna_clamps.pdf	DSUNV	351	\$24.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, 8DEG DT, PIM RATED	DBA8041DINT8	SPEC SHEET LINK: TBD	DSBA8041DINT8	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, 3DEG DT, PIM RATED	DBA4041DINT3	SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/141407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA4041DINT3	351	\$2,984.00

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS					
Description	Full Description	Nomenclature	APC	Price	
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E00P36U-M.pdf	DSDS1E00P36UM	351	\$2,082.00	
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E03P36U-M.pdf	DSDS1E03P36UM	351	\$3,565.00	
138-150 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP,	DBSPECTRA PART#: DS1E06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E06P36U-M.pdf	DSDS1E06P36UM	351	\$4,830.00	
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F00P36U-M.pdf	DSDS1F00P36UM	351	\$1,980.00	
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36U-M.pdf	DSDS1F03P36UM	351	\$3,450.00	
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36U-M.pdf	DSDS1F06P36UM	351	\$4,692.00	
160-174 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1G00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G00P36U-M.pdf	DSDS1G00P36UM	351	\$1,837.00	
160-174 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1G03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G03P36U-M.pdf	DSDS1G03P36UM	351	\$3,335.00	
160-174 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEG DOW	DBSPECTRA PART#: DS1G06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G06P36U-M.pdf	DSDS1G06P36UM	351	\$4,577.00	

DBSPECTRA ANTENNAS					
Description	Full Description	Nomenclature	APC	Price	
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E00P36U-D.pdf	DSDS1E00P36UD	351	\$2,082.00	
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E03P36U-D.pdf	DSDS1E03P36UD	351	\$3,565.00	
ANTENNA 140-150MHZ, OMN, PIM/PIP	DBSPECTRA PART#: DS1E06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E06P36U-D.pdf	DSDS1E06P36UD	351	\$4,830.00	
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F00P36U-D.pdf	DSDS1F00P36UD	351	\$1,980.00	
ANTENNA, OMNI, PIM/PIP, 2.9DBD DUAL	DBSPECTRA PART#: DS1F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36U-D.pdf	DSDS1F03P36UD	351	\$5,146.00	
150-164MHZ 3DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP ANT W/ 7/16 DIN C	DBSPECTRA PART#: DS1F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36U-D.pdf	DSDS1F06P36UD	351	\$3,450.00	
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36U-D.pdf	DSDS1F06P36UD	351	\$4,692.00	
150-164 MHZ, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 5.5 DBD GAIN, LOW-PIM	DBSPECTRA PART#: DS1F06P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36U3D.pdf	DSDS1F06P36U3D	351	\$4,980.00	
160-174MHZ UNITY GAIN ANTENNA, LOW PIM, HI PIP ANT W/ 7/16 DIN CONNECT	DBSPECTRA PART#: DS1G00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G00P36U-D.pdf	DSDS1G00P36UD	351	\$1,837.00	
160-174MHZ 3DB GAIN OMNI ANTENNA, LOW PIM, HI PIP RATED DIN CONNECTOR	DBSPECTRA PART#: DS1G03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G03P36U-D.pdf	DSDS1G03P36UD	351	\$3,335.00	
160-174 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEG DOW	DBSPECTRA PART#: DS1G06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G06P36U-D.pdf	DSDS1G06P36UD	351	\$4,577.00	

VHF CONTROL STATION ANTENNAS

STI CO TRI-BAND ANTENNA					
Description	Full Description	Nomenclature	APC	Price	
INTEROPERABLE ANTENNA ONLY, 106-11550MHZ N-FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,403.00	
ALIVE TELECOM PARTS					
Description	Full Description	Nomenclature	APC	Price	
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GC1V20-2-D7 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V20D7	351	\$978.00	
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D7 NOTE: Mount Part Number DSPLMKIT Required, ordered separately SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D7	351	\$2,128.00	
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT NOTE: https://alivele.com/wp-content/uploads/PLMKIT-1-NOTE.pdf	DSPLMKIT	351	\$110.00	
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1 NOTE: https://alivele.com/wp-content/uploads/PLMKIT-1-NOTE.pdf	DSPLMKIT1	351	\$140.00	
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 5.0DBD	ALIVE PART#: ATC-GP1V1C-D7 SPEC SHEET LINK: https://alivele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-5dbd	DSATCGP1V1CD7	351	\$1,725.00	
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 8.0DBD	ALIVE PART#: ATC-GP1V2C-D7 SPEC SHEET LINK: https://alivele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-8dbd	DSATCGP1V2CD7	351	\$3,450.00	
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD	ALIVE PART#: ATC-GP1V4C-D7 SPEC SHEET LINK: https://alivele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4CD7	351	\$6,900.00	
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD 8 DEGREE TILT	ALIVE PART#: ATC-GP1V4C-8-D7 SPEC SHEET LINK: https://alivele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4C8D7	351	\$7,245.00	

AMPHENOL PROCOM PARTS					
Description	Full Description	Nomenclature	APC	Price	
1 DIPOLE ANT, 2.0 DBD GAIN MOUNTED ON CONDUCTIVE POLEMAST (0 DBD FREE	AMPHENOL PART#: S.1-380-470, BRACKETS ORDERED SEPARATELY. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2397-s-1-380-470	DSS1380470	351	\$205.00	
GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 40-70 MHZ	AMPHENOL PART#: GP40, BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/404-gp-40	DSPG40	351	\$259.00	
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 139-147 MHZ	AMPHENOL PART#: CXL 2-2C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-2-3lw?generate=1	DSCXL23LWS	351	\$467.00	
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-175MHZ	AMPHENOL PART#: CXL 2-3LW/IM BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw	DSCXL22C	351	\$403.00	
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 153-162 MHZ	AMPHENOL PART#: CXL 2-1LW/H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cxl-2-1lw/h?generate=1	DSCXL21LWH	351	\$240.00	
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 155-175MHZ	AMPHENOL PART#: CXL 2-1LW/I SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cxl-2-1lw/i?generate=1	DSCXL21LWL	351	\$240.00	
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 146-165MHZ	AMPHENOL PART#: CXL 2-1LW/S SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cxl-2-1lw/s?generate=1	DSCXL21LWS	351	\$240.00	
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-156MHZ	AMPHENOL PART#: CXL 2-3C/H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c/h?generate=1	DSCXL23CH	351	\$707.00	
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 162-175 MHZ	AMPHENOL PART#: CXL 2-3C/I SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c/i?generate=1	DSCXL23CI	351	\$707.00	
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 144-157 MHZ	AMPHENOL PART#: CXL 2-3C/M SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c/m?generate=1	DSCXL23CM	351	\$707.00	
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 153-166 MHZ	AMPHENOL PART#: CXL 2-3C/S SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cxl-2-3c/s?generate=1	DSCXL23CS	351	\$707.00	
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 137-150 MHZ	AMPHENOL PART#: CXL 2-3LW/H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw/h?generate=1	DSCXL23LWH	351	\$467.00	
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 166-175 MHZ	AMPHENOL PART#: CXL 2-3LW/HM SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw/hm?generate=1	DSCXL23LWHM	351	\$467.00	
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 158-167 MHZ	AMPHENOL PART#: CXL 2-3LW/I SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cxl-2-3lw/i?generate=1	DSCXL23LWI	351	\$467.00	
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 146-154 MHZ	AMPHENOL PART#: CXL 2-70C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/446-cxl-2-70c?generate=1	DSCXL270C	351	\$545.00	

DBSPECTRA PARTS					
Description	Full Description	Nomenclature	APC	Price	
DUAL VHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA PART#: DS1X00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1X00CS36DN.pdf	DSDS1X00CS36DN	351	\$2,168.00	
118-138 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1C00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1C00CS36UN	351	\$1,363.00	



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
138-150 MHz, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1D00CS36UN PEC SHEET LINK: www.dbspectra.com/specifications/DS1D00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1D00CS36UN	351	\$1,363.00
148-174MHz UNITY GAIN CONTROL STATION ANTENNA	DBSPECTRA PART#: DS1X00CS36UN PEC SHEET LINK: www.dbspectra.com/specifications/DS1X00CS36UN_DS1D00CS36UN_DS1X00CS36UN.pdf	DSDS1X00CS36UN	351	\$1,237.00
138-150MHz 3DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS1D00CS36DN SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS1D00CS36DN.pdf	DSDS1D00CS36DN	351	\$4,830.00

ASTRO® Digital APX 1500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)
Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX1500 UHF2	-	M36SS59PW1 N	466	\$1,858.00

2. Mounting (Required)
APX 1500 models require Dash Mount

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00

Control Station Operation (Optional)
Must select a control head.
Requires Dash Mount (G66)
Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.
Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	-	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)
No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3DB ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$42.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	**Corresponding Kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 dB 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00

5: Operation Modes (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$715.00
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	QA02756	471	\$1,727.00

System Enhancement Options (Optional)
The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170	471	\$83.00

6. Feature Antennas (Must select one)
Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Required)



Updated Pricing for contract 4400016317 as of January 2022

All APX Mobile Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00
Multikey (Optional)				
All multikey options require an encryption algorithm selection.				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	Required when using more than one encryption algorithm or encryption key.	W969	466	\$95.00
Data/Programming Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B.	G308	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6160A.	G303	656	\$55.00
8: Microphones (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Corresponding kit: HLN1457	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	696	\$0.00
9: Speakers (Must Select One)				
Speakers are not compatible with Control Station Operation.				
Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00
Amplifier (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
RFID (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00
10: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

ASTRO® Digital APX 1500 Enhanced Mobile Subscriber

Description	Full Description	Nomenclature	APC	Price
1. Main Model (Must Select One)				
APX1500 ENHANCED 7/800 MHZ	Enhanced Model	M36URS9PW1B1N	466	\$1,858.00
APX1500 ENHANCED VHF	Enhanced Model	M36KSS9PW1B1N	466	\$1,858.00
APX1500 ENHANCED UHF R1	Enhanced Model	M36GSS9PW1B1N	466	\$1,858.00
2. Mounting (Required)				
APX 1500 models require Dash Mount				
Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WW/M	Required for Control Station Operation.	G66	471	\$138.00
Control Station Operation (Optional)				
Must select a control head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully. Although optional, the Power Supply is needed for full Control Station operation. Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).				
Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: KT000254A02	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00
3A Control Head Software (Required)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00
3B O2 Control Head Options (Must select either O2, or No Control Head)				
Description	Full Description	Nomenclature	APC	Price
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
4. RF Antenna (Required)				
No Antenna Requested				
Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
7/800 Antennas				
Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	471	\$83.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	471	\$42.00
VHF Antennas				
Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G298	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00
UHF R1 Antennas				
Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
5: Operation Modes (Must Select One)				
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$715.00
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	QA02756	471	\$1,727.00

System Enhancement Options (Optional)

The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: One Touch/Status Msg	G683	471	471	\$138.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00
ENH: TRUNKED RADIO TRACE/REMOTE MO	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170	471	\$83.00
DEL: DELETE BLUETOOTH	-	QA05336	481	\$100.00

6. Feature Antennas (Must select one)

Note: The Enhanced APX model has QMA connections for the GPS antenna port. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Required)

All APX Mobile Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q687 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ENH: AES 256 SW ENCRYPTION	Requires digital operation. CAP Compliant Includes ADP. Multitkey W969 required to use more than one key.	GA01574	466	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multitkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multitkey (Optional)

All multitkey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTKEY	Required when using more than one encryption algorithm or encryption key.	W969	466	\$95.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6183B.	G308	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6186A.	G303	656	\$55.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSETHANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSETHANGUP MIC	Not compatible with Control Station. Corresponding kit: HLN1457	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$0.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00

Options
System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FLGA09012)	GA09012AB	430	\$190.00

ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	G683AF	430	\$150.00
ADD: ENHANCED DATA	-	QA03399	696	\$165.00
ENH: RADIO TRACE	-	G170AL	430	\$95.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$127.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AY	430	\$127.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
Software				
Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$191.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$220.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	GA00982AB	430	\$165.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$83.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTKEY	-	W969	466	\$95.00
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$190.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$110.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,177.00

ASTRO® Digital APX 4000XH™ Portable
Models
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 4000XH 8/900 MHZ MODEL 3 PORTABLE	-	H51VCH9PW7 N	305	\$3,610.00

Options
3: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 9600 BAUD TRUNKING W/ INTEROPERABILITY	-	QA02812	426	\$2,277.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$715.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	This option provide P25 Trunking functionality when programmed in 9600 Trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,727.00
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,210.00

4: System Enhancement Software (Refer to ordering guide for help)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580	426	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	426	\$110.00
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

5: System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$220.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ENH: APX GPS ACTIVATION	Must have IV&D (Q947) enabled.	QA00782	426	\$165.00
ENHANCEMENT LEVEL 1	Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the entry tier to go to a mid tier level.	QA01770	426	\$220.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$83.00
ENH: One Touch/Status Msg	-	H46	426	\$83.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$110.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$28.00

6: Algorithm Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTKEY	-	H869	426	\$363.00

7: Antenna (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	-	H122	426	\$26.00
ALT: ANTENNA, WHIP, 700-800MHZ	-	QA07978	426	\$35.00
DEL: DELETE STANDARD ANTENNA	-	H112	426	(\$10.00)

8: Battery (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	Deletes standard battery. NNTN8750. Deleting the battery removes CSA certification.	H207	426	(\$47.00)

9: Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BELT CLIP	Deletes belt clip PMLN6086.	H301	426	(\$10.00)

10: Cable (Optional)

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: APX4000XH PROGRAMMING CABLE	-	Q157	426	\$83.00
11: Programming (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	-	Q53	426	\$165.00
12: Service Options (Optional- Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
13: Manual (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE APX4000XH USER GUIDE CD	-	H88	470	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
14: Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	426	\$0.00

**ASTRO® Digital APX 4500
FLASHport® Aftermarket Upgrades**

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8009	430	\$0.00
ANALOG 3600 TRUNKING	-	T8010	430	\$0.00
DIGITAL CONVENTIONAL	-	T8011	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T8012	430	\$0.00
Radio Management Delivery				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
Operation Mode Upgrades				
Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	GA00893AA	430	\$443.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000AB	430	\$190.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering and DVRS PSU. Available with VRX only. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$316.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631AC	430	\$127.00
ADD: ENHANCED DATA	Incompatible with GA00631.	QA03399AB	430	\$190.00
ENH: FPP & CLONE APX	Requires P25 9600 Trunking	GS3AM	430	\$165.00
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$150.00
ENH: MLTCTST VOTNG SCAN-SPECTRA	Requires Digital Operation.	G387AE	430	\$253.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires P25 9600 Trunking	GA01767AJ	430	\$127.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital Operation.	G445AB	430	\$190.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AW	430	\$127.00
ENH: RADIO TRACE	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170AL	430	\$95.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$165.00
ENH: UPGRADE TO TDMA	Requires P25 9600 Trunking	GA00580AC	430	\$569.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna.	GA09001AB	430	\$380.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	Requires a WiFi/BT antenna	QA00583AE	430	\$190.00
Advanced System Key				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The software key (QA01749) is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport error is required to fix the error.	QA01648AC	430	\$6.00
Multikey				
Algorithm upgrades require a KVL and cannot be ordered through FLASHport				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION	Required when DES Encryptions, or when AES and DVP are ordered together.	W969BL	430	\$417.00

ASTRO® Digital APX 6500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
APX6500 ENHANCED 7/800 MHZ	Enhanced Model	M25URS9PW1BN	527	\$3,253.00
APX6500 ENHANCED VHF	Enhanced Model	M25KSS9PW1BN	527	\$3,253.00
APX6500 ENHANCED UHF R1	Enhanced Model	M25GSS9PW1BN	527	\$3,253.00
2. Mounting (Must Select One)				
If a remote mount cable other than 5 meters (17ft) is desired for Remote Mount, please reference the "Remote Mount Cables" section.				
The O3 dash and remote mount configurations are the same except that the dash mount configurations do not come with the 17ft extension cable, PMLN4958.				
Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	Required for Motorcycle Operation.	G67	656	\$327.00



Updated Pricing for contract 4400016317 as of January 2022

Motorcycle Mounting (Optional)

HMN1079 (Motorcycle Mic) and HSN4031 (Speaker) are mandatory selections with motorcycle configurations. Motorcycle mount requires the O2, E5, or O7 Control Head and Remote Mount (G67). CAN cables are not compatible with motorcycle. This option includes a weatherized harness. Incompatible with DVRS MSU operation (GA00631)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00
ADD: REMOTE MOUNT MOTORCYCLE	Requires G138 (Motorcycle)	G67BA	656	\$440.00

Trunnion Screws (Optional)

The APX 6500 Enhanced model will ship with HLN6861 to accommodate a smaller, lighter form factor. If it is required to use the previous APX 6500 model trunnion, HLN7002, order GA01693, which provides KT000053A01, screws that will fit the previous trunnion.

Description	Full Description	Nomenclature	APC	Price
ADD : LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01	GA01693	471	\$11.00

Control Station Operation (Optional)

O2, E5, & O7 Control Heads Only. Must select one.
Requires Dash Mount (G66)
Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.
Although optional, the Power Supply is needed for full Control Station operation.
Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: KT000254A02	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD: CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD: CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	If you plan to use this model with an O2/O5/E5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	656	\$0.00

Dual Control Head (Optional)

The APX 6500 mobile can support up to two control heads on a single transceiver. This allows control of a single APX 6500 transceiver from two different control head locations.
Dual Control Head requires Remote Mount.
When ordering the dual control head option, only one type of control head can be selected.
Only available with O2, E5, and O7 Control Heads.
The Dual Control Head Option requires an equal number of microphones, speakers, and CAN cables.

Description	Full Description	Nomenclature	APC	Price
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2, O5, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00

4. RF Antenna (Required)

No Antenna Requested
7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013 Incompatible with motorcycle operation.	G174	656	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014. Incompatible with motorcycle operation.	G175	656	\$83.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit number: HAF4015. Requires motorcycle operation (G138)	G335	656	\$12.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017 Incompatible with motorcycle operation.	W484	656	\$42.00
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: HAF4018 Requires motorcycle operation (G138)	G174	656	\$47.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021.	G792	656	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

Dual Radio Operation Options

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 CH, or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunnion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. (If a different length is desired, the standard remote mount control head cables can also be used to connect both together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$715.00

Dual Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO STACKABLE MP TRUNNION KIT	Corresponding kit: HLN7045B	GA01115	527	\$327.00

5: Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase 1 Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$330.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00
5D: Analog Trunking				
Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00
5E: Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00
System Enhancement Options (Optional)				
The following options are optional and will provide additional capabilities, if required.				
Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Allows mobile to host A DVR, Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR. Requires depot to change a mobile from a MSU to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA0982	656	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H02	481	\$83.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00580	656	\$495.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more details.	GA01771	527	\$220.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$330.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00
ADD: SMARTCONNECT	Requires either or Wi-Fi or Data Modem Tethering. Separate SV/C part number must be ordered separately to activate service.	GA01630	681	\$0.00
DEL: DELETE BLUETOOTH	-	QA05336	481	\$100.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$138.00
6. Feature Antennas (Must select one)				
Note: The Enhanced APX 6500 model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable. Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).				
Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.				
Multi-function Antennas (Must Select One in Multi-function is Selected)				
Requires Wi-Fi (GA09001)				
Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$110.00
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A02 Requires Motorcycle (G138)	GA00250	681	\$110.00
GPS Antennas (Must select one if single function GPS is required)				
Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: GPS ANTENNA MTCL	Corresponding kit: HAG4001. Requires Motorcycle (G138).	GA00269	656	\$83.00
GPS Antenna Adaptor				
Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00
Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)				
Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00
Advanced System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
7. Encryption Algorithms (Required Selection)				
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)				
Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP & COM compliant option.	QA05751	655	\$0.00
Multikey (Optional)				
All multikey options require an encryption algorithm selection.				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Requires AES. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$385.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$165.00
8. Remote Mount Cables (17 FT STD)				
Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Only for O5, E5 & O7 Control Heads.				
Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power.	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6169	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6168	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6167	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration. Corresponding kit: HKN6164 (actual cable length is 128 ft)	G582	656	\$72.00
Data/Programming Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price

Updated Pricing for contract 4400016317 as of January 2022

ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00
Cable Accessories (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD:BUZZER 110MA APX	Corresponding Kit: HLN6953	B116	656	\$55.00
ADD: GCAl EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GCAl style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on 09 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the 03, 07 and 09 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and GCAl connection.	GA00260	656	\$17.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00
9: Microphones (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC.GCAl WATER RESISTANT	Corresponding kit: HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAl KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAl	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAl MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: GATEWAY RSM	Corresponding kit: PMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable. No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD:HANDSET/HANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswth PTT. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN2728	G235	656	\$56.00
ADD: STD PALM MICROPHONE APEX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle operation.	W22	656	\$79.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering 03 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
Emergency				
Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00
Direct Mode Entry & Status/Message (Optional)				
DEKs are incompatible with the 03 Control Head (except for Whelen Siren - GA00814). They require Remote Mount Configuration. Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.				
Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$158.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$116.00
ADD: DEK FOR WHELEN SIREN W/ 03 CH ONLY	Requires 03 CH. Corresponding kit: H1882A.	GA00812	656	\$116.00
10: Speakers (Must Select One)				
Not compatible with Control Station Operation. Control Station Operation requires No Speaker Needed (G142).				
Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$65.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding Kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00
ADD: AUXILIARY SPEAKER MOTORCYCLE	Corresponding kit: HSN6003. Must select for motorcycle operation.	B18	656	\$66.00
Auxiliary WILDCARD (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Incompatible with 03 control head or motorcycle.	W591	656	\$182.00
Amplifier (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$28.00
RFID (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00
11: Service Option (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00
Customer Programming Software				
Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
Programming and Data Cables				
(Please see CPS PART NUMBER GUIDE for cable descriptions)				
Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

ASTRO® Digital APX 6500 Mobile Subscriber

1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX6500 UHF R2 MID POWER	-	M25SS9PW1 N	527	\$2,896.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation. 03 Dash mount is identical to remote mount minus the 17' extension cable PMLN4958A	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	G67 is required for Motorcycle Configuration. G67 FOR Motorcycle Remote Mount is \$400 DUP.	G67	656	\$327.00

Control Station Operation (Optional)

02, E5 & 07 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires a O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: HPN4007	G91	656	\$296.00
3A Control Head Software (Required)				
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00
3B Control Head Options (Must select one)				
O2 Control Head Options				
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
O3 Control Head Options				
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00
E5 Control Head Option				
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00
O7 Control Head Options				
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00
No Control Head Options				
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX NO O2/O7 CH NEEDED MTCL	If you plan to use this model with an O2/O5/E5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	656	\$0.00
Dual Control Head (Optional)				
The APX 6500 mobile can support up to two control heads on a single transceiver. This allows control of a single APX 6500 transceiver from two different control head locations.				
Dual Control Head requires Remote Mount.				
When ordering the dual control head option, only one type of control head can be selected.				
Only available with O2, E5, O7 Control Heads.				
The Dual Control Head Option requires an equal number of microphones, speakers, and CAN cables.				
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2/O5/E5/O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00
4. RF Antenna (Required)				
No Antenna Requested				
7/800 Antennas				
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$83.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$42.00
VHF Antennas				
ADD: 3DB ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G829	656	\$70.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021.	G792	656	\$83.00
ALT: 1/4 WV BDD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00
UHF R1 Antennas				
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
UHF R2				
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ASSEMBLY,ANTENNA ASSEMBLY,ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 db 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00
Dual Radio Operation Options				
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$715.00
Dual Radio Options				
ADD: DUAL RADIO STACKABLE MP TRUNNION	Comprised of HLN7045A and HKN6249A	GA01115	656	\$327.00
5: Operation Mode (Must Select One)				
5A: Digital Trunking (SN/SZ P25 Phase 1 Interop)				
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$330.00
5B: Digital Trunking (SN/SZ)				
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00
5C: Digital Conventional (P25)				
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00
5D: Analog Trunking				
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00
5E: Analog Conventional				

Description	Full Description	Nomenclature	APC	Price
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$50.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$50.00
System Enhancement Options (Optional)				
The following options are optional and will provide additional capabilities, if required.				
Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount (G67).	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT00024A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA00982	656	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H02	481	\$83.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00580	656	\$495.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more details.	GA01771	527	\$220.00

Enhancement Level Reference Guide
6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must Select One)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey (Optional)

All multkey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTKEY	Not compatible with ADP-Only. Requires AES. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$385.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTKEY (G298)	GA01620	656	\$165.00

8. Remote Mount Cables (17 FT STD)

Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Multi-control head options delete the 17 FT standard cable and customers are required to order a cable per control head. Only for O5, E5 & O7 Control Heads.

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power.	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6169	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6168	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6167	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration. Corresponding kit: HKN6164 (actual cable length is 128 ft)	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD:BUZZER 110MA APX	Corresponding kit: HLN6953	B116	656	\$55.00
ADD: GC&I EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GC&I style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, "Horn Ring/Horn Transfer" or Horn/Lights Park/Kill and Horn "Ring/Horn Transfer" only available with Motorola Siren. Gunlock supported on 09 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the 03, 07 and 09 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CG&I connection.	GA00260	656	\$17.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC GC&I WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GC&I KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	696	\$0.00
ADD: KEYPAD MIC GC&I	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GC&I MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: GATEWAY RSM	Corresponding kit: PMN4097	GA01438	656	\$138.00
ADD: HANDSETHANGUP MIC ARMORED CABLE	Armored Cable. No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD:HANDSETHANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswitch PTT. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN7278	G235	656	\$56.00

Emergency

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message (Optional)

DEKs are incompatible with the O3 Control Head (except for DEK for Whelen Siren - GA00814). They require Remote Mount Configuration.

Please note: 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$116.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Requires O3 CH. Corresponding kit: H1882A.	GA00812	656	\$116.00

10: Speakers (Must Select One)

Not compatible with Control Station Operation. Control Station Operation requires No Speaker Needed (G142).

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding Kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. NOT compatible with O3 control head or motorcycle.	W591	656	\$182.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$28.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

11: Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Programming and Data Cables

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

ASTRO® Digital APX 6500LI Mobile Subscriber
1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/U3-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX6500 UHF R2 MID POWER	-	M25SS9PW1 N	527	\$2,896.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	-	G67	656	\$327.00

Control Station Operation (Optional)

O2 & E5 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	Requires remote mounting option (G67 or G655)	G88	656	\$0.00

4. RF Antenna (Required)

No Antenna Requested

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	656	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3DB ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	656	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W852	656	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010.	G427	656	\$61.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012.	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013.	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00
UHF R2 Antennas				
Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ASSEMBLY ANTENNA ASSEMBLY ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB.	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004.	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 db 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00
5: Operation Mode (Must Select One)				
Trunking mode requires either a Software Key (QA01749 comes standard unless QA01648 is selected), or a Hardware Key (QA01648).				
Description	Full Description	Nomenclature	APC	Price
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,727.00
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	Q443	755	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	Q811	426	\$715.00
System Enhancement Options (Optional)				
The following options are optional and will provide additional capabilities, if required.				
Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$495.00
6. Feature Antennas (Must select one)				
Although GPS comes standard, an antenna is required for the full solution.				
Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00
ADD: GPS ANTENNA	Corresponding kit: HA40000	GA00226	656	\$83.00
Advanced System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advanced System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
7. Encryption Algorithms (Must select one)				
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/G667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)				
The APX 6500Li does not support multiple hardware encryption types.				
Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multitkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multitkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00
Multitkey (Optional. Can only select one)				
All multitkey options require an encryption algorithm selection.				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ADD: TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$385.00
8. Remote Mount Cables (17 FT STD)				
Description	Full Description	Nomenclature	APC	Price
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$36.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00
Data/Programming Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD: USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00
Cable Accessories (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$83.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00
ADD: GCAI EXTENSION CABLE 2 FT	Requires GCAI style Mic. Corresponding Kit PMKN4093A.	GA00589	656	\$33.00
ADD: REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, "Horn Ring/Horn Transfer" or Horn/Lights Park/Kill and Horn "Ring/Horn Transfer" only available with Motorola Siren. Corresponding Kit: HKN6196B	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Requires URC-Transceiver Cable	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCIVER	Requires Universal Relay Controller	GA00260	656	\$17.00
9: Microphones (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC. GCAI WATER RESISTANT	Not compatible with control station operation. Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMNS070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit Number: RMNS054	W872	656	\$33.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$56.00
Emergency (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00
Direct Mode Entry & Status/Message				
Require Remote Mount configuration.				
Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$158.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$504.00
ADD: STATUSMESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00
ADD: STATUSMESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00
10: Speakers (Must Select One)				
Speakers are not compatible with Control Station Operation.				
Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 15W (3.20KHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00
Auxiliary Wildcard				
Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00
Amplifier				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
SIREN AND LIGHTS INTERFACE MODULE				
Description	Full Description	Nomenclature	APC	Price
WHELEN/MOTOROLA SIREN	Siren AMP- box only spare part: DDN1542 If you need the siren speaker as well, use DDN1784A	TT2592	571	\$679.00
ADD: SIREN TO RADIO CABLE (21-PIN D)	Spare parts part number: DDN1833	TT05900AA	571	\$77.00
Customer Programming Software				
Description	Full Description	Nomenclature	APC	Price
CABLE CH_PROGRAMMING.USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00
Programming and Data Cables				
Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH_PROGRAMMING.USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

ASTRO® Digital APX 6500Li Enhanced Mobile Subscriber
1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6500 ENHANCED 7/800 MHZ	Enhanced Model	M25URS9PW1B1N	527	\$3,253.00
APX6500 ENHANCED VHF	Enhanced Model.	M25KSS9PW1B1N	527	\$3,253.00
APX6500 ENHANCED UHF R1	Enhanced Model.	M25QSS9PW1B1N	527	\$3,253.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	-	G67	656	\$327.00

Trunnion Screws (Optional)

The APX 6500Li Enhanced model will ship with HLN6861 to accommodate a smaller, lighter form factor. If it is required to use the previous APX 6500 model trunnion, HLN7002, order GA01693, which provides KT000053A01, screws that will fit the previous trunnion.

Description	Full Description	Nomenclature	APC	Price
ADD: LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01 Requires remote mount	GA01693	471	\$11.00

Control Station Operation (Optional)

O2, O5, & E5 Control Heads Only. Must select one.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5 or E5 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CNTRL STATION PWR SUPPLY	Corresponding kit: KT000254A02	G91	681	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)
O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	681	\$717.00

O5 Control Head Option

Effective June 19th, 2020: The price of the O5 control head (option G442 and kit H1904) will be increased to \$572. Please consider the new E5 control head as an option.

Description	Full Description	Nomenclature	APC	Price
ADD: O5 CONTROL HEAD	Effective June 19th, 2020: The price of the O5 control head (option G442 and kit H1904) will be increased to \$572. Please consider the new E5 control head as an option.	G442	656	\$629.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE NO CONTROL HEAD	If you already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	681	\$0.00

4. RF Antenna (Required)
No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	656	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	656	\$83.00
ALT: 1/4 WV BDD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00

5: Operation Mode (Must Select One)
Trunking mode requires either a Software Key (QA01749 comes standard unless QA01648 is selected), or a Hardware Key (QA01648).

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,727.00
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	Q443	755	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	Q811	426	\$715.00

System Enhancement Options (Optional)
The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Allows mobile to host A DVR, Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR. Requires depot to change a mobile from a MSU to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: FPP & CLONE APX	-	G53	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$138.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$495.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$330.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00

6: Feature Antennas (Must select one)
Note: The Enhanced APX 6500LI model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.
Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

Multifunction Antennas (Must Select One In Multifunction Is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$110.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	-	GA01606AA	681	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04.	GA01576	966	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

Encryption Algorithms (Optional)
All APX 6500LI Mobile Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

The APX 6500LI does not support multiple hardware encryption types.

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ADD: TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$385.00

Description	Full Description	Nomenclature	APC	Price
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD: USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$83.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00
ADD: BUZZER 110MA APX	Corresponding kit: HLB6953	B116	656	\$55.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, GCAI WATER RESISTANT	Not compatible with control station operation. Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	696	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	696	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$53.00
ADD: PUSHBUTTON PTT		GA00304	656	\$62.00
ADD: NO MICROPHONE NEEDED		G90	656	\$0.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message

Require Remote Mount configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	696	\$594.00
ADD: STATUS MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00
ADD: STATUS MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00

9: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary Wildcard

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX		G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL		GA00268	656	\$28.00

10: Service (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE		G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE		GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL SERVICE		GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE		GA00255AF	185	\$558.00
ADD: 3Y ESSENTIAL SVC CANADA		GA00314	185	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA		GA00317	185	\$233.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY		HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

Programming and Data Cables

(Please see CP5 PART NUMBER GUIDE for cable descriptions)

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$52.00

**ASTRO® Digital APX 6500
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7694	430	\$0.00
DIGITAL CONVENTIONAL	-	T7695	430	\$0.00
ANALOG SMARTZONE	-	T7696	430	\$0.00
DIGITAL SMARTZONE	-	T7697	430	\$0.00
TDMA	-	T7698	430	\$0.00

Online Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY		UA00083AA	430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AE	430	\$651.00
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking, G347. Compatible with T8422, T8423, T8424 models.	G173AN	430	\$253.00
ENH: ASTRO P25 TRUNKING SOFTWARE	Includes G173 (Omnilink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AK	430	\$380.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
ENH: UPGRADE TO SMARTZONE	Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	G347AS	430	\$1,012.00

Dual Radio Operation

Description	Full Description	Nomenclature	APC	Price
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the G7 control head. Does not include the cables needed to complete the solution.	GA01058	430	\$715.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$190.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$316.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631AC	430	\$127.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$190.00

Description		Full Description	Nomenclature	APC	Price
ENH: FPP & CLONE APX		-	G53AM	430	\$165.00
ADD: GROUP SERVICES FLP		Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP		Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00
ENH: RADIO TRACE		-	G170AL	430	\$95.00
ENH: MULTICAST VOTNG SCAN		Requires Digital Operation.	G387AF	430	\$253.00
ADD: THIRD PARTY DATA MODEM TETHERING		Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT		Requires P25 9600 Trunking	GA01767AJ	430	\$127.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP		Requires Digital	G445AB	430	\$190.00
ENH: OVER THE AIR PROVISIONING		POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$127.00
ADD: TRUNKED ONE TOUCH BUTTON		-	G683AF	430	\$150.00
ENH: APX GPS ACTIVATION		Requires W947.	GA00229AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 2		-	GA01771AE	430	\$253.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP		The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA		This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: RF PRE-AMPLIFIER		-	W12DR	430	\$83.00
ADD: WIFI CAPABILITY		Requires the purchase of a WiFi antenna	GA09001AB	430	\$380.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH		Requires a WiFi/BT antenna	QA00583AE	430	\$190.00
Advanced System Key					
Description		Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP		The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
Multitkey					
Description		Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION		-	W969BL	430	\$417.00
ADD: TACTICAL OTAR		includes MULTIKEY. Tactical OTAR is not compatible with DVRS QA00631.	H04AX	430	\$443.00
ENH: ASTRO 25 OTAR W/ MULTIKEY		-	G298AV	430	\$936.00
ADD: MULTI SYSTEM OTAR FLASHPORT		Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00

**ASTRO® Digital APX 6500LI
FLASHport® Aftermarket Upgrades**
Models

Description		Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL		-	T7894	430	\$0.00
ANALOG 3600 TRUNKING		-	T7895	430	\$0.00
9600 OR 3600 DIGITAL TRUNKING		-	T7897	430	\$0.00
DIGITAL CONVENTIONAL		-	T7896	430	\$0.00

Operation Upgrade Options

Can only select 1

Description		Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING		-	GA00892AA	430	\$1,012.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL		-	GA00893AA	430	\$443.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING		-	GA00894AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING		-	GA00894AB	430	\$721.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING		-	GA00894AC	430	\$1,290.00

Systems Enhancement Options

Description		Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP		The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: TRUNKED ONE TOUCH BUTTON		-	G683AF	430	\$150.00
ENH: OVER THE AIR PROVISIONING		POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$127.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT		Requires G361.	GA01767AJ	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT		-	QA00631AC	430	\$127.00
ENH: RADIO TRACE		-	G170AL	430	\$95.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA		This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ENH: APX GPS ACTIVATION		Requires W947.	GA00229AC	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP		Requires GPS (FLGA09012)	GA09012AB	430	\$190.00
ENH: UPGRADE TO TDMA		Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
ADD: DVRS MSU ACTIVATION APX MOBILE		-	GA00631AB	430	\$316.00
ADD: DIGITAL TONE SIGNALING		-	GA09000AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING		Requires Remote Mount (G67). Includes GA01545. Mutually exclusive with DVRS MSU (GA00631).	GA09011AB	430	\$127.00
ADD: MOT VML DATA MODEM TETHERING		Requires Remote Mount (G67). Includes GA01545.	GA01545AC	430	\$32.00
ADD: RF PRE-AMPLIFIER		-	W12DR	430	\$83.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP		-	G445AB	430	\$190.00
ENH: FPP & CLONE APX		-	G53AM	430	\$165.00

Algorithm Options

Description		Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION		-	W969BL	430	\$417.00

Online Delivery

Description		Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY		-	UA00083AA	430	\$0.00

**ASTRO® Digital APX 7000/APX 7000XE
FLASHport® Aftermarket Upgrades**
Models

Description		Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL		-	T7549	430	\$0.00
ANALOG SMARTNET		-	T7551	430	\$0.00
DIGITAL SMARTNET		-	T7552	430	\$0.00
DIGITAL SMARTZONE		-	T7553	430	\$0.00
DIGITAL CONVENTIONAL		-	T7550	430	\$0.00
ANALOG SMARTZONE		-	T7554	430	\$0.00
TDMA		-	T7627	430	\$0.00

Options
Operating

Description		Full Description	Nomenclature	APC	Price
ENH: ENABLE DUAL BAND OPERATION		-	QA00579AB	430	\$1,265.00

Operation Mode

Description		Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION		-	O808AK	430	\$651.00

System Enhancement Software

Description		Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL TO SMARTZONE		Compatible with T7549 and T7550	Q327BH	430	\$1,012.00
ENH: UPGRADE CONVENTIONAL TO SMARTNET		-	Q326AU	430	\$653.00
ADD: DIGITAL TONE SIGNALING		-	QA09000AB	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G0806 for Conventional capabilities and G0361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: MISSION CRITICAL GEOENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ENH: SMARTZONE OMNILINK (NON-P25)	-	Q173AY	430	\$253.00
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00
ENH: P25 9600 BAUD TRUNKING	Includes Q173	Q361AP	430	\$380.00
ENH: TDMA OPERATION	Requires Q808 (Digital), Q327 (Smartzone), Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AB	430	\$569.00
ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7551 and T7552	Q327BJ	430	\$506.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (G947) and P25 Trunking (Q361/G361) are required when ordering QA0399AB (Enhanced Data).	QA0399AB	430	\$190.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AB	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947BB	430	\$316.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AG	430	\$32.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$127.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$936.00
ENH: MULTIKEY	-	H869BX	430	\$417.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 4500 Mobile Subscriber
1. Main Model (Must Select One)

Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U1/7-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
APX4500 900MHZ	-	M22WRS9PW1 N	471	\$1,858.00
APX4500 UHF R2	-	M22SS9PW1 N	471	\$1,858.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$327.00
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00

Control Station Operation (Optional)

Must select a control head.
Requires Dash Mount (G66)
Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.
Although the Power Supply is optional, it is needed for a full Control Station solution.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$26.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	661	\$0.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

No Antenna Requested

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

900 MHz Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 900MHZ ANT 3DB LRT 14'	Corresponding kit: RRA4935A	B925	471	\$47.00
ADD: 900MHZ ANT 3DB LRT 22'	RAF4003ARM	B926	471	\$83.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3DB ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$42.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV B0BD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012.	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00



Updated Pricing for contract 4400016317 as of January 2022

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ASSEMBLY ANTENNA ASSEMBLY ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 db 470-494 MHz	Corresponding kit: RAE4015ARM.	GA00652	656	\$90.00

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,727.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$715.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00

System Enhancement Options (Optional)

The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Requires remote mount. Requires depot to change to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Incompatible with GA00631. Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IVSD, and GPS	GA09012	471	\$185.00
ADD: DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (OVN4046A).	G996	656	\$110.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00

6. Feature Antennas (Must select one)

Although GPS comes standard, an antenna is required for the full solution.

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA	Corresponding kit: HA40000	GA00226	656	\$83.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00

Advanced System Key (Optional)

Must Select One if Trunking is Ordered

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must Select one)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G679	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC.GCAI WATER RESISTANT	Corresponding kit: HMN1089	G892	656	\$79.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSETHANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD:HANDSETHANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN1078	G235	656	\$56.00

Direct Mode Entry & Status/Message

DEKs require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W815	656	\$594.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00

10: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.20HM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00
Auxiliary WILDCARD (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00
Amplifier (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
ENH: ENABLE RF MODEM	The APX mobiles do not support Site Lens or System Watch. Therefore, the APX RF Modem function does not support the legacy System Watch or Site Lens applications. The APX RF Modem supports Conventional or 9600 Trunking only. Enabling the RF Modem in conventional mode allows provisioned APX portables to pass accountability data through the portable option Q445.	G319	656	\$0.00
Documentation				
Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00
RFID (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00
10: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00
MOTOROLA SIREN				
Description	Full Description	Nomenclature	APC	Price
ADD: SIREN TO RADIO CABLE (21-PIN D)	Siren AMP- box only spare part: DDN1833	TT05900AA	571	\$77.00
WHELEN/MOTOROLA SIREN	Siren AMP- box only spare part: DDN1542 if you need the siren speaker as well, use DDN1784A	TT2592	571	\$679.00

ASTRO® Digital APX 4500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX4500 ENHANCED 7/800 MHZ	Enhanced Model	M22UR59PW1BN	471	\$2,036.00
APX4500 ENHANCED UHF R1	Enhanced Model	M22OS59PW1BN	471	\$2,036.00
APX4500 ENHANCED VHF1	Enhanced Model	M22KS59PW1BN	471	\$2,036.00

2. Mounting (Must Select One)

If a remote mount cable other than 5 meters (17ft) is desired for G67, please reference the "Remote Mount Cables" section.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00
ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$327.00

Control Station Operation (Optional)

Must select a control head.

Requires Dash Mount (G66)

Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.

Although optional, the Power Supply is needed for full Control Station operation.

Power Supply HPN4007 (used in Control Station configuration for AN Models) is not approved for use on Enhanced Models. Please use KT000254A01 (G91).

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: KT000254A02	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W655	656	\$77.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	681	\$0.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

No Antenna Requested

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV B0BD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE401HARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,727.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$715.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00

System Enhancement Options (Optional)

The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Requires Remote Mount. Requires Depot to change to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Mutually exclusive with GA00631 MSU that is required if you are connecting your radio directly to a DVR. Will require depot to change PSU to MSU.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS	GA09012	471	\$165.00

ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000258A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: One Touch/Status Msg	-	G683	471	\$138.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$330.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00
DEL: DELETE BLUETOOTH	-	QA05336	481	\$138.00

6. Feature Antennas (Must select one)

Note: The Enhanced APX model has QMA connections for both the WiFi and GPS antenna ports. The RF antenna connection is the same mini-UHF connection as the previous models. Please order CB000091A04/GA01576 to receive an SMA to QMA adaptor cable.
Must select from either Multi-function section or Single function GPS section and Single Function Wi-Fi section (if GA09001 is ordered).

Even though GPS comes standard, a GPS antenna, Digital and IV&D are required to implement the full solution.

Multifunction Antennas (Must Select One in Multifunction is Selected)

Requires Wi-Fi (GA09001)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$110.00
GPS Antennas (Must select one if single function GPS is required)				
Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$0.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00

Advanced System Key (Optional)

Must Select One if Trunking is Ordered

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must select one)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

All multikey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD: USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, GCAI WATER RESISTANT	Corresponding kit: HMN1089	G892	656	\$79.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN7278	G235	656	\$56.00

Direct Mode Entry & Status/Message

DEKs require Remote Mount Configuration.

Please note, 24 modes are the maximum number of modes available. Although a combination of Direct Mode Entry boxes and Status/Message boxes can be used, the maximum available entries is 24.

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$594.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00
ADD: STATUSMESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00

10: Speakers (Must Select One)

Speakers are not compatible with Control Station Operation.

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 13W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$65.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00
Amplifier (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
Documentation				
Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$116.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
RFID (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00
11: Service Options (Must Select One)				
Effective June 13, 2020: The Essential Service option for both the U.S. and Canada will receive a 5% price increase.				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

APX KITS
SECTION 1: Kits to Convert Your Existing Control Head from Dash Mount to Remote Mount, or Remote Mount to Dash Mount

Kits that change Dash to Remote require a CAN cable option selection from section 2 (No other options are supported on Section A kits).

Kits that change Remote to Dash take no options.

O2 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O2 DM TO RM	APX 8500 MP Models Only	H1920	656	\$358.00
8500 O2 RM TO DM	APX 8500 MP Models Only	H1923	656	\$176.00
O2 DASH TO O2 REMOTE MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	H1977	656	\$358.00
O2 REMOTE TO O2 DASH MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	H1879	656	\$175.00
6500 ENH O2 DM TO O2 RM MP RETROFIT KIT	Enhanced "BN" APX 4500 and APX 6500 Models Only	H1938	681	\$358.00
6500 ENH O2 RM TO O2 DM MP RETROFIT KIT	Enhanced "BN" APX 4500 and APX 6500 Models Only	H1937	681	\$176.00

O3 Control Head Conversion Requirements

In order to take an O3 Control Head from a Dash Mount to a Remote Mount, a single cable, PMLN4959, is required.

Description	Full Description	Nomenclature	APC	Price
O3 ACCESSORY CABLE	Required to convert an O3 Control Head from Dash Mount to Remote Mount	PMLN4959A	362	\$149.00

E5 Conversion Kits

Available for APX 8500 and APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
8500 E5 DM TO RM	APX 8500 MP Models Only	H1934	681	\$358.00
8500 E5 RM TO DM	APX 8500 MP Models Only	H1933	681	\$176.00
6500 ENH E5 RM TO E5 DM MP RETROFIT KIT	Enhanced APX 6500 "BN" Models Only	H1935	681	\$176.00
6500 ENH E5 DM TO E5 RM MP RETROFIT KIT	Enhanced APX 6500 "BN" Models Only	H1936	681	\$358.00
E5 DM TO E5 RM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1932	681	\$358.00
E5 RM TO E5 DM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1931	681	\$175.00

O5 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O5 DM TO RM	APX 8500 MP Models Only	H1921	656	\$358.00
8500 O5 RM TO DM	APX 8500 MP Models Only	H1924	656	\$176.00
O5 RM TO O5 DM MIDPWR NOCH	Classic "AN" APX 6500 and 7500 Models Only	H1848	656	\$175.00
O5 DM TO O5 RM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1853D	500	\$358.00
6500 ENH O5 DM TO O5 RM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1940	681	\$358.00
6500 ENH O5 RM TO O5 DM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1939	681	\$176.00

O7 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O7 DM TO RM	APX 8500 MP Models Only	H1922	656	\$358.00
8500 O7 RM TO DM	APX 8500 MP Models Only	H1925	656	\$176.00
O7 DASH TO O7 REMOTE MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	H1878	656	\$358.00
O7 REMOTE TO O7 DASH MOUNT	Classic "AN" APX 6500 and 7500 Models Only	H1880	656	\$175.00
6500 ENH O7 DM TO O7 RM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1942	681	\$358.00
6500 ENH O7 RM TO O7 DM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1941	681	\$176.00

O2 Control Head

Available for all APX Mobiles. APX 1500 is Dash Mount Only.

Description	Full Description	Nomenclature	APC	Price
O2 CH	APX 4500, 6500, 7500 and 8500 Models	H1900	656	\$541.00
O2 GRN CH	APX 4500, 6500, 7500 and 8500 Models	H1901	656	\$580.00

O2 Mounting Options

APX 1500 is Dash Mount Only

Description	Full Description	Nomenclature	APC	Price
ADD: O2 REMOTE CHIB	APX 4500, 6500 7500 and 8500 Models	GA01276	656	\$138.00
ADD: 8500 O2 DM	APX 8500 MP Models Only	GA01583	656	\$176.00
ADD: O2 DASH MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	GA01283	656	\$138.00
ADD: 6500 ENH O2 DM	Enhanced "BN" APX 4500 and APX 6500 Models Only	GA01773	681	\$138.00

O3 Control Head Main Model

Available on APX 8500, APX 7500 & APX 6500 Only

Description	Full Description	Nomenclature	APC	Price
O3 CH	APX 6500, 7500 and 8500 Models Only	H1902	656	\$1,041.00
O3 LS CH	APX 6500, 7500 and 8500 Models Only Has Light & Siren key pad printing to help facilitate integrated controls.	H1903	656	\$1,096.00

O3 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500 Only

Description	Full Description	Nomenclature	APC	Price
ADD: O3 DASH OR NO MOUNT	-	GA01284	656	\$0.00
ADD: O3 REMOTE MOUNT	-	GA01300	656	\$138.00

E5 Control Head Main Models

Available on the APX 8500, APX 7500 & APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
E5 CH	APX 6500 7500 and APX 8500 Models Only	H1930	681	\$717.00

E5 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
ADD: E5 REMOTE CHIB	APX 6500, 7500 and 8500 Models Only	GA01755AA	681	\$138.00
ADD: 8500 E5 DM	APX 8500 MP Models Only	GA01756AA	681	\$176.00
ADD: E5 DASH MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	GA01754AA	681	\$138.00
ADD: 6500 ENH E5 DM	Enhanced APX "BN" 4500 and APX 6500 Models Only	GA01757AA	681	\$138.00

O7 Control Head Main Model

Available on the APX 8500, APX 7500 & APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
O7 LS CH	APX 6500, 7500 and 8500 Models Only Model has Light & Siren key pad printing to help facilitate integrated controls	H1906	656	\$750.00
O7 CH	APX 6500, 7500 and 8500 Models Only	H1905	656	\$695.00

O7 Control Head Mounting Options

Available on the APX 8500, APX 7500 & APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
ADD: O7 REMOTE CHIB	APX 6500, 7500 and 8500 Models Only	GA01278	656	\$138.00
ADD: 8500 O7 DM	APX 8500 MP Models Only	GA01585	656	\$176.00
ADD: O7 DASH MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	GA01286	656	\$138.00
ADD: 6500 ENH O7 DM	Enhanced "BN" APX 4500 and APX 6500 Models Only	GA01774	681	\$138.00

Power Cable Options



Updated Pricing for contract 4400016317 as of January 2022

Must Select One

This option is for a new radio power cable, Control head come with a power cable

Description	Full Description	Nomenclature	APC	Price
ADD: NO PWR CBL	Satisfies Power cable ordering requirement	GA01301	656	\$0.00
ADD: PWR CBL MP RADIO DASH	Corresponding kit: HKN4191	GA01288	656	\$17.00
ADD: PWR CBL MP RADIO REMOTE	Corresponding kit: HKN4192	GA01289	656	\$39.00
ADD: PWR CBL HP RADIO REMOTE	-	GA01287	656	\$39.00

Accessory Cable

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO ACCESSORY CABLE	Satisfies accessory cable ordering requirement	GA01297	656	\$0.00
ADD: O3 ACCESSORY CABLE	Corresponding kit: PMLN4959	GA01295	656	\$99.00
ADD: ACCESSORY CABLE	Corresponding kit: HKN6863	GA01296	656	\$33.00

Microphone

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Satisfies Microphone ordering requirement.	G90	656	\$0.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00

Speaker

Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: NO SPEAKER NEEDED	Satisfies Speaker ordering requirement	G142	656	\$0.00

TIB Options

Only required when Remote Mount Option is selected, not required or compatible with Dash Mount. If the radio is currently configured for Remote Mount, select GA01282. No TIB, since you already have a TIB.

The TIB must match the Radio ie; Classic, Enhanced and 8500. Must Select One

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE TIB	Satisfies TIB ordering requirement for remote mount	GA01282	656	\$0.00
ADD: 8500 MP TIB	APX 8500 MP Models Only	GA01586	656	\$193.00
ADD: APX MP REMOTE TIB	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	GA01281	656	\$193.00
ADD: 6500 ENH MP TIB	Enhanced APX 4500 and APX 6500 "BN" Models Only	GA01775	656	\$193.00

CAN Cable Selection

Required when Remote Mount Option is selected. Not applicable to an O3 Control Head.

Must Select One (Not required or compatible with Dash Mount)

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE CABLE NEEDED	Satisfies CAN cable ordering requirement	GA00179	656	\$0.00
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Corresponding kit: HKN6169	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$26.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G679	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	***For Dual/Tri/Quad configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual, tri, or quad control radio*** Corresponding kit: HKN6164	G582	656	\$72.00

APX Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
CEN SERVER	-	T8399	877	\$15,000.00
SOFTWARE,VMWARE VSPHERE 6.X FDN 2 CPU SW	-	DVN4359	877	\$0.00

For Conventional Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA MIXED MODE CONVENTIONAL SYSTEM LICENSE	-	TT3031	708	\$100.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00

For Trunked Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA SERVER SOFTWARE LICENSE	-	TT3029	708	\$24,705.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00
INFORMATION ASSURANCE LICENSE FOR APAA SERVER	-	TT3108	708	\$18,300.00
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Device Management Service

DMS-Advanced APX Portables or Mobiles: New RM Customer

Description	Model	APC	List Price- One time charge	List Price F Year Per De
BASE MODEL: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$32.00
APX DMS TRAINING VIRTUAL (1 SEAT)	PSV01S01987A	943	\$1,500	
APX DMS TRAINING MSI SITE (1 SEAT)	PSV01S01988A	943	\$1,500	
APX DMS TRAINING CUST SITE (12 SEATS)	PSV01S01989A	943	\$18,000	
DMS ONSITE SETUP	LSV01S02013A	209	\$30,000	
OPTION 1: ASTRO DMS ADVANCED HOSTING	LSV01S01033A	700		\$0
OPTION 2: ASTRO DMS ON-PREM	LSV03S02047A	700		\$0

DMS-Advanced APX Portables or Mobiles: Current RM Customer

Description	Model	APC	List Price- One time charge	List Price F Year Per De
BASE MODEL: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$15.00
APX DMS TRAINING VIRTUAL (1 SEAT)	PSV01S01987A	943	\$1,500	
APX DMS TRAINING MSI SITE (1 SEAT)	PSV01S01988A	943	\$1,500	
APX DMS TRAINING CUST SITE (12 SEATS)	PSV01S01989A	943	\$18,000	
DMS ONSITE SETUP	LSV01S02013A	209	\$30,000	
OPTION 1: ASTRO DMS ADVANCED HOSTING	LSV01S01033A	700		\$0
Option 2: ASTRO DMS ON-PREM	LSV03S02047A	700		\$0

DMS-FAST TRACK Advanced APX Portables or Mobiles: New RM Customer

License Software Model	Description	Intent for SDS	Price	QTY
HKVN4646A	APX DEVICE MANAGEMENT LICENSES	LICENSES	\$0	Number of De
HKVN4511A	APX DEVICE MANAGEMENT SUBSCRIPTION	SUBSCRIPTION	\$0	1

Hardware for Advanced Packages:

Hardware for Advanced Packages are not part of the DMS offer. There is a list of hardware specifications in RM System Planner. Sales/CSM's can quote hardware listed and order via a standard drop ship order, or obtain specifications and work with the hardware vendor directly.

Dropship server suggestion:

Description	Full Description	Nomenclature	APC	Price
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,848.00
Description	Full Description	Nomenclature	APC	Price
RACK MOUNT WINDOWS SERVER	Recommended for Medium-sized Radio Fleets: 1 TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER3	571	\$9,601.00



Updated Pricing for contract 4400016317 as of January 2022

RACK MOUNT WINDOWS SERVER		Recommended for Large Radio Fleets. 2TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 2x8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER4	571	\$9,464.00
Job Processors					
Description	Full Description	Nomenclature	APC	Price	
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DVD-RW/USB Kit	DSSUBSERVER1	571	\$6,181.00	
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DL360 GEN9 E5-2630V3 KIT, 8GB 1RX4 PC4-2133P-R KIT, DVD-RW/USB Kit	DSSUBSERVER2	571	\$7,836.00	
Radio Management Clients / Device Programmers					
Description	Full Description	Nomenclature	APC	Price	
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,848.00	
WINDOWS LAPTOP	-	DSSUBLAPTOP	571	\$1,156.00	
Premier Package					
DMS-Premier APX Portables or Mobiles					
Description	Model	APC	List Price per device per month	List Price F device P yr	
BASE MODEL: Premier 3 yr See above for inclusions	MSV01S00843A	700	\$24.00	\$864.00	

**ASTRO® Digital APX 900™ Portable Series
2-WAY RADIO ACCESSORIES**

Antennas					
Description	Full Description	Nomenclature	APC	Price	
VHF STUBBY ANTENNA 11CM(136-147MHZ)	UL Approved	PMAD4093A	555	\$11.00	
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved	PMAD4088B	555	\$21.50	
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved	PMAD4094A	555	\$11.00	
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved	PMAD4095A	555	\$11.00	
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved	PMAE4022B	555	\$10.25	
UHF STUBBY ANT (420-445MHZ) 4.5CM	-	PMAE4094B	555	\$12.00	
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved	PMAE4100A	555	\$29.00	
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved	PMAE4102A	837	\$29.00	
ANTENNA, STUBBY,700/800 MHZ 9CM	UL Approved	PMFA4022A	555	\$29.00	
ANTENNA COAXIAL WHIP 896-941 MHZ	UL Approved	NAF5088B	555	\$35.75	
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	-	NAF5080	555	\$35.00	
Batteries					
Description	Full Description	Nomenclature	APC	Price	
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$135.00	
BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$125.00	
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00	
BATT IMPRES LIION TIA4950 HE DENIS IP68 2900T	UL Approved	PMNN4489A	453	\$180.00	
BATT IMPRES LIION LOW VOLT IP68 3000T	-	PMNN4493A	453	\$135.00	
BATT IMPRES LIION IP68 2100T	-	PMNN4491B	453	\$110.00	
Chargers					
Description	Full Description	Nomenclature	APC	Price	
VEHICULAR CHARGER	-	NNTN7616D	785	\$418.00	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
CHARGR INTRFC UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00	
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00	
CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA	-	PMPN4284A	785	\$655.00	
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$76.00	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00	
Battery Fleet Management					
Description	Full Description	Nomenclature	APC	Price	
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00	
Programming Cables					
Description	Full Description	Nomenclature	APC	Price	
PORTABLE PROGRAMMING CABLE	Used to program the radio with Customer Programming Software and Tuner Software	PMKN4012B	37	\$77.00	
PROGRAMMING, TEST & ALIGNMENT CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible with ALL APX Portable Radios (APX7000/6000/4000/LI/3000)	PMKN4013C	261	\$103.00	
CABLE, DATA,APX900 CLONING CABLE	-	PMKN4197A	837	\$77.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2"	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$12.00	
2.5 INCH SWIVEL BELT LOOP	-	PMLN5610A	271	\$12.00	
3.0 INCH SWIVEL BELT LOOP	-	PMLN5611A	271	\$12.00	
HARD LEATHER CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5838A	271	\$51.00	
HARD LEATHER CARRY CASE WITH 3 IN SWIVEL BELT LOOP - FULL KEYPAD	-	PMLN5840A	271	\$62.00	
NYLON CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5844A	271	\$26.00	
2.5-INCH BELT CLIP	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$13.00	
HARD LEATHER CARRY CASE WITH 2.5 IN SWIVEL BELT LOOP - FKP	-	PMLN5842A	271	\$60.00	
Dust Cover					
Description	Full Description	Nomenclature	APC	Price	
DUST COVER ASSEMBLY	-	15012157001	362	\$18.25	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
CORE EARSET - D-SHELL	UL Approved	PMLN5096A	742	\$63.50	
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk	PMLN5101A	742	\$251.00	
CORE ULTRA-LITE HEADSET	UL Approved	PMLN5102A	742	\$88.50	
HEAVY DUTY HEADSET PMLN5275C	UL Approved	PMLN5275C	742	\$534.00	
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. UL Approved	RMN5058A	742	\$92.75	
Bluetooth Accessories					
Description	Full Description	Nomenclature	APC	Price	
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$40.00	
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$40.00	
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows the user to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NNT2571) must be ordered separately to power the earpieces.	NNTN8296A	742	\$180.00	
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$52.00	
FLEXIBLE-FIT SWIVEL EARPIECE W/ BOOM MIC, MULTIPACK	-	PMLN7203A	742	\$41.00	
MOTOTRBO BLUETOOTH ACCESSORY KIT W/NA POWER SUPPLY ASSY,ACCY,WIRELESS ACCY KIT, STD PR	-	RLN6500A	742	\$99.00	
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset, Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	NNTN8127B	742	\$112.00	
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NNT2571). Optional item not included: Neckloop Retention Clip (NNTN8457A)	NNTN8434A	742	\$515.00	
ASSEMBLY,ACCESSORY,WRLSS ACCY KIT, STD PAIR, 12 IN CBL	-	NNTN8125C	742	\$239.00	
Bluetooth Replacement Parts					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE W/12" CABLE	Replacement cable for NNT2570C	NTN2572A	742	\$156.00	
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$46.00	
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$17.25	
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00	
Remote Speaker Microphones (RSMs)					
Description	Full Description	Nomenclature	APC	Price	
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	IMPRES RSM with NON-Threaded Audio Jack, Orange Button, Noise Cancelling (IP54). NOT INTENDED FOR FIRE MARKETS. UL Approved	PMNN4062A	372	\$129.00	

APX IMPRES RSM W/VOL, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57). UL Approved	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55)	PMMN4069A	372	\$133.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68).	HMN4101B	372	\$330.00
IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4103B	372	\$345.00
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4104B	372	\$454.00

Earpieces and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved	AARLN4885	742	\$25.75
ACCESSORY KIT EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk. Lightweight earpiece that picks up sound through bone conduction.	PMLN5653A	742	\$399.00
EAR RCVR W/COIL CBL&3.5MM PLUG	UL Approved	WADN4190B	742	\$44.25
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: HMN4101, HMN4103, HMN4104.	RMNS116A	742	\$340.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. UL Approved	RLN6424B	742	\$80.00
SURVEILLANCE HIGH NOISE KIT	-	RLNS887A	742	\$32.00
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
D-SHELL RX-ONLY EARPIECE (3.5MM)	UL Approved	PMLN4620B	742	\$19.50
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00
DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336817	372	\$90.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB	5080384F72	742	\$117.00
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
REC ONLY EARPIECE W/TRANSLUCENT TUBE, LOUD VERSION	-	RLN4941AXL	742	\$85.00

Surveillance Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6669	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6670	742	\$150.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6729	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6731	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6732	742	\$150.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. UL Approved	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. UL Approved	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. UL Approved	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. UL Approved	PMLN6130A	742	\$126.00
IMPRES 2 WIRE SURVEILLANCE-BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. UL Approved	PMLN6127A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6129A	742	\$122.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6123A	742	\$178.00
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	372	\$30.00
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$73.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB	5080384F72	742	\$117.00
SURVEILLANCE LOW NOISE KIT	-	RLNS886A	742	\$20.00
ACCESSORY KIT EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$20.50
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$20.50
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$20.50
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$20.50
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$20.50
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$20.50
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00
ADAPTER APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$65.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter.	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter.	ZMN6032	742	\$143.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter	ZMN6031	742	\$177.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6726	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6727	742	\$43.25
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. UL Approved	PMLN6124A	742	\$178.00
RECEIVE NLY SURV KIT (BLACK) NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	RLNS131B	742	\$55.50

ASTRO® Digital APX 900™ Portable Series
Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 900 7800 MHZ MODEL 2 PORTABLE	-	H92UCF9PW6 N	837	\$1,898.00
APX 900 7800 MHZ MODEL 3 PORTABLE	-	H92UCH9PW7 N	837	\$2,142.00
APX 900 900 MHZ MODEL 2	-	H92WCF9PW6 N	837	\$1,898.00
APX 900 900 MHZ MODEL 3	-	H92WCH9PW7 N	837	\$2,142.00
APX 900 VHF MODEL 2 PORTABLE	-	H92KDF9PW6 N	837	\$1,898.00
APX 900 VHF MODEL 3 PORTABLE	-	H92KD9PW7 N	837	\$2,142.00
APX 900 UHFR1 MODEL 2 PORTABLE	-	H92QDF9PW6 N	837	\$1,898.00
APX 900 UHFR1 MODEL 3 PORTABLE	-	H92QDH9PW7 N	837	\$2,142.00
APX 900 UHFR2 MODEL 2 PORTABLE	-	H92SDF9PW6 N	837	\$1,898.00
APX 900 UHFR2 MODEL 3 PORTABLE	-	H92SDH9PW7 N	837	\$2,142.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,177.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$385.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
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ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QAO1749. The HARDWARE KEY QAO1648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QAO1648) if required to operate/program on a trunking system. Not compatible with conventional.	QAO1648	655	\$6.00
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System Enhancement Options (Optional)

All APX 900 Radios ship P25 "clear" with QAO5751 unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D (Q947). Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking (QAO4096). A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	426	\$495.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: MULTIKEY	-	H869	837	\$83.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required.	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature (requires digital).	QA09008	655	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation (QAO4096)	QA01767	426	\$110.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QAO0782)	QA09012	426	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ENH: CONVENTIONAL VOTE SCAN	-	Q387AT	430	\$253.00
ENH: AES 256 SW ENCRYPTION	P25 CAP Compliant option. Includes ADP. AES Encryption can NOT be field upgraded. Highly recommended to be purchased up front if needed.	QA06653	837	\$358.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00

Antenna Selection (Optional)

The APX 900 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5080, 900 MHz: NAF5088, VHF: PMAD4088, UHF: PMAE4022)

The APX 900 contains an internal GPS antenna and therefore a separate external GPS antenna is not needed

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (PMAF4022A)	This option will delete the standard antenna (NAF5080) and add 1/4 wave 7/800 stubby antenna (PMAF4022)	H122	837	\$10.00
ALT: VHF STUBBY ANTENNA (136-147MHZ) (PMAD4093A)	This option will delete the standard antenna (PMAD4088) and add 136-147 MHz stubby antenna (PMAD4093)	QA06786	837	\$10.00
ALT: VHF STUBBY ANTENNA (147-160MHZ) (PMAD4094A)	This option will delete the standard antenna (PMAD4088) and add 147-160 MHz stubby antenna (PMAD4094)	QA06787	837	\$10.00
ALT: VHF STUBBY ANTENNA (160-174MHZ) (PMAD4095A)	This option will delete the standard antenna (PMAD4088) and add 160-174 MHz stubby antenna (PMAD4095)	QA06788	837	\$10.00
ALT: UHF R1 STUBBY ANTENNA (380-480 MHz) (PMAE4100)	This option will delete the standard antenna (PMAE4022) and add 380-470 MHz stubby antenna (PMAE4100)	QA06796	837	\$10.00
ALT: UHF R2 STUBBY ANTENNA (450-520 MHz) (PMAE4102)	This option will delete the standard antenna (PMAE4094) and add 450-527 MHz stubby antenna (PMAE4102)	QA06797	837	\$10.00
ALT: UHF R2 WHIP ANTENNA (450-520 MHz) (PMAE4094)	This option will delete the standard antenna (PMAF4022) and adds 450-527 MHz antenna (PMAE4049)	QA06795	837	\$10.00
DEL: DELETE STANDARD ANTENNA (NAF5080)	Deletes standard antenna: NAF5080 (7/800 MHz), NAF5088 (900 MHz), PMAD4088 (VHF), PMAE4022 (UHF)	H112LW	837	(\$10.00)

Battery Selection (Optional)

The APX 900 ships standard with an IMPRES Li-Ion 2100 mAh battery (PMNN4491)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 3000MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion 3000 MAH (PMNN4493)	QA06765	837	\$94.00
ALT: IMPRES LI-ION TIA 2900MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion TIA 2900 MAH (PMNN4489)	QA06766	837	\$110.00
DEL: DELETE BATTERY (PMNN4491)	Deletes standard battery (PMNN4491)	H207	837	(\$47.00)

Belt Clip Selection (Optional)

The APX 900 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	This option deletes the standard belt clip (PMLN4651) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	Deletes standard belt clip (PMLN4651)	H301	426	(\$10.00)

Data Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software (PMKN4013C)	Q157	655	\$83.00

Service Package Selection (Must Select One)

The APX 900 ships standard with a 12 month warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$194.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORT	-	QA00205	837	\$20.00
ADD: CDROM USER GUIDE	-	H88CE	837	\$28.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	837	\$0.00

Packaging Selection (Optional)

The APX 900 ships standard with bulk packaging

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	837	\$0.00

**ASTRO® Digital APX 900
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
P25 CONVENTIONAL	-	T8523	430	\$0.00
P25 TRUNKING	-	T8524	430	\$0.00

Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: TDMA OPERATION	-	QA00580AE	430	\$569.00	
ENH: P25 DIGITAL CONVENTIONAL TO P25 DIGITAL TRUNKING FLP	-	QA03216AG	837	\$792.00	
System Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: PROGRAMMING OVER P25 (OTAP)	-	G996AX	430	\$127.00	
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00	
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$127.00	
ADD: ENHANCED DATA	-	QA03399AB	430	\$190.00	
ADD: GROUP SERVICES FLP	-	QA09008	430	\$190.00	
ENH: APX GPS ACTIVATION	-	QA00782AE	426	\$165.00	
ENH: MULTIKEY	-	H869CC	430	\$417.00	
ADD: MISSION CRITICAL GEOFENCING FLP	-	QA09012AB	430	\$190.00	
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00	
Misc					
Description	Full Description	Nomenclature	APC	Price	
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00	

**ASTRO® Digital APX 900™ Portable Series
UL Approved Accessories**

Batteries					
Description	Full Description	Nomenclature	APC	Price	
BATT IMPRES LION TIA4950 HE DENS IP68 2900T	UL Approved with APX 900	PMNN4489A	453	\$180.00	
Antennas					
Description	Full Description	Nomenclature	APC	Price	
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved with APX 900	PMAD4088B	555	\$21.50	
VHF STUBBY ANTENNA 11CM(136-147MHZ)	UL Approved with APX 900	PMAD4093A	555	\$11.00	
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved with APX 900	PMAD4094A	555	\$11.00	
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved with APX 900	PMAD4095A	555	\$11.00	
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved with APX 900	PMAE4022B	555	\$10.25	
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved with APX 900	PMAE4100A	555	\$29.00	
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved with APX 900	PMAE4102A	837	\$29.00	
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	UL Approved with APX 900	NAF5080	555	\$35.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
HEAVY DUTY HEADSET PMLN5275C	UL Approved with APX 900	PMLN5275C	742	\$534.00	
CORE L/W HEADSET	UL Approved with APX 900	RMNS058A	742	\$92.75	
CORE ULTRA-LITE HEADSET	UL Approved with APX 900	PMLN5102A	742	\$88.50	
Remote Speaker Microphones (RSMs)					
Description	Full Description	Nomenclature	APC	Price	
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	UL Approved with APX 900	PMMN4062A	372	\$129.00	
APX IMPRES RSM W/VOL, IP57	UL Approved with APX 900	PMMN4065A	372	\$107.00	
IMPRES RSM, 3.5MM AUDIO JACK	UL Approved with APX 900	PMMN4069A	372	\$133.00	
Surveillance Kits					
Description	Full Description	Nomenclature	APC	Price	
IMPRES 3 WIRE W/ TRANS TUBE-BLK	UL Approved with APX 900	PMLN6123A	742	\$178.00	
IMPRES 3 WIRE W/ TRANS TUBE-BGE	UL Approved with APX 900	PMLN6124A	742	\$178.00	
IMPRES 2 WIRE SURVEILLANCE -BLK	UL Approved with APX 900	PMLN6127A	742	\$108.00	
IMPRES 2 WIRE SURVEILLANCE-BGE	UL Approved with APX 900	PMLN6128A	742	\$108.00	
IMPRES 2 WIRE W/TRANS TUBE BLK	UL Approved with APX 900	PMLN6129A	742	\$122.00	
IMPRES 2 WIRE W/TRANS TUBE BEIGE	UL Approved with APX 900	PMLN6130A	742	\$126.00	
RECEIVE NLY SURV KIT (BLACK) /NOISE	UL Approved with APX 900	RLN5313B	742	\$55.50	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
1 WIRE SURVEILLANCE KIT-BLACK	UL Approved with APX 900	PMLN6125A	742	\$41.25	
1 WIRE SURVEILLANCE KIT-BIEGE	UL Approved with APX 900	PMLN6126A	742	\$41.25	
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN4941A	742	\$71.00	
EAR RCVR W/COIL, CBL&3.5MM PLUG	UL Approved with APX 900	WADN4190B	742	\$44.25	
RX ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN6424B	742	\$80.00	
CORE EARSET - D-SHELL	UL Approved with APX 900	PMLN5096B	607	\$63.50	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved with APX 900	AARLN4885	742	\$25.75	
Misc					
Description	Full Description	Nomenclature	APC	Price	
AUDIO ACCY ADPT 3.5MM W/PTT	UL Approved with APX 900	BDN6783B	742	\$120.00	

**ASTRO® Digital APX 1000
FLASHport® Aftermarket Upgrades**

Models					
Description	Full Description	Nomenclature	APC	Price	
P25 CONVENTIONAL	-	T8279	430	\$0.00	
P25 TRUNKING	-	T8280	430	\$0.00	
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00	
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00	
System Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00	
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00	
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00	
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00	
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00	
ENH: MULTIKEY	-	H869CC	430	\$417.00	
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00	
ADD: MISSION CRITICAL GEOFENCING FLP	-	QA09012AB	430	\$190.00	
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$127.00	
Misc					
Description	Full Description	Nomenclature	APC	Price	
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00	

**ASTRO® Digital APX 1000™ Portable Series
2-WAY RADIO ACCESSORIES**



Updated Pricing for contract 4400016317 as of January 2022

Antennas

Description	Full Description	Nomenclature	APC	Price
700/800- GPS ANTENNA	-	NAF5085A	555	\$45.00
UHF (380-520) GPS ANTENNA	-	PMAE4065A	555	\$21.00
ANT_HLCL_136MHZ MIN.1.577GHZ M	-	NAR6593A	555	\$38.00
ANT 1/4 WAVE 7/800 STUBBY	-	NAR6595A	555	\$29.00
UHF1 GPS STUBBY ANTENNA	-	FAF5259A	555	\$60.00
UHFR2 GPS STUBBY ANTENNA	-	FAF5260A	555	\$60.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY PACK, MAH BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$125.00
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$135.00
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00

Chargers

Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	-	PMPN4174A	785	\$76.00
ACCESSORY ACCESSORY_CHARGER,IMPRES MUC - US/NA PLUG	-	WPLN4212B	785	\$495.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$95.00
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	-	RLN5382C	785	\$95.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	-	NLN7967	785	\$21.00
INSERT, UNIVERSAL MUC	-	NNTN8170A	785	\$207.00
INSERT, UNIVERSAL SUC	-	NNTN8169A	453	\$45.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	-	NNTN7392	785	\$250.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00
FLEET MANAGEMENT CHGR INTERFACE UNIT	-	NNTN7677A	291	\$159.00
CHGR INTRFCE UNT GEN1 IMPRES SUC	-	NNTN8045A	129	\$75.00

Programming Cables

Description	Full Description	Nomenclature	APC	Price
PROGRAMMING, TEST & ALIGNMENT CABLE	-	PMKN4013C	261	\$103.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	-	PMLN6085A	271	\$60.00
2.75" SWL D-STUD BELT LOOP	-	PMLN7229A	271	\$21.00
BELT CLIP 2"	-	PMLN4651A	271	\$12.00
2.5-INCH BELT CLIP	-	PMLN7008A	271	\$13.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC, EMERGENCY BUTTON 3.5MM JACK IP54	-	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	-	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	-	PMMN4069A	372	\$133.00

Remote Speaker Microphone Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$58.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
ACCESSORY KIT EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50
REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$58.00
D-SHELL RX-ONLY EARPIECE (3.5MM)	-	PMLN4620B	742	\$19.50
EAR RCVR W/COIL CBL43.5MM PLUG	-	WADN4190B	742	\$44.25
RX/TX BOOMLESS TEMPLE TRANSDUC	-	RMNS116A	742	\$340.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN6424B	742	\$80.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$117.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5.08E+103	742	\$29.25
DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$53.00
DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$53.00
DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$53.00
DISPLAY RSM GCAI, REPLACEABLE CABLE	-	3075336B17	372	\$90.00
IMPRES RSM REPL COIL CORD	-	RLN6075	372	\$85.00

Ear Microphones

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MIC	-	PMLN5653A	742	\$399.00
EARGUARD	-	1.80E+30	742	\$68.00
EARHOLDER SMALL BLK	-	0180358B32	742	\$20.00
EARHOLDER MEDIUM BLK	-	0180358B33	742	\$19.00
EARHOLDER LARGE BLK	-	0180358B34	271	\$20.00
EARHOLDER MEDIUM CLR	-	0180358B36	742	\$20.00
EARHOLDER LARGE CLR	-	0180358B37	742	\$20.00

Surveillance Kits

Description	Full Description	Nomenclature	APC	Price
1 WIRE SURVEILLANCE KIT-BLACK	-	PMLN6125A	742	\$41.25
1 WIRE SURVEILLANCE KIT-BIEGE	-	PMLN6126A	742	\$41.25
IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$108.00
IMPRES 2 WIRE SURVEILLANCE-BGE	-	PMLN6128A	742	\$108.00
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$122.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$126.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	-	PMLN6123A	742	\$178.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	-	PMLN6124A	742	\$178.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	-	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	-	ZMN6039	742	\$190.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	-	ZMN6031	742	\$177.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	-	ZMN6032	742	\$143.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	-	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6726	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6727	742	\$43.25
RECEIVE ONLY EARPIECE, BEIGE W/EXTENDED WEAR COMFORT EARPIECE(NTN8371)	-	RLN5314	742	\$50.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	-	BDN6729	742	\$114.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	-	BDN6669	742	\$118.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	-	BDN6731	742	\$118.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	-	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	-	BDN6730	742	\$135.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	-	BDN6670	742	\$150.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	-	BDN6732	742	\$150.00

Surveillance Kits Replacement Parts

Description	Full Description	Nomenclature	APC	Price
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,200.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,200.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	-	NNTN8457A	372	\$30.00
DISCREET EARPIECE KIT	-	RLN4921	372	\$275.00
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$73.00
1.4V BATTERY - 6 PACK	-	RNN4005	452	\$15.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$45.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$117.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
ACCESSORY KIT EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

Headsets

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
CORE EARSET - D-SHELL	-	PMLN5096A	742	\$63.50
CORE ULTRA-LITE HEADSET	-	PMLN5102A	742	\$88.50
HEAVY DUTY HEADSET	-	PMLN5275A	742	\$485.00
NEXT GEN BTH HEADSET GCAI	-	PMLN6852A	742	\$330.00
AUDIO ACCESSORY-HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	-	PMLN6853	742	\$443.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	-	PMLN7466A	742	\$330.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	-	PMLN7467A	742	\$443.00
IMPRES TEMPLE TRANSDUCER	-	PMLN5101A	742	\$251.00

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$28.50
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$28.50
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$28.50

**ASTRO® Digital APX 1000™ Portable Series
800MHZ BAND**
Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 1000 7800 MHZ MODEL 1.5 PORTABLE	-	H84UCD9PW5 N	837	\$1,391.00
APX 1000 7800 MHZ MODEL 2 PORTABLE	-	H84UCF9PW6 N	837	\$1,597.00
APX 1000 7800 MHZ MODEL 3 PORTABLE	-	H84UCH9PW7 N	837	\$1,803.00
APX 1000 900MHZ MODEL 2	-	H84WCF9PW6 N	837	\$1,597.00
APX 1000 VHF MODEL 1.5 PORTABLE	-	H84KDD9PW5 N	837	\$1,391.00
APX 1000 VHF MODEL 2 PORTABLE	-	H84KDF9PW6 N	837	\$1,597.00
APX 1000 VHF MODEL 3 PORTABLE	-	H84KH9PW7 N	837	\$1,803.00
APX 1000 UHF R1 MODEL 1.5 PORTABLE	-	H84QDD9PW5 N	837	\$1,391.00
APX 1000 UHF R1 MODEL 2 PORTABLE	-	H84QDF9PW6 N	837	\$1,597.00
APX 1000 UHF R1 MODEL 3 PORTABLE	-	H84QDH9PW7 N	837	\$1,803.00
APX 1000 UHF R2 MODEL 1.5 PORTABLE	-	H84SD9PW5 N	837	\$1,391.00
APX 1000 UHF R2 MODEL 2 PORTABLE	-	H84SDF9PW6 N	837	\$1,597.00
APX 1000 UHF R2 MODEL 3 PORTABLE	-	H84SDH9PW7 N	837	\$1,803.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 CONVENTIONAL	-	QA04097	837	\$385.00
ENH: P25 TRUNKING	-	QA04096	837	\$1,177.00

Knob Configuration (Optional)

7/800, VHF, UHF, UHF, UHF and 900 MHz models ship standard with a single multi function knob (no option required).

The 900 MHz model also offers the option for dual knob configuration. If dual knob configuration is desired on the 900 MHz model you must select QA04865.

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL CONTROL ENHANCEMENT	Only available on 900 MHz model	QA04865	426	\$100.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Selection (Optional)

All APX 1000 radios ship P25 "clear" with QA05751 unless the ADP option (Q667) is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25/OTAP requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To use in the field POP25 programming must use the Advanced System Key (DVN4046A).	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking (QA04096). A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	426	\$495.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: MULTIKEY	-	H869	837	\$83.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature (requires digital)	QA09008	655	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (QA04096)	QA01767	426	\$110.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS P25 CAP Encryption Requirements and who require a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00
ENH: TRUNKED RADIO TRACE/REMOTE MO	-	H43	426	\$83.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Antenna Selection (Optional)

The APX 1000 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5085, 900 MHz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)

Description	Full Description	Nomenclature	APC	Price
ALT: VHF STUBBY ANTENNA (147-160MHZ) (PMAD4094A)	This option will delete the standard antenna (NAR6593) and add 147-160 MHz stubby antenna (PMAD4094)	QA06787	837	\$10.00
ALT: VHF STUBBY ANTENNA (160-174MHZ) (PMAD4095A)	This option will delete the standard antenna (NAR6593) and add 160-174 MHz stubby antenna (PMAD4095)	QA06788	837	\$10.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	This option will delete the standard antenna (PMAE4065) and add 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	426	\$61.00
ALT: UHF R2 WHIP ANTENNA (450-520 MHz) (PMAE4094)	This option will delete the standard antenna (PMAE4065) and add 420-445 MHz stubby antenna (PMAE4094)	QA06795	837	\$10.00
ALT: UHF R1 STUBBY ANTENNA (380-480 MHz) (PMAE4100)	This option will delete the standard antenna (PMAE4065) and add 380-470 MHz stubby antenna (PMAE4100)	QA06796	837	\$10.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	This option will delete the standard antenna (PMAE4065) and add 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	426	\$61.00
ALT: UHF R2 STUBBY ANTENNA (450-520 MHz) (PMAE4102)	This option will delete the standard antenna (PMAE4065) and add 450-527 MHz stubby antenna (PMAE4102)	QA06797	837	\$10.00
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	This option will delete the standard antenna (NAR6593) and add 1/4 wave 7/800 MHz stubby antenna (NAR6595)	H122	426	\$26.00
DEL: DELETE STANDARD ANTENNA	Deletes standard antenna: NAF5085 (7800 MHz), PMAF4008 (900 MHz), NAR6593 (VHF), PMAE4065 (UHF/R1/R2)	H112	426	(\$10.00)

Battery Selection (Optional)

The APX 1000 ships standard with an IMPRES Li-Ion 1900 mAh battery (NNTN8128)

UL Approval available ONLY on the 900 MHz dual knob model 2 black model (H84WCF9PW5AN)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option will delete the standard battery (NNTN8128) and add IMPRES Li-Ion 2350 mAh (PMNN4424)	QA02749	426	\$94.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This option will delete the standard battery (NNTN8128) and add IMPRES Li-Ion 2800 mAh (PMNN4448)	QA04146	837	\$110.00
ALT: IMPRES LI-ION 2500MAH UL/DELTA T BATTERY (NNTN8560A)	This option deletes the standard battery (NNTN8128) and adds IMPRES Li-Ion 2500 mAh UL/Delta T battery (NNTN8560). *Available on the two knob 900 MHz configuration only (QA04865 + H84WCF9PW5AN)	QA00582	411	\$143.00
DEL: DELETE BATTERY	Deletes standard battery (NNTN8128)	H207	426	(\$47.00)

Belt Clip Selection (Optional)

The APX 1000 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	Deletes standard belt clip (PMLN4651) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	Deletes standard belt clip (PMLN4651)	H301	426	(\$10.00)

Data Cable Selection (Optional)

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios.	Q157	655	\$83.00
Service Package Selection (Must Select One)				
The APX 1000 ships standard with a 12 month manufacturer's warranty. NOTE: Additional services package is required with purchase.				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$194.00
Manual Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX1000 CD-ROM	-	H88	837	\$28.00
Test Results (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00
RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	RFID Volume knob for single knob configuration (QA04526AD). Knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$28.00
ADD: RFID KNOB	RFID Volume knob for dual knob configuration (900 MHz only) (QA04526AE). Knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$28.00
Packaging Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	This option deletes the standard bulk packaging option and adds single unit packaging.	H842	426	\$0.00

ASTRO® Digital APX 1000™ Portable Series UHF Band
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 1000 UHF R1 MODEL 1.5 PORTABLE	-	H84QDD9PW5 N	837	\$1,391.00
APX 1000 UHF R1 MODEL 2 PORTABLE	-	H84QDF9PW6 N	837	\$1,597.00
APX 1000 UHF R1 MODEL 3 PORTABLE	-	H84QDH9PW7 N	837	\$1,803.00
APX 1000 UHF R2 MODEL 1.5 PORTABLE	-	H84SDD9PW5 N	837	\$1,391.00
APX 1000 UHF R2 MODEL 2 PORTABLE	-	H84SDF9PW6 N	837	\$1,597.00
APX 1000 UHF R2 MODEL 3 PORTABLE	-	H84SDH9PW7 N	837	\$1,803.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,177.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$385.00

3: System Enhancement Software (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

4: System Enhancement Options (Not Required)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN046A)	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN046A to be purchased	QA00580	426	\$495.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: MULTIKEY	-	H869	837	\$83.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$110.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00

5: Algorithm

Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00

6: Antenna

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard antenna. 7.800-NAF5085, VHF-NAR6593, UHF1R/2-PMMAE4065.	H112	426	(\$10.00)
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	-	QA02017	426	\$61.00

7: Battery

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	Kit (PMNN4424) Non-FM & Non-UL	QA02749	426	\$94.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This Battery Option does NOT provide UL or FM Compliance	QA04146	837	\$110.00
DEL: DELETE BATTERY	-	H207	426	(\$47.00)

8: Belt Clip (s)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	-	H301	426	(\$10.00)

9: Data Cable (s)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00

10: Service Options

Description	Full Description	Nomenclature	APC	Price
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ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$194.00
11: Manual				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX1000 CD-ROM	-	H88	837	\$28.00
12: Test Results				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00
13: RFID Enabled Volume Knob				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX4000/APX2000/APX1000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios as follows:	QA04526	426	\$28.00

**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$3.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00
Options				
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FLGA09012)	GA09012AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: RADIO TRACE	-	G170AL	430	\$95.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361	GA01767AJ	430	\$127.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AY	430	\$127.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
Software				
Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$191.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$220.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	QA00982AB	430	\$165.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$83.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTIKEY	-	W969	466	\$95.00
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$190.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$110.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,177.00

**ASTRO® Digital APX 3000
FLASHport® Aftermarket Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL	-	T7991	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7992	430	\$0.00
TDMA	-	T7993	430	\$0.00
9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T7997	430	\$0.00
Options				
Operation Mode				
Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price

Description		Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE		Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00
ENH: TDMA OPERATION		Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE		-	QA00982AC	430	\$190.00
ADD: DIGITAL TONE SIGNALING		-	QA00900AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP		Requires GPS (FL/QA00782).	QA00912AB	430	\$190.00
ADD: APX GEOFENCE PORT FPL		Requires QA00782(GPS), and QA03399 (ENHANCED DATA).	QA04447AB	430	\$190.00
Systems Enhancement Options					
ENH: PROGRAMMING OVER P25 (OTAP)		Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH: ONE TOUCH BUTTON		-	H48BD	430	\$95.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA		-	Q947BE	430	\$316.00
ADD: DVRs PSU ACTIVATION APX PORTABLE FLASHPORT		-	QA00631AC	430	\$127.00
ENH: APX GPS ACTIVATION		Requires IV&D (Q947).	QA00782AE	430	\$190.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP		The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP		A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION		Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ADD: MANDOWN OPERATION		APX6000 customers ONLY - with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH		-	QA00583AE	430	\$190.00
ADD: ENHANCED DATA		Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
Algorithm Options					
ADD: MULTIKEY AND OTAR		-	H868BM	430	\$936.00
ENH: MULTIKEY		-	H869CC	430	\$417.00
ENH: TACTICAL REKEY		Requires IV&D (Q947). Includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$443.00
ENH: ASTRO 25 OTAR W/MULTIKEY		-	Q498BA	430	\$936.00
UNDEFINED					
ENH: ENHANCEMENT LEVEL 1		-	QA01770AG	430	\$253.00
REMOVAL OF SINGLE SYSTEM TRIGGER (QA02811)		-	QA03217AA	430	\$0.00
ADD: BASIC DEVICE COLLABORATION SOF		-	QA03176AJ	430	\$190.00
ENH: DIGITAL CONVENTIONAL TO 9600 AND 3600 TRUNKING WITH INTEROP		-	QA03015AF	430	\$1923.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY		-	UA00083AA	430	\$0.00

ASTRO® Digital APX 3000™ Portable Radio
Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX COVERT 7800 MHZ MODEL 1 PORTABLE	-	H59UCD9PW4 N	536	\$3,229.00
APX COVERT VHF MHZ MODEL 1 PORTABLE	-	H59KGD9PW4 N	536	\$3,229.00
APX COVERT UHF1 MHZ MODEL 1 PORTABLE	-	H59QDD9PW4 N	536	\$3,229.00
APX COVERT UHF2 MHZ MODEL 1 PORTABLE	-	H59SDD9PW4 N	536	\$3,229.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02591	536	\$2,822.00
ENH: ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02592	536	\$2,592.00
ENH: SOFTWARE TRUNKING 9600 BAUD OR 3600 BAUD	Includes H38BZ: SmartZone Operation, Q002811AF: P25 9600 or 3600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key	QA02756	536	\$2,042.00
ENH: ENH: SOFTWARE P25 CONVENTIONAL	Includes H35CA: Conventional Operation, Q806BV: ASTRO Digital CAI Operation, QA00583AJ: BlueTooth, Q387BF: Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02593	536	\$1,282.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	536	\$110.00
ENH: ONE TOUCH/STATUS MSG	-	H46	536	\$83.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947	536	\$275.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767	536	\$110.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770	536	\$220.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: DVRs PSU ACTIVATION	-	QA00631	655	\$110.00
ENH: TACTICAL RADIO / STUNKILL	Tactical Stun Kill is not compatible with DVRs QA00631. Requires an encryption. Incompatible with ADP-only.	H02	536	\$83.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: ENHANCED DATA	Requires Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361)	QA03399	696	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: GROUP SERVICES	-	QA09008	655	\$165.00

Algorithm Selection (Required)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	-	H797	536	\$536.00
ADD: TACTICAL REKEY WITH MULTIKEY	Requires digital (Q806), IV&D, and an encryption (not including ADP-only).	H04	536	\$385.00
ENH: MULTIKEY	Required when using more than one encryption algorithm or encryption key	H869	536	\$363.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	536	\$879.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	536	\$814.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	Q625	536	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	536	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00



Updated Pricing for contract 4400016317 as of January 2022

Antenna Selection (Optional)

The APX 3000 ships with a standard antenna dependent on frequency (7/800: NAF5085, UHF: PMAE4065, VHF: NAR6593)

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800 MHz FLEXIBLE ANTENNA	This option deletes the standard antenna (NAF5085) and replaces it with 7/800 MHz flexible dribble antenna (PMAF4006)	QA03192	536	\$44.00
ADD: VHF FLEXIBLE ANTENNA	This option deletes the standard antenna (NAR6593) and replaces it with 136-174 MHz flexible GPS dribble antenna (PMAD4125)	QA03194	536	\$44.00
ALT: UHF/2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	536	\$61.00
ADD: UHF GPS FLEXIBLE ANTENNA	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-520 MHz GPS antenna (PMAE4080)	QA03193	536	\$44.00
ALT: UHF/2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AN) deletes the standard antenna (PMAE4065) and replaces it with 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	536	\$61.00

Battery Selection (Optional)

The APX 3000 ships standard with two (2) 1250 mAh IMPRES Li-Ion Batteries (NNTN8305) and one (1) ultra slim carry holster (PMLN6327). You can exchange the two (2) batteries and holster for one (1) of the batteries below that come standard with the 2" belt clip.

Description	Full Description	Nomenclature	APC	Price
DEL: BATTERY	This option deletes the standard batteries (NNTN8305AR - qty 2)	H207	536	(\$47.00)
ALT: SLIM LI-ION IMPRES 2000MAH (NNTN8128)	This option deletes the standard batteries and holster (NNTN8305AR - qty2) and adds IMPRES Li-Ion 2000 mAh battery (NNTN8128BR)	QA03163	536	\$0.00
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option deletes the standard batteries and holster (NNTN8305AR - qty2) and adds IMPRES Li-Ion 2350 mAh battery (PMNN4424AR)	QA02749	536	\$94.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	-	QA02750	426	\$110.00

Belt Clip Selection (Optional)

The APX 3000 ships standard with two (2) 1250 mAh IMPRES Li-Ion batteries (NNTN8305) and one (1) ultra slim carry holster (PMLN6327). If you choose to exchange the two (2) batteries and one (1) carry holster for one (1) of the batteries above, you can also exchange the 2" belt clip (PMLN4651) for the 2.5" belt clip (PMLN7008) below.

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	536	\$13.00
APX3000 COVERT CARRY HOLSTER	APX3000 COVERT CARRY HOLSTER This compact carry holster is designed so you can securely and discreetly carry the APX 3000 Radio. It features a fixed carry clip that allows you to clip the radio to a belt.	PMLN6327A	271	\$30.00

Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX PROGRAMMING CABLE	Includes programming, test and alignment cable (PMKN4013C) This is a GCAl cable at radio interface and USB connection at other end for computer programming. Please note that the PMKN4012A is NOT compatible with the APX 3000	Q157	536	\$83.00

Wired/Wireless Accessory Bundle Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MCW ACCESSORY BUNDLE PACK 1	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296), one Mission Critical Wireless push-to-talk pod (NNTN2571) and one Mission Critical Wireless Key Fob (PMLN6233)	QA03276	742	\$500.00
ADD: MCW ACCESSORY BUNDLE PACK 2	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and two Mission Critical Wireless push-to-talk pods (NNTN2571) to power the earbud headphones	QA03277	742	\$400.00
ADD: MCW ACCESSORY BUNDLE PACK 3	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and one Mission Critical Wireless push-to-talk pod (NNTN2571) to power the earbud headphones	QA03278	742	\$289.00
ALT: IMPRES 3-WIRE SURVEILLANCE KIT - BLACK	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124) and includes an IMPRES 3-wire surveillance kit in black (PMLN5111A)	QA03178	536	\$0.00
DEL: IMPRES 3_WIRE SURVEILLANCE KIT	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124)	QA04448	591	(\$65.00)

Service Package Selection (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$194.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE_CD APX3000 UG CDROM	-	H88	536	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Test Results Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	536	\$0.00

ASTRO® Digital APX 4000 FLASHport® Aftermarket Upgrades

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7904	430	\$0.00
ANALOG 3600 TRUNKING	-	T7905	430	\$0.00
DIGITAL CONVENTIONAL	-	T7906	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7907	430	\$0.00
TDMA	-	T7909	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$721.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$443.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$1,012.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY: with radios using tanases with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ENH: ONE TOUCH BUTTON	-	H468D	430	\$95.00
ADD: ENHANCED DATA	-	QA00399AB	430	\$190.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770AG	430	\$253.00

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital).	QA09008	430	\$190.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ENH: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52AK	430	\$190.00
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ENH: TACTICAL RADIO SOFTWARE	-	H02AH	430	\$95.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947). Includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$443.00
ENH: MULTIKEY	-	H869CC	430	\$417.00
MISC				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 4000™ Portable Series
Model (Must Select One)

**Effective April 29, 2019 you will no longer need to manually select option 'QA04865: Two Knob Configuration' when ordering the APX 4000 model. This option will automatically generate on every model as an internal option.

Description	Full Description	Nomenclature	APC	Price
APX 4000 7/800 MHZ MODEL 2 PORTABLE	-	H51UCF9PW6 N	426	\$2,332.00
APX 4000 7/800 MHZ MODEL 3 PORTABLE	-	H51UCH9PW7 N	426	\$2,841.00
APX 4000 900 MHZ MODEL 2 PORTABLE	-	H51WCF9PW6 N	426	\$2,332.00
APX 4000 900 MHZ MODEL 3 PORTABLE	-	H51WCH9PW7 N	426	\$2,841.00
APX 4000 VHF MHZ MODEL 2 PORTABLE	-	H51KDF9PW6 N	426	\$2,332.00
APX 4000 VHF MHZ MODEL 3 PORTABLE	-	H51KDH9PW7 N	426	\$2,841.00
APX 4000 UHF R1 MHZ MODEL 2 PORTABLE	-	H51ODF9PW6 N	426	\$2,332.00
APX 4000 UHF R1 MHZ MODEL 3 PORTABLE	-	H51ODH9PW7 N	426	\$2,841.00
APX 4000 UHF R2 MODEL 2 PORTABLE	-	H51SDF9PW6 N	426	\$2,332.00
APX 4000 UHF R2 MODEL 3 PORTABLE	-	H51SDH9PW7 N	426	\$2,841.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,210.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$715.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	This option provides P25 trunking functionality when programmed in 9600 trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,727.00
ENH: ANALOG CONVENTIONAL	-	QA02829	426	\$440.00

System Enhancement Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 trunking and conventional operation. POP25 requires AES encryption for ASTRO conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming user must use Advanced System Key (DVN4046A).	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 trunking. A software key (QA01749), hardware key (QA01648) or WACN Key (QA02018) is required. The hardware or WACN key will still require a DVN4046 to be purchased.	QA00580	426	\$495.00
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advanced System Key option that ships standard on all APX products. You cannot order software key (QA01749). The hardware key (QA01648) can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$220.00
ENH: TRUNKED RADIO TRACE/REMOTE MO	-	H43	426	\$83.00
ENH: One Touch/Status Msg	-	H46	426	\$83.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation	QA01767	426	\$110.00
ENHANCEMENT LEVEL 1	-	QA01770	426	\$220.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$110.00
ADD: APX Personnel Accountability	-	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required	QA03399	656	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$28.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3 only	Q53	426	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with model 3 only	Q52	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	-	H02	481	\$83.00
ADD: GROUP SERVICES	-	QA09008	655	\$165.00

Encryption Algorithm Options (Optional)

All APX 4000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: TACTICAL REKEY WITH MULTIKEY	Requires IV&D (Q947). Incompatible with MDC/ASTRO P25 OTAR with Multikey (H869). Tactical OTAR is not compatible with DVRs (QA00631).	H04	426	\$385.00
ENH: MULTIKEY	-	H869	426	\$363.00
ENH: AES ENCRYPTION AND ADP	P25 CAP Compliant option. Includes ADP.	Q629	426	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Antenna Selection (Optional)

The APX 4000 ships with a standard antenna dependent on frequency (7/800 MHz: NAF5085, 900 MHz: PMAF4008, VHF: NAR6593, UHF: PMAE4065)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4-WAVE 7/800 STUBBY (NAR659)	This option deletes the standard 7/800 antenna (NAF5085) and adds 1/4 wave 7/800 stubby antenna (NAR6595)	H122	426	\$26.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017A) deletes the standard UHF antenna (PMAE4065) and adds 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	426	\$61.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AL) deletes the standard UHF antenna (PMAE4065) and adds 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	426	\$61.00
ALT: ANTENNA, WHIP, 700-800MHZ	This option deletes the standard 7/800 antenna (NAF5085) and adds 7/800 antenna (PMAF4040)	QA07978	426	\$33.00
DEL: DELETE STANDARD ANTENNA	This option deletes the standard antenna: 7/800 MHz (NAF5085), 900 MHz (PMAF4008), VHF (NAR6593), UHF (PMAE4065)	H112	426	(\$10.00)

Battery Selection (Optional)

The APX 4000 ships standard with an IMPRES Li-Ion 1900 mAh battery (NNTN8128)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option deletes the standard battery (NNTN8128) and adds 2350 mAh Li-Ion battery (PMNN4424AR) *Not compatible with H499	QA02749	426	\$94.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	This option deletes the standard battery (NNTN8128) and adds 2800 mAh Li-Ion battery (PMNN4448AR) *Not compatible with H499	QA02750	426	\$110.00
ALT: IMPRES LI-ION 2500MAH RUGGED UL (NNTN8560)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *Requires rugged option (H499) *UL Certified / Delta T	QA04934	411	\$55.00
ALT: IMPRES LI-ION 2500MAH ULDELTA T BATTERY (NNTN8560A)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *UL Certified / Non-Delta T	QA00582	411	\$143.00
DEL: DELETE BATTERY	This option deletes the standard battery (NNTN8128)	H207	426	(\$47.00)

Rugged Selection (Optional)

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	*Non-UL / Delta T requires H499 only *UL Certified / Delta T requires H499 AND QA04934	H499	411	\$275.00
Belt Clip Selection (Optional) The APX 4000 ships standard with a 2" belt clip (PMLN4651)				
Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	This option deletes the standard belt clip (PMLN4651A) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	This option deletes the standard belt clip (PMLN4651A)	H301	426	(\$10.00)
Programming Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software	Q157	655	\$83.00
Reflective Label (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: REFLECTIVE LABEL	-	QA04776	411	\$11.00
RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$28.00
Service Package Selection (Must Select One) The APX 4000 ships standard with a 12 month warranty				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$194.00
Manual Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	-	QA00205	655	\$0.00
ADD: USER GUIDE APX4000/2000 CD-ROM	-	H88	426	\$28.00
Packaging Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	APX4000 ships standard with bulk packaging. If you require single unit packaging please select this option.	H842	426	\$0.00
Test Results (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

ASTRO® Digital APX 6000
FLASHport® Aftermarket Upgrades

Models				
Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7659	430	\$0.00
DIGITAL CONVENTIONAL	-	T7660	430	\$0.00
ANALOG SMARTZONE	-	T7663	430	\$0.00
DIGITAL SMARTZONE	-	T7664	430	\$0.00
TDMA	-	T7665	430	\$0.00
Options				
Operation Mode				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AL	430	\$651.00
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00
ADD: SMARTZONE OMLINK	-	Q173BD	430	\$253.00
ENH: UPGRADE CONVENTIONAL TO SMART	Compatible with T7659 and T7660.	Q327BK	430	\$1,012.00
ENH: P25 9600 BAUD TRUNKING	Includes SmartZone Omlink (Q173)	Q361AT	430	\$380.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01501663A	QA07682	430	\$0.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00
ENH: MULTICAST VOTING SCAN	-	Q387BA	430	\$253.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ENH: ENHANCEMENT LEVEL 2	-	QA01771AF	430	\$253.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/C51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399AB	430	\$190.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX6000XE and APX6000XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000LI or APX6000LI and SRX2200 AN Models.	QA09001AC	430	\$380.00
ADD: Adaptive Noise Suppression	Adaptive Noise Suppression is only available for FLASHport upgrade on APX6000XE and SRX2200 BN Models. Adaptive Noise Suppression is not available for upgrade on any APX6000LI models, or on APX6000XE and SRX2200 AN Models.	QA09006	430	\$190.00
ADVANCED WACN KEY SUPP DATA	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. A SUPPLEMENTAL ID IS REQUIRED to be entered when this option is ordered. Please be sure the CORRECT SYSTEM ID is entered. If an incorrect ID is entered, FLASHport will need to be ordered to FIX this error. ADVANCED SYSTEM KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA02018AB	430	\$6.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947). includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$443.00

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869CC	430	\$417.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$936.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 6000 P25 Portable Radio P25 Phase 2 Single Band Capable
Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6000 7800 MHZ MODEL 1.5 PORTABLE	-	H88UCD9PW5BN	481	\$3,213.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H88UCF9PW6BN	481	\$3,595.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H88UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98KG9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98KG9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98KH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98GD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98GD9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98OD9PW7BN	481	\$4,104.00
APX6000 UHF R2 MODEL 1.5 PORTABLE	-	H98DD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98DD9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SD9PW7BN	481	\$4,104.00

Operation Modes (Mandatory)

2A: Digital Trunking (SN/SZ P25 Phase 1 Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	481	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

2D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	IF AN INTRINSICALLY SAFE SOLUTION IS REQUIRED THEN PLEASE SEE THE 'UL' REPLACEMENT QA05305 & QA06304	H499	481	\$165.00
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$28.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$28.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.	QA04526	655	\$28.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	481	\$110.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000L, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$83.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 2.5 and 3.5. ONLY Orderable for only H98UCF9PW6BN, H98QDF9PW6BN, H98SDF9PW6BN, H98KGF9PW6BN, H98UCH9PW7BN, H98QDH9PW7BN, H98SDH9PW7BN, H98KH9PW7BN	H46	481	\$83.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Model 3.5 Radios only. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	481	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$220.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE	QA01833	481	\$28.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature, (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY: with radios using tanapac with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00

ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression (Adaptive Audio Engine) is available on APX6000XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000XE and SRX2200 AN Models.	QA09006	579	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Refer to the "Out of the Box Wi-Fi Provisioning" section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001)	QA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: PSU CONV SCAN	-	HA00677AA	579	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

Algorithm Types (one must be selected)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Multkey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option	H797	481	\$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP	Q625	481	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP	Q629	481	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	Required when using more than one encryption algorithm or encryption key	H869	481	\$363.00
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multkey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$385.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	For APX6000LI/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$20.00
ALT: 1/4" WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$26.00
ALT: UHF/R1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$26.00
ALT: UHF/R2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$26.00

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	Requires H499 to be selected. This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07739	673	\$83.00
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07577	481	\$149.00
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T	Requires H499 to be selected. This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07578	481	\$83.00

Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000LI AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	481	\$0.00
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in., Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$13.00

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE_CD APX 7K/6K USER CDROM	-	H88	655	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$11.00

**ASTRO® Digital APX 6000LI
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
TDMA	-	T7813	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7815	430	\$0.00
ANALOG CONVENTIONAL	-	T7816	430	\$0.00
ANALOG 3600 TRUNKING	-	T7817	430	\$0.00
DIGITAL CONVENTIONAL	-	T7818	430	\$0.00

Options
Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$1,012.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$443.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$721.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	Requires Q806/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947), includes MULTIKEY. Tactical OTAR is not compatible with DVRS QA00631.	H04AW	430	\$443.00
ENH: MULTIKEY	-	H869CC	430	\$417.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 6000LI P25 Portable Radio P25 Phase 2 Single Band Capable
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6000 7800 MHZ MODEL 1.5 PORTABLE	-	H88UCD9PW5BN	481	\$3,213.00
APX6000 700800 MODEL 2.5 PORTABLE	-	H88UCF9PW6BN	481	\$3,595.00
APX6000 700800 MODEL 3.5 PORTABLE	-	H88UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H88GD9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H88GF9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H88GH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H88QDD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H88QDF9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H88QDH9PW7BN	481	\$4,104.00
APX6000 UHF R2 MODEL 1.5 PORTABLE	-	H88SDD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H88SDF9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H88SDH9PW7BN	481	\$4,104.00

APX 6000LI Operation Packages (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: 9600 TRUNKING OR 3600 DIGITAL TRUNKING	When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	755	\$1,727.00
ENH: LI DIGITAL CONVENTIONAL	-	Q811	755	\$715.00
ENH: LI ANALOG CONVENTIONAL	-	QA02829	755	\$440.00
ENH: LI ANALOG 3600 TRUNKING	-	Q443	755	\$1,210.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.	QA04526	655	\$28.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$110.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000LI, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$83.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$83.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Model 3.5 Radios only. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	481	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE.	QA01833	481	\$28.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00

ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QAO1843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$83.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/group capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
System Key Software				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
Algorithm Types (Optional)				
All APX 6000LI Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.				
AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM.				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option	H797	481	\$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP	Q625	481	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES AND DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP	Q15	481	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
Multikey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY		H869	481	\$363.00
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$385.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	For APX6000/LI/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$200.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$26.00
ALT: UHF1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$26.00
ALT: UHF2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$26.00
Battery (Optional- Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07577	481	\$149.00
ALT: LI-ION IMPRES 2 4500 MAH UL/CSA (NNTN8921A)	This option will delete the standard battery and replace it with LIION IMPRES 4500MAH (NNTN8921).	QA05575	655	\$165.00
Not Compatible if HAZLOC Certification is Required.				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/LI AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B - Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	481	\$0.00
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in.. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$13.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H865BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE,CD,APX 7K/6K USER CDROM	-	H88	655	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$11.00

ASTRO® Digital APX 6000XE™ Portable Series
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

APX6000 7800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$3,213.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,595.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98KGD9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98KGF9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98KGH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98QDD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98QDF9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98QDH9PW7BN	481	\$4,104.00
APX6000 UHF R2 MODEL 1.5 PORTABLE	-	H98SD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$4,104.00

2: XE Housing (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ENH: APX6000XE RUGGED RADIO	This option will pull in the XE (extreme) control top with larger knobs and a display for fire users. The carry cases are different for this radio so be sure to choose the right APX6000XE case if you do not want to use the plastic carry holder that ships std with the Model 2 and 3 radios. This option will also pull in a UL battery (PMNN4547) and will include radio UL certification. The QA02006 option includes Delta-T standard.	QA02006	756	\$880.00

Operation Modes (Must Select One)

3A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	481	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00

3B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

3C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

3D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

3E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$28.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$28.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.	QA04526	655	\$28.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$110.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000LI, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	Q387	481	\$220.00
ADD: ENHANCED DATA	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Requires Q806 and either H37, H38, or H35.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Compatible on models 1.5, 2.5 and 3.5.	H43	481	\$83.00
ENH: ONE TOUCH STATUS MSG	Compatible with model 3.5 radios only	H46	481	\$83.00
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53	430	\$190.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	470	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$220.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000XE and SRX2200 AN Models.	QA09006	579	\$165.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	QA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
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ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QAO1749. The HARDWARE KEY QAO1648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QAO1648) if required to operate/program on a trunking system. Not compatible with conventional.	QAO1648	655	\$6.00
Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option	H797	481	\$536.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	481	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
Multikey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	481	\$363.00
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multikey. Tactical OTAR is not compatible with DVRs QA00631.	H04	481	\$385.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Incompatible with the H04 option since Tactical OTAR is included with the Q498 option. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QAO7680	655	\$165.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes standard antenna. PMAF4040 (7800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QAO0785	481	\$20.00
ALT: 1/4- WAVE 7800 GPS STUBBY (NAR6595A)	Length: 3.93 in.	H122	481	\$26.00
ALT: UHF R1 GPS STUBBY ANTENNA (FAF5259A)	UHF R1 Models Only	QAO2017	481	\$26.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)	UHF R2 Models Only	QAO2017	481	\$26.00
Battery (Optional - Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QAO7576	673	\$182.00
Not Compatible if HAZLOC Certification is Required.				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/LI AN/BN Models, or the standard LIION IMPRES 2 LIION 3100MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH (PMNN4486). Compatible with all APX6000/XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QAO5570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QAO5571	655	\$127.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QAO5573	655	\$149.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C- Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional- Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	481	\$0.00
ADD: APX6000XE BASIC CARRY HOLDER	This NEW APX6000XE carry holder will ship std on Model 2 and Model 3 radios.	QAO0779	481	\$32.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QAO1222	481	\$13.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE, CD, APX 7K/6K USER CDROM	-	H88	655	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QAO0205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$11.00

**ASTRO® Digital APX 7500
FLASHport® Aftermarket Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7558	430	\$0.00
DIGITAL CONVENTIONAL	-	T7559	430	\$0.00
ANALOG SMARTNET	-	T7560	430	\$0.00
DIGITAL SMARTNET	-	T7561	430	\$0.00
DIGITAL SMARTZONE	-	T7562	430	\$0.00
ANALOG SMARTZONE	-	T7563	430	\$0.00
TDMA	-	T7566	430	\$0.00
Options Operating				
Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE MULTIBAND	-	GA00579AB	430	\$759.00
Operation Mode				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	G808AD	430	\$651.00
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OMNILINK	-	G173	430	\$253.00
ENH: UPGRADE TO SMARTNET MOBILE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartnet.	G346	430	\$633.00
ENH: UPGRADE TO SMARTZONE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartzone.	G347AP	430	\$1,012.00
ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7560 and T7561. Upgrades mobile from Smartnet to Smartzone.	G347AR	430	\$506.00
ENH: ASTRO P25 TRUNK SOFTWARE	includes G/Q173 (Omnilink)	G361AJ	430	\$380.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AB	430	\$569.00
ADD: DVRS MSU ACTIVATION APX MOBILE	-	GA00631AB	430	\$316.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$190.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ENH: MLTCTST VOTNG SCAN-SPECTRA	-	G387AE	430	\$253.00
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (G947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AW	430	\$127.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AB	430	\$190.00
ENH: EXTENDED DISPATCH APX CONSOLETTTE	This option enables the extended dispatch functionality on Conventional Channels ONLY.	GA00469AB	430	\$633.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires G361.	GA01767AH	430	\$127.00

Description	Full Description	Nomenclature	APC	Price
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AW	430	\$316.00
ADD: THIRD PARTY DATA MODEM TETHERING	-	GA09011AB	430	\$127.00
Software				
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
UNDEFINED				
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$83.00
Algorithm Options				
ADD: ENCRYPTION P25 AND MDC OTAR	-	G298AU	430	\$936.00
ENH: MULTI KEY OPERATION	-	W969BJ	430	\$417.00
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00
UNDEFINED				
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	-	G445AB	430	\$190.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
ENH: APX DUAL RADIO SOFTWARE FLP	-	GA01058	430	\$715.00

APX™ 8000 P25 All-Band Portable Radio
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TD9PW5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TD9PW6 N	579	\$7,108.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TD9PW7 N	579	\$7,475.00

Operation Mode (Must Select One)
2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at NO Charge! Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr). Will provide "APX 8000R" nameplate. If a UL Div 2 Battery is required, please order QA07571 or QA07573.	H499	655	\$165.00
ALT:APX 8000 HOUSING GREEN	APX8000XE Housing Green	QA01427	579	\$28.00
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	\$800.00
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	\$800.00
DEL: DELETE VHF BAND	-	QA05508AA	579	\$800.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Now requires a pin # not a dongle.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill Requires AES. Not compatible with DVR MSU QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the "Out of the Box Wi-Fi Provisioning" section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (Wi-Fi)	QA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, Wi-Fi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: BASIC DEVICE COLLABORATION SOFTWARE	Enables collaboration with LEX.	QA03176	655	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: APX GEOFENCE PORTABLE		-	QA04447	655	\$150.00
ADD: PSU CONV SCAN		-	HA00677AA	579	\$0.00
System Key Software (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00	
Algorithm Types(Required)					
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)					
Description	Full Description	Nomenclature	APC	Price	
ENH: DVP-XL ENCRYPTION AND ADP	Multikey is required for use of more than one key. Includes ADP. To be P25 CAP Compliant, must be ordered with AES.	H797	655	\$536.00	
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP	Q625	655	\$659.00	
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00	
ENH: AES/DES-DES-XL-DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms. Includes ADP	Q15	655	\$879.00	
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00	
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP & COM compliant option.	QA05751	655	\$0.00	
Multikey Types (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ENH: MULTIKEY	Required when purchasing more than one encryption algorithm or encryption key? "Requires MultiKey".	H869	655	\$363.00	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00	
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00	
Antenna (Optional)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8V/U) antenna (KT00026A01)	H112LT	579	\$0.00	
Battery (Optional- Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE BATTERY	The option will delete the Li-Ion IMPRES 2 3400mAh (PMNN4486) standard battery for APX 8000 and APX7000L. The option will delete the IMPRES Lilon 3400mAh standard battery (PMNN4504) for APX 8000XE.	H207EY	655	\$0.00	
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00	
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00	
UL Div 2 Batteries (Optional- Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
ALT: BATT IMPRES 2 LIION DIV2 3400	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504).	QA05594	579	\$143.00	
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00	
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 3400	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504). Requires H499.	QA07571	579	\$55.00	
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505). Requires H499.	QA07573	579	\$83.00	
Cable (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00	
Belt Clips (Optional-Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)	
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00	
Packaging (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00	
Service Options (Must Select One)					
Description	Full Description	Nomenclature	APC	Price	
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00	
ENH: 3 YEAR SERVICE FROM THE START COMPREHENSIVE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AE	185	\$326.00	
ENH: 5 YEAR SERVICE FROM THE START LITE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887AY	185	\$224.00	
ENH: SFS COMPREHENSIVE 5 YR	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AK	185	\$504.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00	
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)	
Documentation (Optional)					
Online copies of User Guides can be found in the Resources Tab					
Description	Full Description	Nomenclature	APC	Price	
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00	
ADD: USER GUIDE APX 4XKE/6XKE/7XKE CD-ROM	-	H88	591	\$28.00	

**ASTRO® Digital APX 8000/XE
FLASHport® Aftermarket Upgrades**

Models					
Description	Full Description	Nomenclature	APC	Price	
ANALOG CONVENTIONAL	-	T8549	430	\$0.00	
DIGITAL CONVENTIONAL	-	T8550	147	\$0.00	
DIGITAL SMARTZONE	-	T8553	430	\$0.00	
ANALOG SMARTZONE	-	T8554	430	\$0.00	
TDMA	-	T8627	430	\$0.00	
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AK	430	\$651.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00	

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OMNILINK (NON-P25)	-	Q173AY	430	\$253.00
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	Compatible with T7549 and T7550	Q327BH	430	\$1,012.00
ENH: P25 9600 BAUD TRUNKING	-	Q361AP	430	\$380.00
ENH: TDMA OPERATION	Requires Q808 (Digital), Q327 (Smartzone), Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AB	430	\$569.00
System Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$127.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$127.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX8000/XE and APX6000/XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000/Li or APX6000/XE and SRX2200 AN Models.	QA09001AC	430	\$380.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital).	QA09008	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WIFI (QA09001).	GA09011AB	430	\$127.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00
ADD Frequency Bands				
Description	Full Description	Nomenclature	APC	Price
ENH: 7/800 MHZ BAND FLP	-	QA00569AL	430	\$1,100.00
ENH: VHF MHZ BAND FLP	-	QA00570AN	430	\$1,100.00
ENH: UHF MHZ BAND FLP	-	QA09002AC	430	\$1,100.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869BX	430	\$417.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$936.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$190.00
Software License				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 8000H P25 All-Band Portable Radio
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$7,940.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$8,306.00

Operation Mode (Must Select One)
2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at NO Charge: Q173-Omnilink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2 m, 4 hr) testing. Will provide "APX 8000HR" nameplate.	H499	655	\$165.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	\$800.00
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	\$800.00
DEL: DELETE VHF BAND	-	QA05508AA	579	\$800.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00

ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	QA09011	681	\$110.00

System Key Software (Optional)		Description	Full Description	Nomenclature	APC	Price
		ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

Algorithm Types(Required)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES. Non-P25 CAP Compliant option.	H797	655	\$536.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP (Analog 25 kHz) /DES-OFB (Digital 12.5 kHz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES,DES-XL,DES-OFB AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8V/U) antenna (KT000026A01)	H112LT	579	\$0.00

Battery (Optional- Can Only Select One)
HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07739	673	\$83.00
ADD: BATT IMPRES 2 LIION TIA4950 IP68	Requires H499 This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder, PMLN7901.	H301	655	(\$10.00)

Packaging (Optional)
Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AH	185	\$482.00

Documentation (Optional)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: APX8000H USER GUIDE	-	H88	673	\$28.00

APX™ 8000H with SRX Enhancement P25 All-Band Portable Radio
1: Main Model (Must Select One)
1B: SRX Enhancement Package (Must Select for APX 8000H with SRX Enhancement)

Description	Full Description	Nomenclature	APC	Price
ENH: SRX ENHANCEMENT PACKAGE	Provides for Radio Stun/Kill, Night Vision Goggle Profile, OTAP and the Coyote Brown Housing.	QA02590	673	\$633.00

Operation Mode (Must Select One)
2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK: DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2C: Digital Conventional (P25)
2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2E: Analog Conventional

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW donkle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q347) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the "Out of the Box Wi-Fi Provisioning" section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WIFI (QA09001)	QA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
System Key Software (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
Algorithm Types(Required)				
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES . Non-P25 CAP Compliant option	H797	655	\$536.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP(Analog 25 khz) /DES-OFB (Digital 12.5 khz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES,DES-XL,DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00
Multkey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8V/U) antenna (KT000026A01)	H112LT	579	\$0.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder. PMLN7901.	H301	655	(\$100.00)
Packaging (Optional)				
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
Documentation (Optional)				
Online copies of User Guides can be found in the Resources Tab				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA02025	655	\$0.00

APX™ 8000HXE P25 All-Band Portable Radio
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW4 N	673	\$7,695.00
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$7,940.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$8,306.00

1B: XE Housing (Must Select for APX 8000HXE)

Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00
ENH: APX8000HXE RUGGED RADIO	-	QA02006	673	\$880.00

Operation Mode (Must Select One)
2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806 INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
2E: Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
<i>Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)</i>				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	579	(\$800.00)
System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q47) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$110.00
ADD: ENABLE INTERNAL GPS OPERATION	Must have IV&D (Q847) enabled. Radio requires GPS antenna (NAG4000) when Public Safety Microphone is attached. Please Note: Effective February 22nd, 2016 this model will ship standard with GPS Activation (QA00782).	QA00782	655	\$165.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
Algorithm Types(Required)				
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797	655	\$536.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only) Non-P25 CAP Compliant option. Includes ADP.	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES/DES-XL/DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP & COM compliant option.	QA05751	655	\$0.00
Multkey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 2S OTAR W/ MULTKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ENH: MULTKEY	-	H869	655	\$363.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8V/U) antenna (KT000026A01)	H112LT	579	\$0.00
Battery (Optional- Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ADD: BATT IMPRES 2 LIION TIA4950 IP68	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the XE carry holder, PMLN7954.	H301	655	(\$10.00)
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00
Documentation (Optional)				
Online copies of User Guides can be found in the Resources Tab				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: APX8000H USER GUIDE	-	H88	673	\$28.00

APX™ 8000XE P25 All-Band Portable Radio
1A: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$7,108.00

Updated Pricing for contract 4400016317 as of January 2022

APX 8000 ALL BAND PORTABLE MODEL 3.5			H91TGD9PW7 N	579	\$7,475.00
1B: XE Housing (Must Select for APX 8000XE)					
Description	Full Description	Nomenclature	APC	Price	
ENH: APX8000XE RUGGED RADIO	-	QA02006	581	\$880.00	
Operation Mode (Must Select One)					
2A: Digital Trunking (SN/SZ P25 Phase I Interop)					
Description	Full Description	Nomenclature	APC	Price	
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00	
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at NO Charge! Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00	
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00	
2B: Digital Trunking (SN/SZ)					
Description	Full Description	Nomenclature	APC	Price	
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00	
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00	
2C: Digital Conventional (P25)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00	
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00	
2D: Analog Trunking					
Description	Full Description	Nomenclature	APC	Price	
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00	
ADD: ANALOG OPERATION	-	Q241	579	\$0.00	
2E: Analog Conventional					
Description	Full Description	Nomenclature	APC	Price	
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00	
ADD: ANALOG OPERATION	-	Q241	579	\$0.00	
Options					
3: Housing (Optional-Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00	
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00	
4: Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)	
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	(\$800.00)	
DEL: DELETE VHF BAND	-	QA05508AA	579	(\$800.00)	
5: RFID Enabled Volume Knob (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.	QA04526	655	\$28.00	
6: System Enhancement Options (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00	
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00	
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00	
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00	
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), V&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00	
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00	
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00	
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00	
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00	
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00	
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00	
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00	
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00	
ADD: DATA MODEM TETHERING	Requires QA09001 (Wi-Fi)	QA09011	681	\$110.00	
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, Wi-Fi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00	
7: Advanced System Key (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00	
8: Algorithm Types (Required)					
All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)					
Description	Full Description	Nomenclature	APC	Price	
ENH: DVP-XL ENCRYPTION AND ADP	Multikey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option.	H797	655	\$536.00	
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP	Q625	655	\$659.00	
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00	
ENH: AES/DES-DES-XL-DES-OFB AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	655	\$879.00	
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00	
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP & COM compliant option.	QA05751	655	\$0.00	
9: Multikey Types (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00	
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00	
10: Antenna (Optional)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112LT	579	\$0.00	
11: Battery (Optional)					
Division 2 Approved					
Description	Full Description	Nomenclature	APC	Price	

Updated Pricing for contract 4400016317 as of January 2022

ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00
Not Compatible if Division 2 Certification is Required				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	655	\$0.00
12: Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
13: Belt Clips/Carry Holders (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)
14: Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
15: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AH	185	\$482.00
16: Documentation (Optional)				
Online copies of User Guides can be found in the Resources Tab				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00

APX™ 8000XE P25 All-Band Portable Radio

1A: Main Model (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$7,108.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW7 N	579	\$7,475.00
1B: XE Housing (Must Select for APX 8000XE)				
Description	Full Description	Nomenclature	APC	Price
ENH: APX8000XE RUGGED RADIO	-	QA02006	581	\$880.00
Operation Mode (Must Select One)				
2A: Digital Trunking (SN/SZ P25 Phase I Interop)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK: DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
2B: Digital Trunking (SN/SZ)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
2C: Digital Conventional (P25)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
2D: Analog Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
2E: Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
Options				
3: Housing (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00
4: Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
5: RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX6000, APX7000 & APX8000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios NNTN8646 (APX6000/APX7000/APX8000) and NNTN8647 (APX6000XE/APX7000XE/APX8000XE). See RFID Solution Partner link for information on partners that can provide customers with scanner hardware and back end asset management solutions.	QA04526	655	\$28.00
6: System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00

ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (Wi-Fi)	GA09011	681	\$110.00
7: Advanced System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
8: Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES.	H797	655	\$536.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	(Analog 25 kHz) / DES-OFB (Digital 12.5 kHz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	-	Q629	655	\$523.00
ENH: AES/DES/DES-XL/DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15	655	\$879.00
9: Multikey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
10: Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8V/U) antenna (KT000026A01)	H112LT	579	\$0.00
11: Battery (Optional)				
Division 2 Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00
Not Compatible If Division 2 Certification is Required				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	655	\$0.00
12: Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
13: Belt Clips/Carry Holders (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)
ALT: APX8000XE BASIC CARRY HOLDER	-	QA00779	579	\$32.00
14: Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
15: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	-	Q897	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
16: Documentation (Optional)				
Online copies of User Guides can be found in the Resources Tab				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	-	QA00205	579	\$0.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

**ASTRO® Digital APX 8500
FLASHport® Aftermarket Upgrades**

Models	Description	Full Description	Nomenclature	APC	Price
	ANALOG CONVENTIONAL	-	T8422	430	\$0.00
	DIGITAL CONVENTIONAL	-	T8423	430	\$0.00
	ANALOG SMARTZONE	-	T8424	430	\$0.00
	DIGITAL SMARTZONE	-	T8425	430	\$0.00
	TDMA	-	T8426	430	\$0.00
Radio Management Delivery					
Description	Full Description	Nomenclature	APC	Price	
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00	
Operation Mode Upgrades					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO DIGITAL CAL OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AD	430	\$651.00	
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking. G347. Compatible with T8422, T8423, T8424 models.	G173	430	\$253.00	
ENH: ASTRO P25 TRUNK SOFTWARE	Includes G173 (Omnalink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AJ	430	\$380.00	
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AB	430	\$569.00	
ENH: UPGRADE TO SMARTZONE	Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	G347AP	430	\$1,012.00	
Enable Bands					
Description	Full Description	Nomenclature	APC	Price	
ENH: ENABLE 7/800 FLP	-	GA00244AE	430	\$1,012.00	
ENH: ENABLE VHF FLP	-	GA00306AE	430	\$1,012.00	

ENH: UHF BANDS FLP		-	GA09002AA	430	\$1,012.00
Description	Full Description	Nomenclature	APC	Price	
Dual Radio Operation					
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the O7 control head. Does not include the cables needed to complete the solution.	GA01058	430	\$715.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$190.00	
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering. Requires Remote Mount	GA00631AB	430	\$318.00	
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	If you are connecting your radio directly to a DVR then order GA00631. To move from PSU to MSU requires Depot no flash is available.	QA00631AC	430	\$127.00	
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$190.00	
ENH: FPP & CLONE APX	-	GS3AM	430	\$165.00	
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00	
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00	
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00	
ENH: MLTCTST VOTNG SCAN-SPECTRA	Requires Digital Operation.	G387AE	430	\$253.00	
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	GA01767AH	430	\$127.00	
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital	G445AB	430	\$190.00	
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AW	430	\$127.00	
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$165.00	
ENH: TACTICAL RADIO SOFTWARE	Requires Digital & IV&D. Requires Hardware Encryption. Requires DVN4046B.	H02AH	430	\$95.00	
ADD: WIFI CAPABILITY	-	GA09001AB	430	\$380.00	
ADD: SMARTCONNECT	Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WiFi), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.	GA01630	430	\$0.00	
ADD: MOBILE IMPACT DETECTION FLP	Triggers Emergency when impact or rollover is detected	GA01843AB	430	\$165.00	
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	Requires WiFi Antenna	QA00583AE	430	\$190.00	
Advanced System Key					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
Multikey					
Description	Full Description	Nomenclature	APC	Price	
ENH: MULTI KEY OPERATION	-	V999BJ	430	\$417.00	
ADD: ENCRYPTION P25 AND MDC OTAR	-	C298AU	430	\$936.00	
ADD: TACTICAL OTAR	includes MULTIKEY. Tactical OTAR is not compatible with DVRS QA00631.	H04AX	430	\$443.00	
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00	
Amplifier					
Description	Full Description	Nomenclature	APC	Price	
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$83.00	

ASTRO® Digital APX 8500 Mobile Subscriber
1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX8500 ALL BAND HP MOBILE	APX 8500 HP only comes in remote mount. No mounting option is required.	M37TXS9PW1 N	681	\$6,877.00
APX8500 ALL BAND MP MOBILE	-	M37TSS9PW1 N	681	\$5,667.00

Delete Frequency Bands (Optional. Can select a Maximum of Two)
 Special Note for United States - State & Local Markets: In accordance with FCC mandate, the U1/U2 Mid Power and U17-800 band combinations for this product are restricted to not allow programming for 25 KHz operation. These frequencies are restricted to 12.5 KHz operation only.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands.	GA05509	681	(\$800.00)
DEL: DELETE VHF BAND	-	GA05508	681	(\$800.00)
DEL: DELETE 7/800MHZ BAND	-	GA05507	681	(\$800.00)

2. Mounting (Must Select Either Dash or Remote Mount for APX 8500 MP)

If a remote mount cable other than 5 meters (17ft) is desired for Remote Mount, please reference the "Remote Mount Cables" section.
 The O3 dash and remote mount configurations are the same except that the dash mount configurations do not come with the 17ft extension cable, PMLN4958.

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Not available on APX 8500 HP. Required for Control Station Operation. An O3 Control Head ordered with a Dash Mount Configuration is the same as the O3 Remote Mount configuration, but it does not come with the 17ft extension cable, PMLN4958A.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	Not required for selection on APX 8500 HP. G138 is required for Motorcycle Configuration. Motorcycle Remote Mount Option is \$400 DUP.	G67	656	\$327.00

Motorcycle Mounting (Optional)

HMN1079 (Motorcycle Mic) and HSN4031 (Speaker) are mandatory selections with motorcycle configurations. Motorcycle mount requires the O2, E5, or O7 Control Head and Remote Mount (G67). CAN cables are not compatible with motorcycle. This option includes a weatherized harness. Incompatible with DVRS MSU operation (GA00631)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00

Control Station Operation (Optional)

Mid Power Model Only
 O2, E5 & O7 Control Heads Only. Must select one.
 Requires Dash Mount (G66)
 Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.
 Although the Power Supply is optional, it is needed for a full Control Station solution. The APX 8500 requires a higher capacity power supply KT000254A02.

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	O3 not supported Requires Dash Mount (G66) HLN6042B	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. The APX 8500 requires a higher capacity power supply KT000254A02.	G91	696	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)
O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD: CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD: CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

No Control Head Options

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX MOBILE NO CONTROL HEAD	If you plan to use this model with an O2, E5, O5, O7 Control Head but already have a control head and don't require it, select G88. Requires remote mounting option (G67 or W665).	G88	681	\$0.00
Multi-Control Head Options				
The APX 8500 mobile can support up to four control heads on a single transceiver. This allows control of a single APX 8500 transceiver from two different control head locations. Multi-Control Head options require Remote Mount. When ordering a multi-control head option, only one type of control head can be selected. Only available with O2, E5, O7 Control Heads. Multi-control head options require an equal number of microphones, speakers, and CAN cables. Multi-control head options are incompatible with the multi-radio options.				
ADD: APX DUAL-CONTROL HD HARDWARE	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00
ADD: APX TRI-CONTROL HARDWARE (07 ARABIC)	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 3 for microphones, speakers and CAN cables.	GA00093	656	\$1,100.00
ADD: APX QUAD-CONTROL HARDWARE (07 ARABIC)	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 4 for microphones, speakers and CAN cables.	GA00094	656	\$1,430.00
4. RF Antenna (Required)				
The APX 8500 has one QMA style LMR antenna port. Any additional connections will require vehicle multiplexer EQ000103A02 that allows up to 3 QMA antenna connections. We will offer this multiplexer and Adapters through our Parts Division. Examples are Mini U to QMA CB000091A03, QMA to QMA CB000091A02 and SMA to QMA CB000091A04. Aftermarket Antennas are certified for use on the APX 8500 but do require CB000091A02.				
MULTIPLEXER QMA	Order on a separate line. Provides for EQ000103A02 that allows up to 3 QMA antenna connections.	H1919	681	\$275.00
Must Select One of the Following:				
No Antenna Requested				
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
All-Band Antenna				
ADD: ALL BAND MOBILE ANTENNA (7/8/V/U)	Corresponding kit: AN000131A02. Must be ordered separately if MSU GA00631 is ordered. Multiplexer sold separately as H1919	GA01513	681	\$95.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
Motorcycle Antenna Choices				
Motorcycle radio orders require an antenna selection for each enabled band (UHF R1 and R2 are considered one band) and comes with multiplexer EQ000103A01.				
7/800				
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: AN000197A11	G174	681	\$47.00
ADD: ANT 3DB MCYCLE 762-870MHZ	Corresponding kit number: AN000197A10	G335	681	\$15.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
VHF				
ADD: ANT MTCL 1/4 WAVE WHIP 136-144	Corresponding kit number: AN000197A01 + AN000208A01	GA00510	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 144-150.8	Corresponding kit number: AN000197A02 + AN000208A01	GA00511	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 150.8-162	Corresponding kit number: AN000197A03 + AN000208A01	GA00512	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 162-174	Corresponding kit number: AN000197A04 + AN000208A01	GA00513	681	\$55.00
UHF Antennas				
ADD: ANT MTCL 1/4 WAVE 380-433MHZ	Corresponding kit number: AN000197A05 + AN000208A03	G210	681	\$32.00
ADD: ANT MTCL 1/4 WAVE WHIP 425-470	Corresponding kit number: AN000197A06 + AN000208A01	GA00506	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 450-482	Corresponding kit number: AN000197A07 + AN000208A01	GA00507	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 482-512	Corresponding kit number: AN000197A08 + AN000208A01	GA00508	681	\$55.00
ADD: ANT MTCL LO PRO UNITY 450-512	Corresponding kit number: AN000197A09 + AN000208A03	GA00509	681	\$55.00
Dual Radio Operation Options				
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both radios together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88)	GA01117	656	\$715.00
Dual Radio Options				
ADD: DUAL RADIO STACKABLE MP TRUNNION	If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack mounted installations.	GA01115	656	\$327.00
5. Operation Mode (Must Select One)				
5A: Digital Trunking (SN/SZ P25 Phase 1 Interop)				
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
ENH: SMARTZONE OPERATION APX	Requires G51 & G806. Internally generate G173. APX digital radios require Advanced System Keys (ASK-DVN4046A) to be configured to operate on a trunking system.	G51	656	\$1,650.00
ENH: P25 TRUNKING SOFTWARE APX		G361	656	\$330.00
5B: Digital Trunking (SN/SZ)				
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00
5C: Digital Conventional (P25)				
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
5D: Analog Trunking				
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,650.00
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
5E: Analog Conventional				
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
System Enhancement Options (Optional)				
The APX 8500 comes standard with G170 Radio Trace and G683 Trunked One Touch. The following options are optional and will provide additional capabilities, if required.				
ADD: DVRS MSU ACTIVATION	Allows mobile to host a DVR. Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR. Requires depot to change a mobile from a MSU to PSU.	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU. Please choose correctly. Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00
ADD: PSU CONV SCAN	Requires QA00631	HA00677AA	579	\$0.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), H/V/O (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (GA09012)	GA09012	471	\$165.00
ADD: MULTICAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: TDMA OPERATION APX	When ordering an APX6500U model this option requires QA02756 software package	GA00580	656	\$495.00

ADD: WIFI CAPABILITY	Requires a WiFi antenna. GA09001 enables WiFi capability in the radio which supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using WiFi is desired.	GA09001	681	\$330.00
ADD: DATA MODEM TETHERING	Requires Remote Mount G67; includes GA01545 mutually exclusive with DVR MSU GA00631. Comes with the aftermarket cable: KT000247A01	GA09011	681	\$110.00
ADD: APX8500 ETHERNET MP FACEPLATE	Radio will come with Blank face plate on internal option GA01786 if GA01787 is not added. Data tethering GA09011 is required to enable GA01786 hardware.	GA01787	681	\$275.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WiFi), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.	GA01630	681	\$0.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IVSD, and encryption (not including ADP-only).	H02	481	\$83.00
ADD: MOBILE IMPACT DETECTION	Triggers emergency when an impact or rollover is detected	GA01843	681	\$165.00
DEL: DELETE BLUETOOTH		QA05336	481	\$100.00

6. Feature Antennas

When WiFi GA09001 is selected you must order either a Multi-function (GPS/WIFI/ BT) or individual single function GPS, Wi-Fi/BT antennas.
(Bluetooth requires a WiFi antenna to function).

Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding Kit: Vehicle: AN000163A01 Motorcycle: AN000163A02	GA00250	681	\$110.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	No feature antenna needed.	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kit: PMAN4010 (antenna) & CB000091A04 (QMA to SMA adaptor)	GA01305	656	\$66.00
ADD: NO GPS ANTENNA NEEDED	No GPS Antenna Needed	GA00235	656	\$0.00

WiFi/BT Antennas (Must select one if single function WiFi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT LMR195	Corresponding kit: PMAN5101	GA01579AA	681	\$77.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key (QA01648) can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order QA01648 if it is required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must Select One)

All APX Radios require an encryption selection. QA05751 ADD: "Clear Radio No ADP" is now a \$0 choice. ADD: "ADP Only" G193/Q667 is still a \$0 option. (AES 256 is the only approved encryption algorithm by P25 CAP and SAFECOM)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey (Optional)

All multkey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTKEY	Not compatible with ADP-Only. Includes multkey, trunking OTAR and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased. Requires AES.	G298	656	\$814.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTKEY (G298)	GA01620	656	\$165.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power.	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6169	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	***For Dual/Tri/Quad configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual, tri, or quad control radio*** Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD: USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00

J600 Adapter (Optional)

The APX 8500's new one-sided design removed the J600 port used for DVR and Motorola Siren (SLIM does not require this). Required for remote mount and DVRS support.

Description	Full Description	Nomenclature	APC	Price
ADD: J600 ADAPTER CABLE	Accessory Kit: KT000247A01	GA01515	681	\$105.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD: CABLE URC TO TRANSCIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CGAI connection.	GA00260	656	\$17.00
ADD: REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on O9 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the O3, 07 and O9 Control Heads. Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: CGAI EXTENSION CABLE 2 FT	For use with 07, O9 Control Heads and CGAI style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00

9. Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, CGAI WATER RESISTANT	Corresponding kit: HMN1089A	G892	656	\$79.00
ADD: MODEL III CGAI KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC CGAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: CONTROL STATION DESK CGAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W392	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMN44097	GA01438	656	\$138.00
ADD: VISOR MIC REMOTE MOUNT	Requires No Microphone (G90), and PTT Option. Corresponding Kit Number: RMN5054.	W872	656	\$33.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable. No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle operation.	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry (Optional)

Not Compatible with Motorcycle. Although compatible with dual control head, you must order individual DEK Box Kits separately for each additional control head. You can order one DEK per radio.

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration.	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1836A	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads or W269 Siren/PA or other DEK or Direct Mode Entry Selections. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 16	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Corresponding kit: H1882A.	GA00812	656	\$116.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A.	GA00814	656	\$116.00
ADD: STATUS/MESSAGE 8	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1838A	W355	656	\$523.00
10. Speakers (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031. Must select for motorcycle operation.	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation	G142	656	\$0.00
Auxiliary WILDCARD (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Not compatible with O3 control head or motorcycle.	W591	656	\$182.00
Amplifier				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W112	471	\$73.00
Motorcycle Enclosure				
Required if Motorcycle Configuration requested.				
Description	Full Description	Nomenclature	APC	Price
ADD: WEATHER PROOF HOUSING ENCLOSURE BLACK	Kit number: HLN7022B	W15	656	\$1,320.00
ADD: NO MOTORCYCLE ENCL NEEDED APX	-	W620	656	\$0.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User guides can be viewed on motorolasolutions.com. The option will provide a CD kit.	G657	681	\$28.00
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$119.00
RFID (Optional)				
11. Service Option (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00

APX NEXT Application Services

NOTE: Pricing shown is per month (i.e. Qty 12 = 12 months). Available choices are 12, 36 and 60 months.

Description	Full Description	Nomenclature	APC	Price
APX NEXT SMART PROG	SmartProgramming application service extension beyond the 1st year free trial.	SSV01S01407A	712	\$12.00
APX NEXT SMART CONNECT	SmartConnect application service extension beyond the 1st year free trial.	SSV01S01406A	712	\$12.00
APX NEXT SMART LOCATE	SmartLocate application service extension beyond the 1st year free trial.	SSV01S01476A	712	\$12.00
APX NEXT VIQI	VIQI Virtual Partner application service extension beyond the 1st year free trial.	SSV01S01408B	712	\$12.00

APX NEXT Flashport Upgrade
Software License Delivery (Required)

(Entitlement ID delivered via email)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

Models (Required)

Must Select One

Description	Full Description	Nomenclature	APC	Price
ANALOG SMARTZONE	-	T8675A	430	\$0.00
ANALOG CONVENTIONAL	-	T8672A	430	\$0.00
DIGITAL CONVENTIONAL	-	T8673A	430	\$0.00
DIGITAL SMARTZONE	-	T8674A	430	\$0.00
TDMA	-	T8676A	430	\$0.00

Options
Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: P25 9600 BAUD TRUNKING	-	Q361CF	430	\$380.00
ADD: ASTRO DIGITAL CAI OPTION	-	Q808AM	430	\$651.00
ENH: UPGRADE SMARTNET TO SMARTZONE	-	Q327BM	430	\$1,012.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	-	QA00580BB	430	\$570.00
ADD: SMARTZONE OMNILINK	-	Q173CF	430	\$253.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: MANDOWN OPERATION	-	QA01843AS	430	\$190.00
ADD: VIQI VC RADIO OPERATION	-	QA09028AB	430	\$127.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767BM	430	\$127.00
ADD: MULTICAST VOTING SCAN	-	Q387CC	430	\$253.00

ADD Frequency Bands

Available only for APX NEXT Single Band model (H45)

Description	Full Description	Nomenclature	APC	Price
ENH: VHF MHZ BAND FLP	-	QA00570AX	430	\$2,035.00
ENH: UHF MHZ BAND FLP	-	QA09002AE	430	\$2,035.00
ENH: 7/800 MHZ BAND FLP	-	QA00569AS	430	\$2,035.00
ADD: EXTEND RANGE TO 762-764 MHZ	-	QA07468AC	430	\$0.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869DC	430	\$418.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BP	430	\$936.00

APX NEXT™ All Band
1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT: ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHZ), LTE, WIFI, GPS, BT, IP68	H55TGTPW8AN	437	\$8,241.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase I Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQ VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIPLEKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)
Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)
Select coverage desired after the 12 month DMS promotion
Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.
WARNING: Minimum of DMS SW service contract is required to maintain access to RadioCentral programming tool after the initial 12-month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartInsight will be included standard for 1 full year with all APX NEXT radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Software System Key (QA01749) is the default selection for all APX radios.
APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys.
APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral.
Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00

Antenna (Optional)

APX NEXT ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	450 - 520 MHz	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT ships standard with the LI-ION IMPRES 2 IP68 4400 mAh battery (NNTN9216). You may select an alternate battery from the list below.
NOTE: APX NEXT batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T	NNTN9089 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08510AA	437	\$176.00
ALT: BATTERY LI-ION IMPRES 2 IP68 4400T UL DIV 2	NNTN9217 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 4400mAh Battery	QA08520AA	437	\$154.00
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AA	437	\$198.00

Carry Accessory (Optional)

APX NEXT ships standard with the PLASTIC HOLSTER (PMLN7947A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN7947A APX NEXT PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AE	437	\$0.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5408A 2.75" SWIVEL BELT LOOP	QA00379AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5407A 2.5" SWIVEL BELT LOOP	QA00380AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5409A 3" SWIVEL BELT LOOP	QA07726AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5408A 2.75" SWIVEL BELT LOOP	QA07727AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5407A 2.5" SWIVEL BELT LOOP	QA07728AA	437	\$75.00

Updated Pricing for contract 4400016317 as of January 2022

ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5409A 3" SWIVEL BELT LOOP	QA07729AA	437	\$75.00
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Packaging Selection (Optional)				
APX NEXT ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BR	437	\$0.00
Factory Configuration (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

2. Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361CD	437	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35DD	437	\$880.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: ANALOG OPERATION	-	Q241CB	437	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241CB	437	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35DD	437	\$880.00

3. WiFi Connectivity (Required)

WiFi Capability and Out of Box Provisioning must be selected with APX NEXT family of radios.

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI CAPABILITY	The APX NEXT family of radios can be programmed only wirelessly. The APX NEXT, APX NEXT XE, and APX NEXT XN radios are enabled with LTE service. However, if LTE coverage is not available, the radios can use a preset default Wi-Fi SSID, to wirelessly download radio configurations and updates. * Includes Out of Box Provisioning over WiFi (QA09007)	QA09001AM	437	\$330.00

Encryption Algorithm Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625BK	437	\$659.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797DW	437	\$536.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multikey. If you want to use both algorithms. Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	Q15AU	437	\$879.00
ADD: NO ADP FOR P25 CAP	-	QA05751AF	437	\$0.00

Submersible Selection (Optional)

NOTE: Delta-T is an optional selection for standard APX NEXT models. Delta-T is mandatory when APX NEXT XE rugged option QA02006 is selected.

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr)	H499KC	437	\$165.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580BA	437	\$495.00
ADD: VIQI VC RADIO OPERATION	Use VIQI Voice Control to operate the radio with voice commands. Change Channels and Zones, adjust Volume level, activate Audio Profiles, start/stop Scan, get Battery Level information.	QA09028AA	437	\$110.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399AK	437	\$165.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387CB	437	\$220.00
ADD: MANDOWN OPERATION	If a user becomes incapacitated, and is lying down motionless, an automatic Man Down Emergency Alarm or Emergency Call will be sent out on the programmed talk group.	QA01843AR	437	\$165.00
ADD: DVRS PSU ACTIVATION	Extends Portable Subscriber Unit (PSU) coverage through a Digital Vehicular Repeater System (DVRS) connected to a High Power Mobile radio.	QA00631AL	437	\$110.00
ADD: APX PERSONNEL ACCOUNTABILITY	Using a Systems Definition, Inc. fireground accountability application, incident commanders can easily identify who has responded to the incident, conduct roll-calls, identify a responder's Mayday alarm, issue an evacuation notification even monitor the battery levels of responder's radios or remotely change the radio to a different talkgroup.	Q445BC	437	\$165.00
ADD: DIGITAL TONE SIGNALING	Alert first responders to an incident by broadcasting a series of distinct, recognizable tones followed by a voice transmission from dispatch. Works on P25 conventional or trunked systems, providing digital Quick-Call II operation (identical in operation to the legacy analog version).	QA09000AG	437	\$165.00

APX NEXT™ Single Band

1. Main Model (Required) applicable to Single or Dual Band Configurations

Description	Full Description	Nomenclature	APC	Price
APX NEXT SINGLE BAND MODEL 4.5 PORTABLE	3.6" Touch Display, 17800MHz, VHF, UHF), LTE, WiFi, GPS, BT, IP68	H45GT9PW8AN	142	\$5,121.00

1. a. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1. b. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7800MHZ BAND+	700/800MHz Secondary Band	QA00569AR	142	\$1,100.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$1,100.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$1,100.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase I Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA09580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTKEY (Q498 and H869) • DES-DES-XL-DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with 'one-at-a-time' device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with 'one-at-a-time' device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartInsight will be included standard for 1 full year with all APX NEXT radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00

Antenna (Optional)

APX NEXT ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380-470MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	450-527MHz	QA08247AA	437	\$0.00
ALT: 7800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT ships standard with the LI-ION IMPRES 2 IP68 4400 mAh battery (NNTN9216). You may select an alternate battery from the list below.

NOTE: APX NEXT batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T	NNTN9089 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08510AA	437	\$176.00
ALT: BATTERY LI-ION IMPRES 2 IP68 4400T UL DIV 2	NNTN9217 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 4400mAh Battery	QA08520AA	437	\$154.00
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AA	437	\$198.00

Carry Accessory (Optional)

APX NEXT ships standard with the PLASTIC HOLSTER (PMLN7947A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN7947A APX NEXT PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AE	437	\$0.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5408A 2.75" SWIVEL BELT LOOP	QA00379AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5407A 2.5" SWIVEL BELT LOOP	QA00380AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5409A 3" SWIVEL BELT LOOP	QA07726AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5408A 2.75" SWIVEL BELT LOOP	QA07727AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5407A 2.5" SWIVEL BELT LOOP	QA07728AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE for HIGH CAP BATTERY and PMLN5409A 3" SWIVEL BELT LOOP	QA07729AA	437	\$75.00

Packaging Selection (Optional)

APX NEXT ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in Individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BR	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

APX NEXT™ XE All Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT: ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WiFi, GPS, BT, IP68	H55TGTPW8AN	437	\$8,241.00

1. a. XE Housing (Must Select QA02006 for APX NEXT XE)

Description	Full Description	Nomenclature	APC	Price



Updated Pricing for contract 4400016317 as of January 2022

ADD: APX NEXT XE M4.5 RUGGED RADIO	-	QA02006AE	437	\$770.00
ALT: APX NEXT XE HOUSING GREEN	-	QA01427AK	437	\$28.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SNI/SZ P25 Phase 1 Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q829) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING-SCAN (Q387) • VOI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES, DES-XL, DES-OFB ENCRYPTION (Q825) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

Use the link below to see standalone radio software options. Standalone software options CANNOT be combined with the Core Trunking, Security or Operational Assurance bundles above. [CLICK HERE](#) to see standalone radio software options

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartIntight will be included standard for 1 full year with all APX NEXT XE radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT / APX NEXT XE radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00

Antenna (Optional)

APX NEXT XE ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: STUBBY 7.800MHZ 6CM ANTENNA	-	QA07170AA	437	\$0.00
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY UHF 1.380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2.450-527MHZ 9CM	470 - 520 MHz (when used with APX NEXT XE)	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHZ) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHZ) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT XE ships standard with the LI-ION IMPRES 2 IP68 4400 mAh UL DIV 2 battery (NNTN9217). You may select an alternate battery from the list below.

NOTE: APX NEXT / APX NEXT XE batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2 XE	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AB	437	\$154.00

Carry Accessory (Optional)

APX NEXT XE ships standard with the PLASTIC HOLSTER (PMLN8208A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN8208A APX NEXT XE PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	O698AF	437	\$0.00
DEL: DELETE BELT CLIP/BASIC CARRY XE	This option deletes the APX NEXT XE carry holder, PMLN8208, and belt clip.	H301DJ	437	(\$10.00)

Packaging Selection (Optional)

APX NEXT XE ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BH	437	\$11.00



Updated Pricing for contract 4400016317 as of January 2022

APX NEXT™ XE Single Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT SINGLE BAND MODEL 4.5 PORTABLE	3.6" Touch Display, (7/800MHz, VHF, UHF), LTE, WIFI, GPS, BT, IP68	H45GT9PW8AN	142	\$5,121.00

1. a. XE Housing (Must Select QA02006 for APX NEXT XE)

Description	Full Description	Nomenclature	APC	Price
ADD: APX NEXT XE M4.5 RUGGED RADIO	-	QA02006AE	437	\$770.00
ALT: APX NEXT XE HOUSING GREEN	-	QA01427AK	437	\$28.00

1. b. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1. c. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND+	700/800MHz Secondary Band	QA00569AR	142	\$1,100.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$1,100.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$1,100.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase 1 Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VOI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES-DES-XL-DES-OFB ENCRYPTION (Q825) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartSight will be included standard for 1 full year with all APX NEXT XE radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT / APX NEXT XE radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.0

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00

Antenna (Optional)

APX NEXT XE ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: STUBBY 7.400MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY UHF 1.380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2.450-527MHZ 9CM	470 - 520 MHz (when used with APX NEXT XE)	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT XE ships standard with the LI-Ion IMPRES 2 IP68 4400 mAh UL DIV 2 battery (NNTN9217). You may select an alternate battery from the list below.

NOTE: APX NEXT / APX NEXT XE batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ALT. BATTERY LHON IMPRES 2 IP68 5650T UL DIV 2 XE	NNTN9090 UL2054 DIV 2 IMPRES 2. Llon, IP68, 5650mAh Battery	QA08530AB	437	\$154.00
Carry Accessory (Optional)				
APX NEXT XE ships standard with the PLASTIC HOLSTER (PMLN8208A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.				
Description	Full Description	Nomenclature	APC	Price
ALT. PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN8208A APX NEXT XE PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AF	437	\$0.00
DEL. DELETE BELT CLIP/BASIC CARRY XE	This option deletes the APX NEXT XE carry holder, PMLN8208, and belt clip.	H301DJ	437	(\$10.00)
Packaging Selection (Optional)				
APX NEXT XE ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00
Factory Configuration (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BH	437	\$11.00

APX NEXT™ XN All Band

1. Main Model (Required)				
Description	Full Description	Nomenclature	APC	Price
APX NEXT XN: ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WIFI, GPS, BT, IP68	H55TGU9PW8AN	621	\$10,441.0
1a. Boston Leather Carry Case (PMLN8328)				
NOTE: Motorola has certified the APX NEXT XN radio with the Boston Leather Carry solution for NFPA and FCC compliance purposes. It is currently the only carry solution approved by Motorola for use with the APX NEXT XN radio. The use of non-approved accessories may void the radio's warranty and may affect continued compliance with NFPA standards and FCC regulations. By selecting "No Carry Solution", the customer acknowledges receipt of this Notice				
Description	Full Description	Nomenclature	APC	Price
ADD: LEATHER CARRY CASE XN	PMLN8328A - APX NEXT XN BOSTON LEATHER CARRY CASE	QA08522AA	621	\$114.00
2. Software Bundles (Required)				
Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE APX NEXT XN	Includes: • DIGITAL TRUNKING - SNI/SZ P25 Phase 1 Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028)	BD00004AA	621	\$2,996.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00
3. Device Managed Services 1st Year PROMOTION (Required)				
Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.				
Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartInsight will be included standard for 1 full year with all APX NEXT XN radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNSTC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT XN radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

Based on the purchased option, the instructor led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.0

System Key Software (Optional)

Software System Key (QA01749) is the default selection for all APX radios.

APX NEXT XN radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys.

APX NEXT XN radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral.

Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00
Packaging Selection (Optional)				
APX NEXT XN ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00
Factory Configuration (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

APX NEXT™ XN Single Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT XN: SINGLE BAND MODEL 4.5 PORTABLE	APX NEXT XN Single Band 3.6" Touch Display (7800MHz, VHF, UHF), LTE, WIFI, GPS, BT, IP68	H45TGU9PW8AN	671	\$7,321.00

1. a. Boston Leather Carry Case (PMLN8328)

NOTE: Motorola has certified the APX NEXT XN radio with the Boston Leather Carry solution for NFPA and FCC compliance purposes. It is currently the only carry solution approved by Motorola for use with the APX NEXT XN radio. The use of non-approved accessories may void the radio's warranty and may affect continued compliance with NFPA standards and FCC regulations. By selecting "No Carry Solution", the customer acknowledges receipt of this Notice

Description	Full Description	Nomenclature	APC	Price
ADD: LEATHER CARRY CASE XN	PMLN8328A - APX NEXT XN BOSTON LEATHER CARRY CASE	QA08852AA	621	\$114.00

1. b. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1. c. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7800MHZ BAND+	700/800MHz Secondary Band	QA00569AW	142	\$1,100.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$1,100.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$1,100.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE APX NEXT XN	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase I Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028)	BD00004AA	621	\$2,996.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES.DES-XL.DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'concierge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

SmartSight will be included standard for 1 full year with all APX NEXT XN radios on a preview basis, at no additional charge.

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Device Management Training provides detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT XN radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor-led workshop.

Based on the purchased option, the instructor-led workshop can be delivered in three different ways:

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price

ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00
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Packaging Selection (Optional)
 APX NEXT XN ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BH	437	\$11.00

AIS - Artificial Intelligence Survey
Main Model

Description	Nomenclature	Price
AIS Upgrade	FDKT00338	\$30,000
AIS Software	FSFW00077	\$25,000

**ASTRO²⁵ Trunking
 L NON-REDUNDANT/L REDUNDANT Core Upgrades**
Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L Core Upgrade Configuration	-	SQM01SUM0240	425	\$0.00
ADD: ASTRO 7.14 UPGRADE KEY	-	CA02019AD	425	\$0.00

Step 2: Order Qty 4 Additional DAS HDs for L1 and L2 Cores

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.13 OEM TO 7.15 EMB	-	CA02666AA	382	\$12,800.00
ADD: L UPGRADE CONFIGURATION 7.13 TO 7.15	-	CA02700AA	425	\$130,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02666AA	382	\$12,800.00
ADD: TRUNKING DATA SW UPGRADE 7.15	-	CA01893AE	425	\$9,000.00
ADD: L UPGRADE CONFIGURATION 7.14 TO 7.15	-	CA02701AA	425	\$65,000.00
ADD: SECURITY BUNDLE UPGRADE 7.15	-	CA01895AE	425	\$2,000.00
ADD: RADIO AUTHENTICATION UPGRADE 7.15	-	CA01891AE	425	\$1,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
DAS - PROCESSOR MODULE	-	DLN6879	877	\$7,980.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
FRE: DL380p G8 HC NO DISK	Server used in non-redundant core configurations. One per L1 and M1.	DLN6863	280	\$19,500.00
FRE: DL380p G8 HC 300GB DISK	Used in redundant core configurations. Two per L2, M2, and M3 1st zone and 1 per M3 add-on zone.	DLN6822	280	\$20,000.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
CPH 300 GB HARD DRIVE	-	DLN6844	280	\$411.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00

**ASTRO²⁵ Trunking
 L NON-REDUNDANT/ L REDUNDANT Core - A7.16 New & Expansion**
Required: Order the Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options

Description	Full Description	Nomenclature	APC	Price
ADD: NON REDUNDANT CORE	-	CA02881AA	425	\$110,950.00
ADD: REDUNDANT CORE	Required: Order Rack or Cabinet	CA02882AA	425	\$229,575.00

Required: Order Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Required for Expanding 7.16 systems only	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Required for Expanding 7.15 systems only

NOTE: L to M Migration is ordered on the M-Core 7.16 New Add-on page

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.16 L CORE	Required for L1 to L2 Expansion	CA02648AB	877	\$0.00

Required for L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	Optional: Order System Features	CA02883AA	425	\$150,000.00

Optional: Order System Features

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls Two servers are included with this option.	CA02919AA	877	\$40,000.00
ADD: DYNAMIC TRANSCODER	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls One server is needed for Dynamic Transcoding, which ships as standard on L1/M1. ISSI8000 and Dynamic Transcoding cohab on this server.	CA02834AA	877	\$20,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroups and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Optional: Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	Optional: Order Additional Features	UA00235AA	877	\$250.00



Updated Pricing for contract 4400016317 as of January 2022

Optional: Order Additional Features

Security / IA Package					
Description	Full Description	Nomenclature	APC	Price	
ADD: SECURITY BUNDLE	-	CA01741AE	425	\$20,000.00	
Radio Authentication and Licenses					
Description	Full Description	Nomenclature	APC	Price	
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00	
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00	
ADD: RADIO AUTHENTICATION	-	CA02472AC	877	\$11,300.00	
IPv6					
Description	Full Description	Nomenclature	APC	Price	
IPV6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00	
ADD: IPV6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00	
700/800 Mixed Site					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system buses.	CA01395AA	877	\$15,000.00	
Integrated Data					
Description	Full Description	Nomenclature	APC	Price	
ADD: TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00	
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00	
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone. (Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00	
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00	
ADD: HA TRUNKED INTEGRATED DATA	-	CA02135AC	425	\$85,000.00	
ADD: INTERSYSTEM DATA - CONNECTED CEN	Optional: Configuration Features	UA00163AA	877	\$20,000.00	
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00	
Optional: Configuration Features					
System Management					
Description	Full Description	Nomenclature	APC	Price	
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00	
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00	
Network Management Client					
Description	Full Description	Nomenclature	APC	Price	
ASTRO CLIENT APPL SW 7.16	-	T8206	877	\$850.00	
Network Management					
Description	Full Description	Nomenclature	APC	Price	
ADD: DYNAMIC REPORTS	-	UA00150AA	877	\$15,000.00	
ADD: ZONE HISTORICAL RPTS	-	UA00144AA	877	\$5,000.00	
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00	
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00	
ADD: AFFILIATION USER RPTS	-	UA00151AA	877	\$7,000.00	
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00	
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00	
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00	
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00	
UEM					
Description	Full Description	Nomenclature	APC	Price	
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00	
ADD: UEM ENHANCED NAVIGATION	Order one per zone	UA00225AA	877	\$50,000.00	
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00	
ADD: MICROWAVE MAP AND SEGMENT VIEW	Order one per zone.	UA00226AA	877	\$12,000.00	
ATIA					
Description	Full Description	Nomenclature	APC	Price	
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00	
ENH: TECHNICAL ASSISTANCE, TEN HOURS	This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00103AA	285	\$3,000.00	
CADI					
Description	Full Description	Nomenclature	APC	Price	
ENH: TECHNICAL ASSISTANCE, FORTY HRS	This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00104AA	285	\$12,000.00	
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00	
Email Alarm Notifications & Northbound Interface					
Description	Full Description	Nomenclature	APC	Price	
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00	
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00	
Terminal Server					
Description	Full Description	Nomenclature	APC	Price	
ADD: TERMINAL SERVER	Optional: Order Encryption	CA01750AA	425	\$6,500.00	
Optional: Order Encryption					
GGM 8000 Encryption					
Description	Full Description	Nomenclature	APC	Price	
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00	
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00	
Optional: SMART-X Licenses					
Description	Full Description	Nomenclature	APC	Price	
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00	
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00	
Optional: Order Licenses					
Dynamic Transcoding					
Description	Full Description	Nomenclature	APC	Price	
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00	
P25 TDMA Licenses					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00	



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC TG ASNMT SITE LIC	-	UA00160AA	877	\$18,000.00
Conventional Talkgroup License				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
Additional Console Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00
Additional Radio User Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: 500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
Enhanced Data Users				
Description	Full Description	Nomenclature	APC	Price
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone. (Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00
Optional: Order Anti-Virus				
Anti-Virus / Anti Malware				
Description	Full Description	Nomenclature	APC	Price
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
ADD: AC POWER	Additional Resources	CA01616AA	147	\$0.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRU: DL380-GX 1.2TB 6G SAS 10K5FF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA/MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

ASTRO[®] 25 Trunking
L NON-REDUNDANT/L REDUNDANT Core - A7.16 Upgrades

CORE UPGRADE REQUIREMENTS

Required: Order the Core Redundant or Non-Redundant Core

Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L-CORE UPGRADE CONFIGURATION	-	SQM01SUM0290	877	\$0.00
ADD: UPGRADE A7.16	-	CA02921AA	425	\$0.00

Step 2: Order Qty 4 Additional HD for DAS if upgrading 7.14 L1 or L2 Core. Order Qty 2 Additional HD for DAS if upgrading 7.15 L1 or L2 Core.

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02925AA	425	\$6,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02924AA	425	\$6,000.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02923AA	425	\$130,000.00
ADD: TRUNKING DATA SW UPGRADE 7.16	-	CA02926AA	425	\$9,000.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14, 15 TO 16	-	CA02908AA	382	\$12,800.00
ADD: RADIO AUTHENTICATION UPGRADE 7.16	-	CA02927AA	425	\$1,000.00
ADD: SECURITY BUNDLE UPGRADE 7.16	-	CA02928AA	425	\$2,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02922AA	425	\$130,000.00
ADD: NORTHBOUND INTERFACE UPGRADE	-	CA02910AA	877	\$5,000.00

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DL380-GX 1.2TB 6G SAS 10K5FF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA/MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

ASTRO[®] 25 Trunking
L NON-REDUNDANT/ L REDUNDANT Core – A7.17 New & Expansion

Required: Order the Core

Order the Supermodel

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options



Updated Pricing for contract 4400016317 as of January 2022

Both options are required for an L1.

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AB	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AA	425	\$84,950.00

Both options are required for an L2.

Description	Full Description	Nomenclature	APC	Price
ADD: L2 REDUNDANT HW	-	CA03112AA	425	\$103,575.00
ADD: L2 REDUNDANT SW	-	CA02882AB	425	\$231,000.00

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Expanding 7.17 system	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Expanding 7.17 system

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION OFF L CORE CAPABILITIES - FEATURE	L1 to L2 Expansion	CA02648AC	425	\$0.00

L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	-	CA02883AA	425	\$150,000.00

Capacity Licenses

P25 FDMA/TDMA Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: P25 PHASE 2 TDMA TRNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: PHASE 2 DYNAMIC TG ASSIGNMT SITE LIC	-	UA00160AA	877	\$18,000.00

Additional Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Each option ordered provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system.	UA00664AA	877	\$1,000.00

Integrated Data

Integrated Data Site Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00

Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD: TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ADD: HA TRUNKED INTGRD DATA	-	CA02135AC	425	\$85,000.00
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone. (Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00

Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

System Features

Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Location on PTT

Description	Full Description	Nomenclature	APC	Price
ADD: LOCATION ON PTT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00

Interference Locator

Description	Full Description	Nomenclature	APC	Price
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	-	CA02919AB	877	\$40,000.00
ADD: DYNAMIC TRANSCODER M1/L1	-	CA02834AB	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Security / IA Package

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AF	425	\$20,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.17.3)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AA	877	\$80,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	This option is required when "Host-Based CSMS" (CA03584AB) is ordered. Must order (1) for each Windows device in the system.	UA00726AA	877	\$200.00

Radio Authentication and Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION	-	CA02472AD	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00

IPv6

Description	Full Description	Nomenclature	APC	Price
IPv6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00
ADD: IPv6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00

700/800 Mixed Site

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busts.	CA01395AA	877	\$15,000.00

Configuration Features

System Management

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
Network Management Client				
Description	Full Description	Nomenclature	APC	Price
ASTRO 7.17 CLIENT	-	T8363	877	\$850.00
Z2 MINI WORKSTATION 258G 8G NON RET	Note: Due to its small form factor, the workstation computer does not contain a built-in DVD drive. Please make sure to order at least one USB External DVD Drive for each location for use in upgrades and replacing hard drives	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00
Network Management				
Description	Full Description	Nomenclature	APC	Price
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license	UA00150AA	877	\$15,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
UEM				
Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View license Order one per zone	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ATIA				
Description	Full Description	Nomenclature	APC	Price
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00103AA	285	\$3,000.00
CADI				
Description	Full Description	Nomenclature	APC	Price
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00104AA	285	\$12,000.00
Email Alarm Notifications & Northbound Interface				
Description	Full Description	Nomenclature	APC	Price
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00
Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	Encryption	CA01750AA	425	\$6,500.00
Encryption				
GGM 8000 Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
SMART-X Licenses				
Description	Full Description	Nomenclature	APC	Price
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00
Anti-Virus				
Step 10: Anti Malware				
Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
1.2 TB HARD DRIVE	Replaced DLN6970A	DLN6942	454	\$1,750.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
FRE: DL380 G9 900GB DISK WD2	-	DLN7009	877	\$26,166.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRE: DL380 G9 HC 600 GB DISK	-	DLN6976	877	\$20,725.00
IP PACKET CAPTURE EXPANSION	ISSI/Dynamic Transcoder Server	-	877	\$20,725.00
CABLE, DATA-MINI-SAS TO MINI-SAS HD, LENGTH 1M	-	T8303	877	\$0.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00

**ASTRO 25 Trunking
L-Core Non-Redundant / L-Core Redundant**
ORDER THE MAIN MODEL

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

CHOOSE NON-REDUNDANT OR REDUNDANT FOR A NEW CORE OR CHOOSE EXPANSION

Both options are required for a Non-Redundant L-Core

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AC	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AB	425	\$84,950.00
Both options are required for a Redundant L-Core				
ADD: L2 REDUNDANT SW	-	CA02882AC	425	\$231,000.00
ADD: L2 REDUNDANT HW	-	CA03112AB	425	\$103,575.00
This option is required to add options to an existing L-Core				
ADD: EXPANSION OFF L-CORE CAPABILITIES - FEATURE	-	CA02648AD	425	\$2,000.00
SELECT RACK OR CABINET FOR A NEW CORE				
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00
SELECT OPTIONAL SYSTEM LICENSES				
ADD: DYNAMIC TRANSCODER M1	-	CA02834AC	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
ADD: RADIO AUTHENTICATION	-	CA02472AE	877	\$11,300.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00
Refer to Ordering Guide if ordering Personnel Accountability. Additional items are needed for a full solution.				
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00
Location Features				
ADD: LOCATION ON FT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00
ENH: GESELECT	MISSION CRITICAL GESELECT. Order one per system.	UA00486AA	877	\$40,000.00
SITE LICENSES				
1 FDMA license is included standard. Order additional as needed for each FDMA site				
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
1 TDMA Site License is included standard. Order additional as needed for each TDMA site. Also order TDMA per channel and Dynamic Dual Mode licenses as needed.				
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC TG ASNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
Mandatory: Order Classic Data for every site in the system. One license is included standard. Optional: Order Enhanced Data per site as needed.				
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,640.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00
ADD: 700/800 MIXED SITE OPERATION	-	CA01395AA	877	\$15,000.00
CAPACITY LICENSES				
ADD: CONVENTIONAL TALKGROUPS CORE	-	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSICSSI	-	UA00223AA	226	\$20,000.00
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	-	UA00156AA	877	\$5,000.00
ADD: 500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	-	UA00664AA	877	\$1,000.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00
User Login Alias Update				
ADD: USER LOGIN ALIAS UPDATE	-	UA00533AA	591	\$5,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
OPTIONAL SECURITY				
ADD: SECURITY BUNDLE	-	CA01741AG	425	\$20,000.00
HIGH AVAILABILITY				
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AC	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
OPTIONAL NETWORK MANAGEMENT APPLICATIONS				
1 UNC, 1 Provisioning Manager, and 1 UEM license are already included standard				
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: PROVISIONING MANAGER INTERFACE	-	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
ADD: DYNAMIC REPORTS	Includes 1 license for Affiliation User Reports	UA00150AA	877	\$15,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: FLEXIBLE ATIA	-	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	-	ZA00103AA	285	\$3,000.00
ADD: CADI SOFTWARE OPTION	-	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00104AA	285	\$12,000.00
ADD: EMAIL ALARM NOTIFICATIONS	-	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	-	UA00139AA	877	\$15,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map and Segment View	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports	UA00141AA	877	\$25,000.00
Network Management Client				
ASTRO 7.18 CLIENT	-	T8538	877	\$850.00
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSC 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
Terminal Server				
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00
Encryption				
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00
Order Anti Malware				
ADD: ANTI-MALWARE DEF UPDATE LIC	-	CA02193AA	877	\$165.00

**ASTRO 25 Outdoor Location Solution
GPS Hardware**

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

SPKR MIC NON-SUBMSBL GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00
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GPS for Mobile Radios:

Step 1:

Order a Cellocator Olympic for ASTRO GPS Dashmount Installation Kit (one kit is required per mobile radio):

Description	Full Description	Nomenclature	APC	Price
ASTRO CELLOCATOR OLYMPIC DM GPS KIT	-	HKCN4001B	222	\$495.00

OR

Order a Cellocator Olympic for ASTRO GPS Roofmount Installation Kit (one kit is required per mobile radio):

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR ASTRO EXT GPS KIT	-	HKLN4474	222	\$575.00

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR EXTERNAL MOUNT GPS ANT	This item is for the Cellocator External Antenna only and is to be ordered to convert an existing Dashmount installation to a Roofmount installation.	HKAN4001	222	\$150.00

Step 2:

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR PROGRAMMING KIT	Recommended to order 1 programming kit per 20 Cellocator Hardware models ordered.	HK1613B	222	\$45.00

ASTRO 25 Outdoor Location Solution

Application Programming Interfaces (APIs) for Unified Network Services (UNS)

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 LOCATION HPD MDT SDK	-	DVN1422B	222	\$50.00

ASTRO®

Digital Interface Unit (DIU) 3000 Refurbished

Models

Description	Full Description	Nomenclature	APC	Price
DIU3000 REFURBISHED	-	HKUN4101	643	\$5,000.00

Accessories

Cables

Description	Full Description	Nomenclature	APC	Price
ASTRO BATTERY REVERT CABLE	-	FKN4095A	454	\$68.50
ADAPTOR BOX	For remote DIU link to the RNC3000 for ASTRO Systems. If the DIU3000 uses the 'W' cable, this MUST be replaced with this kit.	FLN5462	454	\$115.00

Power Supply

Rack Mounting

Description	Full Description	Nomenclature	APC	Price
RACK 7.5' OPEN	-	THN1013	454	\$495.00

Software

Description	Full Description	Nomenclature	APC	Price
DIU Configuration Service Software	DIU 3000 CSS is certified to operate only on Windows 2000 OS and Windows XP OS. It is compatible with DIU 3000 host version DIUSR 5.24 or higher.	DLN6570	371	\$25.00

Modem (Wireline Options)

Description	Full Description	Nomenclature	APC	Price
FRU ASTRO MODEM	When ordered with T5365, T5589, T5367, and T5770	TLN3265	454	\$2,500.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
CONSOLE WIRELINE BOARD	-	FLN6518	454	\$413.00

ASTRO® Digital Interface Unit (DIU)

Crypto Module (CM)

DIU CM FLASHport®

Universal Crypto Module (UCM) Upgrades

Software

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	-	CA00147AA	443	\$50.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP XL ENCRYPTION KIT	-	CA00146AB	509	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AB	509	\$750.00
ADD: ADP ENCRYPTION SOFTWARE	-	CA00274AA	595	\$300.00
ADD: AES ENCRYPTION KIT	Requires DIU Host Software Release 6.15 or later (2002 or later).	CA00182AD	547	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AB	509	\$750.00
ADD: DVI XL ENCRYPTION KIT	-	CA00145AB	509	\$750.00

ASTRO® DIU ENCRYPTION Refurbished

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
DIU3000 Encryption	-	HKUN4102	643	\$2,000.00

ASTRO®

Digital Interface Unit (DIU)

FLASHport® Aftermarket Upgrades

Models

Description	Full Description	Nomenclature	APC	Price
ASTRO DIU TRUNK SOFTWARE UPGRADE	For conventional customers wanting to upgrade to trunked software, this model is required.	F2047	524	\$700.00
ASTRO DIU CONVENTIONAL S W UPGRADE	-	F2046	509	\$700.00

ASTRO 25 Conventional

7.18 K Core

Configuration

Choose the Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

Choose the Main Model and option for Expanding an existing A7.18 K Core

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: K-CORE EXPANSION 7.18	-	CA03201AB	425	\$0.00

Add Multiple Hub Site System

Description	Full Description	Nomenclature	APC	Price
ADD: MULTI-HUB SYSTEM	-	CA08240AA	877	\$9,000.00



Updated Pricing for contract 4400016317 as of January 2022

Order OPTIONAL UEM Fault Management and/or Integrated Data

Application server hardware is required if UEM Fault Management or Integrated Data is ordered

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AC	425	\$20,000.0
UEM Fault Management. See Ordering Guide for how to order				
Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.0
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.0
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.0
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.0
Conventional Integrated Data				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AG	405	\$75,450.0
Link Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.0
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00
Data Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.0
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.0
Firewall				
Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.0
Backhaul Switch				
Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.0
Choose Rack or Cabinet				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.0
ACCESSORIES / FRUs				
Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.0
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.0
FRE: DL380 G9 LC 600 GB DISK	-	DLN6977	877	\$14,586.0
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

**ASTRO 25 Conventional
2019.2 K-Core**

Configuration

Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX 345 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.0
Add Redundancy				
Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	Choose CA02259AA in addition to SQM01SUM0237A for a redundant core. This will generate the following additional equipment: the redundant GCP 8000 Site Controller chassis with the "Site Controller 2" module, the redundant SRX 345 Hub Router, the redundant Aruba 2930-24 Core LAN switch with 2 DAC cables, and all associated software.	CA02259AA	425	\$20,000.0
Choose this Main Model for an Expansion to an existing K-Core				
Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION	-	CA03201AC	425	\$0.00
Add Multiple Hub Site System				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTI-HUB SYSTEM	-	CA08240AA	877	\$9,000.0
Add UEM Fault Management and / or Integrated Data				
Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AE	425	\$20,000.0
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.0
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.0
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.0
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AH	405	\$75,450.0
Link Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION SRX ROUTER	-	CA03587AA	147	\$1,500.0
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER	-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.0
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00
Data Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.0
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.0
Firewall				
Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.0
Backhaul Switch				
Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.0
Rack or Cabinet (required)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.0
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.0
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.0
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.0
FRU: DL380 G10 POWER SUPPLY	-	DLN6006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

**ASTRO 25 Conventional
Release 2020.1 K-Core**

Configuration

Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
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SINGLE ZONE CONV NON-RED CORE		This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX345 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.00
Add Redundancy					
Description		Full Description	Nomenclature	APC	Price
ADD: Redundancy		Choose CA02259AA in addition to SQM01SUM0237A for a redundant core. This will generate the following additional equipment: the redundant GCP 8000 Site Controller chassis with the "Site Controller 2" module, the redundant SRX345 Hub Router, the redundant Aruba 2930-24 Core LAN switch with 2 DAC cables, and all associated software.	CA02259AA	425	\$20,000.00
Choose this Main Model for an Expansion to an existing K-Core					
Description		Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion		-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION		Expansion for ASTRO 2020.1 System Release	CA03201AC	425	\$0.00
Add Multiple Hub Site System					
Description		Full Description	Nomenclature	APC	Price
ADD: MULT-HUB SYSTEM		-	CA08240AA	877	\$9,000.00
Add UEM Fault Management and / or Integrated Data					
Description		Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER		-	CA02258AE	425	\$20,000.00
ADD: CONVENTIONAL INTEGRATED DATA		-	CA01740AJ	405	\$75,450.00
ADD: UEM LITE SESSION		-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW		-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION		-	UA00256AA	877	\$5,000.00
Link Encryption					
Description		Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER		-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER		-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)		-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA		-	CA02134AA	147	\$500.00
Data Encryption					
Description		Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION		-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION		-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT		-	CA00143AD	137	\$750.00
Terminal Server					
Description		Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER		-	CA01750AA	425	\$6,500.00
Firewall					
Description		Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance		-	CA02635AA	425	\$3,300.00
Backhaul Switch					
Description		Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH		-	CA01896AB	425	\$2,250.00
Rack or Cabinet (required)					
Description		Full Description	Nomenclature	APC	Price
ADD: RACK		-	CA01863AB	183	\$495.00
ADD: CABINET		-	CA01664AB	183	\$3,000.00
Accessories / FRUs					
Description		Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH		-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE		-	CLN1866	147	\$200.00
FRU: POWER SUPPLY		-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE		-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY		-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION		-	T8303	877	\$0.00

ASTRO 25 Conventional Release 2021.1 K-Core
Configuration

Choose this Main Model for a new K-Core

SINGLE ZONE CONV NON-RED CORE		This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX345 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.00
Add Redundancy					
Description		Full Description	Nomenclature	APC	Price
ADD: Redundancy		Choose CA02259AA in addition to SQM01SUM0237A for a redundant core. This will generate the following additional equipment: the redundant GCP 8000 Site Controller chassis with the "Site Controller 2" module, the redundant SRX345 Hub Router, the redundant Aruba 2930-24 Core LAN switch with 2 DAC cables, and all associated software.	CA02259AA	425	\$20,000.00
Choose this Main Model for an Expansion to an existing K-Core					
Description		Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion		-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION		Expansion for ASTRO 2021.1 System Release	CA03201AC	425	\$0.00
Add Multiple Hub Site System					
Description		Full Description	Nomenclature	APC	Price
ADD: MULT-HUB SYSTEM		-	CA08240AA	877	\$9,000.00
Add UEM Fault Management and / or Integrated Data					
Description		Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER ESXI 7		-	CA02258AE	425	\$20,000.00
ADD: CONVENTIONAL INTEGRATED DATA		-	CA01740AJ	405	\$75,450.00
ADD: UEM LITE SESSION		-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW		-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION		-	UA00256AA	877	\$5,000.00
Link Encryption					
Description		Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER		-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER		-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)		-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA		-	CA02134AA	147	\$500.00
Data Encryption					
Description		Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION		-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION		-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT		-	CA00143AD	137	\$750.00
Terminal Server					
Description		Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER		-	CA01750AA	425	\$6,500.00
Firewall					
Description		Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance		-	CA02635AA	425	\$3,300.00
Backhaul Switch					
Description		Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH		-	CA01896AB	425	\$2,250.00
Rack or Cabinet (required)					
Description		Full Description	Nomenclature	APC	Price
ADD: RACK		-	CA01863AB	183	\$495.00
ADD: CABINET		-	CA01664AB	183	\$3,000.00
Accessories / FRUs					
Description		Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH		-	CLN1868	147	\$2,500.00

FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

ASTRO 25 Release 2020.HS
ASTRO 25 MASTER SITE
New Orders and Expansions

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE		SQM015UM0323	877	\$0.00
ADD: A2020.HS	This option must be ordered for ASTRO 2020.HS System Release	UA00744AA	877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 license each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03515AB	877	\$280,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03516AB	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2020.1 systems	CA03517AC	877	\$0.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY				
Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00
STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE				
Operational Licenses, Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00
Operational Licenses, Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.00
Console Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00156AA	877	\$5,000.00
DSR Notification				
Description	Full Description	Nomenclature	APC	Price
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.00
Added Capacity: LAN Switch, Edge Routers or Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00
Encryption and FIPS				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00
STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS				
User Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: 500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00
OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES				
System Management: Provisioning and Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AF) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00
System Management: Performance and Accounting				
Description	Full Description	Nomenclature	APC	Price
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
Radio Authentication				
Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM	CA02472AF	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00
Host-Based CSMS				
Description	Full Description	Nomenclature	APC	Price

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: HOST-BASED CSMS (A2020.1)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AD	877	\$85,000.0
ADD: HOST BASED CSMS DEVICE LICENSES	Required when "Host-Based CSMS" (CA03584AD) is ordered. Must order (1) for each Windows device in system.	UA00726AA	877	\$200.00
Location Services				
Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00
ENH: GEOSELECT	MISSION CRITICAL GEOSELECT. Order one per system. Provides the capability for a subscriber radio to take actions based on movement into or out of a Geo Fence. Moves the intelligence and control of Geo Fence inside/outside status based commands from the Mapping Application to the radio to enable actions in real time. The radio takes actions when a boundary is crossed, rather than awaiting commands from the mapping application. Increases the safety and productivity of field personnel by providing immediate and hands free automated talkgroup selection and other radio actions when crossing into or out of a defined incident area. Requires CommandCentral Locate or 3rd party mapping application and IMW with Presence, Location, and GeoFence. APX Radio requires Mission Critical GeoFence and GPS. Order one per system.	UA00486AA	877	\$40,000.0
Group Services				
Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed.	UA00700AA	877	\$10,000.0
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00
Conventional Talkgroups				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.0
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.0
SmartConnect				
SmartConnect requires Application Subscription. Refer to SmartConnect End-to-End Ordering Guide for full solution ordering and deployment details				
Personnel Accountability				
Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page: https://www.motorolasolutions.com/en_us/product-catalog/ref-page-display.html?refPath=/catalog/dup/products/apx_personnel_accountability/apx_personnel_i				
Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.0
Site Selectable Trunking Alerts				
Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.0
Two-Factor Authentication				
Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE-FORTITOKEN PACK	-	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$272.00
OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES				
Dynamic Transcoding				
Both options are required.				
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.0
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.0
Security				
Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.0
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00
High Availability				
Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.0
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.0
System Management: Provisioning and Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.0
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.0
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.0
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.0
System Management: Fault Management				
Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.0
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.0
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.0
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.0
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.0
System Management: Performance and Accounting				
Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.0
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.0
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.0
SAP CRYSTAL REPORTS 2016	-	DDN3135	708	\$930.00
ADD: FLEXIBLE ATA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.0
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.0
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.0
Order the Client Workstation				
Description	Full Description	Nomenclature	APC	Price
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00
ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)				
STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)				
Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	Can be ordered on any zone (up to six zones max). NOTE: You must order DSR System Notification (CA01499AB) on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For software redundancy also order REDUNDANCY, CA03512AB. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports.	CA03520AB	877	\$280,000.0

Updated Pricing for contract 4400016317 as of January 2022

ADD: DSR ADD-ON ZONE	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 48-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03519AB	877	\$460,000.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)				
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
ADD: RACK			877	\$0.00
ADD: CABINET			877	\$3,000.00
STEP 5: ORDER OPTIONAL LICENSES				
If option was ordered for Primary Core, must also be ordered for Backup (DSR) Core.				
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPM's, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
ADD: HOST-BASED CSMS (A2020.1)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AD	877	\$85,000.00
Added Capacity: LAN Switch, Edge Routers or Terminal Server				
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00
Encryption and FIPS				
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00
FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)				
DL380 G10 Server:				
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	-	T8750	877	\$0.00
4525/4125 Direct Attached Storage:				
FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODULE	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA, CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M*	For 4524 and 4525 DAS models	CKN6975	877	\$130.00
Transport:				
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00

ASTRO 25 Release 2020.1
ASTRO 25 MASTER SITE (Replacement for L-Core and M-Core / SRC 7500)
New Orders and Expansions

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)				
ASTRO MASTER SITE			877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 16-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 licence each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03515AB	877	\$280,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-Port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03516AB	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2020.1 systems	CA03517AC	877	\$0.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY				
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
Options include mounting hardware for all standard core components				
ADD: RACK			877	\$0.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: CABINET		-	CA03508AA	877	\$3,000.00
STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE					
Operational Licenses, Trunking					
Description	Full Description	Nomenclature	APC	Price	
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00153AB	877	\$30,000.0	
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00159AB	877	\$30,000.0	
ADD: PHASE 2 DYNAMIC TG ASNMT SITE LIC	-	UA00160AA	877	\$18,000.0	
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00	
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00	
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00	
Operational Licenses, Conventional					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.0	
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.0	
Console Licenses					
Description	Full Description	Nomenclature	APC	Price	
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00156AA	877	\$5,000.00	
DSR Notification					
Description	Full Description	Nomenclature	APC	Price	
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.0	
Added Capacity: LAN Switch, Edge Routers or Terminal Server					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00	
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.0	
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00	
Encryption and FIPS					
Description	Full Description	Nomenclature	APC	Price	
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00	
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00	
STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS					
User Licenses					
Description	Full Description	Nomenclature	APC	Price	
ADD: 500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00	
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00	
OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES					
System Management: Provisioning and Configuration					
Description	Full Description	Nomenclature	APC	Price	
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00	
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AF) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.0	
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00	
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.0	
System Management: Performance and Accounting					
Description	Full Description	Nomenclature	APC	Price	
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.0	
Radio Authentication					
Description	Full Description	Nomenclature	APC	Price	
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.0	
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00	
Location Services					
Description	Full Description	Nomenclature	APC	Price	
ADD: LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00	
ENH: GEOSELECT	MISSION CRITICAL GEOSELECT. Order one per system. Provides the capability for a subscriber radio to take actions based on movement into or out of a Geo Fence. Moves the intelligence and control of Geo Fence inside/outside status based commands from the Mapping Application to the radio to enable actions in real time. The radio takes actions when a boundary is crossed, rather than awaiting commands from the mapping application. Increases the safety and productivity of field personnel by providing immediate and hands free automated talkgroup selection and other radio actions when crossing into or out of a defined incident area. Requires CommandCentral Locate or 3rd party mapping application and IMW with Presence, Location, and GeoFence. APX Radio requires Mission Critical GeoFence and GPS. Order one per system.	UA00486AA	877	\$40,000.0	
Group Services					
Description	Full Description	Nomenclature	APC	Price	
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed	UA00700AA	877	\$10,000.0	
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00	
Conventional Talkgroups					
Description	Full Description	Nomenclature	APC	Price	
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.0	
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.0	
Personnel Accountability					
Description	Full Description	Nomenclature	APC	Price	
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.0	
Site Selectable Trunking Alerts					
Description	Full Description	Nomenclature	APC	Price	
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.0	
Two-Factor Authentication					
Description	Full Description	Nomenclature	APC	Price	
PURCHASED SOFTWARE FORTITOKEN PACK	-	DDN1933	708	\$560.00	
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$272.00	
OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES					
Dynamic Transcoding					
Both options are required.					
Description	Full Description	Nomenclature	APC	Price	
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.0	
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.0	
Security					
Description	Full Description	Nomenclature	APC	Price	

ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
QNAP QUAD CORE BAY DRIVE WITH 4 64MB HDD	Can be used in place of backing up files to DVD. Useful on systems that require regular backup and offsite storage of BAR data.	DSTS453DAGUSNAS	708	\$2,917.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00
High Availability				
Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
System Management: Provisioning and Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.00
System Management: Fault Management				
Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00
System Management: Performance and Accounting				
Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.00
SAP CRYSTAL REPORTS 2016	-	DN3135	708	\$930.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.00
ADD: CAD SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00
Order the Client Workstation				
Description	Full Description	Nomenclature	APC	Price
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00
ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)				
STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)				
Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	DSR System Notification (CA01499AB) must be ordered on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server, iSGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For software redundancy also order REDUNDANCY, CA03512AB. *Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03520AB	877	\$280,000.00
ADD: DSR ADD-ON ZONE	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 16-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. *Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03519AB	877	\$460,000.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)				
Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00
STEP 5: ORDER OPTIONAL LICENSES				
If option was ordered for Primary Core, must also be ordered for Backup (DSR) Core.				
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
Added Capacity: LAN Switch, Edge Routers or Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00
Encryption and FIPS				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00
FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)				
DL380 G10 Server:				
Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	-	T8750	877	\$0.00
4525/4125 Direct Attached Storage:				
Description	Full Description	Nomenclature	APC	Price
FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M"	For 4524 and 4525 DAS models	CKN6975	877	\$130.00
Transport:				
Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
48 PORT TERMINAL SERVER	-	CLN8489	147	\$8,000.00
SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00

ASTRO 25 Release 2021.1
ASTRO 25 MASTER SITE (Simplified Core -Replacement for L-Core and M-Core/SRC 7500)
 New Orders and Expansions

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE	-	SQM01SUM0323	877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 16-port Terminal Server, ISGW, RNIIDMZ Firewall, ISSI 8000 Firewall. Includes 1 license each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option * Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03515AC	877	\$280,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-Port Terminal Server, ISGW, RNIIDMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system * Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports.	CA03516AC	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2021.1 systems	CA03517AD	877	\$0.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY				
Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
Options include mounting hardware for all standard core components				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00
STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE				
Operational Licenses, Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00
Operational Licenses, Conventional				
Order per Zone. CA01207AA requires at least one UA00712AA, 8 RF CHANNEL CONVENTIONAL DATA, option for Conventional Only systems.				
Device Licenses for UNC not included. Order the appropriate number of CA01316AA.				
NOTE: The following are not applicable in Conventional Only systems: UA00149AA (RCM), UA00151AA (Affiliation User Reports), UA00148AA (Dynamic Freq Blocking), UA00140AA (Dynamic Shared Services), UA00134AA (Channel Partitioning), UA00142AA (CADI), UA00145AA (System Historical Reports).				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.00
Console Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00158AA	877	\$5,000.00
DSR Notification				
Description	Full Description	Nomenclature	APC	Price
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.00
Added Capacity: LAN Switch, Edge Routers or Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00
Encryption and FIPS				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00
TRAK 8835-3M or TRAK 9100 Models (MANDATORY, Choose 1)				
Description	Full Description	Nomenclature	APC	Price
GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	Order one per Zone on Primary Core and 1 for Backup (DSR) Zone 1. See Network Products Time and Frequency PCAT page for further information or clarification and Accessories. Note: This model can NOT be shared between Master Site and Co-located Prime Site.	DSTRAK88353M	906	\$14,788.00

PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	Note: Can be shared by Co-located Prime Site but must be located in Core subnet, not Prime subnet. Includes Main Frame, 3U chassis; GPS Reference with rubidium oscillator; GPS Reference with double oven xtal oscillator; 2 AC input 85-260Vac power supplies; 4 each: DDM, 1 PPS, 5 MPPS, or Composite dist., 4 outputs of one signal type, each module; FDM, IRIG-B time code dist, 4 outputs; Telecom, T1, 4 outputs framed and clock. Band-pass antenna, 100 ft LMR-400 coaxial cable, ground kit, and lightning arrestor included with each GPS Reference module. See "Network Products Time and Frequency" PCAT page for further information or clarification, DC version, modules, Expansion Chassis, FRUs, Accessories.	DSTRAK91008E	906	\$39,075.0
STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS				
User Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00
OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES				
System Management: Provisioning and Configuration (System Level)				
Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AG) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.0
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPM's, GGM gateways, site controllers.	CA02637AG	877	\$30,000.0
System Management: Performance and Accounting				
Description	Full Description	Nomenclature	APC	Price
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.0
Radio Authentication				
Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.0
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00
Host-Based CSMS				
Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS DEVICE LICENSES	Required when "Host-Based CSMS" (CA03584AE) is ordered. Must order (1) for each Windows device in system.	UA00726AA	877	\$200.00
ADD: HOST-BASED CSMS	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AE	877	\$85,000.0
Location Services				
Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00
ENH: GEOSELECT	MISSION CRITICAL GEOSELECT. Order one per system. Provides the capability for a subscriber radio to take actions based on movement into or out of a Geo Fence. Moves the intelligence and control of Geo Fence inside/outside status based commands from the Mapping Application to the radio to enable actions in real time. The radio takes actions when a boundary is crossed, rather than awaiting commands from the mapping application. Increases the safety and productivity of field personnel by providing immediate and hands free automated talkgroup selection and other radio actions when crossing into or out of a defined incident area. Requires CommandCentral Locate or 3rd party mapping application and IMW with Presence, Location, and GeoFence. APX Radio requires Mission Critical GeoFence and GPS. Order one per system.	UA00486AA	877	\$40,000.0
Group Services				
Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed.	UA00700AA	877	\$10,000.0
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00
Conventional Talkgroups				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.0
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.0
Personnel Accountability				
Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page: https://www.motorolasolutions.com/en_us/product-catalog/ref-page-display.html?refPath=/catalog/dup/products/apx_personnel_accountability/apx_personnel_i				
Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.0
Site Selectable Trunking Alerts				
Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.0
Two-Factor Authentication				
Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE: FORTITOKEN PACK	-	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$272.00
OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES				
Dynamic Transcoding				
Both options are required.				
Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.0
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AC	877	\$50,000.0
Security				
Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
QNAP QUAD CORE BAY DRIVE WITH 4 64MB HDD	Can be used in place of backing up files to DVD. Useful on systems that require regular backup and offsite storage of BAR data.	DST5453D4GUSNAS	708	\$2,917.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	Can be used for A2021.1	T8742	708	\$165.00
High Availability				
Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDC, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.0
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.0
System Management: Provisioning and Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.0
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.0
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.0
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.0
System Management: Fault Management				
Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.0

Updated Pricing for contract 4400016317 as of January 2022

ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.0
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.0
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.0
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.0
System Management: Performance and Accounting				
Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.0
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.0
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.0
SAP CRYSTAL REPORTS 2016	-	DDN3135	708	\$930.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.0
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.0
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.0
Order the Client Workstation				
Description	Full Description	Nomenclature	APC	Price
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. A2021.1 and A2020.1. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	Can be used for A2021.1	T8742	708	\$165.00
ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)				
STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)				
Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	DSR System Notification (CA01499AB) must be ordered on the Primary Core when ordering DSR for the first time.	SQM1SUM0324	877	\$0.00
STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)				
Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE A2021.1	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server*. ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup For software redundancy also order REDUNDANCY, CA03512AB. *Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03520AC	877	\$280,000.00
ADD: DSR ADD-ON ZONE A2021.1	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 16-port Terminal Server*, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. *Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03519AC	877	\$460,000.00
STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)				
Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00
STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00
STEP 5: ORDER OPTIONAL LICENSES				
If option was ordered for Primary Core, must also be ordered for Backup (DSR) Core.				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02849AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AC	877	\$50,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AG	877	\$30,000.00
ADD: HOST-BASED CSMS	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AE	877	\$85,000.00
Added Capacity: LAN Switch, Edge Routers or Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00
Encryption and FIPS				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00
FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)				
DL380 G10 Server:				
Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DASX1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
4525/4125 Direct Attached Storage:				
Description	Full Description	Nomenclature	APC	Price
FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M"	For 4524 and 4525 DAS models	CKN6975	877	\$130.00
Transport:				
Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00



Updated Pricing for contract 4400016317 as of January 2022

FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
48 PORT TERMINAL SERVER	-	CLN8489	147	\$8,000.00
SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00

Motorola MCC 7500 Dispatch Console
-- Dispatch Positions, Dispatch API and Product Software --

Dispatch Console PC VPM				
Description	Full Description	Nomenclature	APC	Price
MOTOROLA VOICE PROCESSOR MODULE	Provides one Voice Processor Module (VPM) unit for an MCC 7500 console. Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF). When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.	B1933	443	\$11,920.00
Software Items				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE	Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00
Options				
Software License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7500 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/os, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1933.	CA01642AA	443	\$14,400.00
Upgrade Software Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1905.	CA00899AA	443	\$3,000.00
ADD: MCC 7500 AIS SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 AIS Software. One is required for each AIS being upgraded. Order as a sub-item to the B1905.	CA00900AA	443	\$2,700.00
Trunking & Advanced Conventional Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,000.00
ADD: MCC 7500 / MCC 7100 ADV CONVL OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,600.00
Advanced SECURENET Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SECURENET OPERATION	Required when the MCC 7500 dispatch position is used to control Advanced SECURENET resources (Conventional channels using an Advanced SECURENET CIU device). Order as a sub-item to the B1933.	CA01972AA	443	\$50,000.00
Secure Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 SECURE OPERATION	Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.	CA00147AF	443	\$3,900.00
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00
Secure Algorithms				
Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB ALGORITHM	Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00143AC	443	\$900.00
ADD: DES-XL ALGORITHM	Provides factory programming for the DES-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.	CA00144AC	443	\$900.00
ADD: DVI-XL ALGORITHM	Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00145AC	443	\$900.00
ADD: DVP-XL ALGORITHM	Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU model.	CA00146AC	443	\$900.00
ADD: AES ALGORITHM	Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00182AB	443	\$900.00
ADD: ADP ALGORITHM	Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00245AA	443	\$900.00
Inbound Event Display GUI				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100	CA01645AA	443	\$6,300.00
Enhanced Console Telephony				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 Enhanced Console Telephony Operation License	Required when the MCC 7500 dispatch position is used to control enhanced console telephony phone lines. Order as a sub-item to the B1933.	CA02073AA	443	\$1,200.00
Power Cords				
Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, NORTH AMERICAN	Adds one AC line cord with a North American plug.	CA00140AA	443	\$3.00
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, AUSTRALIA	Adds one AC line cord with an Australian plug.	CA00140AF	277	\$0.00
ADD: AC LINE CORD, BRAZIL	Adds one AC line cord with a Brazilian plug.	CA00140AG	277	\$0.00
API Technical Support				
Description	Full Description	Nomenclature	APC	Price
FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	Provides one hour of technical support for the SDK from the factory. May be ordered multiple times if more than one hour of support is required. May be ordered to add additional technical support for software developers who are already using the SDK. Note that this is a billable item only (BB item) and must be ordered by itself on its own order.	QLN3437	443	\$1,000.00
Accessories				
Enhanced Console Telephony Media Gateways				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	Provides a CD-ROM containing a copy of the operating system for the enhanced console telephony media gateways. This should be ordered for use in upgrade or disaster recovery scenarios.	BVN1014A	877	\$500.00
Field-Add Software Licenses				
Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$3,900.00
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,600.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,300.00
MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	-	BLN1316	443	\$14,400.00
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	-	BLN1317	443	\$18,072.00
MCC 7500 Enhanced Console Telephony Operation Field-Add License	-	BLN1320A	443	\$1,200.00
Trackball				
Description	Full Description	Nomenclature	APC	Price
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is ruggedized and 'RF-CERTIFIED' by Consoles Engineering. Order as a main line item.	DSCD06171B	708	\$459.00
Programming Cables				
Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGEK	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
Field Replacement Units				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 VOICE PROCESSOR MODULE FRU		B1934	443	\$11,830.00
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
SHIELD,VPM SHIELD KIT	Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided. When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324 in.s. For example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.	BLN1324	443	\$0.00
Algorithm Upgrades/Field-Adds				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	-	T8063	443	\$250.00

**ASTRO-TAC®
ASTRO-TAC 3000™ COMPARATOR
FLASHport® UPGRADES**

Description	Full Description	Nomenclature	APC	Price
Models				
SOFTWARE UPGRADE DISK ONLY	-	T6341	729	\$0.00
SW SWNLD CAP FOR ATAC3K	Upgrades ASTRO-TAC 3000 to ASTRO-TAC 3000 with software download capability.	T6340	729	\$0.00
Options				
Software Download Capable				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE UPGRADE	Order with T6341 only. Backplane IDs required. Backplane IDs must be entered in the same quantity as the option quantity.	CA00007AA	729	\$1,800.00
ENH: SOFTWARE DOWNLOAD CAP W/WL & ICS	Order with T6340 only.	U454AA	729	\$150.00
ENH: SOFTWARE DOWNLOAD CAP IC	Order with T6340 only.	U455AA	729	\$400.00
Input/Output Modules				
Description	Full Description	Nomenclature	APC	Price
ENH: 2 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X223AH	729	\$1,000.00
ENH: 4 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X224AH	729	\$2,000.00
ENH: 6 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X225AH	729	\$3,000.00
ENH: 8 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X226AH	729	\$4,000.00
ENH: 10 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X227AH	729	\$5,000.00
ENH: 12 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X228AH	729	\$6,000.00
ENH: 14 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X229AF	729	\$7,000.00
ENH: 16 I/O SW DNLD CAP UPGR	Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X230AE	729	\$8,000.00
Accessories				
FRU Kits				
Description	Full Description	Nomenclature	APC	Price
FRU ASTRO TAC CONTROL PANEL	-	CLN1318	509	\$374.00
FRU ASTRO TAC LEFT PANEL	-	CLN1319	509	\$295.00
FRU ASTRO TAC RIGHT PANEL	-	CLN1320	509	\$200.00

**ASTRO-TAC® RECEIVER
CONVENTIONAL - FLASHport® AFTERMARKET UPGRADES**

Description	Full Description	Nomenclature	APC	Price
Models				
CONVENTIONAL ASTRO TAC RECEIVER UPGRADE	-	T5756	729	\$650.00
Options				
Station Capability				
Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE DOWNLOAD CAPABLE	Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has been ordered previously.	U222	729	\$0.00
ENH: NON-SFTWRE DOWNLOAD CPBLE	Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has not been ordered previously.	U223	729	\$0.00
Control Board				
Description	Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE	Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00
Conventional Upgrades				
Description	Full Description	Nomenclature	APC	Price
ENH: SPECTRA TAC CONVENTIONAL	Requires that station be equipped with either a 4-wire or 8-wire wireline. Standard when ordered with X777 or X888. NOT COMPATIBLE with X84.	X269	509	\$310.00
ENH: MULTI PL COMPATIBILITY	Provides two modes of operations; user selects one or the other with the RSS:	X286	509	\$460.00
ENH: REMOTE RSS COMPATIBILITY	-	X288	509	\$200.00
ENH: CONV ASTRO CAI UPGRADE	For Conventional Analog (X597) migrating to Conventional ASTRO CAI. **REQUIREMENTS --EPIC SCB(X791 or X793) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797) built prior to 9/15/96. OR --Wireline board in use built after 9/15/96 (U438) **To utilize Ethernet capability, Ethernet Service Kit (REX443) is required.	X806 G	729	\$1,782.00
ENH: 6809 TRUNKING UPGRADE	REQUIRED 1 Cable (X244, X337, X338 or X339)	X997	195	\$220.00
ENH: SW DNLD W/ETHRNT CAPBLTY	REQUIRES:n--EPIC SCB (X791, X792, or X793)n--MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797)built prior to 9/15/96. OR n--Wireline board in use built after 9/15/96 (X438)n**In addition--One Cable options is required (X841, X844, X145, X146 or X147.) n--Requires IR Site Termination Hardware (X843) PER SITE.	X980	729	\$400.00
Trunking Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: CABLE TRUNKING 25'	-	X244	195	\$50.00
Trunking Upgrades				
Description	Full Description	Nomenclature	APC	Price
ENH: CURRENT SFTW VERSION	Provides latest version of conventional software, with no feature upgrades.	X795	195	\$200.00
ENH: SZ26809 ASTR CAI TRK UPGRADE	REQUIRES: --EPIC SCB (X791) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797)built prior to 9/15/96. OR Wireline board in use built after 9/15/96 (X438) --CHOOSE ONE CABLE(X244, X337, X338, X339) --X889 may be required.	X897 D	195	\$1,961.00
Wireline Options				
Description	Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE	Conventional, 6809 Trunked, and IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00

**ASTRO-TAC® 9600
Comparator**

For Project 25 Systems
Models

Description	Full Description	Nomenclature	APC	Price
A-TAC 9600 UPGRADE	Comparator Upgrade CD. Must add CA00093AA option for number of upgrades required.	T6592	729	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO-TAC 9600 SOFTWARE UPGRADE	Order with T6592. Quantity should be equal to number of comparators being upgraded	CA00093AA	729	\$400.00

Digital Evidence Management Solution

Description	Full Description	Nomenclature	APC	Price
CC VAULT STORE	CPQ: SSV00S00329A	HKVN4447A	616	\$360.00
CC VAULT MANAGE	CPQ: SSV00S00330A	HKVN4448A	616	\$0.00
CC VAULT JUDICIAL	CPQ: SSV00S00331A	HKVN4449A	616	\$240.00
CC-VAULT-DEMSAAS-3 YR SUBSCRIPTION	CPQ: SSV00S00665A	HKVN4470A	616	\$780.00
CC VAULT-DEMSAAS 5 YR SUBSCRIPTION	CPQ: SSV00S00665A	HKVN4475A	600	\$820.00
CC VAULT-3 YR UNLIMITED STORAGE SUBSCRIPTION	CPQ: SSV00S00334A	HKVN4472A	610	\$420.00
CC VAULT-5 YR UNLIMITED STORAGE SUBSCRIPTION	CPQ: SSV00S00334A	HKVN4477A	600	\$420.00

CirrusCentral Management

Description	Full Description	Nomenclature	APC	Price
CirrusCentral Management Basic Software Subscription	Annual software subscription for CirrusCentral Basic System Management	SSV02S01931A	360	\$35,000.00
ADD: Monitoring for 1 RF site	Monitoring for 1 additional RF site	SSV01S01932A	360	\$1,000.00
ADD: Cirrus access for 1 user	Access to Cirrus for 1 additional user	SSV01S01933A	360	\$1,000.00
ADD: 1 Year historical data storage	Add 1 additional year of historical data storage	SSV01S01934A	360	\$5,000.00
ADD: Call monitoring and affiliations	Feature option for CirrusCentral call monitoring and affiliations.	SSV01S01935A	360	\$15,000.00
ADD: System performance reporting	Feature option for CirrusCentral system performance reporting	SSV01S01936A	360	\$10,000.00
ADD: Alarm aggregations and filtering	Feature option for CirrusCentral alarm aggregations and filtering	SSV01S01937A	360	\$10,000.00
ADD: Site lead view	Feature option for CirrusCentral site lead view	SSV01S01938A	360	\$10,000.00
ADD: Email and SMS fault notifications	Feature option for CirrusCentral email and SMS fault notifications	SSV01S01939A	360	\$7,000.00
CirrusCentral management advanced software subscription	Annual software subscription for CirrusCentral advanced system management	SSV01S01940A	360	\$75,000.00
ADD: Monitoring for 1 RF site	Monitoring for 1 additional RF site	SSV01S01932A	360	\$1,000.00
ADD: 1 Year historical data storage	Add 1 additional year of historical data storage	SSV01S01934A	360	\$5,000.00

FIELD REPLACEMENT UNITS (FRU):

Description	Full Description	Nomenclature	APC	Price
Cirrus management enablement package - Cirrus subscription required	Field replacement unit of Cirrus hardware enablement package	DSQUOTE 18304139	811	\$3,000.00
FRU: Cirrus management modem w/LTE SIM card - Cirrus subscription required	Field replacement unit of Cirrus management modem and LTE SIM	DSQUOTE 18304149	811	\$1,163.00
FRU: Cirrus management node PC - Cirrus subscription required	Field replacement unit of Cirrus management node PC	DSQUOTE 18304160	811	\$1,707.00

**Certificate Management Solution
CMS**
Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: 100 CMS LICENSES	-	CA03138AA	212	\$6,481.00
ADD: 50,000 CMS LICENSES	-	CA03140AA	212	\$525,000.00
ADD: 1,000 CMS LICENSES	-	CA03139AA	212	\$58,333.00
ADD: GEO REDUNDANCY	-	CA03136AA	212	\$30,000.00
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	60	\$115.00
SLA-STANDARD SUPPORT PER UNIT AND YEAR	-	GMDN7168A	61	\$9,090.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	60	\$20.00
CERTIFICATE MANAGEMENT SOLUTION SOFTWARE	-	T8386	212	\$30,000.00
ADD: 1 CMS LICENSE	-	CA03137AA	212	\$72.00
CMS AFTER MARKET UPGRADES	-	T8387	212	\$0.00
EJBCA APPLIANCE SIZE MEDIUM VERSION 2.8 PRICE/UNIT EXCLUDING SUPPORT A	-	GMDN7167B	78	\$58,167.00
PKI APPLIANCE EXTERNAL BATTERY ADAPTER	-	GMDN9021A	78	\$222.00
EJBCA ENTERPRISE PKI APPLIANCE.	-	GMDN7167A	78	\$45,451.00
G10 SERVER HARDWARE	CMS HP DL380 G10 Server	SQM01SUM0331	704	\$19,000.00

CommandCentral Capabilities

Part Number	Description	Item Type	APC	Price
SSV00S01530A	Cloud Database Backup & Restore Subscription	Subscription Service	516	\$0
SSV00S01531A	CC Incident Record Subscription	Subscription Service	516	\$0
SSV00S01558A	Vault 250GB Store and Manage Trial Subscription	Subscription Service	616	\$0
SSV00S01693A	CommandCentral Jail Intake	Subscription Service	334	\$0
SSV00S01871A	CommandCentral Jail Activity	Subscription Service	334	\$0
SSV00S02007A	Pin Mapping	Subscription Service	258	\$0
SSV00S02008A	Insights Dashboard	Subscription Service	258	\$0
SSV00S01614A	Vault Block of Storage	Subscription Service	616	\$360/block/yr
SSV00S00331A	CC Vault Judicial	Subscription Service	616	\$240/user/yr
SSV00S01450A	Learner Subscription	Subscription Service	217	\$0
SSV00S01448A	User Conference Advance Registration Only	Subscription Service	217	\$1000 Annu
SSV00S01449A	User Conference Advance Standard Attendance	Subscription Service	217	\$2,900 Annu
See List	One SSV Connector Subscription Per Connector	Subscription Service		See List
SSV00S02124A	CommandCentral Extension for CAD	Subscription Service	252	\$0

Connector Part Number	Connector Description	Item Type	APC	Recurring P
SSV00S01881A	Interface: OnBase Connector	Subscription Service	616	\$2,500
SSV00S01882A	Interface: Coban Connector	Subscription Service	616	\$2,500
SSV00S01883A	Interface: Motorola Vigilant	Subscription Service	616	-
SSV00S01885A	Interface: Axon Evidence	Subscription Service	616	\$2,500
SSV00S01307A	Interface: Motorola Solutions CC Vault Cad/RMS Correlation	Subscription Service	616	-
SSV00S02053A	INTERFACE: THIRD PARTY FOR VAULT	Subscription Service	616	\$6,500
SSV00S02207A	INTERFACE: NEW INTERFACE FOR VAULT	Subscription Service	616	\$2,500

CommandCentral Community



Updated Pricing for contract 4400016317 as of January 2022

Configuration

Description	Full Description	Nomenclature	APC	Price
Subscription Service	CommandCentral Community Standard	SSV00S02400A	259	Annual p/User 500 Users @ 501+ @ \$24 A p/Agency \$2, CAPEX (One
Subscription Service	Vault Block of Storage	SSV00S01614C	616	\$360/block/yr
Service Software	LMS Onboarding	PSV00S01454A		\$0
Subscription Service	Learner Subscription	SSV00S01450B	253	\$0
Subscription Service	USERS CONFERENCE ADVANCE REGISTRATION ONLY	SSV00S01448B	208	\$1000 annu
Subscription Service	USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	SSV00S01449B	208	\$2,900 annu
CUSTOM FORMS	CUSTOM FORMS	SSV00S02528A	259	Based on popu size - SEE CH BELOW
CUSTOM FORMS ONBOARDING	CUSTOM FORMS ONBOARDING	PSV00S02529A OR PSV00S02672A	259	\$750

Pricing - Custom Forms (Based on Population)

Population Size	Add-On Price Monthly per Customer (Agency)
1,000,000+	\$1,700
500k to 999k	\$1,200
250k to 499k	\$800
100k to 249k	\$500
50k to 99k	\$300
0k to 49k	\$200

CommandCentral Suite

Part Number	Description	APC	Price
SV00S02792A	COMMANDCENTRAL SUITE	317	Configure
SV00S02376A	COMMANDCENTRAL CAD	252	Included
SV00S01879A	COMMANDCENTRAL RECORDS	315	Included
SV00S02823A	COMMANDCENTRAL RESPONDER	413	Included
SV00S02400A	COMMANDCENTRAL COMMUNITY	259	Included
SV00S02600A	COMMANDCENTRAL EVIDENCE	616	Included
SV00S02374A	COMMSYS SOFTWARE	267	Configure
SV00S02375A	COMMSYS MAINTENANCE	267	Configure
	Interfaces: Refer to CC Suite tab	317	Refer to lin
SV00S02783A	COMMANDCENTRAL BLOCK OF STORAGE	616	75/GB annu
DQPCDW09955916	Cloud Anchor Server - HPE DL20/64GB/E-2224/4*1TB SAS	568	\$6,060.4
DQHPPNQ01714398	Cloud Anchor maint	568	\$1,271.14
DQHPPNQ0231212701	vSphere Std Cloud Anchor VMWare Essentials	568	\$870.84
TT3277A	SQL Server STD - California Only	568	\$2,934.0
SSV00S01448B-SMP	USERS CONFERENCE ADVANCE REGISTRATION ONLY	217	\$1000 annu
SSV00S01449AB-SMP	USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	217	\$2900 annu
SSV00S01450B	Learner Subscription	253	\$0
PSV00S01454A	LMS Onboarding		\$0

CommandCentral Aware Enterprise Standard & Plus Package

Description	Full Description	Nomenclature	APC	Price
Edge Node (Edge Node on-Premise Box)	Edge Node ON PREMISE BOX	T8752A	434	\$3,450

Optional Hardware for 3rd party VMS*

Motorola Aware Enterprise Software (Per Seat) Licensing

Description	Full Description	Nomenclature	APC	Price
Cloud Anchor Server	CloudConnect Server	SQM01SUM0307	492	\$6,060.4
CLOUD ANCHOR SERVER 5YR MAINTENANCE	CloudConnect Server Maintenance	DQHPPNQ01714398	492	\$1,271.14
PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VSPHERE 7 STANDARD FOR 1**	CloudConnect Server	DQVMAVS7SPRT	492	\$600.76

Software Licensing

Motorola Aware Enterprise Software (Per Seat) Licensing Standard Offer

Description	Full Description	Nomenclature/ Part Number	APC	Price
Per Seat License	Minimum of 3 seats required. Per Seat is available up to 10 seats. Limited to Control Room.	SSV00S02029A	612	\$743
Activation Fee	Activation Fee	SSV00F02094A	79	\$5,469.0
3rd Party Integration				
Floor Plans 10 floors included (every 5 floors)				\$408

Motorola Aware Enterprise Bundle Software (Per Name User) Licensing Standard Offer

Description	Full Description	Nomenclature	APC	Price
Enterprise License	Enterprise License	SSV00S02029A	612	\$7,425
Named User License	Defined as a unique Aware credential created per individual. Per named user, accessible from any device and anywhere	SSV00S02029A	612	\$127
Activation Fee	Activation Fee	SSV00F02094A	79	\$5,469.0
3rd Party Integration				
Floor Plans 10 floors included (every 5 floors)				\$408

Motorola Aware Enterprise Bundle Software (Per Name User) Licensing Plus Offer

Description	Full Description	Nomenclature	APC	Price
Enterprise License	Enterprise License	SSV00S02389A	612	\$11,225
Named User License	Defined as a unique Aware credential created per individual. Per named user, accessible from any device and anywhere	SSV00S02029A	612	\$348
Activation Fee	Activation Fee	SSV00F02094A	79	\$13,000
CC EvidenceLicense				\$375
3rd Party Integration	Refer to Connector Link PRODUCTIZED/STD/NEW: \$4K-\$25K 1X DEV + \$2,500 ANNUAL MAINT CUSTOM: \$12K-\$25K 1X DEV + \$6,500 ANNUAL MAINTENANCE	146		
Floor Plans for every 5 floors (10 floors included)				\$408

Software Conference (Optional)

Description	Full Description	Nomenclature	APC	Price
USERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A	208	\$1,000
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A	208	\$2,900

CommandCentral Call Handling

CommandCentral Call Handling Subscription

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL CALL HANDLING	CommandCentral Call Handling Subscription - standalone	SSV00S02795A	236	Configured P
COMMANDCENTRAL CALL HANDLING	CommandCentral Call Handling Subscription - add-on	SSV00S02795A	236	Configured P

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CC CH Bronze Edge Appliance	CommandCentral Call Handling Bronze Edge Appliance (Backroom Equipment)	854231-CCEDGEBRONZE	363	9800
CC C Silver Edge Appliance	CommandCentral Call Handling Silver Edge Appliance (Backroom Equipment)	854231-CCEDGE SILVER	363	20,000.0

Optional Hardware

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL HUB, W/CLIENT PC	CommandCentral Hub with Internal PC, AC line cord NA, Bracket mounting 2RU	B1956A CA03553AA, CA03547AA	754	5250, 13.00 3

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL HUB, BASIC MODEL	CommandCentral Hub standalone audio unit, AC line cord NA, Bracket mounting 2RU	B1955A, CA03553AA, CA03547AA	754	2550. 13.00 3
POS, UPS	Positional UPS for workstation equipment	06200-00850	496	185
HEADSET JACKBOX	Headset Jackbox	B1913A	754	200
15' USB 1 to 4 port extender	USB Port Extender with 15' cable	65000-10177	496	60
MNTR FP WIDE SCRN LED 22IN	22 inch FP Wide Screen LED Monitor	63000-221693	496	296.25
MNTR 24IN FP WIDE SCR LED	24 inch FP Wide Screen LED Monitor	63000-241692	496	476.25
Speaker Bar		63000-171920	469	26.25
Keyboard/Mouse Bundle		64021-10025	469	55
GENOKYPD 24 DTP	Genovation 24 Keypad DTP Keypad (telephone layout) - 6' USB cable	ECX100204	469	189
GENOKYPD 24 DTP	Genovation 24 Keypad Computer 10 key (keyboard)	ECX100204-1	469	189

Optional Services

Description	Full Description	Nomenclature	APC	Price
SECURITY MANAGEMENT SERVICE	Security Management Service for CCHUB with internal PC, includes AV/patch management	SSV00S02967A	227	

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
ECH PM	Emergency Call Handling Project Management		331	Calculated/ Cu
ECH SA	Emergency Call Handling Solution Architect		331	Calculated/ Cu
ECH FE	Emergency Call Handling Field Engineer - customer specific configuration		331	Calculated/ Cu
ECH Network Design	Emergency Call Handling Network Design		331	Calculated/ Cu
ECH Trainer	Emergency Call Handling on site trainer		331	Calculated/ Cu
CC Cloud Suite Base - CPS	Cloud Provisioning Service		331	Calculated/ Cu

Software Conference

Description	Full Description	Nomenclature	APC	Price
USERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A- Non SMP	217	\$1000 Annu
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A- Non SMP	217	\$2900 Annu

Learning Experience Portal

Description	Full Description	Nomenclature	APC	Price
LEARNER LXP SUBSCRIPTION	LXP Subscription	SSV00S01450A- Non SMP	217	\$0
LXP Onboarding	LMS onboarding	PSV00S01454A	217	\$0

Motorola CommandCentral AXS Dispatch Console

Description	Full Description	Nomenclature	APC	Price
COMPUTER, DL160 G10	COMPUTER, DL160 G10 WITH POWER CORD. Provides one DL160 server for use in an AXS cluster. Includes a North American linecord and friction rail mounting kit. Does not include monitor, keyboard or mouse. A cluster requires a minimum of three servers.	TT4083A	708	\$6,000.00
COMPUTER, DL160 G10	COMPUTER, DL160 G10 WITH NO POWER CORD. DL160 server for non-North American orders. This item does NOT include the North American, or any, linecord. The linecord must be procured locally in the region. Because this is a dropship item there are no options available to order with the item. Linecord FRUs may ordered separately if desired.	TT4084A	708	\$6,000.00
8-PORT CONSOLE CAT5 KVM SWITCH 1U RM 19IN LCD RACKMOUNT	Provides one rack mounted, 8-port KVM switch with keyboard, touchpad and folding display. Requires one DSB078101USB1 server interface unit for each server connected to the KVM switch.	DSB07000819	708	\$1,575.00
USB SINGLE SRVR INTERFACE UNIT VIRTUAL MEDIA KVM SWITCH HD15 USB RJ4	Provides one server interface unit to enable one server to connect to a DSB07000819 KVM switch. One required for each server connected to the KVM switch.	DSB078101USB1	708	\$101.00

Cluster Enablement Licenses

Description	Full Description	Nomenclature	APC	Price
LICENSE, AXS ASTRO 25 SYSTEM WI	One HKVN4728A is required for each ASTRO 25 system that is connected to an AXS console site. The production and non-production AXS clusters will share the same ASTRO System access license, i.e., only one HKVN4728A is required per pair of clusters at an AXS console site.	HKVN4728	504	\$2,500.00
LICENSE, AXS CLUSTER TEMPORARY STAGING LICENSE	One HKVN4828A is required for each cluster. This license enables the cluster to do the initial installation of software on the cluster. When the customer starts beneficial use of the console, this license will be replaced by the license that is generated by the SSV01S01669A.	HKVN4828	504	\$0.00

Dispatch Client Feature and Capacity Enablement Licenses

Description	Full Description	Nomenclature	APC	Price
AXS DISPATCH CLIENT LICENSE	One HKVN4729A is required per AXS dispatch client that will be accessing the cluster.	HKVN4729	504	\$7,900.00
LICENSE, AXS TRUNKING SERVICES	One HKVN4730A is required per AXS dispatch client that will be monitoring trunking resources on one or more ASTRO 25 systems.	HKVN4730	504	\$6,600.00
LICENSE, AXS ADVANCED CONVENTION	One HKVN4731A is required per AXS dispatch client that will be monitoring ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels.	HKVN4731	504	\$3,960.00
LICENSE, AXS TELEPHONY	One HKVN4900 is required per AXS dispatch client that will be monitoring telephony resources.	HKVN4900	504	\$3,000.00
LICENSE, AXS SECURE VOICE SERVICES	One HKVN4732A is required per AXS dispatch client that will be using voice encryption functionality on trunking and/or conventional resources.	HKVN4732	504	\$6,340.00
LICENSE, AXS SECURE OTEK SERVICE	One HKVN4739A is required per AXS dispatch client that will be using OTEK functionality on trunking and/or conventional resources.	HKVN4739	504	\$4,420.00
LICENSE, AXS CHANNEL BASED IRR	One HKVN4733A is required per AXS dispatch client that will be using Channel Based IRR functionality.	HKVN4733	504	\$3,200.00
LICENSE, AXS AMBE+2 VOCODER ROY	One HKVN4736A is required per AXS dispatch client that will be monitoring P25 trunking resources or P25 conventional resources on one or more ASTRO 25 systems.	HKVN4736	504	\$50.00
COMMANDCENTRAL HUB W/CLIENT PC	Provides one CommandCentral Hub with integrated PC workstation.	B1956	754	\$5,250.00
ADD: AC LINE CORD, NORTH AMERICA	Provides one North American AC line cord.	CA03553AA	754	\$13.00
ADD: CABLE, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides two cables which allow two B1952 speakers to be powered from the hub.	CA03548AA	754	\$75.00
ADD: FOUR CABLES, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides four cables which allow four B1952 speakers to be powered from the hub.	CA03583AA	754	\$150.00
ADD: BRACKET, MOUNTING 2RU	Mounting brackets for the CommandCentral Hub. Can be used to mount the hub in a 19" rack or on a flat surface.	CA03547AA	754	\$30.00
ADD: CABLE RETENTION BRACKET	Cable retention bracket and mounting screws for the CommandCentral Hub. This bracket is used to secure and strain relieve the various cables that connect to the rear of the hub.	CA03572AA	754	\$65.00
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Keyboard	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Mouse	L3226A	708	\$30.00
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,567.00
TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00

Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1951	754	\$445.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00
SPEAKER, DESKTOP, USB	The B1952 speaker is specifically designed for use with the AXS console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch positions' hub or PC. Each speaker has its own individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.	B1952	754	\$485.00
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00

Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	Provides one dual pedal footswitch.	DSTWIN6328A	708	\$308.00
The certified headsets used with AXS dispatch clients are described below. Order the desired number of headset tops and bases from the list below. Both a top and base are required to form a complete headset.				
Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6099A	706	\$242.00
ENCOREPRO HW540 HEADSET	Monaural, noise-cancelling headset with ear loop, neckband & over-the-head headband included.	DSPOLYHW540	708	\$134.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5151A	706	\$156.00
Dispatch Client Spares and Field Replaceable Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
GR500 AC POWER CORD	Provides one North American AC line cord.	3082933N08	454	\$33.25
CABLE - MCD 5000 DESKSET TO LOGGER	Provides one cable with an RJ45 connector on one end and individual stripped and tinned wires on the other end. May be used with the three audio output ports, the Aux I/O port or the EPI port on the CommandCentral Hub.	FKN8696	202	\$40.00
FRU: POWER CABLE, 24VDC	Provides one cable for connecting a B1952 speaker to a 24 VDC power port on the CommandCentral Hub.	BKN2002	754	\$35.00
FRU: MOUNTING BRACKET KIT, PDH	Mounting kit for mounting the CommandCentral Hub in a 19" rack or to a flat surface. Includes two brackets and the screws required to attach them to the hub. Does not include any screws for attaching to the rack.	BLN1325	754	\$40.00
FRU: COVER, FRONT PDH	Front cover for the CommandCentral Hub	BHN1024	754	\$90.00
FRU: BRACKET, CABLE RETENTION	Cable retention bracket and mounting screws for the CommandCentral Hub. This bracket is used to secure and strain relieve the various cables that connect to the rear of the hub.	BHN6114	754	\$65.00
Description	Full Description	Nomenclature	APC	Price
FRU: MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$445.00
FRU: SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$485.00
FRU: USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one of the ends.	BKN2000	754	\$79.00
FRU: USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00
FRU: POWER SUPPLY WITH DC CORD	Power supply with DC cable for USB speaker. Does not include an AC line cord.	BPN1030	754	\$150.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
CABLE ASSY, 16 PIN CONNECTOR	Cable, CommandCentral Hub to Headset Jack Box (for B1913)	307113H01	443	\$108.00
CABLE ASSY, EXTENDER	Cable, Extender, Headset Jack Box (for B1913)	307114H01	443	\$97.50
VPGate Hardware				
Description	Full Description	Nomenclature	APC	Price
RACKMT 1U COMPUTER W/SSHD, WIN 2019 SERVER OS	COMPUTER, DL20 G10 WITH POWER CORD. Provides one DL20 server with Windows Server 2019 for VPGate. Includes a North American linecord and friction rail mounting kit. Does not include monitor, keyboard or mouse.	TT4016A	735	\$5,675.00
VPGate Capacity Enablement Licenses				
Description	Full Description	Nomenclature	APC	Price
LICENSE BLOCK, TELEPHONE	This block license enables up to 10 telephony resources. Note: Each AXS dispatch client requires the telephony feature license HKVN4900.	HKVN4902	504	\$6,995.00
Description	Full Description	Nomenclature	APC	Price
LICENSE, ASTRO AXS CLUSTER	Each cluster requires a SSV01S01669A to be able to install and upgrade its software. This SSV will automatically generate an enablement license that must be installed on the AXS cluster. The AXS software cannot be installed without this license.	SSV01S01669A	823	\$0.00
LICENSE, ASTRO AXS SERVER	One SSV01S01900A is required for each AXS server that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01900A	823	\$0.00
ASTRO AXS CLIENT SOFTWARE SUPPORT AGREEMENT	One SSV01S01774A is required for each AXS client that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01774A	823	\$3,500.00

CAI Data Encryption Module

Model HARDWARE				
Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00
Options SOFTWARE				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
Accessories				
Description	Full Description	Nomenclature	APC	Price
RACK/CABINET MOUNTING TRAY	-	TKN9284	137	\$85.00
CABLE FOR RNC, DIU MGE6	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8513C	362	\$260.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00
CDEM Upgrade Kits				
Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: CDEM SOFTWARE UPGRADE	-	CA01847AA	137	\$50.00
CDEM Encryption Upgrade Kits				
Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Public Safety and Private LTE

Models				
Description	Full Description	Nomenclature	APC	Price
FIREWALL FG-1500D	-	TT3298	55	\$28,080.00
10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE	-	DDN2585	55	\$114.00
1 GE SFP SX TRANSCEIVER MODULE	-	DDN2584	55	\$51.00
1 GE SFP LX TRANSCEIVER MODULE	-	DDN2583	55	\$106.00
10 GE SFP+ TRANSCEIVER MODULE, LONG	-	DDN2586	55	\$325.00
1 GE SFP RJ45 TRANSCEIVER MODULE	-	DDN2582	55	\$165.00
FIREWALL FG-600E	-	TT3772	55	\$8,213.00

Critical Connect

Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)	Unique Connection - 20 Simul. Talk Paths - 50
Packages	Unique Connection - 2 Simul. Talk Paths - 10	Unique Connection - 5 Simul. Talk Paths - 25	Unique Connection - 20 Simul. Talk Paths - 50
Basic Voice Interop Package (includes LMR-BB and LMR-LMR)	\$4,500 / \$54,000	\$7,000 / \$84,000	\$8,500 / \$102,000
Advanced Voice Interop Package (Optimized RF utilization on ASTRO)	\$5,000	\$7,500	\$9,000
Option: Voice encryption (LMR-BB)	\$2,500	\$5,000	\$5,000
Option: Secure MPLS Backhaul	\$2,000	\$3,000	\$4,000

WAVE PTX

WAVE PTX SUBSCRIPTIONS	WAVE PTX	802 (GF)	\$8 /month
SSV00S01898A	WAVE PTX	802 (GF)	\$8 /month
SSV00S01899A	WAVE PTX DISPATCH	802 (GF)	\$32 /month
SSV00S01499A	WAVE PTX SAFEGUARD	802 (GF)	\$13 /month
SSV00S01500A	WAVE PTX SAFEGUARD DISPATCH	802 (GF)	\$70 /month
SSV00S02209A	WAVE PTX SafeGuard Multi-Role	802 (GF)	\$20 /month
SSV00S02210A	WAVE PTX SafeGuard Multi-Role Dispatch	802 (GF)	\$325 /month
SSV00S01861A	Wave Video Streaming	802 (GF)	\$14 /month
SSV00S01862A	Wave Dispatch Video Streaming	802 (GF)	\$130 /month

CRYPTR Base hardware

Description	Full Description	Nomenclature	APC	Price
CRYPTR	WAVE CRYPTR	SQM01SUM0292	137	\$1,875.00
AC Line Cord, Australia	AC Line Cord, Australia	CA02063AA	137	\$0.00
AC Line Cord, UK	AC Line Cord, UK	CA02064AA	137	\$0.00
AC Line Cord, European	AC Line Cord, European	CA02065AA	137	\$0.00
AC Line Cord, North America	AC Line Cord, North America	CA02066AA	137	\$0.00

Add MCC7500E Software

Required software for supporting the MCC7500E

Description	Full Description	Nomenclature	APC	Price
MCC7500 CRYPTR SOFTWARE CD UPGRADE	MCC7500 CRYPTR Software CD Upgrade	T8490	137	\$50.00

Required Secure Operation

Add this Secure Operation Software (required)

Description	Full Description	Nomenclature	APC	Price
ADD: SECURE OPERATION	ADD: Secure Operation SW	CA02954AA	137	\$3,250.00

Encryption Support

Order ONE of these options for the encryption algorithms required

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500E CRYPTR DES-OFB &ADP	ADD: MCC7500E CRYPTR AES 256, DES-OFB, ADP	CA03440AA	137	\$1,800.00

Optional Software: Over the Ethernet Rekeying

Order this option if the MCC7500E console will update encryption keys via OTEK after initial configuration.

Description	Full Description	Nomenclature	APC	Price
ADD: OTEK	ADD: OTEK	CA02934AA	137	\$3,350.00

Cybersecurity Command Center Software

Description	Nomenclature	Size	APC	Price
Security Monitoring	SSV06S02740A	Small System (2-10 Positions):	859	\$25,000 per y
		Medium System (11-40 Positions):		\$37,000 per yr
		Large System (41-80 Positions):		\$75,000 per yr
		X-Large System (81-160 Positions):		\$125,000 per yr
		Mega System (161-250 Positions):		\$185,000 per yr
Vulnerability Detection	SSV06S02743A	Small System (2-10 Positions):	859	\$4,000 per yr
		Medium System (11-40 Positions):		\$4,200 per yr
		Large System (41-80 Positions):		\$4,500 per yr
		X-Large System (81-160 Positions):		\$12,400 per yr
		Mega System (161-250 Positions):		\$27,600 per yr
Strategic Threat Intelligence	SSV06S02746A	All System Tiers:	859	\$60,000

ASTRO Managed Detection & Response

Description	Nomenclature	APC	Pricing
One Time Activation Fee	SSV00S02729A	859	\$1,000 Bas Activation F
			\$2,500 Per AE Installation
Hardware ActiveEye Remote Security Sensor	SSV00S02755AA	859	\$4,800
ASTRO Managed Detection & Response	LSV01S02973A	859	Unit Price
			Mastersite: \$1;
			DSR Site: \$9
			CEN Netwo \$9,750
			Console: \$9
			NM Client: \$
			CEN Endpo \$215

DC POWER SYSTEMS, BATTERIES and GENERATORS

Description	Full Description	Nomenclature	APC	Price
DC POWER SYS, FP2 SYSTEM / REAR WIRE 600AMP MAX, 23 IN RM -48V 2 BATT	-	DS259723	207	\$9,181.00
FP2 SYSTEM, -48V, 168A MAX, 19IN., (4)REC POS., (6) BREAKER POS	-	DS264118	207	\$2,330.00
DC POWER SYS, FP2 600 AMP -48V 23IN RACK MT DUAL AC INPUT PER RECTIFIER	-	DS299199	207	\$10,579.00
DC POWER SYSTEM, FP2 23IN RACK MOUNTED 1344 AMP -48V DUAL AC INPUT	-	DS299235	207	\$17,907.00
FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	-	DS305827	207	\$5,435.00
FP2 SYSTEM / FRONT/REAR WIRE 500AMP MAX, LVBD ONLY -48V 19IN 7RU	-	DS305831	207	\$5,972.00
FP2 DC/DC PRIMARY 48V/333, SEC 224V/224	-	DS315268	207	\$5,932.00
DC PWR SYS FP2 REAR WIRE 168AMP -48V 19IN DUAL AC INPUT (4) RECTIFIER	-	DS327061	207	\$4,615.00
DC POWER SYSTEM, 48V, 84X23X22 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPSX2001	207	\$6,046.00
DC POWER SYSTEM, 48V, 84X19X18 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPSX200193	207	\$6,961.00
48V, 200A, 19IN. SYSTEM W/3/ BATT TRAYS TO ACCOM (2)LG STRINGS 48V BT	-	DSDCPSX200198C	207	\$7,803.00
48V, 200A DC POWER SYS, 84X23X22 RACK, 2 BATT TRAY, 2 BATT BRK	-	DSDCPSX20025	207	\$6,797.00
48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK	-	DSDCPSX20038S	207	\$8,031.00
RECTIFIER, 48V, 75AMP	-	DSLMMHF7548VZE1	207	\$1,560.00
800A, 48VDC POWER SYSTEM, 1200A LMDC, (9) 75A RECT POS, 800A BATT DISC	-	DSLMMHF800BD	207	\$15,560.00
Batteries				
BATTERY,VRLA,48V,840AH,4X6,MSENDUR AT-15P	-	DS1810150	207	\$21,372.00
BAT,VRLA,48V STRG,800AH,GNB100G17,TAL (NON-LOI)	-	DS18135210	207	\$19,302.00
48V 62AH 12V62F BATT SET	-	DS0991055758	207	\$1,802.00



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
48V 190AH BATT SET # SBS190F	-	DS0991072458	207	\$4,032.00
48V 1360AH BATTERY SET DDM85-33	-	DS208874	207	\$32,708.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	207	\$37,067.00
48V 2000AH BATTERY SET #DDM125-33	-	DS222707	207	\$42,218.00
BATTERY 48V 850AH DDM85-21 BATT SET 4WX6H	-	DS222865	207	\$22,664.00
BATTERY, 48V 1000AH DDM100-21 BATT SET 3WX8H	-	DS222806	207	\$25,360.00
BATTERY, 48V 1300AH BATT SET# DDM100-27 3 WIDE X 8 HIGH	-	DS222708	207	\$31,277.00
48V 2000AH BATTERY SET #DDM125-33	-	DS222707	207	\$42,218.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	207	\$37,067.00
Inverters/Converters				
Description	Full Description	Nomenclature	APC	Price
INVERTER, 1000 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS17254812060U	207	\$1,952.00
INVERTER, 250 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS16524812060P	207	\$1,006.00
INVERTER, 1 KVA, 24VDCIN/120VACOUT 2RU RM 19/23 INCH	Inverter	DS298510	207	\$2,605.00
CONVERTER, 200-WATT, SINGLE OUTPUT 48 VDC INPUT TO 13 VDC OUTPUT	-	DS1720481315	207	\$943.00
CONVERTER, MOBILE, 24 VDC INPUT TO 12 VDC OUTPUT, 15 AMPS	-	DS1650241215	207	\$253.00
CONVERTER, 400W, 48VDC INPUT TO 13 VDC OUTPUT W/ PARALLELING OPTION	-	DS1720481330M3	207	\$1,548.00
Generators				
Description	Full Description	Nomenclature	APC	Price
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, NO ENCL	-	DSSG035IDNG	329	\$22,850.00
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, ID 5.4 L, UPSIZE TO 40KW	-	DSSG035IDVP	207	\$23,272.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODNG	207	\$26,443.00
GENERATOR, 35KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODVP	207	\$28,930.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SANG	207	\$30,223.00
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SAVP	207	\$30,223.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG050ODNG	207	\$32,736.00
GENERATOR, 50KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG050ODVP	207	\$32,766.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SANG	207	\$35,678.00
GENERATOR, 50KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SAVP	207	\$36,554.00
GENERATOR, 70KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070ODNG	207	\$39,203.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070ODVP	207	\$39,204.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG070SAVP	207	\$43,229.00
80KW-LPV: INDOOR: 120/240VAC;1PH; 8.0L; LOW EMISSION; NO ENCL; UPSIZE	-	DSSG080DVP	207	\$39,804.00
GENERATOR, 80KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG080ODVP	207	\$39,575.00
GENERATOR, 100KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG100SAVP	207	\$45,450.00
130KW-LPV: OUTDOOR: 120/240VAC;1PH; 9.0L; LOW EMISSION; LVL2 ENCL	-	DSSG130SAVP	207	\$54,278.00
GENERATOR, 25KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS25CD0DDL	207	\$36,602.00
GENERATOR, 25KW NAT GAS, 120/240V SOUND ATTENUATED HOUSING	-	DS25CNSANG	207	\$29,782.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS35CD0DDL	207	\$38,738.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, SOUND ATTENUATED HOUSING	-	DS35CNSADL	207	\$40,653.00
GENERATOR, 35KW NG, 120/208V 3PH, SA HOUSING	-	DS35CN6HSANG3PH	207	\$31,263.00
GENERATOR, 35 KW 1 PHASE OUTDOOR SOUND ATTENUATED HOUSING	-	DS35CN6SANG	207	\$48,450.00
GENERATOR, 50 KW 1 PHASE OUTDOOR	-	DS50CD0DDL	207	\$66,880.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, OD HOUSING	-	DS50GDHDAODL	207	\$43,615.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, LVL2 SOUND ATTENUATED HSG (OD)	-	DS50GDHDSADL	207	\$49,257.00
80KW DIESEL GENERATOR, 1PH, SOUND ATTN HOUSING	-	DS80DFAESADL	207	\$55,946.00
GENERATOR, 80KW DIESEL, 120/240 1PH, SOUND ATTENUATED HOUSING	-	DSC80DCSADL	207	\$57,055.00

Public Safety LTE Device Manager 'DM'

Non-Redundant or Redundant Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD: 1K TO 5K CLIENT EXPANSION	-	CA03233AA	56	\$52,920.00
ADD: 5K TO 10K CLIENT EXPANSION	-	CA03234AA	56	\$47,460.00
ADD: 10K TO 25K CLIENT EXPANSION	-	CA03235AA	56	\$134,400.00
ADD : 25K TO 50K CLIENT EXPANSION	-	CA03236AA	56	\$158,340.00
ADD: 50K TO 100K CLIENT EXPANSION	-	CA03237AA	56	\$179,760.00
MSM-CLIENT LIC ADDS	-	T8058	56	\$0.00

Upgrade from MD Release 9 to 11:

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,OMA DM SERVER	-	CVN7263	877	\$0.00

SPARES

OMA_DM Server FRE:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00

Diameter Routing Agent (DRA)

Description	Full Description	Nomenclature	APC	Price
DRA HW/SW 500 MPS	-	TT2795	54	\$160,550.00
DRA HW/SW 1K MPS	-	TT2796	54	\$177,540.00
DRA HW/SW 2.5K MPS	-	TT2797	54	\$228,500.00
DRA HW/SW 5K MPS	-	TT2798	54	\$312,670.00
DRA HW/SW 10K MPS	-	TT2799	54	\$476,930.00
DRA HW/SW 25K MPS	-	TT2800	54	\$932,110.00
DRA HW/SW 50K MPS	-	TT2801	54	\$1,564,770.00
DRA HW/SW 100K MPS	-	TT2802	54	\$2,862,600.00
Spares				
Description	Full Description	Nomenclature	APC	Price
DRA HW/SW FROM 500 TO 1K	-	TT2803	54	\$27,200.00
DRA HW/SW FROM 1K TO 2.5K	-	TT2804	54	\$66,250.00
DRA HW/SW FROM 2.5K TO 5K	-	TT2805	54	\$103,530.00
DRA HW/SW FROM 5K TO 10K	-	TT2806	54	\$197,110.00
DRA HW/SW FROM 10K TO 15K	-	TT2807	54	\$197,110.00
DRA HW/SW FROM 15K TO 25K	-	TT2808	54	\$311,580.00
DRA HW/SW FROM 25K TO 35K	-	TT2809	54	\$311,580.00
DRA HW/SW FROM 35K TO 50K	-	TT2817	54	\$459,310.00
DRA HW/SW FROM 50K TO 75K	-	TT2818	54	\$713,820.00
DRA HW/SW FROM 75K TO 100K	-	TT2819	54	\$713,820.00

Spares

Description	Full Description	Nomenclature	APC	Price
PFM LOD	-	DDN1976	54	\$10,361.00
CMXB3 EGEM2	-	DDN1977	54	\$9,380.00
SCXB3	-	DDN1978	54	\$9,473.00
GEPS-48GB	-	DDN1979	54	\$14,588.00
GEPS-1200	-	DDN1980	54	\$27,771.00

DIGITAL VEHICULAR REPEATER 700MHZ

Models

Description	Full Description	Nomenclature	APC	Price
700MHZ DVR FIXED MOUNT TACTICAL APPLICATION B	- Indoor wall mounted case (AC power) - Outdoor enclosure option available - Standalone repeater (no mobile in use) - For Canadian use only	TT2061	571	\$11,028.00
700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION A	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2042	571	\$10,741.00
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range	TT2039	571	\$14,236.00
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION A	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequencies, and no 700 mobile frequencies in use	TT2038	571	\$14,248.00
700MHZ DVR TRANSPORTABLE IN-BAND APPLICATION A	- Suitcase mounted (DC or AC power) - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range, and no 700 mobile frequencies in use - Mobile not included	TT2046	571	\$16,829.00

Description	Full Description	Nomenclature	APC	Price
700MHZ DVR SIDE-BY-SIDE CROSS-BAND APPLICATION B	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2043	571	\$10,741.0
700MHZ DVR SUITCASE IN-BAND APPLICATION B	-	TT2047	571	\$13,463.0
700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	-	TT2040	571	\$13,389.0
700MHZ DVR SUITCASE IN-BAND APPLICATION C	-	TT2048	571	\$16,829.0
700MHZ DVR SUITCASE CROSS-BAND APPLICATION A	-	TT2050	571	\$10,677.0
700MHZ DVR SUITCASE CROSS-BAND APPLICATION B	-	TT2051	571	\$10,667.0
700MHZ DVR VEHICLE MOUNT TACTICAL APPLICATION A	-	TT2044	571	\$10,124.0
Options				
Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
Mounting				
Description	Full Description	Nomenclature	APC	Price
DVR CABINET OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00
SUITCASE DVRS OPTIONS				
Description	Full Description	Nomenclature	APC	Price
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00
ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
UNITY GAIN ANTENNA 700/800 MHZ	-	DDN9016	571	\$286.00
Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
Cable(s)				
Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
Kits				
Description	Full Description	Nomenclature	APC	Price
DVR MIGRATION SOFTWARE XTL TO APX VEHICLE	-	DDN1715	571	\$996.00
DVR MIGRATION SOFTWARE XTL TO APX SUITCASE	-	DDN1716	571	\$1,153.00
DVR PROGRAMMING KIT	-	DDN1577	571	\$578.00
Programming				
Description	Full Description	Nomenclature	APC	Price
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
DVR PROGRAMMING SOFTWARE	-	DDN1576	571	\$385.00
WARRANTY & SERVICES				
Description	Full Description	Nomenclature	APC	Price
DVR IN-BAND 4 YEAR EXTENDED WARRANTY	-	DDN2087	571	\$958.00
DVR CROSS-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2086	571	\$170.00
DVR CROSS BAND 4 YEAR EXTENDED WARRANTY	-	DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2088	571	\$340.00

DVR-LX DIGITAL VEHICULAR REPEATER

Description	Full Description	Nomenclature	APC	Price
DVR-LX 700 MHZ IN-BAND VEHICLE MOUNT - FREQUENCY PLAN B	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan B	TT3794	571	\$15,310.0
DVR-LX 700 MHZ IN-BAND VEHICLE MOUNT - FREQUENCY PLAN A	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan A	TT3793	571	\$15,310.0
DVR LX 700 MHZ IN-BAND SUITCASE - FREQUENCY PLAN A	DVR LX 700 MHz In-Band Suitcase - Frequency Plan A	TT3796	571	\$20,756.0
DVR-LX 700 MHZ CROSS-BAND VEHICLE MOUNT	DVR-LX 700 MHz Cross-Band Vehicle Mount	TT3799	571	\$11,815.0
DVR-LX 700 MHZ IN-BAND SUITCASE - FREQUENCY PLAN B	DVR-LX 700 MHz In-Band Suitcase - Frequency Plan B	TT3797	571	\$20,756.0
DVR-LX 700 MHZ IN-BAND VEHICLE MOUNT - FREQUENCY PLAN C	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan C	TT3795	571	\$15,310.0
DVR-LX 700 MHZ IN-BAND SUITCASE - FREQUENCY PLAN C	DVR LX 700 MHz In-Band Suitcase - Frequency Plan C	TT3798	571	\$20,756.0
DVR-LX 700 MHZ CROSS-BAND SUITCASE	DVR-LX 700 MHz Cross-Band Suitcase	TT3800	571	\$14,668.0
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN TIME OF ORDER -- PSU Conventional Scan Feature please order TT3817A (NO CHARGE) for DVR-LX FIELD UPGRADE -- For PSU Conventional Scan Feature Field upgrade please order DDN3175A (Bulk Charge) For DVR-LX Notes for the FIELD UPGRADE OPTION When placing an order, the following information is required: End User Agency Details DVR-LX serial number(s) Contact name Contact email address Contact telephone number Please note: PSU Conventional Scan (Bulk Order) Field Upgrade Licensed Feature; PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. 1. Requires DVR-LX software release 1.61 or greater 2. Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade and any require not included in kit. 3. PSU will need to have both QA00631 (DVRs Enabled PSU) & HA00677 (DVRs PSU Conventional Scan enabled) Note: To qualify for bulk order, all serial numbers must be provided to Futurecom at the time of order. The PSU Conventional Scan Feature License will be applicable only to the serial numbers provided. Should the Customer fail to provide the serial numbers for all units at the time of order, the Customer must place a new order for DDN3175A when the remaining serial numbers are available.	TT3817A	571	\$0.00
Options				
Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	-	TT06279AA	571	\$0.00
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00

AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX. Authentication Field Upgrade Licensed Feature: Portable Link Layer authentication through the DVR-LX® Prevent unauthorized portables accessing the radio network (per unit). 1. Requires DVR-LX® software release 1.51 or greater. 2. Requires mobile and portable to be running compatible firmware version (R20.02.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX. RM-OTAP Field Upgrade Licensed Feature: This feature enables operator to perform firmware and configuration update on each DVR-LX® unit using Motorola Radio Management via the Mobile Radio. 1. Requires DVR-LX® software release 1.60 or greater. 2. Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN If you have DVR_LX and require PSU CONVENTIONAL SCAN please order DDN3175A. If ordering DVR_LX for the first time, and adding TT3817A option is at no cost. PSU Conventional Scan (Bulk Order) Field Upgrade Licensed Feature: PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. 1. Requires DVR-LX® software release 1.61 or greater. 2. Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade and any require not included in kit. 3. PSU will need to have both QA00631 (DVRs Enabled PSU) & HA00677 (DVRs PSU Conventional Scan enabled). Note: To qualify for bulk order, all serial numbers must be provided to Futurecom at the time of order. The PSU Conventional Scan Feature License will be applicable only to the serial numbers provided. Should the Customer fail to provide the serial numbers for all units at the time of order, the Customer must place a new order for DDN3175A when the remaining serial numbers are available.	DDN3175A	571	\$1,424.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRs MSU GA00631. The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRs MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN – TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN – TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00
SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX® INSTALLATION KIT – Includes Fuse installation kit, DVR-LX®, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX® ONLY) (PN 7K093X01) Must specify DVR-LX® configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
DVR-LX -- GPS DRIVEN DEACTIVATION	GPS Driven Deactivation Factory Installed Optional Feature License (per unit)	TT4006A	571	\$101.00
DVR -- GPS DRIVEN DEACTIVATION	GPS Driven Deactivation Field Upgrade Optional Feature License (per unit)	DDN3261A	571	\$303.00
DVR-LX -- GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	DDN3283A	571	\$203.00
ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Virtual Training (EXTENDED) Must purchase BASIC virtual training	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Virtual Training (BASIC) 2 Courses Available: 1. Training the Trainer/end user 1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. OR 2. Technical and Programming Training 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/DVR/VRX1000/PR0000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience. Please see ordering guide for additional information.	DDN1974	571	\$4,000.00
Antennas for Vehicle Mount DVR/DVR-LX®				
Description	Full Description	Nomenclature	APC	Price
ANTENNA, VHF (138-144MHZ) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 136 – 144 MHz	HAD4006	554	\$19.50
ANTENNA, VHF (144-150.8 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 144 – 150.8 MHz	HAD4007	554	\$19.50
ANTENNA, VHF (150.8-162 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 150.8 – 162 MHz	HAD4008	554	\$19.50
ANTENNA, VHF (162-174 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 162 – 174 MHz	HAD4009	554	\$19.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	Antennas for Vehicle Mount DVR/DVR-LX® 380 – 433 MHz	HAE6012	585	\$23.00
ANTENNA, UHF (450-470 MHz) 1/4 WAVE ROOF MOUNT	Antennas for Vehicle Mount DVR/DVR-LX® 450 – 470 MHz	HAE4003	554	\$21.50
ANTENNA, UHF (470-512 MHz) 1/4 WAVE ROOF MOUNT	Antennas for Vehicle Mount DVR/DVR-LX® 470 – 512 MHz	HAE4004	554	\$20.00
ANTENNA (762-870 MHz) 1/4 WAVE	Antennas for Vehicle Mount DVR/DVR-LX® 764 – 870 MHz	HAF4016	554	\$23.00
Mag Mount Antennas				
Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA VHF	Mag Mount Antennas 136-174 MHz	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	Mag Mount Antennas 380-520 MHz	DDN9015	571	\$286.00
UNITY GAIN ANTENNA 700/800 MHZ	Mag Mount Antennas 764-869 MHz	DDN9016	571	\$286.00
Cable(s), Batterie(s), Accessorie(s)				
Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes. UPGRADE (NEW DVR/DVR-LX® ORDERS ONLY) DVR/DVR-LX® TO APX MOBILE RADIO Y CONTROL CABLE (PN 1W083B09-01, 3 ft)	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD) DVR/DVR-LX® POWER CABLE FOR VEHICLE MOUNT DVR/DVR-LX® (PN 1W083A01-01)	DDN9030	571	\$203.00
DVR DC POWER CABLE	DC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X32-01)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	DVR/DVR-LX® OPTIONS CABLE (PN 7W083X06-01, 2.5 ft)	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	DVR/DVR-LX® TO APX MOBILE RADIO CONTROL CABLE (PN 7W083X05-01, 3 ft) Custom cable lengths are available in 5 ft, 10 ft, 15 ft, 20 ft and 25 ft (MAX). Custom cable length must be specified on the purchase order to Futurecom.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	DVR/DVR-LX® RF SWITCH CABLE FOR VEHICLE MOUNT DVR-LX® (PN 7W083X09-01, 1 ft)	DDN9032	571	\$203.00
DVR AC POWER CABLE	AC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X17-01)	DDN9525	571	\$204.00
DVR PROGRAMMING CABLE 10FT	AC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X17-01)	DDN9025	571	\$202.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	DVR/DVR-LX® TO APX MOBILE RADIO FLAT MOUNT CONTROL CABLE (PN 7W083X83-01, 3 ft) Custom cable lengths are available in 5 ft, 10 ft, 15 ft, 20 ft and 25 ft (MAX). Custom cable length must be specified on the purchase order to Futurecom.	DDN2645	571	\$682.00
ASSEMBLY, 1.5 FEET CAN CABLE	Control Head to Mobile Cable 2 ft, ideal for Suitcase DVR/DVR-LX® (SOLD EXCLUSIVELY THROUGH MOTOROLA SOLUTIONS, INC.)	HKN6245A	362	\$25.00
DVR TO MOBILE Y CONTROL CABLE 3FT	DVR/DVR-LX® TO APX MOBILE RADIO Y CONTROL CABLE (PN 1W083B09-01, 3 ft)	DDN9029	571	\$412.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	RF CABLE DVR/DVR-LX® TO DVR/DVR-LX® NOTCH FILTER FOR VEHICLE MOUNT DVR-LX® (PN 7W083X16-01, 3 ft)	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	RF CABLE MOBILE TO NOTCH FILTER FOR VEHICLE MOUNT DVR/DVR-LX® (PN 7W083X17-01, 3 ft)	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	RF CABLE APX8500 MOBILE TO NOTCH FILTER FOR VEHICLE MOUNT DVR/DVR-LX® (PN 7W900X94-02, 3 ft)	DDN2719	571	\$203.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR BATTERY BACK UP DC POWER CABLE	DVR/DVR-LX® BATTERY BACK UP DC POWER CABLE (PN 7W077X11-01)	DDN2646	571	\$551.00
ZIPPERED ACCESSORY POUCH	ZIPPERED ACCESSORY POUCH (PN 3Y068B01-01)	DDN2335	482	\$203.00
BACKPACK SLINGS COYOTE COLOR	BACKPACK SLING – COYOTE COLOR	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	BACKPACK SLING – MULTI CAM COLOR	DDN2886	571	\$2,118.00
RACKMOUNT ALARM CAPABILITY -- CONTACT CLOSURE TYPE: TEMPERATURE, POWER	RACKMOUNT ALARM CAPABILITY (Optional)	TT3935A	571	\$401.00

Description	Full Description	Nomenclature	APC	Price
DVR STANDARD BLACK SUITCASE	STANDARD SUITCASE CASE COLOR - BLACK	TT06070AA	571	\$0.00
DVR STANDARD ORANGE SUITCASE	STANDARD SUITCASE CASE COLOR - ORANGE	TT06069AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	OPTIONAL SUITCASE COLOR - DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH YELLOW SUITCASE COLOR	TT06071AA	571	\$519.00
DVR OPTIONAL SILVER SUITCASE	OPTIONAL SUITCASE COLOR - DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH SILVER SUITCASE COLOR	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	OPTIONAL SUITCASE COLOR - DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH DESERT TAN SUITCASE COLOR	TT06073AA	571	\$415.00
DVR STANDARD 220VAC POWER SUPPLY	STANDARD 220 VAC POWER SUPPLY	TT06076AA	571	\$0.00
DVR STANDARD 120VAC POWER SUPPLY	STANDARD 120 VAC POWER SUPPLY	TT06075AA	571	\$0.00
SUITCASE DVRS OPTIONS				
Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVR-LX and PDR8000	TT06144AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVR-LX and PDR8000	TT06145AA	571	\$1,714.00
Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
Warranty & Services				
Standard Warranty is 18 months				
Description	Full Description	Nomenclature	APC	Price
DVR CROSS BAND 4 YEAR EXTENDED WARRANTY	DVR/DVR-LX@ Cross Band 4 Year Extended Warranty Extends standard warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANTY	DVR/DVR-LX@ In-Band 1 Year Extended Warranty Extends any existing warranty by 1 year. Can only be purchased a maximum of 4 times per unit. Cannot be purchased in conjunction with 4 year extended warranty. Must be purchased prior to expiration of any existing warranty.	DDN2088	571	\$340.00
DVR IN-BAND 4 YEAR EXTENDED WARRANTY	DVR/DVR-LX@ In-Band 4 Year Extended Warranty Extends standard warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	Vehicle Technical and Programming Support (BASIC) Maximum 1 day; see EXTENDED support for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Virtual Training (BASIC) 2 Courses Available: 1. Training the Trainer/end user 1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. OR 2. Technical and Programming Training 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX@/DVR/VRX1000/PDR8000@ is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience. Please see ordering guide for additional information.	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Virtual Training (EXTENDED) Must purchase BASIC virtual training	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	Virtual Technical and Programming Support (EXTENDED) Must purchase BASIC virtual technical and programming support.	DDN1972	571	\$1,600.00
DVR CROSS-BAND 1 YEAR EXTENDED WARRANTY	DVR/DVR-LX@ Cross Band 1 Year Extended Warranty Extends any existing warranty by 1 year. Can only be purchased a maximum of 4 times per unit. Cannot be purchased in conjunction with 4 year extended warranty. Must be purchased prior to expiration of any existing warranty.	DDN2086	571	\$170.00
DVR-LX 800 MHZ				
Description	Full Description	Nomenclature	APC	Price
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3887A	571	\$15,310.00
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3890A	571	
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3891A	571	20756
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C	-	TT3889A	571	\$15,310.00
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN C	-	TT3892A	571	
DVR-LX 800 MHZ VEHICLE MOUNT CROSS-BAND	-	TT3893A	571	11815
DVR-LX 800 MHZ SUITCASE CROSS-BAND	-	TT3894A	571	14,667.00
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3888A	571	\$15,310.00
DVR LX 800 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A OR PLAN B OR PLAN C	Rackmount	TT3933A	571	\$19,250.00
DVR-LX 800 MHZ RACKMOUNT CROSS BAND	Rackmount	TT3934A	571	\$15,750.00
800 MHZ 50-WATT AMPLIFIER FOR RACKMOUNT DVR-LX	-	TT3939A	571	\$6,111.00
Options				
Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	0
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	TT06279AA	571	
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	203
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	DDN3175A	571	\$1,424.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	TT3817A	571	\$0.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX@ compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631. The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX@ compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
CUSTOM FILTER DESIGN TIER 1				
CUSTOM FILTER DESIGN - TIER 1	This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX@ or VRX1000	TT06580AA	571	
CUSTOM FILTER DESIGN TIER 2				
CUSTOM FILTER DESIGN - TIER 2	This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX@ or VRX1000	TT06581AA	571	5213
SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX@ INSTALLATION KIT - Includes Fuse installation kit, DVR-LX@, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX@ ONLY) (PN 7K093X01) Must specify DVR-LX@ configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX@ - GPS Driven Deactivation	TT4006A	571	\$101.00
DVR - GPS DRIVEN DEACTIVATION	DVR - GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX@ - GPS Driven Deactivation	DDN3263A	571	
ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. See EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
Antennas for Vehicle Mount DVR/DVR-LX@				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4006	554	19.50
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$19.50



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$19.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	585	\$23.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$21.50
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$20.00
Mag Mount Antennas				
Unity Gain Antenna VHF				
UNITY GAIN ANTENNA 700/800 MHZ	-	DDN9014	571	
UNITY GAIN ANTENNA UHF	-	DDN9015	571	286
Cable(s), Batterie(s), Accessorie(s)				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	203
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	203
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR PROGRAMMING CABLE 10FT		DDN9025	571	
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT		DDN2645	571	
DVR TO MOBILE Y CONTROL CABLE 3FT		DDN9029	571	412
ASSEMBLY, 1.5 FEET CAN CABLE		HKN6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT		DDN9033	571	
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT		DDN9034	571	203
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN		DDN2719	571	\$203.00
DVR BATTERY BACK UP DC POWER CABLE		DDN2646	571	
ZIPPERED ACCESSORY POUCH		DDN2335	482	203
BACKPACK SLING MULTI-CAM COLOR		DDN2886	571	\$2,118.00
BACKPACK SLING COYOTE COLOR		DDN2885	571	\$2,118.00
SUITCASE COLOR DVR/DVR-LX® OPTIONS / SUITCASE DVR/DVR-LX® POWER SUPPLY OPTIONS				
Description	Full Description	Nomenclature	APC	Price
DVR STANDARD 220VAC POWER SUPPLY		TT06076AA	571	
DVR OPTIONAL YELLOW SUITCASE		TT06071AA	571	519
DVR STANDARD 120VAC POWER SUPPLY		TT06075AA	571	\$0.00
DVR STANDARD BLACK SUITCASE		TT06070AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE		TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE		TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE		TT06069AA	571	\$0.00
SUITCASE DVRS OPTIONS				
Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - COYO		TT06144AA	571	
Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
Warranty & Services				
Standard Warranty is 18 months.				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
DVR CROSS-BAND 1 YEAR EXTENDED WARRANTY		DDN2086	571	\$170.00
DVR CROSS BAND 4 YEAR EXTENDED WARRANTY		DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANTY		DDN2088	571	\$340.00
DVR IN-BAND 4 YEAR EXTENDED WARRANTY		DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)		DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)		DDN1972	571	\$1,600.00

The DVR-LX UHF

Models
Options

Description	Full Description	Nomenclature	APC	Price
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
DVR-LX PSU CONVENTIONAL SCAN		TT3817A	571	\$0.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A		TT3871A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B		TT3872A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C		TT3873A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN D		TT3874A	571	\$19,235.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A		TT3875A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B		TT3876A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN C		TT3877A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN D		TT3878A	571	\$22,700.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS-BAND - FREQUENCY PLAN A		TT3879A	571	\$11,815.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS-BAND - FREQUENCY PLAN B		TT3880A	571	\$11,815.00
DVR-LX 380-430 MHZ SUITCASE CROSS-BAND FREQUENCY PLAN A		TT3897A	571	\$14,667.00
DVR-LX 380-430 MHZ SUITCASE CROSS-BAND FREQUENCY PLAN B		TT3898A	571	\$14,667.00
DVR-LX 450-470 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A		TT3881A	571	\$17,075.00
DVR-LX 450-470 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B		TT3882A	571	\$17,075.00
DVR-LX 450-470 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A		TT3883A	571	\$19,928.00
DVR-LX 450-470 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B		TT3884A	571	\$19,928.00
DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS-BAND		TT3885A	571	\$11,815.00
DVR-LX 450-470 MHZ SUITCASE CROSS-BAND		TT3886A	571	\$14,667.00
DVR-LX 380-430 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A, PLAN B OR PLA	Rackmount	TT3929A	571	\$23,166.00
DVR-LX 380-430 MHZ RACKMOUNT CROSS BAND FREQUENCY PLAN A, PLAN B	Rackmount	TT3930A	571	\$15,750.00
DVR-LX 450-470 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A OR PLAN B	Rackmount	TT3931A	571	\$21,006.00
DVR-LX 450-470 MHZ RACKMOUNT CROSS BAND	Rackmount	TT3932A	571	\$15,750.00
Field Upgrade Licensed Feature(s)				
Description	Full Description	Nomenclature	APC	Price
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN		DDN3175A	571	\$1,424.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631. The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00

SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, WI-FI) per unit 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	DDN3230A	571	\$253.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	TT4008A	571	\$10,421.00
DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	TT4009A	571	\$10,421.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN - TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN - TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00
SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX® INSTALLATION KIT - Includes Fuse installation kit, DVR-LX®, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX® ONLY) (PN 7K093X01) Must specify DVR-LX® configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	TT4006A	571	\$101.00
DVR -- GPS DRIVEN DEACTIVATION	DVR -- GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX -- GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	DDN3263A	571	\$203.00
ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
Antennas for Vehicle Mount DVR/DVR-LX®				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4006	554	\$19.50
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$19.50
ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	-	HAD4008	554	\$19.50
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$19.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	585	\$23.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$21.50
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$20.00
Mag Mount Antennas				
Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA 700/800 MHZ	-	DDN9016	571	\$286.00
UNITY GAIN ANTENNA VHF	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00
Cable(s), Batterie(s), Accessories(s)				
Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	-	DDN2645	571	\$682.00
ASSEMBLY, 1.5 FEET CAN CABLE	-	HKN6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	-	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	-	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	-	DDN2719	571	\$203.00
DVR BATTERY BACK UP DC POWER CABLE	-	DDN2646	571	\$551.00
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	-	DDN2886	571	\$2,118.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR TO MOBILE Y CONTROL CABLE 3FT	-	DDN9029	571	\$412.00
SUITCASE COLOR DVR/DVR-LX® OPTIONS				
Description	Full Description	Nomenclature	APC	Price
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
SUITCASE DVR/DVR-LX® POWER SUPPLY OPTIONS				
Description	Full Description	Nomenclature	APC	Price
DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
Warranty & Services				
Standard Warranty is 18 months				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
DVR CROSS-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2086	571	\$170.00
DVR CROSS BAND 4 YEAR EXTENDED WARRANTY	-	DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2088	571	\$340.00
DVR IN-BAND 4 YEAR EXTENDED WARRANTY	-	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	-	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00

DVR-LX VHF

Models				
Description	Full Description	Nomenclature	APC	Price
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3859A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3860A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C	-	TT3861A	571	\$16,577.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3864A	571	\$19,429.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3865A	571	\$19,429.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN C	-	TT3866A	571	\$19,429.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN D	-	TT3862A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN E	-	TT3863A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT CROSS-BAND	-	TT3869A	571	\$11,815.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN D	-	TT3867A	571	\$19,429.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN E	-	TT3868A	571	\$19,429.00
DVR-LX VHF SUITCASE CROSS-BAND	-	TT3870A	571	\$13,643.00
DVR-LX VHF RACKMOUNT IN-BAND- FREQUENCY PLAN A OR PLAN B OR PLAN C	Rackmount	TT3926A	571	\$20,509.00
DVR-LX VHF RACKMOUNT IN-BAND - FREQUENCY PLAN D OR PLAN E	Rackmount	TT3927A	571	\$20,509.00
DVR-LX VHF RACKMOUNT CROSS-BAND	Rackmount	TT3928A	571	\$15,750.00
Options				
Description	Full Description	Nomenclature	APC	Price
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	DDN3175A	571	\$1,424.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	TT3817A	571	\$0.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631. The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	TT4006A	571	\$101.00
DVR - GPS DRIVEN DEACTIVATION	DVR -- GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	DDN3263A	571	\$203.00
ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day, see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
Antennas for Vehicle Mount DVR/DVR-LX®				
Description	Full Description	Nomenclature	APC	Price
ANTENNA VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$19.50
ANTENNA VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$19.50
ANTENNA VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	-	HAD4008	554	\$19.50
ANTENNA VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$19.50
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	585	\$23.00
ANTENNA UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$21.50
ANTENNA UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$20.00
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
Mag Mount Antennas				
Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA 700/800 MHZ	-	DDN9016	571	\$286.00
UNITY GAIN ANTENNA VHF	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00
Cable(s), Batterie(s), Accessorie(s)				
Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT, 10FT, 15FT, 20FT, 25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	-	DDN2645	571	\$682.00
ASSEMBLY 1.5 FEET CAN CABLE	-	HKN6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	-	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	-	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	-	DDN2719	571	\$203.00
ZIPPED ACCESSORY POUCH	-	DDN2335	482	\$203.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	-	DDN2886	571	\$2,118.00
DVR BATTERY BACK UP DC POWER CABLE	-	DDN2646	571	\$551.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR TO MOBILE Y CONTROL CABLE 3FT	-	DDN9029	571	\$412.00
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
SUITCASE COLOR DVR/DVR-LX® / SUITCASE DVR/DVR-LX® POWER SUPPLY				
Description	Full Description	Nomenclature	APC	Price
DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
SUITCASE DVRS OPTIONS				
Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
Warranty & Services				
Standard Warranty is 18 months				
Description	Full Description	Nomenclature	APC	Price
DVR CROSS-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2086	571	\$170.00
DVR CROSS BAND 4 YEAR EXTENDED WARRANTY	-	DDN2085	571	\$605.00
DVR IN-BAND 1 YEAR EXTENDED WARRANTY	-	DDN2088	571	\$340.00
DVR IN-BAND 4 YEAR EXTENDED WARRANTY	-	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	-	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00

VRX1000 - VEHICLE RADIO EXTENDER
1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
VRX1000 - UHF 380-512 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2793	571	\$3,350.00
VRX1000-7800 769-775/851-869 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2794	571	\$3,350.00
VRX1000 - VHF 136-174 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2792	571	\$3,350.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	Remote Mount APXTM 8500 with any Control Head, all band	TT06279AA	571	\$0.00

Factory Installed Licensed Features
3. Software Enhancements

Description	Full Description	Nomenclature	APC	Price
VRX1000 P25 ENHANCED TRUNKING OPERATION	Adds enhanced trunking feature set capabilities. Requires Digital Operation on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	TT05953AA	571	\$1,680.00
VRX1000 AUTHENTICATION	Portable Link Layer authentication through the VRX1000 Prevents unauthorized portables accessing the radio network (per unit) TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.51 or greater	TT06566AA	571	\$151.00
VRX1000 RM-OTAP	This feature enables operators to perform firmware & configuration updates on each VRX1000 unit using Motorola Radio Management via the mobile radio. Requires VRX1000 software release 1.60 or greater Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit. This	TT06569AA	571	\$151.00
VRX1000 PSU CONVENTIONAL SCAN	PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.61 or greater Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade and any required options not included in kit. vptbn	TT3816A	571	\$0.00
SMARTCONNECT	Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) per unit. The Motorola Y CABLE GA01779 is required. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features 1. Requires VRX1000 compatibility software release (See Compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See Compatibility Charts for reference) 3. Requires SmartConnect GA01630 & DVRS MSU GA0063	TT3924A	571	\$101.00
VRX1000 - BACK-UP PUSH TO TALK (BUPTT) FIELD UPGRADE OPTIONAL FEATURE	Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) per unit. TT05951AA & or DDN1960A & Requires SmartConnect GA01630 & DVRS MSU GA00631	DDN3229A	571	\$203.00
VRX1000 P25 DIGITAL CONVENTIONAL OPERATION	VRX1000 P25 DIGITAL CONVENTIONAL OPERATION AND ENCRYPTION.	TT05951AA	571	\$1,560.00
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	TT4005A	571	\$51.25
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	DDN3262A	571	\$151.00

Section D: Field Upgrade Licensed Features
Software Upgrades

Description	Full Description	Nomenclature	APC	Price
SOFTWARE, P25 PHASE 1 OPERATION	This upgrade kit will add P25 Digital Capability to the standard Analog VRX1000	DDN1960	571	\$1,560.00
VRX1000 P25 ENHANCED TRUNKING OPERATION	This upgrade kits adds enhanced trunking feature set capabilities. Requires Digital Operation (or DDN1960A) on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	DDN1962	571	\$1,680.00
AUTHENTICATION FOR VRX1000	Portable Link Layer authentication through the VRX1000 Prevents unauthorized portables accessing the radio network (per unit) . TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Or DDN1960A, DDN1962A	DDN3116	571	\$303.00
VRX1000 RM-OTAP	This feature enables operators to perform firmware & configuration updates on each VRX1000 unit using Motorola Radio Management via the mobile radio. Requires VRX1000 software release 1.60 or greater Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3119	571	\$252.00
VRX1000 PSU CONVENTIONAL SCAN	PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.61 or greater Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade.	DDN3174A	571	\$706.00
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	TT4005A	571	\$51.25
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	DDN3262A	571	\$151.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN - TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN - TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00

In-Band Options
4: (regroup so all filter kits are together per band, Plan A and Plan B)

Description	Full Description	Nomenclature	APC	Price
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05949AA	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT UHF PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05948AA	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT VHF PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05946AA	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT VHF PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05945AA	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05950AA	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT UHF PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05947AA	571	\$3,093.00

5: Cables

Description	Full Description	Nomenclature	APC	Price
VRX1000 PROGRAMMING KIT	Programming Kit includes the programming and installation manual, programming software and USB cable (DDN1968A). All manuals are available online for free for download to registered users.	TT05954AA	571	\$480.00
VRX1000 Y CONTROL CABLE AUX 3FT	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00
VRX1000 Y CONTROL CABLE SIREN 3FT	Requires option Delete Standard Cable (TT05956AA).	TT05977AA	571	\$410.00
DEL: DELETE STANDARD CONTROL CABLE - VRX1000	Delete standard VRX to Mobile Radio Control Cable (DDN1969A) from VRX1000 - Used when Y cable is required instead of standard cable - NOTE: Replacement Y cable TT05964AA or TT05977AA MUST be ordered.	TT05956AA	571	(\$110.00)

Section B: Antennas
Antennas
SPARES/KITS/OPTIONS

Description	Full Description	Nomenclature	APC	Price
VRX1000 IN-BAND FILTER KIT VHF PLAN A	-	DDN2073	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT VHF PLAN B	-	DDN2074	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT UHF PLAN A	-	DDN2075	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT UHF PLAN B	-	DDN2076	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN A	-	DDN2077	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN B	-	DDN2078	571	\$3,093.00
VRX1000 MOUNTING KIT	VRX1000 Mounting Kit - Included with all VRX1000 models - Order as spare if required	DDN1963	571	\$203.00
SINGLE RELAY ASS. FOR APX8500 INTERFACE	Relay Kit	DDN2808	571	\$815.00

Cables

Description	Full Description	Nomenclature	APC	Price
VRX1000 PROGRAMMING CABLE	Includes the programming USB cable. All manuals and software are available online for free for download to registered users.	DDN1968	571	\$203.00
VRX1000 TO MOBILE RADIO CABLE 3FT	-	DDN1969	571	\$218.00
VRX1000 CABLE Y-CONTROL CABLE / SIREN 3 FT	-	DDN2053	571	\$410.00
VRX1000 DC POWER CABLE	-	DDN1966	571	\$203.00
VRX1000 Y - CONTROL CABLE / AUX 3FT	-	DDN1970	571	\$360.00
VRX1000 IN-BAND STACKED MOUNT KIT	-	DDN1965	571	\$203.00
VRX1000 FILTER RF CABLE 20IN	-	DDN1967	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	RF Cable for In-Band Filter Kit (PN 7W900X94-01) - Connects APXTM 8500 Mobile Radio to Mobile Radio In-Band filter. QMA RA (m) to mini UHF (m) 20"	DDN2719	571	\$203.00
VRX1000 INSTALLATION KIT	VRX1000 Installation Kit - Includes Bracket, Mini UHF Connector, Fuse Kit, Power Cable - Included with all VRX1000 models - Order as spare if required	DDN2751	571	\$262.00

Updated Pricing for contract 4400016317 as of January 2022

Services

(Regroup so all items are in order)

Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	Virtual Technical and Programming Support (Basic) Maximum 1 day; see EXTENDED support for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.	DDN1971	571	\$4,000.00
VRX IN-BAND 1 YEAR EXTENDED WARRANTY	VRX1000 In-Band 1 Year Extended Warranty. Extends existing warranty by one year. Includes software subscription.	DDN2082	571	\$303.00
VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY	VRX1000 Cross Band 1 Year Extended Warranty. Extends existing warranty by one year. Includes software subscription. Must be purchased prior to expiration of any existing warranty. Standard 18 month warranty can be extended by a maximum of 4 years.	DDN2080	571	\$213.00
VRX1000 IN-BAND 4 YEAR EXTENDED WARRANTY	VRX1000 In-Band 4 Year Extended Warranty. Extends standard 18 month warranty by 4 years. Includes software subscription. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2081	571	\$1,059.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	Virtual Technical and Programming Support (EXTENDED). Must purchase BASIC virtual technical and programming support.	DDN1972	571	\$1,600.00
VRX1000 CROSS-BAND 4 YEAR EXTENDED WARRANTY	VRX1000 Cross Band 4 Year Extended Warranty. Extends standard 18 month warranty by 4 years. Includes software subscription. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2079	571	\$756.00

DUAL INSTANT RECALL RECORDER

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN2722	229	\$2,648.00
DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2723	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 4.0, MCC 5500 Release 2.07, Elite / MCC 7500 A7.14 to A7.16 systems.

Description	Full Description	Nomenclature	APC	Price
VOICE AND DATA LOGGING,DUAL IRR SW USB HASP WITH LICENSE (V47)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN2089	229	\$2,648.00
VOICE AND DATA LOGGING,DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & S	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2090	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 3.0, MCC 5500 Release 2.06, Elite / MCC 7500 A7.11 to A7.13 systems.

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (VERSION 45)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN1245	229	\$2,648.00
COMPUTER PERIPHERAL,IRR SW USB HASP LIC, SOUND CRD V45	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN1244	229	\$2,935.00

Software Upgrade:

Description	Full Description	Nomenclature	APC	Price
IRR SOFTWARE UPGRADE TO V51	Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.17 or later. This is also the current supported version for MIP 5000 Release 4.3 and MCC5500 Release. Purchase one of these for each PC running IRR that needs to be upgraded.	DDN2724	229	\$667.00
IRR SOFTWARE UPGRADE TO V -45	Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.11 - 7.13. This is also the current supported version for MIP 5000 Release 3.0 and MCC5500 Release 2.06 or later. Purchase one of these for each PC running IRR that needs to be upgraded.	DDN1243	229	\$667.00

Individual Items:

Description	Full Description	Nomenclature	APC	Price
TELEPHONE ADAPTER	Used with most telephone styles, provides a simple means of connecting your Computer Sound Card so that it can monitor both sides of all conversations that take place on the handset or headset of your telephone. Automatically starts recorder when handset is lifted.	DDN6489	229	\$242.00
CABLE FOR TELEPHONE ADAPTER	Cable - RJ-11 to 1/8 in. mini plug. Allows connection from the Telephone Adapter to the PC.	DDN6490	229	\$85.00
HOOK SWITCH CABLE FOR MIDI PORT	Used to send a signal that triggers the Instant Recall Recorder software to start recording when off hook condition is detected. The MIDI cable is used to link your computer to your radio equipment, through the MIDI port (Joystick) of your Sound Blaster Sound Card.	DDN6491	229	\$92.00
HOOK SWITCH CABLE FOR COM PORT	Used to send a signal that triggers the IRR software to start recording when off hook condition is detected. The COM port cable is used to link your computer to your radio equipment, through one of the COM port located on every PC.	DDN6492	229	\$87.00
SOUND BLASTER AUDIGY FX PCIE SOUND CARD-NOT COMPAT WITH Z2 MINI	For use with Z440 and Z420 PC's.	DDN2134	229	\$67.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75
INSTANT RECALL RECORDER CABLE FOR MCC 7500	Cable for use with GPIOM/PM using a RJ45 with a 3.5mm connector, 6 feet long.	DDN9649	229	\$95.00

800 MHZ DUPLEXERS
FILTRONIC PARTS

Description	Full Description	Nomenclature	APC	Price
PXC008-V2 700 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC008-V2 SPEC SHEET LINK: https://www.filtronic.com/msi/DSPXC008V2	DSPXC008V2	457	\$1,235.00
800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC009-V2 SPEC SHEET LINK: https://www.filtronic.com/msi/DSPXC009V2	DSPXC009V2	457	\$1,254.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXING SYSTEM, 700 MHZ, RX: 793-805 MHZ / TX: 763-775 MHZ, 2 CH	TXRX PART#: CP05455 SPEC SHEET LINK: https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05455	457	\$5,750.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 2 CH	TXRX PART#: CP05456 SPEC SHEET LINK: https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05456	457	\$5,750.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 1 CHANNE	COMBILENT PARTS: CP06425 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEqQ2T1DfzYtknHrW8KJah/view?usp=sharing	DSCP06425	457	\$4,370.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 1 CHANNE	COMBILENT PARTS: CP06426 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEqQ2T1DfzYtknHrW8KJah/view?usp=sharing	DSCP06426	457	\$4,370.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 2 CHANNE	COMBILENT PARTS: CP06427 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEqQ2T1DfzYtknHrW8KJah/view?usp=sharing	DSCP06427	457	\$5,750.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX AC PWR	DBSPECTRA # - BCDUP03A Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf	DSBCDUP03A	457	\$4,658.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX AC PWR	DBSPECTRA PART#: BCDUP04A SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-199_A_(DSBCDUP03_04).pdf	DSBCDUP04A	457	\$2,990.00
DSD806M, 800MHZ MULTI CHANNEL NOTCH DUPLEXER	DBSPECTRA # - DSD806M Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-063_E_(DSD706M_DSD806M_DSD906M).pdf	DSDSD806M	457	\$518.00
DST7800, TX764-776 & 851-862MHZ, RX 794-816MHZ DUAL BAND DUPLEXER	DBSPECTRA # - DST7800 Requires Tx and rx frequencies when ordering SPEC SHEET LINK: www.dbspectra.com/specifications/DST7800.pdf	DSDS7800	457	\$3,439.00
MILLED WINDOW FILTER DUPLEXER	DBSPECTRA PART#: MWFP7AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B_(MWFPD-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFP7AM	457	\$3,533.00
808-861MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS	DBSPECTRA PART#: MWFP8AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B_(MWFPD-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFP8AM	457	\$3,533.00
DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX DC PWR	DBSPECTRA PART#: BCDUP03D SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-199_A_(DSBCDUP03_04).pdf	DSBCDUP03D	457	\$5,974.00
DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX DC PWR	DBSPECTRA PART#: BCDUP04D SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-199_A_(DSBCDUP03_04).pdf	DSBCDUP04D	457	\$2,990.00

RFI PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEXER, 806-825 & 851-870MHZ, 500W, PIM & PIP RATED	RFI PART#: DP8086-0805-32-WB-HP SPEC SHEET LINK: TBD	DSDP8086080532WHP	457	\$3,329.00

900 MHz DUPLEXERS

COMBLENT PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEXER 06 1 CHANNEL 900 MHZ	COMBLENT # - CP01011 SPEC SHEET LINK - https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/Duplex06_900_MHz_October2013.pdf	DSCP01011	457	\$4,370.00
900 MHZ TWO CHANNEL DUPLEXER	TXRX PART#: CP01031 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP01031	457	\$5,750.00
DUPLEX05 2CH 900MHZ DUAL CHANNEL DUPLEXER 900 MHZ	COMBLENT # - CP01009 SPEC SHEET LINK - https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01009	457	\$5,750.00
DUPLEXING SYSTEM, 900 MHZ, RX: 896-902 MHZ / TX: 935-941 MHZ, 2 CHANNE	COMBLENT PART#: CP06412 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06412	457	\$5,750.00
DUPLEXING SYSTEM, 900 MHZ, RX: 896-902 MHZ / TX: 935-941 MHZ, 1 CHANNE	COMBLENT PART#: CP06413 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06413	457	\$4,370.00

DBSPECTRA PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX AC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP05A	457	\$4,658.00
DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX DC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP05D	457	\$4,658.00
DSD906M, 896-969MHZ, 4MHZ PB NOTCH MBL DPLXR, 50 WATT	DBSPECTRA # - DSD906M SPEC SHEET LINK - http://www.dbspectra.com/specifications/096000-063_E_(DSD706M_DSD806M_DSD906M).pdf	DSDSD906M	457	\$863.00
DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 900MHZ RX 935 941MHZ TX AC PWR	DBSPECTRA PART#: BCDUP06A SPEC SHEET LINK* www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP06A	457	\$3,835.00
DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 900MHZ RX 935 941MHZ TX DC PWR	DBSPECTRA PART#: BCDUP06D SPEC SHEET LINK* www.dbspectra.com/specifications/Motorola/096000-201.A_(DSBCDUP05_06).pdf	DSBCDUP06D	457	\$3,835.00

TXRX PARTS		Nomenclature	APC	Price
Description	Full Description			
SINGLE CHANEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	TXRX # 26-94D-01-01 SPEC SHEET LINK - http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0101	457	\$4,140.00
TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	TXRX # 26-94D-01-02 SPEC SHEET LINK - http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0102	457	\$4,140.00

UHF Duplexers

TXRX PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEXER SYSTEM, SINGLE CHANNEL, 450-470, TX WITH ISOLATORS	TXRX# - 26-70-01-01 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 456-469MHZ RX, 451-464MHZ TX, W/ ISOLATORS	TXRX# - 26-70-01-02 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700102	457	\$4,600.00
DUPLEXER SYSTEM, SINGLE CH, 386-419MHZ RX, 381-414MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-01 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 386-419 MHZ RX, 381-414 MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-02 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0102	457	\$4,600.00
DUPLEX01B-420 - DUAL CHANNEL DUPLEXER 420 MHZ	TXRX PART#: CP05445 SPEC SHEET LINK: https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05445	457	\$5,750.00
DUPLEX01B-450 - DUAL CHANNEL DUPLEXER 450 MHZ	TXRX PART#: CP04491 SPEC SHEET LINK: https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP04491	457	\$5,750.00
DUPLEX01B-480 - DUAL CHANNEL DUPLEXER 480 MHZ	TXRX PART#: CP05446 SPEC SHEET LINK: https://www.comblent.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05446	457	\$5,750.00
1 CHANNEL DUPLEXER 450 MHZ	TXRX PART#: CP06405 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06405	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06408 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06408	457	\$5,750.00
DUPLEXING SYSTEM, 450-470 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06410 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06410	457	\$5,750.00
DUPLEXING SYSTEM, 480-512 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06411 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06411	457	\$4,370.00
DUPLEXING SYSTEM, 450-470 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06423 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06423	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 7/16 AN	TXRX PART#: CP06424 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06424	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06424 SPEC SHEET LINK: https://drive.google.com/file/d/1wurdYBEagQ2T1DfzYkniHw8KJah/view?usp=sharing	DSCP06424	457	\$4,370.00
UHF MOBILE DUPLEXER 406-500 MHZ	TXRX PART#: CP107251 UNLINED SPEC SHEET LINK: https://drive.google.com/file/d/1zXS5-3pSSCFJGk2LOk6B59wUJ2PILU/view?usp=sharing	DSCP107251 UNLINED	457	\$426.00
UHF MOBILE DUPLEXER 406-500 MHZ	TXRX PART#: CP10725 UNLINED SPEC SHEET LINK: https://drive.google.com/file/d/1zXS5-3pSSCFJGk2LOk6B59wUJ2PILU/view?usp=sharing	DSCP10725 UNLINED	457	\$453.00

RFI PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEXER BANDPASS 380-400MHZ, 5MHZ, BW, 5MHZ GB, 300W	RFI PART#: DP3840-0807-32 SPEC SHEET LINK: https://drive.google.com/file/d/1nGuXOF8oLRQcVZjHkrci4AFClbcgAt/view	DSDP3840080732	351	\$3,415.00
DUPLEXER BANDPASS, 450-470MHZ, 110W, 1.5MHZ BW	RFI PART#: DP4547-0811-32 SPEC SHEET LINK: TBD	DSDP4547081132	457	\$3,752.00

DBSPECTRA PARTS		Nomenclature	APC	Price
Description	Full Description			
DUPLEXER, 370-410MHZ BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-380 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404380	457	\$3,307.00
406-420MHZ DUPLEXER, BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404406	457	\$3,307.00
DSD404-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 3MHZ OR 5MHZ	DBSPECTRA # - DSD404-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404450	457	\$1,719.00
470-512MHZ DUPLEXER	DBSPECTRA # - DSD404-470 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404470	457	\$3,307.00
370-410MHZ DUPLEXER ASSEMBLY	DBSPECTRA # - DSD406-380 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406380	457	\$2,294.00
370-470MHZ DUPLEXER	DBSPECTRA # - DSD406-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406406	457	\$4,046.00
DSD406-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 5MHZ SEP	DBSPECTRA # - DSD406-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406450	457	\$2,179.00

Description	Full Description	Nomenclature	APC	Price
UHF 450-512 MHZ MOBILE DUPLEXER TUNED	DBSPECTRA # - DSD406M SPEC SHEET LINK: www.dbspectra.com/specifications/VHF-UHF_DSD106M_DSD406M.pdf	DSDSD406M	457	\$661.00
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA # - BCDUP01AA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01AA	457	\$6,210.00
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA # - BCDUP01BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BA	457	\$6,210.00
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA PART#: BCDUP01BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BD	457	\$6,210.00
2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	DBSPECTRA # - BCDUP01BRCKT SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BRCKT	457	\$440.00
450-470MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA PART#: BCDUP02BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02BA	457	\$4,485.00
470-512MHZ, SINGLE CH DUPLEX SYSTEM AC POWER	DBSPECTRA PART#: BCDUP02CA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02CA	457	\$6,210.00
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA PART#: BCDUP01AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP01AD	457	\$6,210.00
380-430MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA PART#: BCDUP02AA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02AA	457	\$5,753.00
380-430MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA PART#: BCDUP02AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02AD	457	\$5,753.00
450-470MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA PART#: BCDUP02BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP01_BCDUP02_UHF_380-512_MHz_MOTO).pdf	DSBCDUP02BD	457	\$5,753.00

VHF Band Duplexers
TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXING SYSTEM, 137-174 MHZ 1 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0101	457	\$10,115.00
DUPLEXING SYSTEM 137-174 MHZ 2 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0102	457	\$13,503.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
NOTCH DUPLEXER, 145-175MHZ, 150W	RFI # - DP1417-9262-33 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/DPXXXX-9262-33_P-42353-2.pdf	DSDP1417926233	457	\$2,671.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DB4059, 148-174 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059	457	\$3,623.00
DB4059-A, 136-150 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059A	457	\$3,623.00
DUPLEXER, BANDPASS/REJECT, 154-174MHZ SINGLE CHANNEL APPLICATION,	DBSPECTRA # - DB4060-WOC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOC	457	\$5,842.00
DUPLEXER, BANDPASS/REJECT, 138-144MHZ SINGLE CHANNEL APPLICATION	DBSPECTRA # - DB4060-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOCA	457	\$3,235.00
DB4060-WOC-B, 143-156 MHZ BANDPASS REJECT DUPLEXER, 4 CAVITY	DBSPECTRA # - DB4060-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOCB	457	\$4,162.00
DUPLEXER, BANDPASS/REJECT, 143-156MHZ, 154-174MHZ SINGLE CHANNEL APPLI	DBSPECTRA # - DB4060-WOC-BC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOCBC	457	\$3,235.00
DB4060-WOC-C, 154-174 MHZ BANDPASS REJECT DUPLEXER W/OUT CABINET	DBSPECTRA # - DB4062-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOC	457	\$3,235.00
DB4062-WOC-A, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 138-144MHZ	DBSPECTRA # - DB4062-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOC	457	\$6,325.00
DB4062-WOC-B, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 143-156MHZ	DBSPECTRA # - DB4062-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOCB	457	\$6,325.00
DB4062-WOC-BC, 6CAV BPASS/BREJECT DPLXR W/OUT CAB, 143-156MHZ, 154-174MHZ	DBSPECTRA # - DB4062-WOC-BC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOCBC	457	\$6,325.00
DB4062-WOC-C, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 154-174MHZ	DBSPECTRA # - DB4062-WOC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOCC	457	\$6,325.00
SINGLE CHANNEL BANDPASS/BANDREJECT DPLXR USING FOUR 5"CAVITIES 148-174 DSD106M, 160-170MHZ VHF MOBILE DUPLEXER	DBSPECTRA # - DBS3060 SPEC SHEET LINK: TBD	DSDBS3060	457	\$3,418.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA # - DSD106M SPEC SHEET LINK: TBD	DSDSD106M	457	\$552.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA PART#: BCDUP07BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP07BA	457	\$12,133.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 138-150MHZ	DBSPECTRA PART#: BCDUP07BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP07BD	457	\$12,363.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 138-150MHZ	DBSPECTRA PART#: BCDUP07AA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP07AA	457	\$14,749.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA PART#: BCDUP07AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP07AD	457	\$11,500.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC, 138-150MHZ	DBSPECTRA PART#: BCDUP08AA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP08AA	457	\$10,324.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA PART#: BCDUP08AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP08AD	457	\$10,324.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA PART#: BCDUP08BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP08BA	457	\$11,443.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA PART#: BCDUP08BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_BCDUP08_VHF_138-174_MHz.pdf	DSBCDUP08BD	457	\$8,050.00

EDG 4200 SMART GATEWAY MODEM

Description	Full Description	Nomenclature	APC	Price
CBRS, FNN, PUBLIC CARRIER, B8, NB-IOT COMPUTING PLATFORM	EDG 4200 - L8N	TT3781	503	\$1,289.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (5) CELL ANTENNAS, (1) GPS ANTENN B8, PUBLIC CARRIER, NB-IOT, WI-FI C	EDG 4200 - ACCESSORIES L8N	DDN3185A	503	\$219.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (3) CELL ANTENNAS, (2) WIFI ANTEN	EDG 4200 - 8NW	TT3782	503	\$1,149.00
CBRS, FNN, PUBLIC CARRIER, WI-FI COMPUTING PLATFORM	EDG 4200 - ACCESSORIES 8NW	DDN3186A	503	\$179.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (2) CELL ANTENNAS, (1) WIFI ANTEN	EDG 4200 - LW	TT3783	503	\$1,099.00
B8, PUBLIC CARRIER, WI-FI COMPUTING	EDG 4200 - ACCESSORIES LW	DDN3188A	503	\$149.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (2) CELL ANTENNAS, (1) WIFI ANTEN	EDG 4200 - 8W	TT3784	503	\$1,099.00
	EDG 4200 - ACCESSORIES 8W	DDN3189A	503	\$149.00
Services				
EDG SERIES LTE MODEM DVC HW REPAIR	EDG SERIES LTE MODEM DVC HW REPAIR	LSV04S02831A	923	\$20.00

ASTRO 25 Edge Availability Ordering Information
Main Model

Description	Full Description	Nomenclature	APC	Price
EDGE CONTROLLER SERVER	Requires CA03120AA, CA03120AB or CA03120AC or CA03120AD	SQM01SUM0299	424	\$20,000.00

Options

Order the Base Software option for the specific ASTRO system release (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER BASE SOFTWARE	Required option for A7.17.x systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen9 Edge Controller Server	CA03120AA	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW A7.18	Required option for A7.18 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AB	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2019.2	Required option for A2019.2 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AC	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2020.1	Required option for A2020.1 and A2020 HS systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AD	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2021.1	Required option for A2021.1 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server	CA03120AE	877	\$45,000.00
Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER MULTI-SITE SW	For subsystems with more than 1 RF Site or more than 1 Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.00
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER	For ASTRO System Release 7.17.x (Requires MULTI-SITE SW CA03121AA)	CA03122AA	877	\$20,000.00

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER A7.18	For ASTRO System Release 7.18. (Requires MULTI-SITE SW CA03121AA)	CA03122AB	877	\$20,000.0
ADD: DYNAMIC TRANSCODER A2019.2+	For ASTRO System Release 2019.2, A2020.1, A2020.HS or A2021.1 (Requires MULTI-SITE SW CA03121AA)	CA03122AC	877	\$20,000.0
Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER MULTI-SITE SW	For subsystems with more than 1 RF Site or more than 1 Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.0
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER	For ASTRO System Release 7.17.x (Requires MULTI-SITE SW CA03121AA)	CA03122AA	877	\$20,000.0
ADD: DYNAMIC TRANSCODER A7.18	For ASTRO System Release 7.18. (Requires MULTI-SITE SW CA03121AA)	CA03122AB	877	\$20,000.0
ADD: DYNAMIC TRANSCODER A2019.2+	For ASTRO System Release 2019.2, A2020.1, A2020.HS or A2021.1 (Requires MULTI-SITE SW CA03121AA)	CA03122AC	877	\$20,000.0
Spares				
Description	Full Description	Nomenclature	APC	Price
FRE: EDGE AVAILABILITY G10 SERVER	Spare G10 Edge Server	DLN8029	877	\$25,000.0
G10 SERVER SW WITH ESXI 6.5 LICENSE	Order with DLN8029A when replacing a G9 Server in a A7.18 System	T8750	877	\$0.00
1.2 TB HARD DRIVE	For G9 and G10	DLN6942	454	\$1,750.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10	DLN6971	454	\$228.00
DL 380 G9 ETHERNET CARD	For G9 and G10	DLN7018	61	\$550.00

EVOLVED PACKET GATEWAY (EPG)
New System Order Guidelines

Description	Full Description	Nomenclature	APC	Price
EPG SERVING AND PACKET GW 5K IP SESSIONS BUNDLE	-	TT2710	53	\$710,430.0
EPG SERVING AND PACKET GW 10K IP SESSIONS BUNDLE	-	TT2711	53	\$786,290.0
EPG SERVING AND PACKET GW 25K IP SESSIONS BUNDLE	-	TT2712	53	\$794,290.0
EPG SERVING AND PACKET GW 50K IP SESSIONS BUNDLE	-	TT2713	53	\$811,430.0
EPG SERVING AND PACKET GW 100K IP SESSIONS BUNDLE	-	TT2714	53	\$840,000.0
EPG SERVING AND PACKET GW 250K IP SESSIONS BUNDLE	-	TT2700	53	\$954,420.0
EPG SERVING AND PACKET GW 500K IP SESSIONS BUNDLE	-	TT2701	53	\$1,074,290.0
EPG SERVING AND PACKET GW 1M IP SESSIONS BUNDLE	-	TT2702	53	\$1,480,000.0

Existing System Capacity Expansion Guidelines

Description	Full Description	Nomenclature	APC	Price
EPG HW/SW FROM 5K TO 10K IP SESSIONS	-	TT05853AA	53	\$77,140.0
EPG HW/SW FROM 10K TO 25K IP SESSIONS	-	TT05854AA	53	\$81,000.0
EPG HW/SW FROM 25K TO 50K IP SESSIONS	-	TT05855AA	53	\$85,050.0
EPG HW/SW FROM 50K TO 100K IP SESSIONS	-	TT05856AA	53	\$89,300.0
EPG HW/SW FROM 100K TO 150K IP SESSIONS	-	TT05857AA	53	\$89,300.0
EPG HW/SW FROM 150K TO 250K IP SESSIONS	-	TT05858AA	53	\$98,230.0
EPG HW/SW FROM 250K TO 350K IP SESSIONS	-	TT05859AA	53	\$98,230.0
EPG HW/SW FROM 350K TO 500K IP SESSIONS	-	TT05860AA	53	\$125,300.0
EPG HW/SW FROM 500K TO 750K IP SESSIONS	-	TT05861AA	53	\$207,570.0
EPG HW/SW FROM 750K TO 1M IP SESSIONS	-	TT05862AA	53	\$207,570.0

Spares

Description	Full Description	Nomenclature	APC	Price
FAN TRAY, SSR	-	DDN1854	53	\$4,375.00
SWITCH PROCESSOR CARD, SSR	-	DDN1855	53	\$32,813.0
SWITCH ALARM CARD, SSR	-	DDN1856	53	\$16,406.0
10 X 10 GBIT ETH, SSR, USE XFP	-	DDN1857	53	\$67,500.0
SSR 8020 CHASSIS	-	DDN1858	53	\$87,500.0
PEM SSR - POWER SUPPLY SET	-	DDN1859	53	\$2,917.00
SWITCH CARD, SSR	-	DDN1860	53	\$9,844.00
SMART SERVICES CARD, SSR, WITH SSD	-	DDN1861	53	\$197,073.0
10G SM LR SSR, XFP	-	DDN1862	53	\$8,333.00

ASTRO® Digital APX Portable/Mobile Firmware
Models

Description	Full Description	Nomenclature	APC	Price
APX MOBILE REFRESH	-	T7756	656	\$0.00
APX PORTABLE REFRESH	-	T7757	430	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD:APX PORTABLE SOFTWARE REFRESH	-	QA02912	655	\$95.00
ADD:APX MOBILE SOFTWARE REFRESH	-	GA00771	656	\$95.00

KVL 3000/KVL 3000PLUS MACE PCMCIA Upgrades
Models

Description	Full Description	Nomenclature	APC	Price
APX PCMCIA ENCRYPTION UPGRADE CARD	-	T7556	526	\$125.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AL	655	\$616.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$696.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$758.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$95.00

KVL 4000 MACE CD Upgrades
Models

Description	Full Description	Nomenclature	APC	Price
APX UCM UPGRADE CD	-	T7936	526	\$57.50

Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AL	655	\$616.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$696.00
ADD: ADP ENCRYPTION	-	CA00243AH	655	\$442.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$758.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$95.00

GCM 8000 Comparator
Main Model

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	-	T7321	112	\$5,000.00

Modules

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	Number of modules inside the GCM chassis can be 1 or 2 depending on the application.	CA01183AA	112	\$2,500.00

System Release Options

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 2021.1	-	CA03678AA	595	\$0.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03677AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION	Trunking comparator software	CA01185AA	595	\$11,500.00
ADD: TRUNKING REDUNDANT COMPRTR SW	-	CA01974AA	595	\$1,500.00
ADD: P25 TDMA COMPARTOR SOFTWARE	-	CA01901AA	595	\$16,000.00
ADD:SOFTWARE LICENSE SINGLE EXPANSION PORT	-	CA01914AA	595	\$1,350.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
Power Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GCP 8000 Site Controller

Description	Full Description	Nomenclature	APC	Price
Main Model				
Description	Full Description	Nomenclature	APC	Price
GCP 8000 SITE CONTROLLER	-	T7038	112	\$3,000.00
Options				
Site Controller				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA01194AA	595	\$69,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: CIRCUIT BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA00025AG	595	\$62,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00
Remote Site Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SMLCST RMT ST LIC IV&D+ENH DATA	-	CA03004AA	595	\$7,000.00
ADD:SMLCST RX RMT ST LIC VOICE ONLY	-	CA03007AA	595	\$0.00
ADD:SMLCST RX RMT SITE LIC IV&D	-	CA03008AA	595	\$2,000.00
ADD:SMLCST RX RMT ST LIC IV&D+ENH DATA	-	CA03005AA	595	\$5,000.00
ADD:GEO-REDUN BACK-UP SC LIC	-	CA02474AA	595	\$0.00
Power Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
Reference Distribution Modules/Expansion Hub Modules (for Remote Sites with Trunking GPW 8000 Receivers)				
Description	Full Description	Nomenclature	APC	Price
ADD : XHUB STANDALONE	-	CA00884AB	112	\$2,000.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00
Reference Distribution Module Software				
Description	Full Description	Nomenclature	APC	Price
ADD: RDM SW FOR RX ONLY	-	CA01537AC	595	\$1,000.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: ENERGY EFFICIENT POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6805	112	\$2,200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00
Associated Products				
Description	Full Description	Nomenclature	APC	Price
ASTRO 25 EXPRESS CONFIGURATION MANAGER	-	T7555	877	\$5,000.00

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA BASE SOFTWARE BUNDLE	Includes: 1.MAIN GenSZAI Reader - Reader module resides on a PC at the zone controller to receive the ATIA stream UDP packet from the zone controller and passes them on to GW3. 2.MAIN GenSZAI DataProc - co-resides with the Database server at the Network Ops Center to process the ATIA stream from the Reader. 3.MAIN GenSZAI Database Server - Database Server module co-resides with the DataProc at the Network Ops Center to store the decoded ATIA stream from the DataProc. The ATIA data stream ordered independently.	TT2234	708	\$51,480.0
Fielded GW3-ATIA Model (TT2266)				
GENWATCH3 ATIA ADD-ON	ONLY valid with a licensed copy of GenWatch3 software. This is a zero dollar model used for adding on options after purchasing GenWatch3 license. This model ordered alone includes NOTHING.	TT2266	708	\$0.00
Step 2: Order Additional Zones (or DSR) GW3-ATIA Software if required				
SOFTWARE FOR ADDITIONAL GENWATCH3 ATIA ZONES OR DSR	Additional Zone (or DSR) GenWatch-ATIA Software * Requires (1) per DSR or additional zone	TT05394AA	708	\$25,750.0
Step 3: Order GW3-ATIA "Optional Enhancements" If desired				
Additional GW3-ATIA Client Connection Licenses - (Optional Enhancement)				
GW3-ATIA CLIENT LICENSES (SOLD IN GROUPS OF 5)	sold in packs of 5	TT05417AA	708	\$6,600.00
GenWatch3 Data Warehouse - (Optional Enhancement)				
ADD: DATA WAREHOUSE SOFTWARE	Data Warehouse for long term storage	TT06065AA	708	\$15,840.0
Centralized Manager of Agency Filters (CMAF) - (Optional Enhancement)				
ADD: CMAF - CENTRALIZED MANAGER FOR AGENCY FILTERS	Centralized Manager for Agency Filters Allows system owners to filter data to be sent to member agencies for monitoring, management, archiving and reporting. This includes the capability for creating ONE filter.	TT06063AA	708	\$7,200.00
ADD: CMAF - ADDITIONAL FILTERS	Allows ONE additional Filter to be created.	TT06064AA	708	\$2,160.00
Genesis ATIA Forwarder Enhancement - (Optional Enhancement)				
GW3-ATIA FORWARDER FOR FIRST ZONE	ATIA Forwarder allows the forwarding of unaltered, native ATIA data to additional devices - either inside or outside of the CEN.	TT05704AA	708	\$6,600.00
GW3-ATIA FORWARDER FOR ADDITIONAL ZONES	Additional ATIA Forwarder per zone.	TT05705AA	708	\$3,300.00
Genesis ATIA Replay Enhancement - (Optional Enhancement)				
ADD: ATIA REPLAY SOFTWARE	ATIA Replay - Replay Data Set from the GenWatch database through the Activity and Channel Screens in GW3 and SkyViewII. **Must run on a separate GW3 Computer**	TT06133AA	708	\$16,500.0
Genesis SAM (CloneWatch) Enhancement - (Optional Enhancement)				
SAM - SUBSCRIBER ACCESS MANAGER	Optional module for GW3. Dynamically find and show radios suspected of being cloned.	TT05415AA	708	\$12,540.0
GenSPOut (Genesis Specified Packet Output) Enhancement - (Optional Enhancement)				
GW3 GENSPOUT	Allows a customizable data feed from GenWatch3 to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc. Includes (1) connection.	L3580	708	\$6,360.00
ADD: GENSPOUT - ADDITIONAL CONNECTIONS	Additional licensed connections for GenSPOut.	TT06067AA	708	\$1,320.00
GenWatch3 IVista Web-Based Agency Reporting - (Optional Enhancement)				
IVISTA WEB BASED AGENCY REPORTING	IVista Web-based Agency Reporting Tool allows Administrator to filter data by Agency so member agencies can run their own reports. Includes Administrator package + (1) Agency Filter.	TT05679AA	708	\$13,860.0
IVISTA ADDITIONAL AGENCY FILTER	IVista Web-based Agency Reporting Tool - Additional Agency Filters. Must have ordered TT05679AA previously.	TT05680AA	708	\$4,620.00
GenWatch3-DATA: IV&D and Enhanced Data Enhancement - (Optional Enhancement)				
GGSN INTEGRATION	Archiving and Reporting for Motorola IV&D.	TT05628AA	708	\$12,000.0
The following options are for use with ASTRO 25 Enhanced Data:				
GENESIS ENHANCED DATA ADD-ON	Genesis Archiving and Reporting Tool for Enhanced Data statistics (requires existing TT2233, TT05414AA or TT05628AA)	TT05757AA	708	\$12,000.0
Genesis UEM Enhancement - (Optional Enhancement)				
UEM-NBI ENHANCEMENT	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. This is ordered independently. Qty 1 must be ordered per NBI connected to GenWatch3*	TT05630AA	708	\$33,000.0
UEM-NBI ENHANCEMENT FOR ADDITIONAL ZONE OR DSR	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. After Qty 1 of TT05630AA is ordered, subsequent NBI are licensed using TT05678AA	TT05678AA	708	\$16,500.0
Genesis Location Services - (Optional Enhancement)				
IMW ENHANCEMENT	MUPS Archiving, Reports, and Live Display (outdoor location/GPS integration) *The MUPS must be enabled. This is ordered independently. Qty 1 must be ordered per MUPS connected to GenWatch3*	TT05629AA	708	\$45,600.0
ADD: IMW ENHANCEMENT FOR ADDITIONAL ZONE OR DSR	Requires one IMW Connection per additional zone and/or DSR.	TT06090AA	708	\$22,800.0
GenWatch3 CADI Enhancement - (Optional Enhancement)				
ADD: GENESIS INTERFACE TO ASTRO 25 CADI	Integrates with ASTRO 7 x CADI Port and serves as a full CAD client for sending radio commands (Selective Radio Inhibit, Radio Check, Regroup, Database Snapshot, Call Alert, Emergency ACK, Statuses and Messages). Replicates the 7 x CADI Port seamlessly to multiple agencies with filtering available via GW3. Comes with (1) CADI Connection. **Requires one CADI Connection per primary zone**.	TT05878AA	708	\$32,340.0
ADD: ADDITIONAL CONNECTIONS GENESIS INTERFACE TO ASTRO 25 CADI	Additional CADI Client Connections.	TT05879AA	708	\$4,620.00
Advanced Power Monitor (APM) Enhancement - (Optional Enhancement)				
ADV PWR MONITOR LIC	GenWatch3 displays and reports power levels at user-defined intervals from the APM. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05721AA	817	\$3,300.00
ADV PWR MONITOR ADD CONN	Include a connection to the APM to receive current power levels at user-defined intervals. **Requires one connection license per APM**.	TT05722AA	817	\$264.00
Genesis Provisioning Manager Interface (PMI) Enhancement - (Optional Enhancement)				
PROVISIONING PORTAL BUNDLE	The Genesis PMI Enhancement makes it possible for simple remote provisioning on the Motorola Provisioning Manager Interface and synchronization with third party asset management and accounting software (with the addition of GENIIB) **NOTE: THIS DOES NOT INCLUDE ANY POSSIBLE MOTOROLA FEES THAT MIGHT BE NECESSARY TO ACTIVATE THE UCS PROVISIONING FEATURE IN THE SWITCH.	TT05697AA	708	\$70,200.0
Genesis Interoperability Information Broker (GenIIB) Enhancement - (Optional Enhancement)				
ADD: GENESIS INTEROPERABILITY BROKER	GenIIB includes a programming API that can be used by third party external devices or software programs to pull live or stored information from the Genesis Databases and push customer driven information or instructions back to those systems and back into the database as well.	TT05880AA	708	\$39,600.0
Step 4: Choose GenWatch-ATIA Hardware				
GW3-ATIA Base Hardware (TT05413AA)				
GENWATCH3 ATIA BASE HARDWARE	1. Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 Ghz, 4GB, SATA 500 GB 7200 RPM Hard drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor. Windows Server OS, 3 Year Next Business Day Service 2. Rack Mount Data Processor / Database Server: Dell PowerEdge R720 server, Intel Xeon ES-2620 2.0 Ghz, Ready Rails 2-post/4-post RAID 6, 6x14GB Hard Drives, DVD-ROM, NO Keyboard, Mouse or Monitor. Window Server OS, MS SQL Server, 3 Year Next Business Day Service 3. GenWatch3-ATIA Host Computer: Dell Precision T3600, Quad Core Processor, 512MB Graphics Card, 6GB RAM, CD/DVD ROM, 500GB SATA Hard Drive, 23" flat panel monitor, Mouse, Keyboard, Windows OS, MS Office Basic, 3 Year Next Business Day Service	TT05413AA	708	\$30,400.0
GW3-ATIA Hardware for Additional Zones (or DSR)				
GW3-ATIA HARDWARE FOR ADDITIONAL ZONES OR DSR	Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 Ghz, 4GB, SATA 500 GB 7200 RPM Hard drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor. Windows Server OS, 3 Year Next Business Day	TT05416AA	708	\$5,800.00
GW3-ATIA (GG) SECONDARY Data Processor and Database Server				

Updated Pricing for contract 4400016317 as of January 2022

ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant RAID with 10k RPM HDD or SSD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$18,200.00
GW3-ATIA (GG) Data Warehouse				
Description	Full Description	Nomenclature	APC	Price
ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant RAID with 10k RPM HDD or SSD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$18,200.00
GW3-ATIA Client Workstation				
Description	Full Description	Nomenclature	APC	Price
GW3-ATIA CLIENT HARDWARE	GW3-ATIA Client Includes: Dual Core Processor, 8GB SDRAM Memory, CD/DVD-ROM, Minimum 160GB SATA, 7200 RPM Hard Drive, Native COM Port, Motor, Sound plus basic speakers, Keyboard, Mouse, Modem, 5 Year Next Business Day Service Warranty. Includes Required Software: Windows 10 and MS Excel 2016.	TT05418AA	708	\$5,400.00

GENWATCH3-OTA (Single Site)

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE	GenWatch3-OTA Network Management Software Based Bundle.	TT2264	708	\$16,200.00
Fielded GW3-OTA Model (TT2265)				
Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE ADD-ON	This should only be ordered to add features or capacity to an EXISTING GenWatch3-OTA solution.	TT2265	708	\$0.00
Step 2: Order System Control Channel Option				
Step 3: Order Additional Site Monitoring if required				
Description	Full Description	Nomenclature	APC	Price
CONCURRENT OR REDUNDANT SITE MONITORING	Maximum of 5 Systems Total	TT05154AA	708	\$2,640.00
Step 4: Order GenWatch3-OTA "Optional Enhancements" if desired				
Description	Full Description	Nomenclature	APC	Price
AFFILIATION / DEAFFILIATION DISPLAY	Displays Affiliations and Deaffiliations. Search for and display current affiliation of a single ID or monitor affiliations by site and talkgroup.	TT05155AA	708	\$1,320.00
UPGRADE FROM (3) EXCEL REPORTS TO FULL SUITE (20+)	Upgrade From Limited Reports (3) to Full Suite of Excel Reports (20+)	TT05234AA	708	\$5,020.00
TRIGGER MONITOR	MONITORS ARRAY OF CONTROL CHANNEL ACTIVITY & ALERTS DESKTOP WITH SELECTED EVENTS	TT05217AA	708	\$2,245.00
SYSVISTA PERFORMANCE DASHBOARD	Overall dashboard view of your system from a graphical interface.	TT05160AA	708	\$1,980.00
ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - 9 GROUP DISPLAY LIMIT	Graphical interface that displays Talkgroup based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. Limit 9 Talkgroups displayed simultaneously.	TT05411AA	708	\$600.00
ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - NO DISPLAY LIMIT	Graphical interface that displays Talkgroup based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. No Limit to the number of Talkgroups displayed simultaneously.	TT05410AA	708	\$8,000.00
GW3-OTA UPGRADE 2 MO. TO 12 MO. ARCHIVING - REQUIRES MS SQL SERVER	Requires SQL Workgroups (included if order the L3561 PC)	TT05235AA	708	\$6,000.00
ADD: GENSPOUT - ADDITIONAL CONNECTIONS	Additional licensed connections for GenSPout.	L3580	708	\$6,360.00
CLONEWATCH (DETECTING DUPLICATED RADIOS)	Dynamically find and show radios suspected of being cloned. *Only one instance can run on the GW3 Host.	TT06067AA	708	\$1,320.00
ADV PWR MONITOR LIC	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05216AA	708	\$6,600.00
ADV PWR MONITOR ADD CONN	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. ** Requires one connection license per APM.	TT05722AA	817	\$3,300.00
TT05722AA			817	\$264.00

Step 5: Order Radio Command Management if required

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR CLIENT LICENSE	Simultaneous Client Connections to the GenWatch3 Host Computer.	TT05409AA	708	\$6,900.00

Step 6: Choose GenWatch3-OTA Hardware

Description	Full Description	Nomenclature	APC	Price
GW3 OTA PC BUNDLE	Intel Pentium Quad Core Processor, 512MB Graphics, Dual Monitor Capable Graphics Card, 6GB SDRAM Memory, CD/DVD-ROM, 300GB SATA, 10k RPM Hard Drive, COM Port, 23 inch Flat Panel, Sound plus basic speakers, Keyboard, Mouse, External UPS, Modem, 3 Year Next Business Day Service Warranty. Includes Required Software: Windows OS, MS Office Basic, PC Anywhere	L3561	708	\$5,525.00
CLIENT WORKSTATION (THIS INCLUDES CPU, 20 MONITOR, SPEAKERS,	Specifications: Dual Core Processor, 8GB, SDRAM Memory, 300GB Hard Drive, Monitor, Keyboard, Mouse, 5 Year Next Business Day Service Warranty. Includes Required Software: Windows 10 and MS Excel 2016.	L3522	708	\$7,499.00
ROCKETPORT -INCL 16 PORT PCI CD, BREAKOUT BOX, & CABLE	For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561. Includes 16 Port PCI Card, Breakout Box (aka Brick), and Cable. For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561.	L3523	708	\$2,484.00
GENESIS APX MODEM 700/800MHZ	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3624	708	\$7,700.00
GENESIS APX MODEM 900MHZ	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3625	708	\$7,700.00
GENESIS APX MODEM UHF R1	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3626	708	\$7,700.00
GENESIS APX MODEM UHF R2	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3627	708	\$7,700.00
GENESIS APX MODEM VHF	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3628	708	\$6,900.00
EXTERNAL ALARM RELAY BOX	WORKS WITH TRIGGER TO CLOSE RELAYS	TT05159AA	708	\$720.00

GPW 8000 Receiver

Main Model	Description	Full Description	Nomenclature	APC	Price
	GPW 8000 RECEIVER	-	T7540	112	\$1,000.00
Options					
Receiver Modules					
Description	Full Description	Nomenclature	APC	Price	
ADD: QTY 1 GPW 8000 RECEIVER	-	-	X301AR	112	\$0.00
ADD: QTY 2 GPW 8000 RECEIVER	-	-	X302AR	112	\$800.00
System Release Options (must include one)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO SYSTEM RELEASE 7.17	-	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	-	CA00719AA	595	\$0.00
Frequency Band					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700/800 MHZ	-	-	CA00855AB	112	\$3,200.00
ADD: VHF (136-174 MHZ)	-	-	X530BH	112	\$3,200.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 900 MHZ	-	CA01821AB	112	\$3,200.00
Operational Software				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	595	\$0.00
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	595	\$2,000.00
ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA01193AB	595	\$4,000.00
ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA00025AH	595	\$4,000.00
ADD: RX ANALOG CONV IP VOTING/SIMUL	-	CA03090AB	595	\$1,500.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	112	\$500.00
Two-Slot TDMA Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC CHNL ASSIGNMENT RCVR SW	-	CA01902AB	595	\$5,500.00
ADD: P25 TDMA RCVR SOFTWARE	-	CA01842AB	112	\$7,000.00
Conventional Features				
Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	595	\$360.00
ADD: MAIN/STANDBY OPERATION	-	CA01955AB	595	\$135.00
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	595	\$150.00
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	595	\$0.00
Peripherals				
Description	Full Description	Nomenclature	APC	Price
ADD: NARROW PRESELECTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELECTOR, 150-174 MHZ	-	X265AM	112	\$500.00
ADD: NARROW PRESELECTOR 380-435 MHZ	-	X265AW	112	\$500.00
ADD: NARROW PRESELECTOR 435-470 MHZ	-	X265AY	112	\$500.00
ADD: NARROW PRESELECTOR 470-512 MHZ	-	X265AZ	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00
ADD: RX SPLITTER	-	X465AB	112	\$250.00
Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
Cabinets				
Description	Full Description	Nomenclature	APC	Price
ADD: G-SERIES INDOOR CABINET 15 Rack Units	-	CA02446AA	112	\$1,250.00
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	\$1,600.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: ENERGY EFFICIENT POWER SUPPLY	DLN6895	DLN6895	112	\$2,200.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6893.	DLN6893	112	\$4,300.00
FRU: GTR ANALOG 4W E&M SIMULCAST KIT	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6821	112	\$250.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GRIP - Graphical Record I/Q and Playback
Main Model

Description	Nomenclature	Price
GRIP Upgrade	FDK000311	\$16,600
GRIP Software	FSFW00072	\$10,000

GRV 8000 Comparator
Main Model

Description	Full Description	Nomenclature	APC	Price
GRV 8000 COMPARATOR	-	T8341	112	\$3,000.00

System Release

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03677AA	595	\$0.00

Options
Comparator Modules

Description	Full Description	Nomenclature	APC	Price
ADD: COMPARATOR	-	CA03084AA	112	\$2,500.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONV ONLY SW	-	CA01949AC	595	\$4,500.00
ADD: ASTRO 25 CONVENTIONAL SOFTWARE	-	CA03320AA	595	\$10,500.00

Conventional System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONV VOTING SW	-	CA01951AC	595	\$2,000.00
ADD: ANALOG CONV SIMULCAST SW	-	CA01952AC	595	\$3,000.00
ADD: DIGITAL CONV VOTING SOFTWARE	-	CA03316AA	595	\$2,000.00
ADD: DIGITAL CONV SIMULCAST SOFTWARE	-	CA03317AA	595	\$3,000.00

Conventional Enhancements

Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	595	\$360.00
ADD: GEO REDUNDANCY	-	CA03085AA	595	\$2,000.00
ADD: ANALOG SIDETALK-MDC MUTING	-	CA03086AA	595	\$48,000.00
ADD: DIGITAL SIDETALK	-	CA03616AA	595	\$4,000.00
ADD: ENCRYPTED SIDETALK	Only certified for system release 2019.2+.	CA03617AA	595	\$8,300.00
ADD: OTEK ENCRYPTION CAPABILITY	Only certified for system release 2019.2+. Requires Digital Sidetalk CA03616AA + Encrypted Sidetalk CA03617AA.	CA03618AA	595	\$6,350.00



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSMITTER STEERING	Only certified for system release 2019.2+	CA03619AA	595	\$10,000.0
ADD: HIGH SITE CAPACITY	-	CA03087AA	595	\$90,000.0
ADD: ENHANCED IP	-	CA03712AA	595	\$20,000.0
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Power Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
Field Replacement Units (FRUs)				
For spare GRV 8000 comparator modules, use DLN8028				
Description	Full Description	Nomenclature	APC	Price
FRU: GRV MAIN MODULE	Replaces DLN6886A starting Q2, 2020	DLN8028	112	\$4,300.00
FRU: POWER SUPPLY	This replaces DLN6588A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GRV 8000 Upgrades

Main Model

Description	Full Description	Nomenclature	APC	Price
GRV UPGRADES	-	T8730	595	\$0.00
Additional Features and Upgrades				
Description	Full Description	Nomenclature	APC	Price
ADD: GRV SYSTEM REFRESH	-	CA03620AA	595	\$2,650.00
ADD: ANALOG TO DIG COMP UPGRADE	-	CA03318AA	595	\$6,000.00
ADD: GEO REDUNDANCY	-	CA03085AA	595	\$2,000.00
ADD: HIGH SITE CAPACITY	-	CA03087AA	595	\$90,000.0
ADD: ANALOG SIDETALK-MDC MUTING	-	CA03088AA	595	\$48,000.0
ADD: DIGITAL SIDETALK	-	CA03618AA	595	\$54,000.0
ADD: UPGRADE ANALOG TO DIGITAL SIDETALK	-	CA03621AA	595	\$6,000.00
ADD: ENCRYPTED SIDETALK	-	CA03617AA	595	\$8,300.00
ADD: OTEK ENCRYPTION CAPABILITY	-	CA03618AA	595	\$6,350.00
ADD: TRANSMITTER STEERING	-	CA03619AA	595	\$10,000.0
ADD: ENHANCED IP	-	CA03712AA	595	\$20,000.0
ADD: CONVENTIONAL COMPARTOR VOTING TO SIMULCAST UPGRADE	-	CA02213AA	595	\$1,000.00

G-series Hardware Upgrades

Description	Full Description	Nomenclature	APC	Price
G-SERIES HARDWARE UPGRADES	-	T7614	112	\$0.00
Options				
GTR 8000 Expandable Site Subsystem				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: GPB 8000 HIGH AVAILABILITY UPGRADE	-	CA01782AA	112	\$23,000.0
ADD: P25 SITE RPTR SW (V&D+ENH DATA	-	CA03001AA	595	\$14,500.0
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.0
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: 7/800 MHZ DUAL RX KIT 6 BRS	-	CA01915AA	112	\$700.00
ADD: 7/800 MHZ DUAL RX KIT 7-24 BRS	-	CA01916AA	112	\$2,100.00
ADD: 7/800 MHZ DUAL RX KIT EXP RMC	-	CA01923AA	112	\$600.00
ADD: UHF R2 DUAL RX KIT 6 BRS	-	CA01918AA	112	\$700.00
ADD: UHF R2 DUAL RX KIT 7-24 BRS	-	CA01919AA	112	\$2,100.00
ADD: UHF R1/VHF DUAL RX KIT	-	CA01920AA	112	\$600.00
ADD: UHF R1/VHF DUAL RX KIT	-	CA01921AA	112	\$500.00
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00
GTR 8000 Standalone Base Radio Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: BASE RADIO WILDCARD W/GPIO	-	CA02220AA	112	\$1,200.00
ADD: BASE RADIO MAIN/STANDBY OPERATION	-	CA02211AA	112	\$450.00
GCM 8000 Comparator Channel Add				
Description	Full Description	Nomenclature	APC	Price
ADD: GCM 8000 CONVENTIONAL CHANNEL ADDITION	-	CA01752AA	112	\$13,000.0
ADD: GCM 8000 TRUNKING CHANNEL ADDITION	-	CA01780AA	112	\$14,000.0
GPW 8000 Receiver Options				
Receiver Module Channel Add				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 2 GPW 8000 RECEIVER	-	X302AR	112	\$800.00
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AB	112	\$3,200.00
ADD: VHF (136-174 MHZ)	-	X530BH	112	\$3,200.00
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 900 MHZ	-	CA01821AB	112	\$3,200.00
Receiver Software				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	595	\$2,000.00
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	595	\$0.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW		-	CA00025AH	595	\$4,000.00
ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW		-	CA01193AB	595	\$4,000.00
Energy Efficiency					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	112	\$500.00	
GTR 8000 Base Radio					
Radio Model					
Description	Full Description	Nomenclature	APC	Price	
GTR 8000 Base Radio	-	T7039	112	\$0.00	
Options					
System Release Options (must include one)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00	
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00	
Frequency Band					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00	
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00	
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00	
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00	
Base Radio Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00	
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00	
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.00	
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.00	
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.00	
Energy Efficiency					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00	
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00	
Two-Slot TDMA Enhancements					
Description	Full Description	Nomenclature	APC	Price	
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00	
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00	
Conventional Software System Configuration					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00	
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00	
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00	
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00	
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00	
Conventional Features					
Description	Full Description	Nomenclature	APC	Price	
ADD: ANTENNA RELAY	-	CA01504AA	112	\$350.00	
ADD: MAIN/STANDBY OPERATION	-	CA01955AA	595	\$450.00	
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00	
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00	
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00	
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00	
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00	
RF Peripherals					
Description	Full Description	Nomenclature	APC	Price	
ADD: DUPLEXER, 136-146 MHZ, THEN TX AND RX MUST BE 136-146	A preselector is required when this option is ordered.	X182CC	112	\$1,380.00	
ADD: DUPLEXER, 144-160 MHZ, THEN TX AND RX MUST BE 144-160	A preselector is required when this option is ordered.	X182CB	112	\$1,380.00	
ADD: DUPLEXER, 158-174 MHZ	A preselector is required when this option is ordered.	X182CA	112	\$1,380.00	
ADD: DUPLEXER, UHF	A preselector is required when this option is ordered.	X182BZ	112	\$1,380.00	
ADD: DUPLEXER, 700 MHZ	-	X182BW	112	\$1,380.00	
ADD: DUPLEXER, 800 MHZ	-	X182BX	112	\$1,380.00	
ADD: NARROW PRESELECTOR, 136-154 MHZ	-	X265AN	112	\$500.00	
BR PRESELECTOR, 150-174 MHZ	-	X265AM	112	\$500.00	
ADD: BR PRESELECTOR 380-512 MHZ	-	X265AP	112	\$500.00	
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00	
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00	
ADD: EXT DUAL CIRCULATOR, 136-146 MHZ	-	X676BJ	112	\$1,500.00	
ADD: EXT DUAL CIRCULATOR, 144-160 MHZ	-	X676BI	112	\$1,500.00	
ADD: EXT DUAL CIRCULATOR, 158-174 MHZ	-	X676BH	112	\$1,500.00	
ADD: UHF EXTERNAL DUAL CIRCULATOR (435-494 MHZ)	-	X676BG	112	\$1,500.00	
ADD: 700/800 MHZ EXTERNAL DUAL CIRCULATOR	-	X676BF	112	\$1,000.00	
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00	
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00	
Cables					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00	
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00	
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00	
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00	
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00	
Rack Mount Hardware					
Description	Full Description	Nomenclature	APC	Price	
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00	
Indoor Cabinets					
Description	Full Description	Nomenclature	APC	Price	
ADD: G-SERIES INDOOR CABINET 15 Rack Units	-	CA02446AA	112	\$1,250.00	
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	\$1,600.00	
Retrofit Kits					
Description	Full Description	Nomenclature	APC	Price	
ADD: STR 3000 RETROFIT HARDWARE	-	CA00951AA	112	\$50.00	
ADD: QUANTAR RETROFIT HARDWARE	-	CA00952AA	112	\$50.00	
Conventional Hardware Kits					
Description	Full Description	Nomenclature	APC	Price	
ADD: T1-2R W/TALKAROUND	-	CA01957AA	112	\$1,200.00	
ADD: T2-2R RECEIVER MUTE	-	CA01958AA	112	\$2,000.00	
ADD: T2-2R DUPLEX & TRPL RELAY	-	CA01962AA	112	\$4,000.00	
ADD: T3-3R RECEIVE MUTE	-	CA01959AA	112	\$2,000.00	
ADD: T4-4R RECEIVER MUTE	-	CA01960AA	112	\$2,000.00	
ADD: RCVR SOFT NO SPLITTER	-	CA01961AA	112	\$400.00	
VHF 350W Booster					
Description	Full Description	Nomenclature	APC	Price	
ADD: VHF 350W BOOSTER SI	This option is for Federal Systems only. All orders will go on E3 hold for review by the Federal Systems Integration team.	CA02286AA	282	\$13,664.00	
150W High Power 800MHz PA					
Description	Full Description	Nomenclature	APC	Price	
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00	
CE Label					
Description	Full Description	Nomenclature	APC	Price	
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00	
Compact Site Cabinet					
Description	Full Description	Nomenclature	APC	Price	
G-SERIES COMPACT SITE ENCLOSURE, WA	-	TT3147	112	\$10,452.00	

Updated Pricing for contract 4400016317 as of January 2022

G-SERIES COMPACT SITE ENCLOSURE, PO		-	TT3145	112	\$10,452.0
G-SERIES COMPACT SITE ENCLOSURE, PA		-	TT3146	112	\$10,366.0
Compact Site Cable Kits					
Description	Full Description	Nomenclature	APC	Price	
FRU: COMPACT EXPANSION CABLE KIT	-	DLN7014	112	\$300.00	
FRU: COMPACT BASE CABLE KIT	-	DLN7013	112	\$600.00	
Field Replacement Units (FRUs)					
Description	Full Description	Nomenclature	APC	Price	
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00	
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6895	112	\$2,200.00	
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00	
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00	
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00	
FRU: PA UHF R2	Replaces DLN1347A and DLN6792A.	DLN6896	112	\$3,200.00	
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00	
FRU: 150W PA 800MHZ	-	DLN6935	112	\$12,500.00	
FRU: XCVR 7/800 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00	
FRU: XCVR 7/800 MHz V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00	
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00	
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00	
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00	
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00	
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00	
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00	
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00	
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00	
FRU: GTR 136-146MHZ EXT DUAL CIRCULATOR KIT	-	DLN6836	112	\$1,500.00	
FRU: GTR 144-160MHZ EXT DUAL CIRCULATOR KIT	-	DLN6837	112	\$1,500.00	
FRU: GTR 158-174MHZ EXT DUAL CIRCULATOR KIT	-	DLN6838	112	\$1,500.00	
FRU: GTR 380-403MHZ EXT DUAL CIRCULATOR KIT	-	DLN6839	112	\$1,500.00	
FRU: GTR 403-470MHZ EXT DUAL CIRCULATOR KIT	-	DLN6840	112	\$1,500.00	
FRU: GTR 470-512MHZ EXT DUAL CIRCULATOR KIT	-	DLN6841	112	\$1,500.00	
FRU: GTR 764-870MHZ EXT DUAL CIRCULATOR KIT	-	DLN6842	112	\$1,500.00	
FRU: T2-2R RECEIVER MUTE	-	DLN6795	112	\$2,000.00	
FRU: T2-2R DUPLEX & TRPL RELAY	-	DLN6890	112	\$4,000.00	
FRU: T3-3R RECEIVE MUTE	-	DLN6796	112	\$2,000.00	
FRU: T4-4R RECEIVER MUTE	-	DLN6797	112	\$2,000.00	
FRU: T1-2R W/TALKAROUND	-	DLN6799	112	\$1,200.00	
FRU: RCVR SOFT NO SPLITTER	-	DLN6798	112	\$400.00	
FRU: GTR ANALOG 4W E&M SIMULCAST KIT	-	DLN6821	112	\$250.00	
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00	
Associated Products					
Raymar Modem & Analog Interface					
Description	Full Description	Nomenclature	APC	Price	
ASTRO 25 ANALOG MODEM II	-	DS01003200100	207	\$4,200.00	
CABLE, SCSI INTERCONNECT, 2'	-	DS00573200100	207	\$400.00	
CABLE, POWER ADAPTER, MOTOROLA 3084818Y02 - GAIM, 8	-	DS00573200112	207	\$145.00	
CABLE, AC POWER, EXTERNAL BRICK, 110/240VAC	-	DS00573200111	207	\$200.00	
V.3600, RM, UI, MODEM (0100-3200-100 ONLY)	-	DSTEL6209548100010	454	\$1,450.00	
GTR 8000 Site Subsystem					
GTR 8000 Site Subsystem					
Options					
Frequency Band					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700/800 MHz	-	CA00855AA	112	\$6,300.00	
Base Radio					
Description	Full Description	Nomenclature	APC	Price	
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00	
Base Radio Software					
Description	Full Description	Nomenclature	APC	Price	
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00	
Site Controller					
Description	Full Description	Nomenclature	APC	Price	
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00	
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00	
Energy Efficiency					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00	
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00	
Cables					
Description	Full Description	Nomenclature	APC	Price	
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00	
Field Replacement Units (FRUs)					
Description	Full Description	Nomenclature	APC	Price	
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00	
FRU: XCVR 7/800 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00	
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00	
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00	
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00	
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00	
G-Series Software Upgrade					
G-SERIES SOFTWARE UPGRADES					
Description	Full Description	Nomenclature	APC	Price	
G-SERIES SOFTWARE UPGRADE	-	T7140	112	\$0.00	
Options					
Base Radio Software					
Description	Full Description	Nomenclature	APC	Price	
ADD: SITE REPEATER BR SW UPGRADE	-	CA01116AA	595	\$3,500.00	
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE UPGRADE	-	CA01195AA	595	\$5,300.00	
ADD: CIRCUIT BASED MULTISITE BR SW UPGRADE	-	CA01115AA	595	\$4,500.00	
ADD: ASTRO 25 CONVENTIONAL SW UPGRADE	-	CA01615AA	595	\$2,150.00	
ANALOG CONVENTIONAL GTR 8000 SOFTWARE UPGRADE	-	CA01995AA	595	\$100.00	
ADD: ASTRO 25 EXPRESS BR SW UPGRADE	-	CA01430AB	595	\$3,500.00	
ADD: 3600 SIMULCAST SW UPGRADE	-	CA02333AA	595	\$3,300.00	
ADD: 3600 IR SW UPGRADE	-	CA02336AA	595	\$2,300.00	
ADD: 3600 TO P25 UPGRADE	-	CA02335AA	595	\$2,000.00	
ADD: DIG COV TO P25 TRUNKING UPGRADE	-	CA02524AA	595	\$0.00	
ADD: ANALOG CONV TO DIGITAL CONV BR SW UPGRADE	-	CA02211AA	595	\$6,500.00	
ADD: ANALOG CONV TO ASTRO 25 IP SIMULCAST BR SW UPGRADE	-	CA02218AA	595	\$19,500.00	
ADD: ANALOG CONV TO ASTRO 25 CIRCUIT SIMULCAST BR SW UPGRADE	-	CA02217AA	595	\$13,700.00	
ADD: ANALOG CONV TO ASTRO 25 SITE REPEATER BR SW UPGRADE	-	CA02216AA	595	\$12,760.00	
ADD: 25 KHZ HPD BR SW UPGRADE	-	CA01114AA	595	\$6,000.00	
Two-Slot TDMA Enhancements					
Description	Full Description	Nomenclature	APC	Price	
ADD: P25 TDMA SOFTWARE UPGRADE	-	CA01905AA	595	\$3,300.00	
ADD:P25 FDMA TO P25 TDMA SW UPGRADE	-	CA01903AA	595	\$13,000.00	
ADD:DYNAMIC CHANNEL ASSIGNMENT SOFTWARE	-	CA01966AA	595	\$10,000.00	



Updated Pricing for contract 4400016317 as of January 2022

ADD: DYNAMIC CHANNEL SW UPGRADE	-	CA01968AA	595	\$3,350.00
ADD: DYNAMIC DUAL MODE BR SW UPGRADE	-	CA01410AA	595	\$12,000.00
ADD: DDM TO DYNAMIC CH SW UPGRADE	-	CA01967AA	595	\$3,350.00
ADD: X2-TDMA TO P25 TDMA SW UPGRADE	-	CA01904AA	595	\$3,300.00
Conventional Features				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: DIGITAL CONVENTIONAL BR VOTING TO SIMULCAST UPGRADE	-	CA02208AA	595	\$700.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
Site Controller Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE UPGRADE	-	CA01196AA	595	\$20,650.00
ADD: CIRCUIT BASED MULTISITE SC SW UPGRADE	-	CA01118AA	595	\$19,800.00
ADD: SITE RPTR SC SW UPGRD VOICE	-	CA02212BA	595	\$1,650.00
ADD: SITE RPTR SC SW UPGRD IV&D	-	CA02219BA	595	\$2,970.00
ADD: ST RPTR SC SW UPGRD IV&D+ENDATA	-	CA03008AA	595	\$3,960.00
ADD: MCC 7500 CONV SITE UPGRADE	Order one CA01246AA for each conventional site controller being upgraded. Order as a sub-item to the T7140.	CA01246AA	112	\$1,200.00
ADD: ASTRO 25 EXPRESS SC SW UPGRADE	-	CA01431AB	112	\$1,650.00
ADD: 25 KHZ HPD SC SW UPGRADE	-	CA01117AA	595	\$2,800.00
Data Expansion:				
Description	Full Description	Nomenclature	APC	Price
ADD: STRPTR SC SW UPGR VC IVD+ENDATA	-	CA03003AA	595	\$7,000.00
ADD: SITE RPTR SC EXP IV&D- ENH DATA	-	CA03002AA	595	\$3,000.00
ADD: ASTRO 25 EXPRESS to SITE REPEATER SC SW UPGRADE IV&D	-	CA02205AA	595	\$4,920.00
Remote Site Licenses				
TX/RX Site Upgrade SW of Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL REM SITE UPGRD LIC VOICE	-	CA02214BA	595	\$0.00
ADD: SIMUL REM SITE UPGRD LIC IV&D	-	CA02206BA	595	\$1,320.00
ADD: SIMUL RM ST UPGRD LC IVD+ENDATA	-	CA03017AA	595	\$3,000.00
TX/RX Add-On New Site in Existing System				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD: SMLCST RMT ST LIC IV&D+ENH DATA	-	CA03009AA	595	\$7,000.00
TX/RX Data Expansion on Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD: SIMUL REM ST LC EXP IV&D+ENDATA	-	CA03010AA	595	\$3,000.00
ADD: SIM RM ST LC EXP VCE-IVD+ENDATA	-	CA03011AA	595	\$7,000.00
RX-Only Site Upgrade SW of Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL RX REM SITE UPGRD LIC VCE	-	CA03020AA	595	\$0.00
ADD: SIMUL RX REM ST UPGRD LIC IV&D	-	CA03018AA	595	\$660.00
ADD: SIM RX RM ST UPGRD LC IVD+ENDATA	-	CA03019AA	595	\$1,100.00
RX-Only Add-On New Site in Existing System				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL RX REM ST LIC VOICE ONLY	-	CA03014AA	595	\$0.00
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD: SIMUL RX RM ST LC IVD+ENH DATA	-	CA03012AA	595	\$5,000.00
RX-Only Data Expansion on Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD: SM RX REM ST LC EXP IV&D+ENDATA	-	CA03016AA	595	\$3,000.00
ADD: SIM RX RM ST LC EXP IV&D+ENDATA	-	CA03015AA	595	\$5,000.00
Reference Distribution Module Software				
Description	Full Description	Nomenclature	APC	Price
ADD: REFERENCE DISTRIBUTION MODULE SOFTWARE UPGRADE	-	CA02210AA	595	\$1,650.00
ADD: RDM SW FOR RX ONLY UPGRADE	-	CA02458AC	595	\$400.00
Comparator Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION UPGRADE	-	CA01197AA	595	\$3,000.00
ADD: GCM 8000 CONVENTIONAL SW	-	CA01799AA	595	\$2,650.00
ADD: CM P25 TDMA SOFTWARE UPGRADE	-	CA01912AA	595	\$3,300.00
ADD: CM P25 FDMA TO P25 TDMA SW UP	-	CA01810AA	595	\$16,000.00
ADD: ADD: ASTRO 25 CONV VOTING SW	-	CA01505AC	595	\$2,000.00
ADD: ASTRO 25 CONV SIMULCAST SW	-	CA01502AC	595	\$3,000.00
ADD: CONVENTIONAL COMPARATOR VOTING TO SIMULCAST UPGRADE	-	CA02213AA	595	\$1,000.00
ADD: TRUNKING REDUNDANT COMPRTR SW	-	CA01974AA	595	\$1,500.00
ADD: ADD: SW UPGRADE LIC SINGLE EXP	-	CA01914AB	595	\$1,350.00
ADD: CM X2-TDMA TO P25 TDMA SW UP	-	CA01911AA	595	\$3,300.00
GPW 8000 Receiver Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MS RCVR SW UPGRADE	-	CA03022AB	595	\$1,300.00
ADD: CIRCUIT BASED MS RCVR SW UPGRADE	-	CA03021AB	595	\$1,300.00
ADD: GPW 8000 CONV SW UPGRADE	-	CA01797AA	112	\$650.00
ANALOG CONVENTIONAL GPW 8000 SOFTWARE UPGRADE	-	CA01995AB	595	\$100.00
ADD: RX/O P25 TDMA SW UPGRADE	-	CA02450AB	595	\$2,300.00
ADD: RX/O DYNAMIC CHANNEL SW UPGRADE	-	CA02451AB	595	\$1,800.00
ADD: ANALOG CONV TO 3.1 CONV RX/O	-	CA02453AB	595	\$2,000.00
ADD: ANALOG CONV TO IP SIMUL RX/O	-	CA02455AB	595	\$4,000.00
ADD: ANALOG CONV TO CIRC SIMUL RX/O	-	CA02454AB	595	\$4,000.00
ADD: 3.1 CONV TO IP SIMUL RX/O	-	CA02457AB	595	\$2,000.00
ADD: 3.1 CONV TO CIRC SIMUL RX/O	-	CA02456AB	595	\$2,000.00
ADD: RX/O P25 FDMA - P25 TDMA SW UPGRADE	-	CA02449AB	595	\$7,000.00
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	595	\$0.00
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	595	\$150.00
ADD: RX/O DYNAMIC CHANNEL ASSIGNMENT SW	-	CA02452AB	595	\$5,500.00

GTR 8000 Expandable Site Subsystem

Radio Model				
Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUBSYSTEM	-	SQM01SUM7054	112	\$6,000.00
Options				
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: 700/800 MHZ		-	CA00855AA	112	\$6,300.00
ADD: 900 MHz		-	CA01821AA	112	\$6,300.00
Base Radios					
Description	Full Description	Nomenclature	APC	Price	
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00	
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00	
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00	
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00	
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00	
ADD: QTY (6) GTR 8000 BASE RADIOS	-	X306AC	112	\$35,400.00	
Base Radio Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00	
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00	
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.00	
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.00	
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.00	
ADD:3600 TRUNKING SIMULCAST OPERATION	-	CA02207AA	595	\$16,000.00	
ADD:3600 INTELLIREPEATER SOFTWARE	-	CA02209AA	595	\$13,000.00	
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$19,200.00	
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00	
Power Distribution Unit (NOTE: AC cables not included in AC-Only option. Please refer to G-Series Ordering Guide)					
Description	Full Description	Nomenclature	APC	Price	
ADD: AC ONLY POWER DISTRIBUTION	-	CA02684AA	112	\$0.00	
ADD: AC DC POWER DISTRIBUTION	-	CA02686AA	112	\$0.00	
Energy Efficiency					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00	
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00	
Two-slot TDMA Enhancements					
Description	Full Description	Nomenclature	APC	Price	
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00	
ADD:2ND BRANCH DIVERSITY	-	CA01943AA	112	\$700.00	
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00	
Conventional Software System Configuration					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00	
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00	
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00	
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00	
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00	
Conventional Features					
Description	Full Description	Nomenclature	APC	Price	
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00	
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00	
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00	
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00	
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00	
3600 Trunking Features					
Description	Full Description	Nomenclature	APC	Price	
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00	
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00	
Receiver Multicouplers					
Description	Full Description	Nomenclature	APC	Price	
ADD: CABINET RMC W/ CAPABILITY OF 6 BRS	-	CA00861AA	112	\$700.00	
ADD: SITE & CABINET RMC W/CAPABILITY OF 7-24 BRS	-	CA00862AA	112	\$2,100.00	
ADD: CABINET RMC FOR EXPANSION RACK	-	CA00877AA	112	\$600.00	
UHF Preselectors					
Description	Full Description	Nomenclature	APC	Price	
ADD: UHF SITE PRESELECTOR, 450-453.5	-	CA02702AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00	
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00	
Cavity Combiners					
Description	Full Description	Nomenclature	APC	Price	
ADD: PRIMARY 6 PORT CAVITY COMBINER	-	CA00879AA	112	\$8,400.00	
ADD: EXPANSION 6 PORT CAVITY COMBINER	-	CA00880AA	112	\$8,400.00	
ADD:7/800 PRIME 100 T-T CAV COMB	-	CA02855AA	112	\$12,500.00	
ADD: 7/800 EXP 100 T-T CAV COMB	-	CA02856AA	112	\$12,500.00	
ADD: UHF PRIMARY 6 PORT CAVITY COMBINER	-	CA01180AA	112	\$15,500.00	
Hybrid Combiners for 900 MHz					
Description	Full Description	Nomenclature	APC	Price	
ADD: 900 HYBRID SINGLE OUTPUT 2-WAY	-	CA01824AA	112	\$5,000.00	
ADD: 900 HYBRID SINGLE OUTPUT 3-WAY	-	CA01825AA	112	\$7,500.00	
ADD: 900 HYBRID SINGLE OUTPUT 4-WAY	-	CA01826AA	112	\$10,000.00	
ADD: 900 HYBRID SINGLE OUTPUT 5-WAY	-	CA01827AA	112	\$12,500.00	
ADD: 900 HYBRID SINGLE OUTPUT 6-WAY	-	CA01828AA	112	\$15,000.00	
ADD: 900 HYBRID DUAL OUTPUT 2-WAY	-	CA01829AA	112	\$10,000.00	
ADD: 900 HYBRID DUAL OUTPUT 3-WAY	-	CA01830AA	112	\$15,000.00	
TX Filters, Diplexers, or 900 MHz Duplexers					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700 + 800 MHZ DIPLEXER W/PMU	-	CA00881AA	112	\$1,000.00	
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00	
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00	
ADD: 700/800 PHASING HARNESS	-	CA01058AA	112	\$1,000.00	
ADD: UHF TX FILTER W/PMU 450-453.5	-	CA01073AA	112	\$3,300.00	
ADD: TX FILTER W/PMU 451.5-455	-	CA01074AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 460-463.5	-	CA01075AA	112	\$3,300.00	
ADD: TX FILTER W/PMU 461.5-465	-	CA01076AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 470-472	-	CA01077AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 471-473	-	CA01078AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 476-478	-	CA01079AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 477-479	-	CA01080AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 482-484	-	CA01081AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 483-485	-	CA01082AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 488-490	-	CA01083AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 489-491	-	CA01084AA	112	\$3,300.00	
ADD: UHF TX FILTER W/PMU 494-496	-	CA01085AA	112	\$3,300.00	

ADD: UHF TX FILTER W/PMU 495-497	-	CA01086AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 500-502	-	CA01087AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 501-503	-	CA01088AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 506-508	-	CA01089AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 507-509	-	CA01090AA	112	\$3,300.00
ADD: 900 MHZ TX FILTER	-	CA01831AA	112	\$1,250.00
ADD: 900 MHZ SINGLE DUPLEXER	-	CA01834AA	112	\$1,000.00
ADD: 900 MHZ DUAL DUPLEXER	-	CA01833AA	112	\$2,500.00
ADD: EXPAN RCK DPLXRX EXTEN CABLE	-	CA01059AA	112	\$100.00
Site Controller, Reference Distribution Module, Expansion Hubs				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: QTY (1) XHUB	-	CA00884AA	112	\$3,500.00
ADD: HIGH AVAILABILITY XHUB	-	CA00885AA	112	\$3,500.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00
ADD: REFERENCE DISTRIBUTION SOFTWARE	-	CA01537AA	595	\$6,500.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00
Integrated GGM 8000 Gateway				
Description	Full Description	Nomenclature	APC	Price
ADD: ADD: GGM 8000 GATEWAY	-	CA01706AA	147	\$5,250.00
ADD: 7.12+ GGM 8000 GATEWAY & ENCRYPTION	-	CA02154AA	147	\$7,250.00
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	-	CA02224AA	112	\$700.00
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	-	CA02225AA	112	\$300.00
Cabinets and Racks				
Description	Full Description	Nomenclature	APC	Price
ADD: 43RU SCHROFF CABINET	-	CA00293AA	112	\$880.00
ADD: 7.0 FT OPEN RACK	-	CA01402AA	112	\$495.00
ADD: 7.5 FT OPEN RACK, 48RU	-	X882AH	112	\$495.00
150W High Power 800MHz PA				
Description	Full Description	Nomenclature	APC	Price
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00
Additional Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: CABINET DOOR, SOLID	-	CA00027AB	112	\$225.00
ADD: FRONT/BACK DOOR, LOUVERED	-	CA00027AC	112	\$225.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00
FRU: PA UHF R2	Replaces DLN1347A and DLN6792A.	DLN6896	112	\$3,200.00
FRU: PA 7800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: PA 900 MHz	Replaces DLN6779A.	DLN6894	112	\$3,000.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: XCVR 7800 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7800 MHz V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6893	112	\$4,300.00
FRU: XCVR 900 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6778A.	DLN6882	112	\$3,000.00
FRU: XCVR 900 MHz V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems.	DLN6923	112	\$4,000.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: G-SERIES XHUB	-	DLN6677	112	\$3,500.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: 43RU SCHROFF GTR ESS CABINET	Includes solid side doors, louvered front and back doors, cable guides, slides, and un-populated GTR 8000 ESS junction panel. Intended for moving open rack GTR 8000 ESS equipment into a cabinet. Size/configuration restrictions apply.	DLN6828A	112	\$5,750.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00
FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	-	DLN6846	112	\$575.00
FRU: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	-	DLN6845	112	\$1,250.00
FRU: 150W PA 800MHZ	-	DLN6935	112	\$12,500.00
FRU HYBRID COMBINER 1/2 - 1/2	-	DLN6782	112	\$1,500.00
FRU HYBRID COMBINER 2/3 - 1/3	-	DLN6783	112	\$1,500.00
FRU HYBRID COMBINER 3/5 - 2/5	-	DLN6784	112	\$1,500.00
FRU HYBRID COMBINER FAN MODULE	-	DLN6780	112	\$1,500.00
FRU: 700/800 MHZ CABINET RMC MODULE	-	DLN1306	112	\$1,000.00
FRU: CABINET RMC PASS THROUGH MODULE	-	DLN1380	112	\$720.00
FRU: 700/800 MHZ SITE LNA	-	DLN6634	112	\$1,000.00
FRU: CABINET LNA MODULE UHF 435-524	-	DLN1374	112	\$1,000.00
FRU UHF 435-524 MHZ SITE LNA MODULE	-	DLN1375	112	\$1,000.00
GTR 8000 Expandable Site Subsystem Channel Addition				
Radio Model				
Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUB-SYSTEM CHANNEL ADDITION UPGRADE	-	T7071	112	\$0.00
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
GTR 8000 ESS Base Radio Options				
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
ADD: VHF (136-174 MHz)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHz)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHz)	-	X640AL	112	\$6,300.00
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: 900 MHz	-	CA01821AA	112	\$6,300.00
Base Radios				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00
Base Radio Software				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.0
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.0
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.0
ADD:3600 TRUNKING SIMULCAST OPERATION	-	CA02207AA	595	\$16,000.0
ADD:3600 INTELLIREPEATER SOFTWARE	-	CA02209AA	595	\$13,000.0
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$19,200.0
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.0
Conventional Software System Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.0
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00
Conventional Features				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.0
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
3600 Trunking Features				
Description	Full Description	Nomenclature	APC	Price
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.0
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
Two-slot TDMA Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.0
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.0

HPD1000 Modem

Models				
Description	Full Description	Nomenclature	APC	Price
HPD1000 MODEM 700/800MHZ	-	M26UGA9PW 1 N	153	\$1,700.0
Options				
Software Options				
Description	Full Description	Nomenclature	APC	Price
ADD: ADD: GPS OPERATION	Does not include GPS antenna.	G440	153	\$400.00
Antenna(s)				
Description	Full Description	Nomenclature	APC	Price
ADD: ANTENNA 1/4 WAVE 764-870MHZ	Motorcycle Approved Corresponding Motorcycle kit: HAF4015 Corresponding kit: HAF4016	G335	500	\$14.00
ADD: ANTENNA 3DB LOW-PROFILE 764-870MHZ	Motorcycle Approved Corresponding kit: HAF4013 Corresponding Motorcycle kit: HAF4018	G174	500	\$43.00
ADD: ANTENNA 3DB ELEVATED FEED 764-870MHZ	NOT Compatible with Motorcycle. Corresponding kit: HAF4014.	G175	500	\$75.00
ADD: GPS ANTENNA	-	G619	153	\$120.00
ALT: ANTENNA 3DB GAIN 764-870MMZ	Not compatible with Motorcycle. Corresponding kit: HAF4017.	W484	500	\$38.00
Cable(s)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADD: DATA CABLE 10 FT. ETHERNET WITH IGNITION SENSE	-	G651	153	\$50.00
ADD: ADD: DATA CABLE 6 FT USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 Modem.	G308	153	\$50.00
ADD: DATA CABLE 18 FT ETHERNET WITH IGNITION SENSE	-	G652	153	\$50.00
ADD: ADD: DATA CABLE 16.5 FT. USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 modem.	G309	153	\$50.00
Service Options				
Description	Full Description	Nomenclature	APC	Price
ENH: 2 YR SFS LITE	-	V699AN	153	\$108.00
ENH: ONE (1) YEAR EXPRESS SERVICE PLUS	-	V698AN	153	\$60.00
Accessories				
Antenna(s)				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	-	HAF4013	554	\$43.00
ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	-	HAF4014	554	\$75.00
ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	-	HAF4017	554	\$38.00
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$23.00
Cable(s)				
Data - USB				
Description	Full Description	Nomenclature	APC	Price
USB DATA CABLE W/ IGNITION SENSE 1.5M	-	HKN6177	455	\$50.00
DATA CABLE, USB W/ IGNITION SENSE 4.5M	-	HKN6178	153	\$50.00
Data - ETHERNET				
Ignition Sense				
Description	Full Description	Nomenclature	APC	Price
CABLE, IGNITION SENS , 18 FT	-	HKN6173	455	\$25.00
CABLE, HPD IGNITION SENSE 10 FT	-	HKN6174	455	\$25.00
Power Cable				
Description	Full Description	Nomenclature	APC	Price
CABLE, POWER, HPD 15A	-	HKN6197	153	\$35.00
Enhanced Power Control Cable				
Description	Full Description	Nomenclature	APC	Price
CABLE, ENHANCED POWER CONTROL	-	FLN4215	153	\$175.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
HPD 1000 Basic Service Manual	-	6816254H01	455	\$29.25

HPD1000 Modem

FLASHport

Models				
Description	Full Description	Nomenclature	APC	Price
HPD 1000 7/800 MHZ SW UPGRADE	-	T7487	153	\$0.00
Options				
FLASHport Options				
Description	Full Description	Nomenclature	APC	Price
ADD: HPD1000 GPS FLASH	-	G440	153	\$400.00
ENH: HPD1000 SOFTWARE REFERSH	-	G880AF	153	\$75.00

Home Subscriber Server (HSS)

New System Ordering Guidelines				
Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 5K BUNDLE	-	TT2621	53	\$37,500.0
HSS IMS MODULE 25K BUNDLE	-	TT2623	53	\$47,880.0
HSS IMS MODULE 100K TO 150K	-	TT05734AA	53	\$32,870.0
Existing System Capacity Expansion Guidelines				
Description	Full Description	Nomenclature	APC	Price
HSS HW/SW FROM 750K TO 1M	-	TT05877AA	53	\$296,520.0



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 100K TO 150K	-	TT05734AA	53	\$32,870.00
HSS IMS MODULE 750K TO 1M	-	TT05881AA	54	\$82,450.00

ISDL - Integrated Data Solutions Laboratory
Laboratory Time and Engineering Consulting Services

Description	Full Description	Nomenclature	APC	Price
ADD: LAB TIME 1 DAY	-	Z18AA	375	\$1,000.00
ADD: LAB TIME 2 DAYS	-	Z19AA	375	\$2,000.00
ADD: LAB TIME 3 DAYS	-	Z20AA	375	\$3,000.00
ADD: ENG CONSULTING SVCS 4 DAY	-	Z26AA	375	\$6,000.00
ISDL WEEKLY LAB/ENG SVCS	-	Q3383	375	\$9,000.00

Intelligent Middleware

Description	Full Description	Nomenclature	APC	Price
INTELLIGENT MIDDLEWARE	-	SQM01SUM0257	232	\$0.00

Options
SYSTEM SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK SERVICES SOFTWARE	-	CA02384AE	232	\$0.00

APPLICATION INTERFACE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO NETWORK APPLICATION INTERFACE	-	CA02354AA	232	\$0.00
ADD: DIMETRA NETWORK APPLICATION INTERFACE	-	CA02355AA	232	\$0.00
ADD: OTHER BEARER NETWORK APPLICATION INTERFACE	-	CA02357AA	232	\$0.00

IMW RESOURCE OPTIONS
LOCATION RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00
ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00
ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

PRESENCE RESOURCE OPTIONS
 (E Location Service is selected; MUST select Presence for ASTRO25 Systems)

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

MESSAGING SERVICE RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00
ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00
ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00

GROUP MANAGEMENT RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00

HARDWARE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD:IMW NON-REDUNDANT HIGH TIER SERVER	-	CA03607AA	232	\$24,750.00
ADD: IMW REDUNDANT HIGH TIER SERVER	-	CA03608AA	232	\$59,500.00
ADD: SQL SVR STD2014 EMB	-	CA02668AE	232	\$5,000.00

OPTIONAL MCAFFEE ANTIVIRUS SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: MCAFFEE STANDALONE ANTI VIRUS SOFTWARE	-	CA02362AE	232	\$1,175.00

SUPPLEMENTAL CD OPTION (REQUIRED FOR ASTRO; OPTIONAL FOR OTHER RADIO ACCESS NETWORKS)

Description	Full Description	Nomenclature	APC	Price
ADD: SUPPLEMENTAL CD IA (IMW)	-	CA02053AE	232	\$0.00

ASTRO MESSAGING

Description	Full Description	Nomenclature	APC	Price
MCCP Smart Client Software	-	T7746	68	\$2,600.00
ADD: TALK GROUP MESSAGING	Must order exact same quantity of CA03066AA AND T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher.	CA03066AA	68	\$500.00

Intelligent Middleware (IMW) Expansions and Upgrades

Model for Expansion - Adding Licenses or Adding New Services

Description	Full Description	Nomenclature	APC	Price
UNS RESOURCE EXPANSIONS	-	T8108	232	\$0.00

Options for Indicate Quantity Expansion or Service Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL RESOURCES TO AN EXISTING SERVICE	-	CA03096AA	232	\$0.00
ADD: NEW SERVICES TO EXISTING UNS	-	CA03097AA	232	\$0.00

Options to Add Resources or New Service
Number of Device/User Licenses
Location Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00
ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00
ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

Presence Service

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

Messaging Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00
ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00
ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00
Group Management Options for MSI Internal Apps				
DD RESOURCES FOR GROUP MANAGEMENT FOR MSI APPS	-	UA00762AA	232	\$24.00
Group Management Service Options for 3rd Party Apps				
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00
TELEMETRY SERVICE OPTIONS (BATTERY LEVEL MONITORING)				
ADD: RESOURCES FOR TELEMETRY SERVICES	-	UA00473AA	232	\$0
MISSION CRITICAL GEOFENCE				
ADD: RESOURCES FOR MISSION CRITICAL GEOFENCE	-	CA03597AA	232	\$24.00
MISSION CRITICAL GEOFENCE				
IMW UPG TO LATEST SHIPPING SOFTWARE ASTRO/LTE	-	T8086	232	\$5,000.00
IMW UPG TO LATEST SHIPPING SOFTWARE DIMETRA/OTHER BEARERS	-	T8087	232	\$5,000.00
ADD: IMW SOFTWARE UPGRADE KIT	-	CA03101AA	232	\$0.00
Options for High Tier Server				
HP GEN10 FIRMWARE	-	CA03611AA	232	\$0.00
FRE: DL380 G10 HC 128GH DAS4X1	-	DLN8009	877	\$28,000.00
Third Party Software Kit				
IMW 3RD PARTY SOFTWARE UPGRADE KIT	-	CA03610AA	232	\$0.00
VMWARE VSPHERE LICENSE AND SW	-	CA03612AA	232	\$4,000.00
ADD: HIGH TIER SOFTWARE LICENSE UPGRADE KIT	-	CA03240AA	232	\$5,390.00
ADDING REDUNDANT IMW				
FRE: DL380 G10 HC 128GH DAS4X1	-	DLN8009	877	\$28,000.00
ADD IMW REDUNDANCY	-	UA00763AA	232	\$10,000.00
SQL SERVER 2014 STANDARD EMBEDDED	-	T8368	232	\$5,700.00
Options for ASTRO Advanced Messaging on IMW				
ADD: AMS SOFTWARE FOR IMW	-	CA03241AA	232	\$4,110.00
Antivirus License				
IMW ANTI VIRUS MCAFFEE	-	T8670	232	\$1,100.00
FRE (Field Replaceable Equipment)				
FRE: DL380 G10 HC 128GH DAS4X1	-	DLN8009	877	\$28,000.00

IMS and VoLTE				
Models				
CSCF:				
Description	Full Description	Nomenclature	APC	Price
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1K SUBS	-	TT3040	59	\$141,340.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 5K SUBS	-	TT2897	59	\$213,810.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 10K SUBS	-	TT2898	59	\$223,620.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 25K SUBS	-	TT2899	59	\$252,910.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 50K SUBS	-	TT2900	59	\$301,490.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 100K SUBS	-	TT2901	59	\$396,750.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 250K SUBS	-	TT2902	59	\$677,590.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 500K SUBS	CSCF HW & SW - Basic - 1M SUBS	TT2903	59	\$1,144,660.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1M SUBS	-	TT2904	59	\$2,068,160.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR <=100K SUBS	-	TT3110	59	\$129,930.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 250K SUBS	-	TT3111	59	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 500K SUBS	-	TT3112	59	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 1M SUBS	-	TT3113	59	\$159,300.00
SBG:				
SESSION BORDER GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3041	59	\$85,600.00
SESSION BORDER GATEWAY HW & SW - BASIC - 5K SUBS	-	TT2881	59	\$165,370.00
SESSION BORDER GATEWAY HW & SW - BASIC - 10K SUBS	-	TT2882	59	\$168,610.00
SESSION BORDER GATEWAY HW & SW - BASIC - 25K SUBS	-	TT2883	59	\$181,550.00
SESSION BORDER GATEWAY HW & SW - BASIC - 50K SUBS	-	TT2884	59	\$200,920.00
SESSION BORDER GATEWAY HW & SW - BASIC - 100K SUBS	-	TT2885	59	\$239,560.00
SESSION BORDER GATEWAY HW & SW - BASIC - 250K SUBS	-	TT2886	59	\$347,710.00
SESSION BORDER GATEWAY HW & SW - BASIC - 500K SUBS	-	TT2887	59	\$514,710.00
SESSION BORDER GATEWAY HW & SW - BASIC - 1M SUBS	-	TT2888	59	\$789,590.00
SESSION BORDER GATEWAY HW & SW - BASIC-GR <= 1M SUBS	-	TT3123	59	\$67,910.00
MRS BASIC:				
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1K SUBS	-	TT3051	59	\$144,810.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 5K SUBS	-	TT2889	59	\$395,550.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 10K SUBS	-	TT2890	59	\$402,920.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 25K SUBS	-	TT2891	59	\$420,230.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 50K SUBS	-	TT2892	59	\$442,150.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 100K SUBS	-	TT2893	59	\$476,690.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 250K SUBS	-	TT2894	59	\$553,480.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 500K SUBS	-	TT2895	59	\$664,770.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1M SUBS	-	TT2896	59	\$881,980.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR <= 50K SUBS	-	TT3115	59	\$48,110.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 100K SUBS	-	TT3116	59	\$48,610.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 250K SUBS	-	TT3117	59	\$49,120.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 500K SUBS	-	TT3118	59	\$50,630.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 1M SUBS	-	TT3119	59	\$55,570.00
MRS Value Package - MRF Multimedia (SW):				
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1K SUBS	-	TT3052	59	\$690.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 5K SUBS	-	TT3053	59	\$2,520.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 10K SUBS	-	TT3054	59	\$5,040.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 25K SUBS	-	TT3055	59	\$12,590.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 50K SUBS	-	TT3056	59	\$25,170.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 100K SUBS	-	TT3057	59	\$50,340.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 250K SUBS	-	TT3058	59	\$125,840.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 500K SUBS	-	TT3059	59	\$251,670.00

Updated Pricing for contract 4400016317 as of January 2022

MRS Value Package - HD Voice (SW):		TT3060	59	\$503,330.00
Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1M SUBS	-	TT3061	59	\$1,600.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1K SUBS	-	TT3062	59	\$5,860.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 5K SUBS	-	TT3063	59	\$11,720.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 10K SUBS	-	TT3064	59	\$29,290.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 25K SUBS	-	TT3065	59	\$58,580.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 50K SUBS	-	TT3066	59	\$117,160.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 100K SUBS	-	TT3067	59	\$232,890.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 250K SUBS	-	TT3068	59	\$585,780.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 500K SUBS	-	TT3069	59	\$1,171,560.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1M SUBS	-	TT3069	59	\$1,171,560.00
MTAS BASIC:				
Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1K SUBS	-	TT3070	59	\$161,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 5K SUBS	-	TT2873	59	\$233,470.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 10K SUBS	-	TT2874	59	\$259,490.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 25K SUBS	-	TT2875	59	\$311,060.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 50K SUBS	-	TT2876	59	\$387,950.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 100K SUBS	-	TT2877	59	\$541,290.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 250K SUBS	-	TT2878	59	\$1,025,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 500K SUBS	-	TT2879	59	\$1,814,380.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1M SUBS	-	TT2880	59	\$3,348,080.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR => 250K SUBS	-	TT3120	59	\$103,780.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR 500K SUBS	-	TT3121	59	\$141,540.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC-GR 1M SUBS	-	TT3122	59	\$217,070.00
MTAS Value Package - Multimedia (SW):				
Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1K SUBS	-	TT3071	59	\$1,230.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 5K SUBS	-	TT3072	59	\$4,500.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 10K SUBS	-	TT3073	59	\$8,990.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 25K SUBS	-	TT3074	59	\$22,470.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 50K SUBS	-	TT3075	59	\$44,940.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 100K SUBS	-	TT3076	59	\$89,880.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 250K SUBS	-	TT3077	59	\$224,700.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 500K SUBS	-	TT3078	59	\$449,400.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1M SUBS	-	TT3079	59	\$898,800.00
MGC BASIC:				
Description	Full Description	Nomenclature	APC	Price
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1K SUBS	-	TT3042	59	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 5K SUBS	-	TT3043	59	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 10K SUBS	-	TT3044	59	\$45,820.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 25K SUBS	-	TT3045	59	\$56,730.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 50K SUBS	-	TT3046	59	\$71,420.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 100K SUBS	-	TT3047	59	\$103,370.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 250K SUBS	-	TT3048	59	\$178,510.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 500K SUBS	-	TT3049	59	\$295,910.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1M SUBS	-	TT3050	59	\$488,440.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC-GR <= 1M SUBS	-	TT3114	59	\$33,230.00
MGW BASIC:				
Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3081	59	\$35,250.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 5K SUBS	-	TT3082	59	\$129,600.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 10K SUBS	-	TT3083	59	\$130,040.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 25K SUBS	-	TT3084	59	\$131,370.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 50K SUBS	-	TT3085	59	\$133,580.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 100K SUBS	-	TT3086	59	\$138,000.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 250K SUBS	-	TT3087	59	\$150,810.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 500K SUBS	-	TT3088	59	\$298,950.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1M SUBS	-	TT3089	59	\$464,660.00
AFG - Hardware and Platform/Virtualization SW:				
Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	59	\$28,580.00
AFG - Application Software:				
Description	Full Description	Nomenclature	APC	Price
ADD: IMS AFG AS - 1K SUBS	-	CA03163AA	59	\$45,450.00
ADD: IMS AFG AS - 5K SUBS	-	CA03164AA	59	\$167,080.00
ADD: IMS AFG AS - 10K SUBS	-	CA03165AA	59	\$178,030.00
ADD: IMS AFG AS - 25K SUBS	-	CA03166AA	59	\$210,870.00
ADD: IMS AFG AS - 50K SUBS	-	CA03167AA	59	\$260,300.00
ADD: IMS AFG AS - 100K SUBS	-	CA03168AA	59	\$356,340.00
ADD: IMS AFG AS - 250K SUBS	-	CA03169AA	59	\$633,180.00
ADD: IMS AFG AS - 500K SUBS	-	CA03170AA	59	\$1,063,290.00
ADD: IMS AFG AS - 1M SUBS	-	CA03171AA	59	\$1,878,590.00
SMS over IMS - Hardware and Platform/Virtualization SW:				
Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	59	\$28,580.00
SMS over IMS - Application Software:				
Description	Full Description	Nomenclature	APC	Price
ADD: IMS SMS AS - 10K SUBS	-	CA02514AA	59	\$350,000.00
ADD: IMS SMS AS - 25K SUBS	-	CA02515AA	59	\$476,000.00
ADD: IMS SMS AS - 50K SUBS	-	CA02516AA	59	\$686,000.00
ADD: IMS SMS AS - 100K SUBS	-	CA02517AA	59	\$1,106,000.00
ADD: IMS SMS AS - 250K SUBS	-	CA02518AA	59	\$1,726,200.00
ADD: IMS SMS AS - 500K SUBS	-	CA03202AA	59	\$2,226,700.00
ADD: IMS SMS AS - 1M SUBS	-	CA03203AA	59	\$2,912,700.00
IMS Voice Mail Application:				
Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - LARGE	-	CA02533AA	59	\$55,730.00
HPE 3PAR STORESERV 8000 STORAGE	-	TT3191	59	\$119,590.00
Voice Mail Application Software:				
Description	Full Description	Nomenclature	APC	Price
ADD: IMS VOICEMAIL AS - 10K SUBS	-	CA03155AA	59	\$267,680.00
ADD: IMS VOICEMAIL AS - 50K SUBS	-	CA03156AA	59	\$410,480.00
ADD: IMS VOICEMAIL AS - 100K SUBS	-	CA03157AA	59	\$654,360.00
ADD: IMS VOICEMAIL AS - 250K SUBS	-	CA03158AA	59	\$1,142,120.00
ADD: IMS VOICEMAIL AS - 500K SUBS	-	CA03159AA	59	\$1,534,400.00
ADD: IMS VOICEMAIL AS - 1M SUBS	-	CA03160AA	59	\$2,658,320.00
ADD: IMS VOICEMAIL AS - 10K SUBS - GEO-REDUNDANT	-	CA03161AA	59	\$4,618,320.00
ADD: IMS VOICEMAIL AS - 25K SUBS - GEO-REDUNDANT	-	CA03206AA	59	\$273,560.00
ADD: IMS VOICEMAIL AS - 50K SUBS - GEO-REDUNDANT	-	CA03207AA	59	\$416,360.00
ADD: IMS VOICEMAIL AS - 100K SUBS - GEO-REDUNDANT	-	CA03208AA	59	\$666,120.00
ADD: IMS VOICEMAIL AS - 250K SUBS - GEO-REDUNDANT	-	CA03209AA	59	\$1,165,640.00
ADD: IMS VOICEMAIL AS - 500K SUBS - GEO-REDUNDANT	-	CA03210AA	59	\$1,593,200.00
ADD: IMS VOICEMAIL AS - 1M SUBS - GEO-REDUNDANT	-	CA03211AA	59	\$2,980,040.00
Spares				
TSP SPARES (CSCF, MTAS):				
Description	Full Description	Nomenclature	APC	Price
DUST FILTER UNIT FOR BFD 538	-	DDN2196	59	\$520.00
GENERIC PROCESSOR BOARD: GEP3-24GB	-	DDN2197	59	\$12,790.00
GENERIC PROCESSOR BOARD: GEP3-HD600	-	DDN2198	59	\$15,190.00
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	59	\$2,490.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	59	\$7,090.00

SBG SPARES:

Description	Full Description	Nomenclature	APC	Price
GENERIC PROCESSOR BOARD ASSY W/300G HDD: GEP3-HD300	-	DDN2201	59	\$14,030.00
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	59	\$2,490.00
INTELLIGENT SITE EDGE ROUTER: PRINTED BOARD ASSY/ISER GIGE 1000BASE	-	DDN2202	59	\$24,190.00
MEDIA PACKET PROCESSOR BOARD, PCB ASSEMBLY: MPP4-GE	-	DDN2203	59	\$15,100.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	59	\$7,090.00

MRS SPARES:

Description	Full Description	Nomenclature	APC	Price
PRINTED BOARD ASSEMBLY: AMC VPP 1 1 4	-	DDN2204	59	\$4,810.00
20 PRT 10G ETHERNET SWITCH BOARD: CMXB 10GE SWITCH 8 F/12 B CPPHPS	-	DDN2205	59	\$5,950.00
ETHERNET BOARD: ET-IPG, 1GB/S 4 PRT XAUI	-	DDN2206	59	\$7,810.00
GENERAL PURPOSE PROCESSOR BOARD (GPB7): DUAL CORE 1.5GHZ 2GB/2GB	-	DDN2207	59	\$5,650.00
GENERAL PURPOSE PROCESSOR BOARD (GPB): DUAL CORE 1.5GHZ 4GB/2GB	-	DDN2208	59	\$6,630.00
MEDIA STREAM BOARD (MSB): MSB AMC CR	-	DDN2209	59	\$8,110.00
SWITCH CONTROL BOARD SCB-TF: SCB-TF, 4ISL 630MB/S 3X800W	-	DDN2210	59	\$3,110.00
TIMING CONTROL BOARD: TUB	-	DDN2211	59	\$2,380.00

ISSI 8000 / CSSI 8000 P25 Interoperability Solutions
Ordering ISSI8000 / CSSI8000 for System Releases 7.16+

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00

Ordering New ISSI8000 Hardware for System Releases 7.13 through 7.15

Description	Full Description	Nomenclature	APC	Price
ISGW SERVER USED FOR ISSI / CSSI	-	SQM01SUM0227	226	\$25,250.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
ISG 1000 FIREWALL W/ 2 YR SUPPORT	-	TT1932	708	\$40,000.00

Operating Licenses

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00

Manual and Automatic Roaming Interface Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Manual Roaming License	Each connection for systems 1-24 requires this option.	UA00004AA	226	\$2,000,000.

Automatic roaming

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Automatic Roaming License (for first system)	-	UA00005AA	226	\$2,000,000.
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 2-5)	Each connection for systems 2-5 requires this option. It is not meant to imply that all 4 connections are included.	UA00184AA	226	\$2,000,000.
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 6+)	Each connection for systems 6-24 requires this option. It is not meant to imply that all 19 connections are included.	UA00185AA	226	\$2,000,000.

Simultaneous TalkGroup Call Capacity Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI +10 Addition simultaneous Talk Group Capacity License	-	UA00006AA	226	\$50,000.00

CSSI: Select Number of Operator Position Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: CSSI Operator Position License	-	UA00009AA	226	\$30,000.00

Redundancy

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI 8000 / CSSI 8000 Redundancy Software License	-	UA00042AA	226	\$0.00

Upgrading existing ISSI / CSSI 8000 Systems

When upgrading to a specific release, please select the correct software from below.

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 7.14 SOFTWARE	-	T8023	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.15 SOFTWARE	-	T8145	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.16 SOFTWARE	-	CLN8973	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.17 SOFTWARE	-	CLN9004	226	\$10,000.00

Migrations and Conversions
Migrating from ISSI.1 to ISSI 8000

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI.1 TO ISSI 8000 Product Upgrade License	-	UA00007AA	226	\$0.00

Convert ISSI8000 Manual Roaming to Automatic Roaming

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00
ADD: ISSI Manual to Automatic Roaming Upgrade License	This option is only valid if UA00004 has been previously purchased.	UA00008AA	226	\$125,000.00

KVL 5000

Description	Full Description	Nomenclature	APC	Price
KVL 5000	KVL 5000 (REQUIRED)	T8476B	201	\$6,000.00
ADD: AES ENCRYPTION SOFTWARE	AES Algorithm (REQUIRED)	CA00182AW	201	\$0.00
ADD: ASTRO 25 MODE	ASTRO P25 Software (REQUIRED)	CA03358AA	201	\$0.00
STARTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQUUSBOTG	207	\$13.00
ADD: NORTH AMERICA MICRO USB CHARGER 100/240V	-	CA03467AA	201	\$0.00
ADD: EURO MICRO USB CHARGER 100/240V	-	CA03360AA	201	\$0.00
ADD: BRAZIL MICRO USB CHARGER 100/240V	-	CA03361AA	201	\$0.00
ADD: ARGENTINA MICRO USB CHARGER 100/240V	-	CA03362AA	201	\$0.00
ADD: UK/HKG MICRO USB CHARGER 100/240V	-	CA03363AB	201	\$0.00
ADD: AUS/NZ MICRO USB CHARGER 100/240V	-	CA03364AA	201	\$0.00
ADD: CHINA MICRO USB CHARGER 100/240V	-	CA03468AA	201	\$0.00
ADD: KOREA MICRO USB CHARGER 100/240V	-	CA03469AA	201	\$0.00
ADD: ADD: DVI-XL ENCRYPTION SOFTWARE	-	C793BM	201	\$750.00
ADD: DVP-XL ENCRYPTION SOFTWARE	-	X769AD	201	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	X423AG	201	\$750.00
PORTABLE PROGRAMMING CABLE	-	PMKN4012B	37	\$77.00
BATT IMPRES 2 LIION 2925T	-	PMNN4549A	453	\$80.00
POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MICROUSB.BZL	-	PS000339A08	201	\$31.00
POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MICROUSB.US	-	PS000339A01	201	\$31.00
POWER SUPPLY ADAPTOR.POWER- WALL CUBE.AC.DC.POWER SUPPLY WALL CUBE.AC.	-	PS000339A02	201	\$31.00
POWER- WALL CUBE.AC.DC.POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MIC	-	PS000339A05	201	\$31.00
POWER SUPPLY ADAPTOR.POWER- WALL CUBE.AC.DC.POWER SUPPLY WALL CUBE.AC.	-	PS000339A03	201	\$31.00
POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MICROUSB.AU	-	PS000339A04	201	\$31.00
POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MICROUSB.CHN	-	PS000339A06	201	\$31.00
POWER SUPPLY WALL CUBE.AC.DC.7.5W.100V-240V.MICROUSB.KOR	-	PS000339A07	201	\$31.00
CABLE MICRO USB PROGRAMMING CABLE	-	CB000262A01	261	\$10.00
CHARGER.CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	-	PMPN4119A	785	\$30.00
STARTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQUUSBOTG	207	\$13.00
PORTSMITH USB TO ETHERNET RUGGED ENCAPSULATED FOR ANDROID	-	DQPSA1UB1EE	207	\$174.00
ADD: ADP PRIVACY	-	CA00243AJ	201	\$300.00
CABLE KEYLOADING ADAPTER CGAI	-	HRN6182B	362	\$163.00

KVL 5000
Key Variable Loader
FLASHport® Aftermarket Upgrades
Models

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Options		KVL 5000 FLASHPORT UPGRADE		T8500	201	\$100.00
ASTRO Mode						
Description	Full Description	Nomenclature	APC	Price		
ADD:UPGRADE SW TO LATEST VERSION FOR ASTRO P25 MODE	Upgrade SW to Latest Version for ASTRO P25 Mode NOTE: THIS IS REQUIRED	CA03455AA	201	\$50.00		
ALGOS						
Description	Full Description	Nomenclature	APC	Price		
ADD: ADP ENCRYPTION	ADD: ADP ENCRYPTION	CA01641AB	462	\$300.00		
ADD: DVP:XL ENCRYPTION	ADD: DVP:XL ENCRYPTION	CA01632AB	462	\$750.00		
ADD: DES:DES-XL:DES-OFB ENCRYPTION	ADD: DES:DES-XL:DES-OFB ENCRYPTION	CA01638AB	462	\$1,550.00		
ADD: DVI:XL ENCRYPTION	ADD: DVI:XL ENCRYPTION	CA01640AB	462	\$750.00		

**ASTRO® KMF Crypto Card
FLASHport® Universal Crypto Module (UCM) Upgrades**

Software						
Description	Full Description	Nomenclature	APC	Price		
ADD: BASIC SOFTWARE OPTION	-	CA00147AB	137	\$1,000.00		
Algorithm Options						
Description	Full Description	Nomenclature	APC	Price		
ADD: DES OFB ENCRYPTION KIT	-	CA00143AA	137	\$750.00		
ADD: DES XL ENCRYPTION KIT	-	CA00144AA	137	\$750.00		
ADD: AES ENCRYPTION KIT	NOTE: If a customer has an existing 3.1 KMF they can not add the AES Encryption Kit (CA00182AC) unless their current KMF software application is at version R1.11.1 or higher. Please work with system engineering when adding AES encryption to a 3.1 KMF.	CA00182AC	137	\$750.00		

Key Management Facility
NEW KMF – SERVER, CLIENT, CRYPTR, REDUNDANCY

KMF SERVER & CLIENT (REQUIRED) REQUIRED FOR KMF SERVER & CLIENT:						
Description	Full Description	Nomenclature	APC	Price		
ASTRO KEY MANAGEMENT FACILITY	Note: Does NOT support customers using 3.1 Conventional	T8749	137	\$0.00		
ADD: KMF SERVER AND WEB CLIENT SW	(Note: Includes, 4,000 devices, 4 agencies, 65 clients)	ZA01180AA	137	\$88,000.00		
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00		
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00		
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00		

OPTIONAL FOR KMF SERVER & CLIENT:

Software Options						
Description	Full Description	Nomenclature	APC	Price		
ADD: 15 AGENCIES PARTITIONING	Max Agencies is 64. To get to max agencies, add license (4) times	CA03659AA	137	\$13,750.00		
ADD: 15,000 CAPACITY	Max Capacity is 64,000. To get to max capacity, add license (4) times	CA03651AA	137	\$30,000.00		
ADD: TOUCHLESS KEY PROVISIONING	Available for customers using APX Next & Radio Central	CA03643AA	137	\$15,000.00		

Anti-Virus Software For Server & Client

Description	Full Description	Nomenclature	APC	Price		
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license. NOTE - MGECS DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00		

KMF CRYPTR (REQUIRED)

ALGOS FOR KMF CRYPTR:						
Description	Full Description	Nomenclature	APC	Price		
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00		
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00		
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00		
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00		
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00		

Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price		
AC Line Cord, UK	-	CA02064AA	137	\$0.00		
AC Line Cord, Australia	-	CA02063AA	137	\$0.00		
AC Line Cord, European	-	CA02065AA	137	\$0.00		
AC Line Cord, North America	-	CA02066AA	137	\$0.00		

Accessories/Replacement Items

Description	Full Description	Nomenclature	APC	Price		
CABLE FOR RNC, DIU MGECS	Keyloading cable for KMF CryptR	TKN8531C	362	\$260.00		
U.S. ROBOTICS USB FAX MODEM - REQD FOR KVL-KMF REMOTE COMMUNICATION	USB MODEM REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY	DSUSR5637MODEM	708	\$250.00		
POWER ADAPTER CABLE	-	DLN6739	811	\$65.00		
MINI USB CABLE	-	DLN6735	811	\$25.00		
TRANSFORMER/AC ADAPTER	-	DLN6732	811	\$35.00		

KMF REDUNDANCY (OPTIONAL)

REQUIRED FOR KMF REDUNDANCY:						
Description	Full Description	Nomenclature	APC	Price		
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00		
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00		
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00		
RACK MOUNT KIT FOR CRYPTR II	TKN9285	TKN9285	811	\$135.00		
WEB KMF REDUNDANCY SW	-	DLN8034	137	\$57,150.00		

Encryption Algorithm Kit choices are:

Description	Full Description	Nomenclature	APC	Price		
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00		
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00		
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00		
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00		
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00		

Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price		
AC Line Cord, UK	-	CA02064AA	137	\$0.00		
AC Line Cord, Australia	-	CA02063AA	137	\$0.00		
AC Line Cord, European	-	CA02065AA	137	\$0.00		
AC Line Cord, North America	-	CA02066AA	137	\$0.00		

UPGRADES

Description	Full Description	Nomenclature	APC	Price		
ADD: KMF REDUNDANCY SOFTWARE	ADD: KMF REDUNDANCY SW	CA01229AA	137	\$14,000.00		
ADD: KMF SERVER AND WEB CLIENT SW	ADD: KMF SERVER AND WEB CLIENT SW	CA03599AA	137	\$27,500.00		

KMF FEATURE UPGRADES for 7.18.0442 or earlier

Description	Full Description	Nomenclature	APC	Price		
KMF UPGRADE OPTIONS KIT	-	T7689	137	\$0.00		
ADD: MORE THAN 1000 RADIO USERS	(Note:??Provides up to 64,000 users)	ZA00861AA	137	\$75,000.00		
64 AGENCY PARTITIONING	(Note:??Provides the capability of dividing the KMF database into 64 agencies)	ZA00975AA	137	\$50,000.00		
ADD: ADDITIONAL CLIENT LICENSE	(Note:??Additional client licenses, up to an orderable quantity of 8, for total client licenses of 10 with the 2 included)	ZA00864AA	137	\$15,000.00		
ADD: 11-32 Client Licenses	(Note:??Client Option Bundle beyond 10 client licenses)	ZA00972AA	137	\$75,000.00		
ADD: 33-65 Client Licenses	(Note:??Client Option Bundle beyond 32 client licenses, maximum of 65 total client licenses)	ZA00973AA	137	\$75,000.00		

REQUIRED FOR CUSTOMERS WISHING TO ADD REDUNDANCY TO THEIR EXISTING KMF (WEB BASED THIN CLIENT) 07.18.0442 or Earlier:

Description	Full Description	Nomenclature	APC	Price		
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00		
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00		
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00		

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
WEB KMF REDUNDANCY SW	-	DLN7003	137	\$57,150.00
Encryption Algorithm Kit choices are:				
Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00
Line Cord choices are:				
Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00
KMF CRYPTR SOFTWARE UPGRADE				
Description	Full Description	Nomenclature	APC	Price
KMF CRYPTR SOFTWARE CD UPGRADE	-	T8209	137	\$100.00
KMF CRYPTR ENCRYPTION (ALGORITHM) UPGRADE				
Description	Full Description	Nomenclature	APC	Price
KMF CryptR Encryption CD Upgrade Kit	To Add Algos	T7766	137	\$50.00

LEX L11 PUSH-TO-TALK LTE DEVICE
STEP 1: MODEL

Description	Full Description	Nomenclature	APC	Price
LEX L11 HANDHELD NA REGION	LEX L11 HANDHELD	HK2108	790	\$1,000.00

STEP 2: BATTERY OPTIONS (OPTIONAL)

Description	Full Description	Nomenclature	APC	Price
ADD: IMPRES 2 LHION 5000 MAH BATTERY (PMNN4546)	-	QA07392AA	790	\$50.00

STEP 3: OTHER DEVICE OPTIONS (OPTIONAL)

DESCRIPTION	FULL DESCRIPTION	NOMENCLATURE	APC	PRICE
LEXL11 TRADE AGREEMENT ACT MODEL	THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT	QA02850UM	790	\$100.00
LEXL11 BLACK COVERT MODEL	THIS CONFIGURATION INCLUDES BLACK EMERGENCY BUTTON, NO GREEN RING ROUND THE PTT BUTTON OR CAMERA AND NO WHITE LINE OR +/- ON THE TALKGROUP ROCKER	QA02850ZT	790	\$50.00
LEX L11 BLACK COVERT - TRADE AGREEMENT ACT MODEL	THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT, AND ARE INTERESTED IN BLACK COVERT MODEL	QA08225AA	790	\$100.00

STEP 4: SFS OPTIONS (MUST SELECT ONE)

Description	Full Description	Nomenclature	APC	Price
3YR ESSENTIAL SERVICE	3YR ESSENTIAL SERVICE	VA00989AA	185	\$38.00
3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	VA00986AA	185	\$90.00
DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	QA06507AC	790	\$0.00

STEP 5: SOFTWARE SUBSCRIPTION (MUST BE ORDERED)

Description	Full Description	Nomenclature	APC	Price
3YR SOFTWARE SUBSCRIPTION LTE	-	HKVN4631A	206	\$0.00

ADDITIONAL SOFTWARE CAPABILITIES

Description	Full Description	Nomenclature	APC	Price
SOFTWARE.MULTI PERSONA CAPABILITY LICENSE	Secure Multi-Persona capability enables the creation of multiple cryptographically and temporally isolated personas on a single device.	HKVN4856A	790	\$1,000.00

AFTERMARKET ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
COVER-COVER, COVER, BATTERY, SLIM	ADD: Standard Battery Back Cover	HN001154A01	790	\$12.00
BATTERY PACK BATT IMPRES2 LIION IP68 2500T	Battery IMPRES2 LIION 2500	PMNN4545A	453	\$85.00
COVER-COVER, COVER, BATTERY, HI CAP	ADD: High Capacity Battery Back Cover	HN001155A01	790	\$15.00
BATTERY PACK BATT IMPRES2 LIION IP68 5000T	Battery IMPRES2 LIION 5000	PMNN4546A	453	\$125.00
CABLE 1000 MM LEX L11 USB A TO USB C	Works with wall charger PS000150A351 (purchased separately).	CB000756A01	790	\$20.00
CABLE 1000 MM LEX L11 USB C TO USB C	Works with wall charge PS000278A01.	CB000754A01	790	\$40.00
COVER-DOOR.PLUG, MICROSD SLOT, L11	MICRO SD PLUG (package of 5)	HN001197A01	790	\$10.00
COVER-DOOR.INTERNAL.NANO SIM DOOR TRAY	NANO SIM DOOR TRAY (package of 5)	HN001195A01	790	\$10.00
CHGR VEHICULAR ADAPTER	Vehicular Charging Cable	PMLN7779A	785	\$60.00
CARRY ACCESSORY-HOLSTER.CARRY HOLSTER WITH PETER JONES BELT CLIP FOR L	Carry Holster This holster includes a Peter Jones stud. Please select one of the following Peter Jones attachment clips for the holster.	PMLN7845A	271	\$50.00
PETER JONES CLAMP DOCK BELT CLIP WITH KLICK FAST	This belt clip can be attached to shirt or trouser pockets, jackets and belts.	GMDN0512A	271	\$15.00
PETER JONES BELT DOCK 38MM	This belt dock can be used with belts 38mm in width.	GMDN0497A	607	\$11.50
LEATHER BELT LOOP AND DOCK	Includes a leather loop for belts up to 50mm in width.	GMDN0566AC	607	\$9.75
REPLACEMENT DOCK FOR FTN6355A	Used with garments that accommodate screw-to-fit docks.	WALN4307	607	\$18.00
CARRYCASE ASSEMBLY.CLAM SHELL.PLAS.S	Sew-on dock for mounting on uniforms, body armor, and other clothing types.	GMDN0386A	607	\$13.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US	Includes 12 charging slots. Each slot can accommodate a device with standard or high capacity battery OR a standalone standard or high capacity battery.	PMPN4349A	785	\$1,500.00
CHGR DESKTOP DUAL UNIT IMPRES 2 EXT PS NA	Includes 2 charging slots: 1 slot accommodates the device with either standard or high capacity battery; the other slot accommodates a spare standard or high capacity battery.	PMPN4359A	785	\$100.00
ACCESSORY KIT, CRADLE VEHICULAR, WITH SUCTION BASE	Includes a vehicular cradle and Ram mount. Vehicular charging cable (PMLN7779A) should be ordered separately.	PMLN7912A	785	\$75.00
3.5MM MONO EARBU D W MIC/PTT	3.5mm earbud with inline microphone and push-to-talk	PMLN7540A	607	\$23.00
3.5MM 2-WIRE EARPIECE W TRANSTUBE	3.5mm two-wire earpiece with translucent tube	PMLN7541A	607	\$60.00
PS WALL 100-240V FIXED BLADE US/JP PPS L6 USB-C	Use this Wall Charger with CB000754A01. Quick charging Wall Cable.	PS000278A01	785	\$22.00
PS WALL 240VAC UNIVERSAL US/JPN ADAPTER 5VDC/1.5A L6 USB-A DETACHABLE	Use this Wall charger with CB000756A01. Standard Wall Charging Cable.	PS000150A31	785	\$15.00
PETER JONES LEATHER BELT CLIP WITH KLICK FAST	-	GMDN0513A	271	\$18.00

LXN 6000 LTE Deployable Infrastructure
Deployable Supermodel:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 BASE HARDWARE & EMS SOFTWARE	-	SQM01SUM0297	60	\$107,730.00

Deployable Software License Tiers:

Description	Full Description	Nomenclature	APC	Price
ADD: LXN EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00448AA	60	\$79,390.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00449AA	60	\$97,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00450AA	60	\$126,850.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00451AA	60	\$156,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00452AA	60	\$186,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1500 SUBS	-	UA00453AA	60	\$245,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00454AA	60	\$304,850.00

LTE Deployable per eNB License:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 ENB LICENSE	-	T8367	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

LTE Deployable Incremental per eNodeB License:

Description	Full Description	Nomenclature	APC	Price
INCREMENTAL LXN PER ENB LICENSE	-	T8396	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

Options
eNB Types (bands):

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
GPS ANTENNA CABLE	-	DDN1885	66	\$3,391.00

LXN 7100 LTE ENTRY LEVEL FIXED CORE INFRASTRUCTURE



Updated Pricing for contract 4400016317 as of January 2022

LXN 7100 Supermodel					
Description	Full Description	Nomenclature	APC	Price	
LXN 7100 FIXED CORE	-	SQM01SUM0325	60	\$165,000.00	
High Availability Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: LXN 7100 HA LOCAL REDUNDANCY LICENSE KIT	-	UA00713AA	60	\$50,500.00	
ADD: LXN 7100 HA GEO REDUNDANCY LICENSE KIT	-	UA00714AA	60	\$50,500.00	
Software License Tiers					
Description	Full Description	Nomenclature	APC	Price	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00716AA	60	\$140,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00717AA	60	\$145,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00718AA	60	\$155,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00719AA	60	\$165,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00720AA	60	\$186,190.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00722AA	60	\$236,190.00	
LXN per eNodeB License					
Description	Full Description	Nomenclature	APC	Price	
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00	
GPS Kit					
Description	Full Description	Nomenclature	APC	Price	
GPS ANTENNA KIT	-	DDN1884	51	\$572.00	
GPS ANTENNA CABLE	-	DDN1885	66	\$3,391.00	

Rekeying Utility 'RKU'

Models					
Rekeying Utility:					
Description	Full Description	Nomenclature	APC	Price	
REKEYING UTILITY (RKU)	-	SQM01SUM0306	56	\$0.00	
RKU APPL	-	T8415	56	\$0.00	
ADD: APPL LICENSE, RKU	-	UA00531AA	56	\$75,000.00	
SIM Capacity:					
Description	Full Description	Nomenclature	APC	Price	
ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00529AA	56	\$8.00	
ADD: 50000-99,999 SIM CAPACITY LICENSE	-	UA00530AA	56	\$6.00	
RKU SIM CAPACITY	-	T8417	56	\$0.00	
RKU Hardware:					
Description	Full Description	Nomenclature	APC	Price	
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	56	\$45,970.00	
SAFENET HSM MODULE POWER CABLE	-	DDN2278	56	\$40.00	
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	56	\$421.00	
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	56	\$40.00	
RKU PRINTER CLEANING KIT	-	DDN2280	56	\$90.00	
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	56	\$8,110.00	
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	56	\$206.00	
SIM Capacity Expansion:					
Description	Full Description	Nomenclature	APC	Price	
ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00564AA	56	\$8.00	
ADD: 50000-99999 SIM CAPACITY LICENSE	-	UA00565AA	56	\$6.00	
RKU SIM CAPACITY EXPANSION	-	T8440	56	\$0.00	
Spares					
FRU:					
Description	Full Description	Nomenclature	APC	Price	
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	56	\$45,970.00	
SAFENET HSM MODULE POWER CABLE	-	DDN2278	56	\$40.00	
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	56	\$421.00	
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	56	\$40.00	
RKU PRINTER CLEANING KIT	-	DDN2280	56	\$90.00	
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	56	\$8,110.00	
FARGO YMCKK FULL COLOR RIBBON	-	DDN2320	56	\$421.00	
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	56	\$206.00	

LXN 505 LTE ULTRA PORTABLE

Models					
COF/R12:					
Description	Full Description	Nomenclature	APC	Price	
LXN 505 4G/LTE BC28 5W BASESTATION	LXN 505 4G/LTE BC28 5W BASESTATION, includes Wi-Fi modem	TT3553	569	\$75,000.00	
Mandatory Items					
Quantity (1) of one of the following staging services must be ordered with the abovementioned model:					
Quantity (2) of the following antenna must be ordered with the abovementioned model:					
Description	Full Description	Nomenclature	APC	Price	
LXN 505 ULTRA PORTABLE STAGING	-	DSLXN505STAGESVS	569	\$2,240.00	
LXN 505 5DBI 700-960 MHZ ANTENNA	-	DDN2839	569	\$1,088.00	
ACCESSORIES					
Please select the accessories that you need from the table below.					
Description	Full Description	Nomenclature	APC	Price	
BB-2590U 8.7 H LOW TEMP RECHARGEAB	BB-2590U 8.7 H LOW TEMP RECHARGEABLE LITHIUM ION BATTERY	DDN3062	569	\$690.00	
BB-2590/390/2557 FULL CHARGER MEDIU	BB-2590/390/2557 FULL CHARGER MEDIUM RATE	DDN3063	569	\$599.00	
MANPACK BACKPACK FOR LXN 505	-	TT3554	569	\$1,280.00	
LXN 505 LTE MODEM	-	DDN2866	569	\$480.00	

LXN 7900 PRIVATE LTE FIXED CORE INFRASTRUCTURE

LXN 7900 SUPERMODEL					
Description	Full Description	Nomenclature	APC	Price	
LXN 7900 FIXED CORE	-	SQM01SUM0334	60	\$175,000.00	
HIGH AVAILABILITY CONFIGURATIONS					
Description	Full Description	Nomenclature	APC	Price	
ADD: LXN 7100 HA LOCAL REDUNDANCY LICENSE KIT	-	UA00713AA	60	\$50,500.00	
ADD: LXN 7100 HA GEO REDUNDANCY LICENSE KIT	-	UA00714AA	60	\$50,500.00	
CBRS LICENSES					
Description	Full Description	Nomenclature	APC	Price	
MULTI SERVER AND REDUNDANCY PER NETSPAN INSTANCE	Multi Server & Redundancy per Netspan instance	DSNSREDU00	156	\$15,000.00	
NETSPAN DOMAIN PROXY TO SAS X.509 CERTIFICATE	Netspan Northbound interface	DSNSCBRSDP5	156	\$3,810.00	
NETSPAN NORTHBOUND INTERFACE	Enablement of Netspan interface with SAS and Domain Proxy settings	DSNSNBIFEXT0	156	\$21,000.00	
ENABLEMENT OF NETSPAN INTERFACE WITH SAS AND DOMAIN PROXY SETTINGS	Netspan Domain Proxy to SAS X.509 Certificate	DSNSCBRS0	156	\$0.00	
SYSLOG	Syslog	DSNSSYSLOG0	156	\$0.00	
CBRS WATCHER	CBRS Watcher	DSNSDPHA0	156	\$0.00	
NETSPAN DUAL-CARRIER/SECTOR LICENSE FOR RELEVANT AIRVELOCITY/AIRUNITY	Dual Carrier	DSVSLWDUALC	156	\$220.00	
Software License Tiers					
Description	Full Description	Nomenclature	APC	Price	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00716AA	60	\$140,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00717AA	60	\$145,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00718AA	60	\$155,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00719AA	60	\$165,000.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00720AA	60	\$186,190.00	
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00722AA	60	\$236,190.00	
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 3000 SUBS	-	UA00765AA	60	\$286,190.00	
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 4000 SUBS	-	UA00766AA	60	\$336,190.00	
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 5000 SUBS	-	UA00767AA	60	\$386,190.00	
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 10000 SUBS	-	UA00768AA	60	\$476,190.00	



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 15000 SUBS	-	UA00769AA	60	\$566,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 20000 SUBS	-	UA00770AA	60	\$656,190.00
LXN per eNB License				
Description	Full Description	Nomenclature	APC	Price
LXN 6000 ENB LICENSE	-	T8367	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00
LXN Incremental per eNodeB License				
Description	Full Description	Nomenclature	APC	Price
INCREMENTAL LXN PER ENB LICENSE	-	T8396	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00
SERVICES				
DESCRIPTION	FULL DESCRIPTION	NOMENCLATURE	APC	PRICE
LTE SYSTEM ESSENTIAL	-	LSV04S00667B	361	SYSTEM DEPENDENT
LTE SYSTEM ADVANCED	-	LSV04S03012A	941	SYSTEM DEPENDENT
OPTIONAL: LTE INFRA REPAIR W_ADV REPL	-	SVC01SVC0392A	33	SYSTEM DEPENDENT
Expansion for LTE 7900 Tiers				
Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 100-250 SUBS	-	UA00771AA	60	\$5,950.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 250-500 SUBS	-	UA00772AA	60	\$11,900.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 500-750 SUBS	-	UA00773AA	60	\$11,900.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 750-1000 SUBS	-	UA00774AA	60	\$25,220.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 1000-2000 SUBS	-	UA00775AA	60	\$69,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 2000-3000 SUBS	-	UA00776AA	60	\$69,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 3000-4000 SUBS	-	UA00777AA	60	\$69,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 4000-5000 SUBS	-	UA00778AA	60	\$69,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 5000-10000 SUBS	-	UA0079AA	60	\$107,100.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 10000-15000 SUBS	-	UA00780AA	60	\$107,100.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 15000-20000 SUBS	-	UA00781AA	60	\$107,100.00

MACH Alert Fire Station Alerting

Description	Full Description	Nomenclature	APC	Price
ADD TTS MODULE FOR SERVER	-	TT2493	708	\$430.00
CANCELLED - MACH ALERT OPERATOR VIEW TERMINAL	-	TT2508	708	\$4,900.00
BASIC STATION CONTROLLER ASSEMBLY LESS ACE3600	-	TT2494	708	\$5,020.00
AIC - ALERTING INTERFACE CONTROLLER LESS ACE3600	-	TT2490	708	\$330.00
MOUNT ANALOG VOICE DISPATCH RADIO	-	TT2496	708	\$130.00
ADD 4 CHANNEL PRIORITY IP MIXER	-	TT2495	708	\$2,390.00
MOUNT DIGITAL VOICE DISPATCH RADIO	-	TT2497	708	\$130.00
MACH ALERT RACKMOUNT SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2506	708	\$11,130.00
MACH ALERT TOWER SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2500	708	\$12,230.00
Software				
Description	Full Description	Nomenclature	APC	Price
MACH ALERT CLIENT LICENSE FOR UP TO 128 STATIONS	-	TT2505	708	\$6,700.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2504	708	\$17,430.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2510	708	\$29,220.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2509	708	\$41,290.00
MACH ALERT CLIENT LICENSE FOR UP TO 25 STATIONS	-	TT2507	708	\$4,790.00
STATION CONTROLLER SOFTWARE LICENSE	-	TT2488	708	\$1,250.00
MACH ALERT CLIENT LICENSE FOR UP TO 64 STATIONS	-	TT2514	708	\$6,700.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2501	708	\$63,330.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2502	708	\$36,700.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2503	708	\$25,450.00
AIC-128 SOFTWARE	-	TT2511	708	\$1,250.00

MC Series DESKTOP CONTROLLERS

Description	Full Description	Nomenclature	APC	Price
MC2500 MULTI-CHANNEL DESKSET	-	L3217	124	\$2,482.00
MC1000 BASIC TONE DESKSET	-	L3213AC	124	\$545.00
TONE REMOTE ADAPTER	-	L3276AC	124	\$695.00
DC REMOTE ADAPTER	-	L3277AC	124	\$552.00
Accessories				
Extended Local Control				
Description	Full Description	Nomenclature	APC	Price
LOCAL JUNCTION BOX	For connecting up to 6 local control desksets to the station.	DDN6337	124	\$399.00
RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	454	\$138.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
AUDIO ACCESSORY JACK BOX	Provides connection for single headset. Compatible with both 6-wire and 4-wire headsets.	DDN6516	124	\$110.00
Power Supply				
Description	Full Description	Nomenclature	APC	Price
MC2500 POWER SUPPLY	-	DDN6339	124	\$350.00
REMOTE ADAPTER 12V DC POWER CABLE, BARE LEADS	-	DDN7067	124	\$75.00
Rack Mounting				
Description	Full Description	Nomenclature	APC	Price
RACKMOUNT SHELF	19 in. shelf mounts the following: 2 Digital Junction Boxes (L3208), 2 Remote Adapters (L3276/L3277) 4 I/O Modules (DDN6926)	DDN6335	124	\$170.00
Radio Service Software				
Description	Full Description	Nomenclature	APC	Price
RSS PROGRAMMING CABLE WITH DB25 CONNECTOR 10 FT	-	DDN6124	124	\$35.00
PROGRAMMING CABLE WITH DB9 CONNECTOR	-	DDN6367	124	\$35.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
1A SLOW BLOW FUSE KIT FOR DESKSET PRODUCTS	FOR MC1000, MC2000, MC2500, MC3000, Digital Junction Box and Remote Adapters.	DDN7278	124	\$65.00
2A SLOW BLOW FUSE KIT FOR MC2500	-	DDN7284	124	\$65.00
2.5A FAST BLOW FUSE KIT FOR MC2000	-	DDN7285	124	\$65.00
18 BLACK BUTTON KIT FOR MC SERIES DESKSETS	Provides 18 black covers that can be used to hide unused buttons on the Desksets.	DDN7387	124	\$55.00

MCC 5500 DISPATCH CONSOLE

Description	Full Description	Nomenclature	APC	Price
MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT	Includes 10 in. cable connection to PC, power supply unit, and operator license. Speakers are NOT included with this model, they are to be ORDERED separately (B1912). This model is for R2.0 and beyond. NOTE: 50 in. Cable for CES is NO LONGER automatically included with L3359. Must order TT05088AA for the 50 in. Cable for CES. Note: CAB II PSU IS CALIFORNIA COMPLIANT.	L3359AC	322	\$8,433.00
CONSOLE ELECTRONIC SHELF (CES) II	Includes COP and power supply. This model is for R2.0 and beyond.	L3358	322	\$9,500.00
CAB (L3359AC) - Cable Options				
Description	Full Description	Nomenclature	APC	Price



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: 50' CES/CAB CABLE	Order with L3359 to add 50 in. CAB/CES cable	TT05088AA	322	\$150.00
ADD: 100' CAB/CES CABLE	ORDER with L3359 to add 100 in. CAB/CES cable	TT04083AA	322	\$320.00
CAB (L3359AC) - Options				
Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE OPERATOR OPTION	ORDER with L3359 Model.	TT04080AA	322	\$2,400.00
ADD: CAB II RACK MOUNT KIT	ADDS rack mounting hardware to the CAB II (L3359). CAB comes ready to install in the rack.	TT04218AA	322	\$95.00
CES (L3358) - Option				
Description	Full Description	Nomenclature	APC	Price
ADD: TWO (2) CO INTERFACE FOR TELEPHONE II	ORDER with L3358 Model.	TT04213AA	322	\$520.00
CES (L3358) - Extended Warranty Options				
Description	Full Description	Nomenclature	APC	Price
ENH: (2) YR EXT SVC PL/ADV RPLCMT PER OPERATOR POSTION	ORDER with L3358. Provides a total of 3 years service and support on new systems with advanced replacement. Service Plan covers all components of the operator position including CES, CAB, Speakers, Microphone, Headset Jackboxes and Footswitch. Does not include PC, Monitor or Headsets.	CA00957AA	150	\$900.00
ENH: (2) YR EXT SVC PL/ADV RPLCMT ON EACH ADDITIONAL CES	ORDER with L3358. Provides a total of 3 years service and support on new systems with advanced replacement for CES with no CAB.	CA00958AA	150	\$485.00
I/O Shelf				
Description	Full Description	Nomenclature	APC	Price
MCC SERIES I/O SHELF W/ CONTROLLER	Includes 12 Inputs and 6 Outputs. Additional I/O modules (TT04532AA) can be added (up to 3).	L3468	322	\$1,100.00
ADD: MCC SERIES I/O MODULE II	ORDER with L3468 Model. Includes 12 Inputs and 6 Outputs.	TT04532AA	322	\$800.00
DAP II Modules - Channels				
DAP II Modules				
Description	Full Description	Nomenclature	APC	Price
DAPII FOR ANALOG CONTROL CHANNEL INTER	-	L3550	322	\$2,300.00
DAP II FOR DC CONTROL CHANNEL INTERFACE ONLY	-	L3551	322	\$2,300.00
ADD: DC CONTROL MODULE (4 CHANNELS)	-	TT04090AA	322	\$750.00
DAP II Module - Channel Options				
Description	Full Description	Nomenclature	APC	Price
ADD: 2 ANALOG CHANNELS WITH LICENSE R2.5	Order with L3550 or L3551 - adds two further analog channels (licenses included)	TT05247AA	322	\$2,000.00
ADD: 2 SB9600 CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two SB9600 channels, or changes default analog channel to SB9600 (licenses included) SB9600 channel can also be configured as SB9600 or analog.	TT05248AA	322	\$2,300.00
ADD: 2 DIGITAL CHANNELS WITH LICEN	ORDER with L3550 or L3551 - adds two Digital (ASTRO) channels, or changes default analog channel to Digital (licenses included) Digital channel can also be configured as SB9600 or analog.	TT05249AA	322	\$2,500.00
ADD: 2 IDEN CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two iDEN channels, or changes default analog channel to iDEN (licenses included) iDEN channel can also be configured as Digital, SB9600, or analog.	TT05245AA	322	\$2,700.00
Console System Software				
Software				
Description	Full Description	Nomenclature	APC	Price
CSDM PROGRAM	System CD contains all system software and systems manuals (hard copy)	DDN6916	322	\$2,000.00
Cable for CSDM Computer				
Description	Full Description	Nomenclature	APC	Price
CSDM COMPUTER CABLE (DB09) 25 FEET	Required cable for CSDM Programming Software (DDN6916).	DDN6924	322	\$90.00
PC Equipment				
Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSC 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00
Information Assurance (OS Hardening CDs)				
Description	Full Description	Nomenclature	APC	Price
IA TRANSPARENT CD - (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2483A TT2483 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2483	322	\$50.00
IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2482 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2482	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	TT3194 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3194	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT CD	TT3195 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3195	322	\$50.00
Dispatch Console Position - Audio Accessories				
Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$450.00
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00
Cables				
T3 Cables to Connect to CES Shelves				
Description	Full Description	Nomenclature	APC	Price
T3 CABLE 2 FEET	This T3 cable is used to connect CES shelves together between adjacent shelves in a rack.	DDN6918	322	\$180.00
T3 CABLE 5 FEET	This T3 cable is used to connect CES shelves together between shelves in a rack.	DDN6919	322	\$200.00
T3 CABLE 10 FEET	This T3 cable is used to connect CES shelves together between shelves in adjacent racks.	DDN6920	322	\$250.00
T3 CABLE 25 FEET	This T3 cable is used to connect CES shelves together between shelves in a non-adjacent rack.	DDN6921	322	\$300.00
Cables to Connect to CES to CAB				
Description	Full Description	Nomenclature	APC	Price
CES/CAB CABLE 50 FOOT	-	DDN6917	322	\$175.00
CES/CAB 100 FOOT CABLE	-	DDN7094	322	\$420.00
CES/CAB CABLE 200 FOOT	-	DDN1051	322	\$563.00
CES/CAB CABLE 300 FOOT	-	DDN1052	322	\$640.00
CES/CAB CABLE 500 FOOT	-	DDN1053	322	\$1,175.00
CES/CAB PLENUM CABLE 100 FOOT	-	DDN1055	322	\$789.00
CES/CAB PLENUM CABLE 200 FOOT	-	DDN1056	322	\$1,200.00
CES/CAB PLENUM CABLE 300 FOOT	-	DDN1057	322	\$2,170.00
CES/CAB PLENUM CABLE 500 FOOT	-	DDN1058	322	\$3,590.00
Cables to Connect to CES to Punch Block				
Description	Full Description	Nomenclature	APC	Price
TELCO 15 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock. IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9994	322	\$60.00
3TELCO 25 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9995	322	\$74.00
TELCO 50 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9996	322	\$115.00
TELCO 15 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9997	322	\$59.00
TELCO 25 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9998	322	\$85.00
TELCO 50 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9999	207	\$180.00
Radio Cables				
Description	Full Description	Nomenclature	APC	Price
CONSOLETT W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00
Field Add-Ons / Spares				
Description	Full Description	Nomenclature	APC	Price
CAB/PC USB CABLE	-	DDN7527	322	\$79.00
MCC5500 SPARES PACKAGE / CAB II PS CALIFORNIA COMPLIANT	Package includes: CAB II board, CES PSU; CAB II PSU; COP II, DAP II (including 2 analog licenses), Fuse Kit, Replacement I/O shelf, Replacement I/O controller, Replacement I/O module. Note: CAB II PSU IS CALIFORNIA COMPLIANT	DDN8349AC	322	\$22,150.0
PC Hardware				
Description	Full Description	Nomenclature	APC	Price

Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 workstation computer with the Windows 10 Enterprise LTSC 2019 64 bit operating system. Also includes: 1 keyboard, 1 optical mouse, 2 Display/Port to DVI adapters, 2 Display/Port to VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed. Does NOT include an internal DVD drive. NOTE THE Z2 WORKSTATION WITH WINDOWS 10 IS NOT RETURNABLE (REALLY!!).	TT3903A	708	\$2,500.00
ZBOOK 15 G7 NON RETURNABLE	Provides one HP Zbook 15 laptop with the Windows 10 Enterprise LTSC 2019 64 bit operating system. Includes external brick power supply with North American AC line cord, and Recovery Media. Does NOT include an internal DVD drive. NOTE: THIS LAPTOP IS NON-RETURNABLE (REALLY!!)	TT3904A	708	\$4,000.00
STARTECH RS-232 SERIAL PORT ADAPTER	External Serial Port Adapter that connects to the computer via a USB connection. StarTech part number ICUSB232PRO.	DSICUSB232PRO	708	\$37.00
STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER	External Ethernet Adapter that connects to the computer via a USB connection. StarTech part number USB31000S.	DSUSB31000S	708	\$34.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via a USB. May be used with computers that don't contain an internal DVD drive. HP part number F2B56AA.	DSF2B56AA	708	\$172.00
STARTECH 7 PORT USB 3.0 HUB	Provides a 7 port USB 3.0 hub with Type A ports. Includes an external power supply. May be used with the HP Z2 Mini computer. StarTech part number ST7300U3M. Replaced USB hub DDN1574.	DSST7300U3M	708	\$93.00
HP Z2 MINI ARM WALL VESA MOUNT	VEESA compliant mounting sleeve for the HP Z2 workstation. HP part number Y7B61AA.	DSY7B61AA	708	\$77.00
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is "nuggedized" and RF-Verified by Consoles Engineering. Order as a main line item.	DSCDN171B	708	\$431.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides one USB-based external sound card. StarTech part number ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00
MOUSE PADS 5 PACK	-	TDN9841	708	\$70.00
MSI Purpose-Built USB Microphone				
Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	The B1951 microphone is specifically designed for use with the MCC 7500E console. It is a USB-based desktop microphone that connects directly to the dispatch position's PC or USB hub (it does not connect to the AIM). It has an 18 inch flexible shaft, a transmit button, a monitor button and a noise cancelling feature that provides 20 dB of front to back noise attenuation.	B1951	754	\$445.00
MSI Purpose-Built USB Speaker				
Description	Full Description	Nomenclature	APC	Price
SPEAKER, DESKTOP, USB	The B1952 speaker is specifically designed for use with the MCC 7500E console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch position's PC or USB hub (it does not connect to the AIM). Each speaker has its own individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.	B1952	754	\$485.00
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: AC LINE CORD, EUROPE	Adds a European AC line cord.	CA03407AA	754	\$18.00
ADD: AC LINE CORD, UK	Adds a UK AC line cord.	CA03408AA	754	\$39.00
ADD: AC LINE CORD, AUSTRALIA	Adds an Australian AC line cord.	CA03409AA	754	\$55.00
ADD: AC LINE CORD, BRAZIL	Adds a Brazilian AC line cord.	CA03410AA	754	\$35.00
USB Cables for MSI Purpose-Built Mic & Speaker				
Description	Full Description	Nomenclature	APC	Price
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00
Analog Speakers				
Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$450.00
LOGITECH Z130 SPEAKERS	Provides a pair of Logitech Z130 PC speakers with a single volume control. Also includes an external 110V AC power supply.	DSLOGITECHZ130	708	\$37.00
USB Headset Base and Footswitch				
Description	Full Description	Nomenclature	APC	Price
USB HEADSET BASE WITH PTT	Headset base with PTT. Requires headset top which is ordered separately. MCC 7500E supports one USB headset per console.	DDN2825	708	\$253.00
USB DUAL ACTION FOOTSWITCH W/INPUT JACK KINESIS	Order one per Console	DDN1396	229	\$220.00
Analog Headset Jack Box and Desk Microphone				
Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00
Analog Headset Base used with analog Headset Jack Box				
Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	-	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	-	RLN6099A	706	\$242.00
Headset Tops (Universal) used with the Headset Base (analog or USB bases)				
Description	Full Description	Nomenclature	APC	Price
ENCORE PRO HW540 HEADSET	Monaural, noise-cancelling headset with ear loop, neckband & over-the-head headband included.	DSPOLYHW540	708	\$134.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Monaural, noise-cancelling headset with over-the-head headband included.	RMN5150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Binaural, noise-cancelling headset with over-the-head headband included.	RMN5151A	706	\$156.00
Analog Footswitch				
Description	Full Description	Nomenclature	APC	Price
PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	Dual pedal footswitch for use with the Motorola MCC 7500 and MCC 7500E dispatch consoles. Similar to the BLN6732 except it has a RJ45 connector.	DSTWIN6328A	708	\$308.00
Orderable FRUs				
Description	Full Description	Nomenclature	APC	Price
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
FRU, MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$445.00
FRU, SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$485.00
FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one end.	BKN2000	754	\$79.00
FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00
FRU, POWER SUPPLY WITH DC CORD	Power supply with DC cord but does not include an AC line cord.	BPN1030	754	\$150.00
Monitors				
STANDARD FORMAT MONITORS (5:4 Aspect Ratio) NON-TOUCH MONITORS				
Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00
STANDARD FORMAT MONITORS (5:4 Aspect Ratio) TOUCH MONITORS				
Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00
WIDE FORMAT MONITORS (16:9 Aspect Ratio) NON-TOUCH MONITORS				
Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,557.00
WIDE FORMAT MONITORS (16:9 Aspect Ratio) TOUCH MONITORS				
Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00

Motorola MCC 7100 Dispatch Console
Software Items

Description	Full Description	Nomenclature	APC	Price
MCC 7100 IP Dispatch Position Main Model	Provides the main model for ordering the various options available to the MCC 7100 Dispatch Position. Order one (1) B1939 for each MCC 7100 Dispatch Position. Each B1939 requires at least the CA01642AB software license option.	B1939	443	\$0.00

Updated Pricing for contract 4400016317 as of January 2022

MCC 7100 DVD	Provides the DVD containing the latest shipping version of the application software for the MCC 7100 dispatch console. Need at least one per system. Does NOT include the licenses required to use the software. The required licenses are purchased with the B1939.	B1940	443	\$250.00
Upgrade Software License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7100 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1940.	CA02090AA	443	\$2,500.00
MCC 7100 & PRX 7000 Feature/Capacity License Model (A7.16 & A7.17 application software only)				
Description	Full Description	Nomenclature	APC	Price
MCC7100 SOFTWARE LICENSING	-	B1942	443	\$0.00
Step 2: Order Basic Console Operator License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7100 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux io's, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1939.	CA01642AB	443	\$4,800.00
Step 3: Order Licensed Features for the Console				
Pre-A7.16 MCC 7100 Software Radio Resource Capacity Licenses				
Description	Full Description	Nomenclature	APC	Price
5 CHANNEL SW LICENSE	Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources.	HKVN4160A	443	\$3,500.00
10 CHANNEL SW LICENSE	Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources.	HKVN4159A	443	\$6,250.00
Pre-A7.16 MCC 7100 Software Integrated Recall Recorder (IRR) License				
Description	Full Description	Nomenclature	APC	Price
MCC 7100 INSTANT RECALL RECORDER LICENSE	Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position.	HKVN4225A	443	\$1,200.00
A7.16 & A7.17 MCC 7100 Software Radio Resource Capacity Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: 15 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources. Order as a sub-item to B1942.	UA00249AA	244	\$3,500.00
ADD: 30 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources. Order as a sub-item to B1942.	UA00250AA	244	\$6,250.00
A7.16 & A7.17 MCC 7100 Software Integrated Recall Recorder (IRR) License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 INSTANT RECALL RECORDER LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position. Order as a sub-item to B1942.	UA00253AA	443	\$1,200.00
Step 4: Order Proxy and Firewall (Only required if installing MCC 7100 Console Outside ASTRO Network)				
Software Items				
Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses are purchased as HKVN4225A for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.	BVN6079	443	\$250.00
Pre-A7.16 PRX 7000 Software License				
Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy SW License (1-10 CONNECTIONS)	Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately.	HKVN4161A	443	\$2,500.00
A7.16 & A7.17 PRX 7000 Software License				
Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW LICENSE (1-10 CONNECTIONS)	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately. Order as a sub-item to B1942.	UA00254AA	443	\$2,500.00
A7.15, A7.16, and A7.17 system release Control Room Firewall				
Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
Step 5: Order Operational Licenses for Trunking and/or Conventional Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,000.00
ADD: MCC 7500/MCC 7100 ADV CONV'L OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ADIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,600.00
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01645AA	443	\$6,300.00
Step 6: Order Secure Options if desired				
Secure Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 SECURE OPERATION	Order when secure capabilities are required in an MCC 7100 dispatch console. Requires CA02092AA and is ordered as a sub-item to the B1939.	CA02180AA	443	\$3,900.00
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,020.00
Secure Algorithms				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Required for secure operation. Provides licensing for the AES, DES-OFB, and ADP encryption algorithms. Requires CA02180AA and is ordered as a sub-item to the B1939.	CA02092AA	443	\$2,160.00
Step 7: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired				
Step 8: Order Audio Interface Module (AIM) if desired				
Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environments.	B1941	443	\$1,900.00
Step 9: Adding Operational Licenses to Fielded Dispatch Consoles, a.k.a., Field-Adds				
Basic Operational Licenses				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,000.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,600.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,300.00
Encryption Licenses				
Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,020.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$3,900.00
SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Existing dispatch consoles may add the licensing for the AES, DES-OFB, and ADP encryption algorithms by ordering the Software AES, DES-OFB, ADP Encryption Key File Management Field-Add License for each dispatch console that needs the feature. Note that this license does not provide the required Secure Operation license (BLN1304 or CA02180AA). The Secure Operation license must be ordered separately.	BLN7224	443	\$2,160.00

Motorola MCC 7500E IP Dispatch Console
Configuration

Step 1: Order the MCC 7500E IP Console SW Application

Software DVD				
Description	Full Description	Nomenclature	APC	Price
MCC 7500E SOFTWARE DVD	Provides a DVD containing the application software for the MCC 7500E console. One copy of the DVD may be used to install software on multiple MCC 7500E dispatch positions.	B1949	244	\$250.00
Upgrade Software License				
Description	Full Description	Nomenclature	APC	Price



Updated Pricing for contract 4400016317 as of January 2022

ADD: DISPATCH POSITION SOFTWARE REFRESH	The software refresh license option is required for each existing MCC 7500E dispatch position when upgrading the ASTRO System to a new major system release. Order the option as a sub-item to B1948.	CA03321AA	244	\$2,500.00
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Step 2: Order Feature Licenses for each Dispatch Position
Feature/Capacity License Model

Description	Full Description	Nomenclature	APC	Price
MCC 7500E DISPATCH POSITION LICENSES	The various licenses used with the MCC 7500E console are ordered as options to this model. One B1948 may be ordered per dispatch position or one B1948 may be ordered per multiple dispatch positions. An email address must be entered into COF with the B1948.	B1948	244	\$0.00

Radio Resource Capacity Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 15 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 15 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00249AA	244	\$3,500.00
ADD: 30 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 30 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00250AA	244	\$6,250.00
ADD: 160 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 160 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00652AA	244	\$18,820.00

Feature Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC CONSOLE OPERATION	Enables an MCC 7500E dispatch position to support basic console functionality. This includes non-signaling analog conventional, patch, multiselect, paging, aux I/Os, alert tones, channel marker, using the API, etc. One UA00653AA is required for each dispatch position being ordered. Order as a sub-item to the B1948.	UA00653AA	244	\$4,800.00
ADD: ASTRO 25 TRUNKING OPERATION	Enables an MCC 7500E dispatch position to support ASTRO 25 trunking operation. One UA00654AA is required for each dispatch position that will be controlling trunking resources (talkgroups and private calls) via a wireline connection to a trunking system. Order as a sub-item to the B1948.	UA00654AA	244	\$6,000.00
ADD: ADVANCED CONVENTIONAL OPERATION	Enables an MCC 7500E dispatch position to support advanced conventional operation. One UA00655AA is required for each dispatch position that will be controlling advanced conventional resources (P25 conventional, MDC 1200 conventional and ACIM connections to console/lets). Order as a sub-item to the B1948.	UA00655AA	244	\$3,600.00
ADD: IED OPERATION	Enables an MCC 7500E dispatch position to support Inbound Event Display (IED) operation. One UA00656AA is required for each dispatch position that will be using the IED GUI. Order as a sub-item to the B1948.	UA00656AA	244	\$6,300.00
ADD: TELEPHONY OPERATION	Enables an MCC 7500E dispatch position to support console telephony operation. One UA00657AA is required for each dispatch position that will be accessing telephone resources via the console telephony feature. Order as a sub-item to the B1948.	UA00657AA	244	\$1,200.00
ADD: SECURE OPERATION	Enables an MCC 7500E dispatch position to support secure (encrypted) voice operation. One UA00658AA is required for each dispatch position that will be controlling radio resources that use encrypted voice. Order as a sub-item to the B1948.	UA00658AA	244	\$3,900.00
ADD: ADP/AES/DES-OFB ENCRYPTION	Enables an MCC 7500E dispatch position to support the ADP, AES and DES-OFB encryption algorithms. The secure operation license must be ordered separately. One UA00659AA is required for each dispatch position that will be using any of those algorithms. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management algorithm licenses are ordered as part of the CRYPTR2.	UA00659AA	244	\$2,160.00
ADD: OTEK OPERATION	Enables an MCC 7500E dispatch position to support Over The Ethernet Keying (OTEK) operation. One UA00660AA is required for each dispatch position that will be using the OTEK feature. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management OTEK license is ordered as part of the CRYPTR2.	UA00660AA	244	\$4,020.00
ADD: ENHANCED IRR	Enables an MCC 7500E dispatch position to support the Enhanced Integrated Instant Recall Recorder (IRR). One UA00661AA is required for each dispatch position that will be using the Enhanced Integrated IRR. Order as a sub-item to the B1948.	UA00661AA	244	\$3,000.00

Step 3: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired

Step 4: Order Audio Interface Module (AIM) if desired

Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environment	B1941	443	\$1,900.00

Step 5: Order PRX 7000 Proxy and Firewall (Only required if installing the MCC 7500E Console outside of the ASTRO 25 Network)
Proxy Software DVD

Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses are purchased as HKVN4225A for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.	BVN6079	443	\$250.00

Proxy Software License

Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW LICENSE (1-10 CONNECTIONS)	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7500E connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately. Order as a sub-item to B1942 or B1948.	UA00254AA	443	\$2,500.00

Proxy Computers

Control Room Firewall

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

Step 6: Order Dispatch Assistant software if desired

Description	Full Description	Nomenclature	APC	Price
INTERFACE ADAPTER SOFTWARE LICENSES	Dispatch Assistant software license. One required per dispatch position.	HKVN4581A	443	\$7,975.00
DISPATCH ASSISTANT SOFTWARE DVD	Dispatch Assistant software DVD. One copy of the DVD may be used to install the software on multiple dispatch positions.	BVN1017	443	\$250.00

MCC 7500 IP Logging Recorder

Models

SELECT SINGLE OR REDUNDANT CONFIGURATIONS - PARALLEL IS STRONGLY RECOMMENDED.

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$52,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00

Options - Licensing

Description	Full Description	Nomenclature	APC	Price
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00

Options - System Release

Select System

Description	Full Description	Nomenclature	APC	Price
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON A2019 SYSTEMS	-	TT06274AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON A2020 SYSTEMS	-	TT06275AA	229	\$0.00

Accessories

Windows Supplemental Configuration (Required on ASTRO 25 7.4 or Later Systems)

Description	Full Description	Nomenclature	APC	Price
WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7449	877	\$50.00

Spares & HDD Upgrades

Description	Full Description	Nomenclature	APC	Price
1 TB 7.2K DRIVE FOR THE DL360 G9 IP RADIO LOGGER BACKUP SERVER	-	DDN2146	229	\$1,210.00

SPARES TO SUPPORT MCC 7500 IP LOGGER DL360 G9 SERVER		DDN2147	229	\$3,680.00
ASTRO 7.17 Release Windows 10 Workstation				
ASTRO 7.16 or earlier Windows 7 Workstation				
Miscellaneous				

Description	Full Description	Nomenclature	APC	Price
19 INCH BLACK SHELF	Black shelf for use with a 19 in. 2 post rack	DDN9748	229	\$374.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75

MCD 5000 DESKSET SYSTEM
Models

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET	Provides one MCD 5000 Deskset. An in-line power supply (FHN7469) and an Ethernet cable are NOT included with the MCD 5000 Deskset (F2380) and must be ordered separately. Documentation has been moved to the Flexera Download model and now must be ordered separately at zero cost (HKVN4865A).	F2380	202	\$2,275.00
LICENSE.CD, MCD 5000 DOCUMENTATION	Documentation has been moved to the Flexera Download model and now must be ordered separately at zero cost. Contains the following documentation: Deskset Install and Configuration Guide for OMC System, Deskset Install and Configuration Guide for Non-OMC Systems, System Administration Control Panel Users Guide, Deskset Users Guide and Quick Reference Guide.	HKVN4865	202	\$0.00
SM, RADIO GATEWAY UNIT (RGU)	Provides one MCD 5000 Radio Gateway Unit (RGU) and one RGU ground cable (FKN8704). Each RGU (F7879B) is capable of supporting up to 4 radios. A power supply (FHN7469), Ethernet cable and cabling for connecting radios to the RGU are NOT included with the RGU (F7879B) and must be ordered separately.	F7879	202	\$2,275.00
ML30 GEN 10 SERVER FOR MCD 5000 OMC	Provides one ML30 Server that runs on the Red Hat® Linux® operating system. Also includes 1 keyboard, 1 optical mouse and disk(s) to allow for rebuild / recovery of your PC if ever needed. NOTE THE ML30 SERVER IS NOT RETURNABLE	TT3549	708	\$4,500.00
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	19 Inch Non Touch Display for CT/ACP Workstation and/or OMC Server	DSTG191B	708	\$1,422.00
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 Mini computer (G5) with Windows 10 IoT Enterprise LTB 2016 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2	TT3903A	708	\$2,500.00

Licensing - OPTIONAL

Description	Full Description	Nomenclature	APC	Price
LICENSE.MCD 5000 NATIVE LANGUAGE SUPPORT	Software license that enables the MCD 5000 Deskset to support a native/2nd language (in addition to the English language shipped standard) for the MCD 5000 deskset display. The Qty ordered should be equal to the number of MCD 5000 desksets that need native/2nd language support.	HKVN4858	202	\$500.00

Accessories
Software Application

Description	Full Description	Nomenclature	APC	Price
LICENSE.MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM W/OUT OMC	Configuration Tool for Four Channel Support - MCD 5000 Deskset System without OMC.	HKVN4861	202	\$250.00
LICENSE.MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM WITH OMC	Configuration Tool for Four Channel Support - MCD 5000 Deskset System with OMC.	HKVN4862	202	\$250.00
LICENSE.MCD 5000 DESKSET SYSTEM OMC SERVER APPLICATION SW	Provides the OMC Server application software that is required for MCD 5000 Deskset System with an OMC. Requires OMC Server Hardware (TT3549) that must be ordered separately.	HKVN4863	202	\$10,000.00
LICENSE.MCD 5000 DESKSET SYSTEM ACP APPLICATION SW	Provides the ACP application software that is required for MCD 5000 Deskset System with an OMC. Requires ACP Workstation Hardware (TT3903A) that must be ordered separately.	HKVN4864	202	\$2,500.00

Direct Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
CABLE - MCD 5000 RGU TO MCS 2000 III DIRECT CONNECT	Provides one cable for connecting a MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B). Note: This radio type will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8688	202	\$100.00
CABLE - MCD 5000 RGU TO CDM 1550 SERIES DIRECT CONNECT	Provides one cable for connecting a CDM 1550 Series radio to a MCD 5000 RGU (F7879B). Note: This radio type will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8689	202	\$100.00
CABLE - MCD 5000 RGU TO ASTRO CONSOLETT W9 DIRECT CONNECT	Provides one cable for connecting an ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8690	202	\$100.00
MCD5000 TO MTM5400 TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM5400 Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2003	202	\$100.00
MCD5000 TO MTM800E TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM800E Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2004	202	\$100.00
CABLE RGU TO MOTOTRBO	Provides one cable for connecting a Motorola XPR5550e Control Station to a MCD 5000 RGU (F7879B).	FKN0012	202	\$100.00

Parallel with DJB Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
CABLE - MCD 5000 RGU TO MC3000 DJB FOR ASTRO CONSOLETT W9	Provides one cable for connecting a MC3000 DJB with ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8691	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR MCS 2000 III	Provides one cable for connecting a MC3000 DJB with MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B).	FKN8692	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR CDM 1550 SERIES	Provides one cable for connecting a MC3000 DJB with CDM 1550 Series radio to a MCD 5000 RGU (F7879B).	FKN8693	202	\$100.00

Ethernet Cable

Description	Full Description	Nomenclature	APC	Price
ETHERNET CABLE 10' WITH RED & BLACK LABELS	Provides one 10 in. ethernet cable to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B). Note: This cable is color coded to match the connector colors of the MCD 5000 Deskset and MCD 5000 RGU.	FKN8695	202	\$47.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7879B.	FHN7469	202	\$100.00
FRU: MCD 5000 DESKSET / RGU POWER SUPPLY W/OUT POWER CORD	Provides one power supply unit to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). This part does NOT contain an AC line power cord. Power cord must be ordered separately.	FHN7485	202	\$85.00
CORD, POWER	EUROPE POWER CORD - Ordered with FHN7485	3004209T01	785	\$7.00
PLUG, BRITISH STANDARD	UK POWER CORD - Ordered with FHN7485	3004209T02	362	\$8.45

Deskset Accessories

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET WALL MOUNT KIT	Provides one wall mount base kit to be used for mounting a MCD 5000 Deskset (F2380) to a wall.	FHN7394	202	\$24.00
MCD 5000 DESKSET HEADSET JACK BOX & CABLE	Provides one MCD 5000 Headset Jackbox & cable (FKN8694) that connects to a MCD 5000 Deskset (F2380). The Headset Jackbox provides a connection for a single headset. Compatible with both 6-wire and 4-wire headsets. A Headset Base and Headset Top are not included with Headset Jackbox and must be ordered separately.	FHN7470	202	\$150.00
CABLE - MCD 5000 DESKSET TO LOGGER	Provides one logger cable to connect a generic external analog voice logger directly to the MCD 5000 Deskset (F2380).	FKN8696	202	\$40.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini Workstation - TT3225A.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA compliant mounting sleeve for the HP Z2 Mini Workstation - TT3225A.	DSY7B61AA	708	\$77.00
DESKTOP MIC	Desktop Paddle Microphone	RMNS068A	706	\$120.00
FOOT, SWITCH TRADITIONAL	PTT Footswitch - Max of 1 per Deskset	BLN6732	229	\$135.00
HDST MODULE BASE W/PTT, 15 FT CBL	Headset Base with PTT Switch with 15' cable	RLN6098	706	\$210.00
HDST MODULE BASE W/PTT, 25 FT CBL	Headset Base with PTT Switch with 25' cable	RLN6099A	706	\$242.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Monaural Headset Top with Noise-Cancelling Microphone	RMNS150A	706	\$149.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Binaural Headset Top with Noise-Cancelling Microphone	RMNS151A	706	\$156.00

Information Assurance

Description	Full Description	Nomenclature	APC	Price
MCD 5000 WINDOWS SUPPLEMENTAL	OS Hardening CD (Full Hardening) for MCD 5000 Deskset System to be ordered with TT3225 Workstation	FVN5956	202	\$50.00
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license. NOTE - MEGES DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00

Field Replacement Units

Description	Full Description	Nomenclature	APC	Price
FRU: K-STYLE HANDET (INCLUDES COILED CABLE) FOR MCD 5000 DESKSET	Spare handset for the MCD 5000 Deskset (F2380).	FHN7290	202	\$75.00
FRU: CABLE - MCD 5000 DESKSET TO HEADSET JACK BOX	Provides one headset jackbox cable to connect the MCD 5000 Headset Jackbox (FHN7470) to the MCD 5000 Deskset (F2380). Note: The MCD 5000 Headset Jackbox (FHN7470) automatically ships with this cable (FKN8694).	FKN8694	202	\$40.00
FRU: CABLE - MCD 5000 DESKSET RGU GROUND CABLE	Spare MCD 5000 RGU ground cable to be used with the MCD 5000 RGU (F7879B).	FKN8704	202	\$30.00

Upgrade Deployed units to Four Channel Feature

Description	Full Description	Nomenclature	APC	Price
LICENSE,MCD 5000 FOUR CHANNEL SUPPORT WITH OMC	Firmware and Configuration Tool for Four Channel Support - MCD 5000 Deskset System with OMC.	HKVN4859	202	\$500.00
LICENSE,MCD 5000 FOUR CHANNEL SUPPORT W/O OMC	Firmware and Configuration Tool for Four Channel Support - MCD 5000 Deskset System without OMC.	HKVN4860	202	\$500.00

**MC-EDGE
Intelligent Gateway & Remote terminal unit**
1. Main Model_ Mandatory

Description	Full Description	Nomenclature	APC	Price
MC IOT MAIN MODEL	MC IOT MAIN MODEL	F0016	275	\$0.00
ADD: MC-EDGE	ADD: MC-EDGE	VA01370AA	275	\$950.00

PLUG-IN Board (CPU)

Description	Full Description	Nomenclature	APC	Price
ADD: IOT MC-EDGE ENHANCED COMM PLUG-IN BOARD	ADD: IOT MC-EDGE ENHANCED COMM PLUG-IN BOARD	VA00973AA	275	\$150.00
INC:IOT MC-EDGE PLUG-IN BOARD	INC:IOT MC-EDGE PLUG-IN BOARD	VA00290	275	\$150.00
ADD: MC-EDGE MICRORHARD N920 PLUG-IN BOARD	ADD: MC-EDGE MICRORHARD N920 PLUG-IN BOARD	VA00984AA	275	\$150.00
ADD: MC-EDGE 2XRS-232 PORT / AUX PLUG-IN BOARD	ADD: MC-EDGE 2XRS-232 PORT / AUX PLUG-IN BOARD	VA00983AA	275	\$150.00
ADD: NO PIGGY MC-EDGE	ADD: No Piggy MC-EDGE	VA00985AA	275	\$0.00

2. OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: APX4000 FOR MC-EDGE	ADD: APX4000 FOR MC -EDGE	VA00600	275	\$600.00

Bands

Description	Full Description	Nomenclature	APC	Price
ADD: VHF RADIO MC-EDGE	ADD: VHF RADIO MC-EDGE	VA00913	275	\$600.00
ADD: UHF R1 RADIO MC-EDGE	ADD: UHF R1 RADIO MC-EDGE	VA00914	275	\$600.00
ADD: UHF R2 RADIO MC-EDGE	ADD: UHF R2 RADIO MC-EDGE	VA00915	275	\$600.00
ADD: 700/800MHZ RADIO MC-EDGE	ADD: 700/800MHZ RADIO MC-EDGE	VA00916	275	\$600.00
ADD:900MHZ RADIO MC-EDGE	ADD: 900MHZ RADIO MC-EDGE	VA00917	275	\$600.00

Radio Licenses -

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO RADIO OPTIONS LICENSE VHF	ADD: ASTRO RADIO OPTIONS LICENSE VHF	VA00943AA	75	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE UHF 1	ADD: ASTRO RADIO OPTIONS LICENSE UHF 1	VA00944AA	75	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE UHF 2	ADD: ASTRO RADIO OPTIONS LICENSE UHF 2	VA00945AA	75	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE 900	ADD: ASTRO RADIO OPTIONS LICENSE 7/800	VA00946AA	75	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE 7/800	ADD: ASTRO RADIO OPTIONS LICENSE 900	VA00947AA	75	\$350.00

External Radio

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 DIGITAL TRUNKING	ADD: ASTRO 25 DIGITAL TRUNKING	VA00196	275	\$2,310.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	ADD: ASTRO 25 DIGITAL CONVENTIONAL	VA00197	275	\$2,310.00

Radio Platform Options (Select one).

Description	Full Description	Nomenclature	APC	Price
ADD: VHF MOBILE RADIO	ADD: VHF MOBILE RADIO	VA00160	275	\$525.00
ADD: UHF R2 MOBILE RADIO	ADD: UHF R2 MOBILE RADIO	VA00162	275	\$525.00
ADD: UHF R1 MOBILE RADIO	ADD: UHF R1 MOBILE RADIO	VA00161	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	ADD: 700/800MHZ MOBILE RADIO	VA00201	275	\$525.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 DIGITAL INSTALLATION KIT	ADD: APX6500 DIGITAL INSTALLATION KIT	VA00588	275	\$275.00
EXTERNAL MODEM MOTOTRBO ANALOG CABLE KIT	External modem MOTOTRBO analog Cable KIT	VA00976AA	275	\$180.00
EXTERNAL MODEM CM140 ANALOG CABLE KIT	External modem CM140 analog Cable KIT	VA00977AA	275	\$115.00
ADD: EXTERNAL MOBILE TETRA MTMSXXX RADIO CABLE KIT FOR MC-EDGE	External TETRA radio cable kit for MC-EDGE	VA00987AA	275	\$135.00

Input / Output Modules

Description	Full Description	Nomenclature	APC	Price
ADD: 12DI/8AI HW ONLY NO LIC	ADD:12DI/8AI HW ONLY NO LIC	VA00150	275	\$695.00
ADD: 0 - 5V DII/AI	ADD:0 - 5V DII/AI	VA00151	275	\$0.00
ADD: 0 - 20MA DII/AI	ADD:0 - 20MA DII/AI	VA00152	275	\$0.00
ADD: 8DO/2AO HW ONLY NO LIC	ADD:8DO/2AO HW ONLY NO LIC	VA00149	275	\$620.00
ADD:MIXED IO 7DI/6DO/1AO/3AI HW ONLY NO LIC	ADD: MIXED IO 7DI/6DO/1AO/4AI H	VA00599	275	\$640.00
ADD: I/O MODULE EXTRACTOR TOOL	ADD: I/O MODULE EXTRACTOR TOOL	VA00153	275	\$10.00
ADD: 8DO EE 16DI 5-18 V /DRY	-	VA00989AA	275	\$600.00
ADD: 8DO EE 16DI 18-60 V	-	VA00990AA	275	\$600.00

Communication

Description	Full Description	Nomenclature	APC	Price
ADD: LTE MODEM FOR MC-EDGE	ADD: LTE MODEM FOR MC-EDGE	VA00610	275	\$200.00

Bands

Description	Full Description	Nomenclature	APC	Price
ADD: LTE - US, VERIZON	ADD: LTE - US, VERIZON	VA00611	275	\$0.00
ADD: LTE MODEM FOR EU - MC EDGE	ADD: LTE MODEM FOR EU - MC EDGE	VA00613AA	275	\$0.00
ADD: LTE MODEM FOR AUSTRALIA - MC EDGE	ADD: LTE MODEM FOR AUSTRALIA - MC EDGE	VA00616AA	275	\$0.00

LoRa

Description	Full Description	Nomenclature	APC	Price
ADD: LORA MODULE FOR MC-EDGE	ADD: LORA MODULE FOR MC-EDGE	VA00630	275	\$350.00

Bands

Description	Full Description	Nomenclature	APC	Price
ADD: LORA 902 - 928 MHZ FOR MC-EDGE	ADD: LORA 902 - 928 MHZ FOR MC-EDGE USA / CANADA	VA00631	275	\$0.00
ADD: LORA 863 - 870 MHZ FOR MC-EDGE	ADD: LORA 863 - 870 MHZ FOR MC-EDGE EUROPE	VA00632AA	275	\$0.00
ADD: LORA 915 - 928 MHZ AUSTRALIA FOR MC-EDGE	ADD: LORA 915 - 928 MHZ FOR MC-EDGE AUSTRALIA	VA00637AA	275	\$0.00

Programming

Description	Full Description	Nomenclature	APC	Price
ADD: CODESYS IEC 61131 LICENSE	ADD: CODESYS IEC 61131 LICENSE	VA00595	275	\$100.00
ADD: DNP3 MASTER LICENSE	ADD: DNP3 MASTER LICENSE	VA00593	275	\$100.00
ADD: DNP3 SLAVE LICENSE	ADD: DNP3 SLAVE LICENSE	VA00594	275	\$100.00
ADD: DNP3 MASTER & SLAVE LICENSE	ADD: DNP3 MASTER & SLAVE LICENSE	VA01376AA	275	\$150.00

Cables and Covers

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT CABLE COVERS	ADD: FRONT CABLE COVERS	VA00147	275	\$10.00
ADD: WALL MOUNT INSTALLATION KIT	ADD: WALL MOUNT INSTALLATION KIT	VA00148	275	\$50.00
ADD:ANTENNA SMA TO N-TYPE CABLE	ADD: ACT MODULE FOR ACE3600	VA00948AA	275	\$50.00
ADD:DC POWER CABLE	ADD: DC POWER CABLE	VA00155	275	\$50.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
ADD: AC POWER SUPPLY UNIT 12V / 5A DC OUTPUT	ADD: AC POWER SUPPLY 12V/120W	VA00009	275	\$225.00
ADD: AC POWER SUPPLY 24V / 120W DC OUTPUT	ADD: AC POWER SUPPLY 24V / 12	VA00130	275	\$300.00
ADD: DC/DC - [48 >>24] PS W/O HOUSING	-	VA00991AA	275	\$450.00

Security

Description	Full Description	Nomenclature	APC	Price
ADD: MC-EDGE SECURITY ENABLE OPTION	ADD: MC-EDGE SECURITY ENABLE O	VA01360AA	275	\$275.00

NEMA Box

Description	Full Description	Nomenclature	APC	Price
ADD: NEMA 38X38	ADD: NEMA 38X38	VA00954AA	275	\$861.00

Select options

Description	Full Description	Nomenclature	APC	Price
ADD: BATTERY 6.5AH	ADD: BATTERY 6.5AH	VA00957AA	275	\$215.00
ADD: TAMPER SWITCH	ADD: Tamper Switch	VA00962AA	275	\$133.00
ADD: LOCK FOR NEMA	ADD: Lock for NEMA	VA00963AA	275	\$48.00

Power supply for Nema

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: POWER SUPPLY CHARGER 10A	ADD: POWER SUPPLY CHARGER 10A	VA00958AA	275	\$842.00
ADD: POWER SUPPLY CHARGER 3A	ADD: POWER SUPPLY CHARGER 3A	VA00959AA	275	\$403.00
DC/DC				
ADD: DC/DC - [24 >>12]	ADD: DC/DC - [24 >>12]	VA00960AA	275	\$685.00
ADD: DC/DC - [48 >>24]	ADD: DC/DC - [48 >>24]	VA00961AA	275	\$685.00

Field Replacement Units (FRUs)
Input/output Modules

Description	Full Description	Nomenclature	APC	Price
12DI/8AI MODULE +/- 5V	12DI/8AI MODULE 0-5V	FLN0051	275	\$650.00
12DI/8AI MODULE +/- 20MA	12DI/8AI MODULE 0-20MA	FLN0050	275	\$650.00
8DO/2AO MODULE +/- 20MA, 5V	8DO/2AO MODULE 0-20MA, 0-10V	FLN0052	275	\$650.00
MIXED IO CURRENT	MIXED IO CURRENT	FLN0116	275	\$750.00
8DO EE 16DI 5-18 V /DRY	-	FLN9985A	275	\$650.00
8DO EE 16DI 18-60 V	-	FLN9986A	275	\$650.00

Security Options

Description	Full Description	Nomenclature	APC	Price
CD.SW.ACE3600 SECURED SYS TOOL SUITE VER. 18.50	CD SW ACE3600 SECURED SYS TOOL SUITE VER. 18.50	FVN5973	85	\$830.00

Cables and Covers

Description	Full Description	Nomenclature	APC	Price
SD COVER	SD COVER	FHN0060	275	\$5.00
I/O MODULE CONNECTOR COVER	I/O MODULE CONNECTOR COVER	FHN0059	275	\$5.00
RJ50 I/O MODULE CABLE	RJ50 I/O MODULE CABLE	FHN0065	275	\$15.00
RJ45 TO RJ45 EXTENSION CABLE 1500MM	RJ45 TO RJ45 EXTENSION CABLE 1500MM	FKN8803A	85	\$50.00
MTM5200 DATA CABLE	MTM5200 DATA CABLE	FKN0027	275	\$50.00
CPU PANEL COVER	CPU PANEL COVER	FHN0058	275	\$10.00
GROUND CABLE	GROUND CABLE	FKN0034	275	\$10.00
DATA CABLE FOR CONNECT PLUS	DATA CABLE FOR CONNECT PLUS	FKN0040A	85	\$116.00
XPR 5350 USB CABLE	DATA CABLE FOR MOTOTRBO DIGITAL	FKN0026	275	\$110.00
RS-485 PORT 120 OHM TERMINATION CABLE	RS-485 PORT 120 OHM TERMINATION CABLE	FKN0030	275	\$150.00
DC POWER CABLE	DC POWER CABLE	FKN0033	275	\$75.00
MC_EDGE AUX IO MIGRATION CABLE	-	FKN0044A	275	\$75.00

Communication

Description	Full Description	Nomenclature	APC	Price
RS-232 DATA CABLE	RS-232 DATA ADAPTOR (RJ45 TO D)	FKN0022	275	\$55.00

Programming

Description	Full Description	Nomenclature	APC	Price
LICENSE.CODESYS IEC61131-3 PROGRAM LICENSE	LICENSE.CODESYS IEC61131-3 PROGRAM LICENSE	FLN9975A	275	\$150.00
LICENSE.DNP3 MASTER LICENSE	-	FLN9001A	275	\$150.00
LICENSE.DNP3 SLAVE LICENSE	-	FLN9002A	275	\$150.00
LICENSE.DNP3 MASTER & SLAVE LICENSE	-	FLN9003A	275	\$200.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
AC POWER SUPPLY 24V/120W DC OUT	AC POWER SUPPLY 24V/120W DC OU	FLN0101	275	\$300.00
AC POWER SUPPLY 12V/120W DC OUT	AC POWER SUPPLY 12V/120W DC OU	FLN0096	275	\$225.00
DC/DC - [48 >>24]	ADD: DC/DC - [48 >>24] PS W/O HOUSING	FHN9067	275	\$500.00
MC_EDGE AUX IO MIGRATION CABLE	-	FKN0044A	275	\$75.00

Terminal block

Description	Full Description	Nomenclature	APC	Price
TERMINAL BLOCK MALE 4 PIN 3.5MM	TERMINAL BLOCK MALE 4 PIN 3.5MM	FHN0064	275	\$15.00
TERMINAL BLOCK MALE 10 PIN 5MM	TERMINAL BLOCK MALE 10 PIN 5MM	FHN0061	275	\$40.00
TERMINAL BLOCK CONNECTOR EXTRACTOR	TERMINAL BLOCK CONNECTOR EXTRACTOR	FKN0024	275	\$10.00
TERMINAL BLOCK MALE 2 PIN 5 MM	TERMINAL BLOCK MALE 2 PIN 5 MM	FHN0063	275	\$10.00
TERMINAL BLOCK MALE 3 PIN 5 MM	TERMINAL BLOCK MALE 3 PIN 5 MM	FHN0062	275	\$10.00

Din Rail

Description	Full Description	Nomenclature	APC	Price
DIN RAIL 42 CM	DIN RAIL 42 CM	FHN0056	275	\$20.00
DIN RAIL 26 CM	DIN RAIL 26 CM	FHN0054	275	\$20.00
DIN RAIL STOPPER	DIN RAIL STOPPER	FHN0057	275	\$15.00
PANDUIT IABDIN4 4 RACK UNIT DIN RAIL FOR EIA 19" MOUNT	Drop Ship Item	DSIABDIN4	499	\$306.00

Radio models

Description	Full Description	Nomenclature	APC	Price
APX6500 136-174 MHZ (A+D)	APX6500 136-174 MHZ (A+D)	FUD1041A	85	\$3,150.00
APX6500 380-470 MHZ (A+D)	APX6500 380-470 MHZ (A+D)	FUE1250A	85	\$3,150.00
APX6500 450-520MHZ (A+D)	APX6500 450-520MHZ (A+D)	FUE1251A	85	\$3,150.00
APX6500 700/800 MHZ (A+D)	APX6500 700/800 MHZ (A+D)	FUF1201A	85	\$3,150.00
XPR5350E 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPR5350e 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUD1040	85	\$935.00
XPR5350E 403-470 MHZ, DIGITAL +ANALOG + CONNECT PLUS	XPR5350E 403-470 MHZ, DIGITAL +ANALOG + CONNECT PLUS	FUE1078	85	\$935.00
XPR5350E 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPR5350E 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUE1077	85	\$935.00
XPR5380E 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPR5380E 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUF1200	85	\$935.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
APX6500 INSTALLATION KIT	APX6500 INSTALLATION KIT	FLN0100	275	\$250.00
ACCESSORY KIT,CABLE KIT EXTERNAL MODEM MOTOTRBO ANALOG	ACCESSORY KIT,CABLE KIT EXTERNAL MODEM MOTOTRBO ANALOG	FLN4722	275	\$200.00
ACCESSORY KIT,CABLE KIT EXTERNAL MODEM CM140/200 ANALOG	ACCESSORY KIT,CABLE KIT EXTERNAL MODEM CM140/200 ANALOG	FLN4723	275	\$150.00
XPR5350 INSTALLATION KIT	MOTOTRBO MOBILE DIGITAL INSTALLATION KIT FOR MC-EDGE	FLN0093	275	\$160.00
APX4000 INSTALLATION KIT	APX/XPR PORTABLE DIGITAL INSTALLATION KIT FOR MC-EDGE	FLN0042	275	\$300.00
ACCESSORY KIT,EXTERNAL MOBILE TETRA MTMSXXX RADIO CABLE KIT FOR MC-EDGE	External TETRA radio cable kit for MC-EDGE	FLN9981A	275	\$150.00

Mid Power Amplifier
Main Model

Description	Nomenclature	Price
Mid Power Amplifier	FDK00353	\$28,500

MIP 5000 VoIP Radio Console
Configuration
Gateways

Description	Full Description	Nomenclature	APC	Price
MIP5000 VOIP LOCAL GATEWAY	Provides one MIP 5000 Local Gateway. Each gateway is capable of supporting one local control radio. Punch blocks and cabling for connecting to the radio are not included in the L3482AC. An Ethernet cable (not included) is also required for each L3482AC.	L3482AC	740	\$798.00
MIP5000 VOIP TONE GATEWAY	Provides one MIP 5000 Tone Gateway. Each gateway is capable of supporting one tone remote controlled base station. Punch blocks and cabling for connecting to the station are not included in the L3483AC. An Ethernet cable (not included) is also required for each L3483AC.	L3483AC	740	\$798.00
MIP5000 VOIP DIGITAL GATEWAY	Provides one MIP 5000 Digital Gateway. Each gateway is capable of supporting one SB9600-capable radio. Punch blocks and cabling for connecting to the radio are not included in the L3484AC. An Ethernet cable (not included) is also required for each L3484AC.	L3484AC	740	\$798.00
MIP 5000 VOIP MOTOTRBO GATEWAY	Provides one MIP 5000 MOTOTRBO Gateway. Each gateway is capable of supporting one XPR4550 or XPR 5550 radio. Punch blocks and cabling for connecting to the radio are not included in the L3598. You must order the DDN9867 MOTOTRBO Direct Connect Cable to connect to the XPR 4550 or XPR 5550. An Ethernet cable (not included) is also required for each L3598.	L3598AC	740	\$798.00

Options for Gateways - Must select one per gateway

Description	Full Description	Nomenclature	APC	Price
FOR SYSTEMS AT RELEASE 4.0 OR EARLIER	-	TT05979AA	740	\$0.00
FOR SYSTEMS AT RELEASE 4.1 OR NEWER	-	TT05980AA	740	\$0.00

Software

Description	Full Description	Nomenclature	APC	Price
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MIP5000 VOIP DISPATCH SW 1 CHANNEL	Provides the software application and license for one MIP 5000 1-channel dispatch console. Allows a dispatcher to access and control one MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateway.	L3485	740	\$1,500.00
MIP5000 VOIP DISPATCH SW 4 CHANNEL	Provides the software application and license for one MIP 5000 4-channel dispatch console. Allows a dispatcher to access and control up to four MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3486	740	\$2,500.00
MIP5000 VOIP DISPATCH SW 8 CHANNEL	Provides the software application and license for one MIP 5000 8-channel dispatch console. Allows a dispatcher to access and control up to eight MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3487	740	\$6,500.00
MIP5000 VOIP DISPATCH SW 12 CHANNEL	Provides the software application and USB Hsp Key for one MIP 5000 12-channel dispatch console. Allows a dispatcher to access and control up to 12 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3499	740	\$10,500.00
MIP5000 VOIP 24 CHANNEL SW WITH LICENSE	Provides the software application and USB Hsp Key for one MIP 5000 24-channel dispatch console. Allows a dispatcher to access and control up to 24 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3567	740	\$15,500.00
MIP5000 VOIP DISPATCH SW 48 CHANNEL	Provides the software application and USB Hsp Key for one MIP 5000 48-channel dispatch console. Allows a dispatcher to access and control up to 48 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3630	740	\$25,000.00
Option for Software				
Description	Full Description	Nomenclature	APC	Price
MIP5000 ENHANCED MODEL USB HEADSET JACKBOX	-	TT05522AA	740	\$575.00
Expansion Entitlement				
Description	Full Description	Nomenclature	APC	Price
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2191	740	\$13,000.00
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2192	740	\$8,500.00
MIP5000 SW EXPANSION ENTITLEMENT 8 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2193	740	\$9,500.00
MIP5000 SW EXPANSION ENTITLEMENT 12 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2194	740	\$5,500.00
MIP5000 SW EXPANSION ENTITLEMENT 8 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2225	740	\$4,500.00
MIP5000 SW EXPANSION ENTITLEMENT 4 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2745	740	\$23,000.00
MIP5000 SW EXPANSION ENTITLEMENT 8 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2746	740	\$19,000.00
MIP5000 SW EXPANSION ENTITLEMENT 12 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2747	740	\$15,000.00
MIP5000 SW EXPANSION ENTITLEMENT 24 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2748	740	\$10,000.00
Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSC 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
STARTECH 7 PORT USB 3.0 HUB	Includes an external power supply. May be used with HP Z2 Mini Workstation. Star Tech Part# ST7300U3M.	DSST7300U3M	708	\$93.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00
Accessories				
Audio				
Description	Full Description	Nomenclature	APC	Price
MIP5000 ENHANCED MODEL USB HEADSET	Supports 1 Plantronics two prong headset base and quick disconnect top, 1 footswitch BLN6732 and 1 gooseneck Microphone B1914, also provides port for Call Director, logging Recorder or External Pager port.	DDN9493	740	\$575.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$250.00
FOOT, SWITCH TRADITIONAL		BLN6732	229	\$135.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75
MOTOTRBO (L3598) Direct Connect Radio Interface Cables				
Description	Full Description	Nomenclature	APC	Price
MOTOTRBO DIRECT CONNECT CABLE	For use with the XPR 4550 or XPR 5550.	DDN9867	740	\$159.00
Digital Gateway (L3484) Radio Interface Cables				
Description	Full Description	Nomenclature	APC	Price
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00
MCS2000 III DIRECT CONNECT CABLE	-	DDN8350	322	\$200.00
CONSOLETTIE W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00
Local Gateway (L3482) Control Interface Cables				
Description	Full Description	Nomenclature	APC	Price
RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	454	\$138.00
FRU Kits				
Description	Full Description	Nomenclature	APC	Price
15 FT NULL MODEM CABLE DB9 F/F	One required per MIP 5000 System	DDN8671	740	\$13.00
Rackmount Kit				
Description	Full Description	Nomenclature	APC	Price
MIP5000 RACKMOUNT KIT	Holds 2 gateways	DDN8900	740	\$225.00
Information Assurance				
Description	Full Description	Nomenclature	APC	Price
MIP5000 INFORMATION ASSURANCE TRANSPARENT HARDENING KIT CD	-	TT2134	740	\$50.00
MIP5000 INFORMATION ASSURANCE FULLY HARDENED KIT CD	-	TT2135	740	\$50.00
MIP5000 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3192	740	\$50.00
MIP5000 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3193	740	\$50.00
Aux I/Os				
MCN Modules				
Description	Full Description	Nomenclature	APC	Price
MCN RCD SERVER SOFTWARE AND HIB-JIP MODULE	-	DDN1388	229	\$7,000.00
MCN GPIO-1208C INPUT/OUTPUT MODULE	-	DDN1385	229	\$1,075.00
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00
Software Expansion				
Description	Full Description	Nomenclature	APC	Price
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	-	DDN1295	229	\$2,765.00
Power Supply				
Description	Full Description	Nomenclature	APC	Price
POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00
Network Cables and Terminators				
Description	Full Description	Nomenclature	APC	Price
CABLE ASSY NETWORK 9 INCHES	-	CDN6123	229	\$21.00
CABLE ASSY NETWORK 3 FT	-	CDN6124	229	\$21.00
CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00



Updated Pricing for contract 4400016317 as of January 2022

Parallel Input/Output Cables

Description	Full Description	Nomenclature	APC	Price
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00

Serial Cables

Description	Full Description	Nomenclature	APC	Price
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00

Manuals

Description	Full Description	Nomenclature	APC	Price
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00
MCN SERVER SOFTWARE MANUAL	-	DDN1402	229	\$25.00
GPIO HARDWARE GUIDE	-	DDN1386	229	\$20.00
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00

Rack Mounting

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT FOR HIB-IP	-	DDN1387	229	\$75.00
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00

Motorola MKM 7000 Console Alias Manager

Software DVD

Description	Full Description	Nomenclature	APC	Price
MKM 7000 Console Alias Manager Software	Provides one copy of the MKM 7000 Console Alias Manager server software. Each CAM server requires its own copy of the software.	BVN1013	443	\$250.00

MLC 8000 Comparator

Model

Description	Full Description	Nomenclature	APC	Price
MLC 8000	F2979 includes: - MLC 8000 module - QMA to BNC adapter - for connecting 5MHz/1PPS in analog simulcast configurations - Analog Simulcast adapter cable - Ground cable	F2979	112	\$2,000.00

Options

MLC 8000 Software

Analog Simulcast

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	VA00783AA provides software that can be configured for one of two operational modes (but not both): analog simulcast comparator or base radio gateway. The MLC 8000 analog simulcast comparator provides one TRC 4-wire connection to a circuit analog console, and IP connectivity for up to 64 transmit/receiver resources connected to MLC 8000 gateways. The MLC 8000 base radio gateway will connect to one transmit simulcast base station. Only one simulcast base station can be connected to the MLC 8000.	VA00783AA	112	\$1,000.00

Analog Voting

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL VOTING COMPARATOR/GATEWAY	For receive-only sites in analog simulcast, the VA00784AA option provides software to operate as a receiver gateway. The MLC 8000 receiver gateway will support up to four analog receivers.	VA00784AA	112	\$500.00

Mixed Mode (digital P25 and analog) Voting

Description	Full Description	Nomenclature	APC	Price
ADD: MIXED MODE GCM 8000 COMPANION VOTING COMPARATOR/GATEWAY	VA00785AA provides software that can be configured for one of two operational modes (but not both): analog companion comparator or mixed mode base radio/receiver gateway. The MLC 8000 analog companion comparator provides one TRC 4-wire connection to a co-located GCM 8000 CCGW, and IP connectivity for up to 64 transmit base radio or receiver resources connected to MLC 8000 gateways. The MLC 8000 comparator shares the MLC 8000 gateway resources with a GCM 8000 digital P25 comparator. One MLC 8000 base radio/receiver gateway provides 4wire/V.24 hybrid connections to four mixed mode transmit base radios or receivers.	VA00785AA	112	\$0.00

P25 Digital-Only Voting, P25 Digital-Only Simulcast

Description	Full Description	Nomenclature	APC	Price
ADD: GCM 8000 SIMULCAST VOTING V.24 BASE RADIO AND RECEIVER GATEWAY	VA00786AA provides gateway software to translate the IP GCM 8000 traffic to the V.24 circuit protocol for interfacing V.24 base radios and receivers. Used in conjunction with the GCM 8000 comparator, one MLC 8000 base radio/receiver gateway provides V.24 connections to four mixed mode transmit base radios or receivers.	VA00786AA	112	\$0.00

External Power Supply (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: 120/240VAC TO +12VDC POWER ADAPTER	Order one power supply per MLC 8000 main model.	VA00012AA	112	\$50.00

Mounting Hardware (Required)

Description	Full Description	Nomenclature	APC	Price
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	Determine the number of co-located MLC 8000 devices and order accordingly. Screws and adapters for switching from rack mount to cabinet mount are included. (Allow for 2 RU of space per rack mount kit. See Product Planning Guide for details)	VA00011AA	112	\$50.00

FRUs

Description	Full Description	Nomenclature	APC	Price
FRU KIT, MLC8000	-	FLN0001	454	\$1,000.00
MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	-	FTN7490	202	\$200.00
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7979) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7979.	FHN7469	202	\$100.00

MOBILITY MANAGEMENT ENTITY (MME)

New System Order Guidelines

Description	Full Description	Nomenclature	APC	Price
MME 5K SAU BUNDLE	-	TT2705	53	\$298,400.0
MME 10K SAU BUNDLE	-	TT2706	53	\$390,570.0
MME 25K SAU BUNDLE	-	TT2707	53	\$632,480.0
MME 50K SAU BUNDLE	-	TT2708	53	\$700,390.0
MME 100K SAU BUNDLE	-	TT2709	53	\$823,850.0
MME 250K SAU BUNDLE	-	TT2695	53	\$1,160,060.0
MME 500K SAU BUNDLE	-	TT2696	53	\$1,732,710.0
GSN SUPPORT SYSTEM (GSS)	-	TT2766	53	\$49,500.0

Existing System Capacity Expansion Guidelines

Description	Full Description	Nomenclature	APC	Price
MME FROM 5K TO 10K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05866AA	53	\$101,400.0
MME FROM 10K TO 25K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05867AA	53	\$266,100.0
MME FROM 25K TO 50K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05868AA	53	\$60,810.0
MME FROM 50K TO 100K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05869AA	53	\$135,810.0
MME FROM 100K TO 150K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05870AA	53	\$135,810.0
MME FROM 150K TO 250K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05871AA	53	\$234,040.0
MME FROM 250K TO 350K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05872AA	53	\$311,520.0
MME FROM 350K TO 500K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05873AA	53	\$313,480.0
MME FROM 500K TO 750K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05874AA	53	\$520,220.0

Motorola Solutions Mobile VPN

Hardware

Description	Full Description	Nomenclature	APC	Price
NON REDUNDANT MVPN SERVER	-	SQM01SUM0270	212	\$27,000.0
REDUNDANT MVPN SERVER	-	SQM01SUM0272	212	\$54,000.0

Active User Server Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: ACTIVE USER MVPN SERVER CAPACITY	-	CA02573AA	212	\$2,500.00



Updated Pricing for contract 4400016317 as of January 2022

FIELDDED MVPN USER CAPACITY SW ADD-ON		-	T8084	212	\$2,500.00
Client Licenses					
Description	Full Description	Nomenclature	APC	Price	
MVPN CLIENT LICENSE MSI DEVICES & WINDOWS LAPTOP	-	T8079	212	\$0.00	
MVPN CLIENT LICENSE BYOD ANDROID DEVICES	-	T8179	212	\$0.00	
VPN USER LICENSE BUNDLE					
Description	Full Description	Nomenclature	APC	Price	
Add: VPN 1 CLIENT LICENSE	-	UA00129AA	212	\$45.00	
Add: VPN CLIENT LICENSE Bundle of 10	-	UA00116AA	212	\$400.00	
Add: VPN CLIENT LICENSE Bundle of 100	-	UA00117AA	212	\$3,700.00	
Add: VPN CLIENT LICENSE Bundle of 250	-	UA00118AA	212	\$8,500.00	
Add: VPN CLIENT LICENSE Bundle of 500	-	UA00119AA	212	\$15,500.00	
Add: VPN CLIENT LICENSE Bundle of 1,000	-	UA00120AA	212	\$27,000.00	
Add: VPN CLIENT LICENSE Bundle of 2,000	-	UA00121AA	212	\$48,000.00	
Add: VPN CLIENT LICENSE Bundle of 5,000	-	UA00122AA	63	\$100,000.00	
Add: VPN CLIENT LICENSE Bundle of 7,500	-	UA00123AA	212	\$120,000.00	
Add: VPN CLIENT LICENSE Bundle of 10,000	-	UA00124AA	212	\$130,000.00	
MOBILITY ADD-ON USER LICENSE BUNDLE					
Description	Full Description	Nomenclature	APC	Price	
Add: Mobility ADD-ON 1 CLIENT LICENSE	-	UA00174AA	212	\$125.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10	-	UA00175AA	212	\$1,200.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 100	-	UA00176AA	212	\$11,400.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 250	-	UA00177AA	212	\$27,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 500	-	UA00178AA	212	\$51,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 1,000	-	UA00179AA	212	\$96,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 2,000	-	UA00180AA	212	\$180,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 5,000	-	UA00181AA	63	\$410,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 7,500	-	UA00182AA	212	\$555,000.00	
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10,000	-	UA00183AA	212	\$660,000.00	
Accessories					
Description	Full Description	Nomenclature	APC	Price	
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	55	\$9,470.00	
48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	55	\$11,460.00	
48 PORT SWITCH BUNDLE - DC PO	-	TT2847	55	\$9,360.00	
FRUs/FREs for Hardware					
Description	Full Description	Nomenclature	APC	Price	
VPN HARDWARE FRE SERVICE ONLY	-	DLN6943	212	\$17,200.00	
1.2 TB HARD DRIVE	-	DLN6942	454	\$1,750.00	

Monitoring and Control Network
Used for Comparator
Status and Control

Model					
ASTRO-TAC/DIGITAC-TAC/Spectra-TAC Comparator Interface					
Description	Full Description	Nomenclature	APC	Price	
DIGITAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a DigiTAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1955	229	\$3,674.00	
ASTRO-TAC AIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect an 8 port ASTRO-TAC to a console using 1 DOS based CRT display.	L1959	229	\$4,394.00	
ACIS IIB UP TO 16 RECEIVERS	Order the above to connect a 16 port ASTRO-TAC to a console using contact closures. Four B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1954	229	\$3,236.00	
ACIS IIB UP TO 8 RECEIVERS	Order the above to connect an 8 port ASTRO-TAC to a console using contact closures. Two B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1953	229	\$2,404.00	
SPECTRA-TAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a Spectra-TAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1957	229	\$3,674.00	
MCN Server 8000 & Client Software For MLC 8000 and GCM 8000 IP Comparators					
Description	Full Description	Nomenclature	APC	Price	
MCN SW LIC OPTION MULTI-NI-4, ADDS SUPPORT FOR (4) HIB-IPS	-	DDN1294	229	\$2,100.00	
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADDL CLIENTS	-	DDN1295	229	\$2,765.00	
MCN SERVER 8000 MANUAL	-	DDN1290	229	\$28.00	
HIB-IP 8002 UNIT - NETWORK INTERFACE FOR MCN SERVER	-	DDN1213	229	\$3,066.00	
MCN SERVER 8000 & CLIENT SOFTWARE MAJOR LEVEL 1 UPGRADE	-	DDN1292	229	\$3,332.00	
MCN SERVER 8000 SW LIC FOR 4 MOTOROLA IP COMPARATORS & 4 CLIENTS	-	DDN1289	229	\$9,556.00	
MCN SERVER 8000 SW LIC OPT FOR 1 ADDL MOTOROLA GCM 8000 OR MLC 8000	-	DDN1287	229	\$910.00	
MCN SERVER 8000 SW LIC OPT FOR 4 ADDL MOTOROLA GCM 8000 OR MLC 8000	-	DDN1288	229	\$2,100.00	
Options					
ASTRO-TAC Comparator					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER SPLY 120VAC US/ICAN	-	Z491	229	\$69.00	
ADD: POWER SUPPLY 230VAC EUROP	-	Z492	229	\$228.00	
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00	
ADD: ASTRO IMBE LICENSE	This will provide an ASTRO IMBE Software License agreement.	Z708	229	\$400.00	
ADD: MOUNT, RACK ACIS IIB 8 RX	Compatible with the L1954 only.	Z493	229	\$245.00	
ADD: MOUNT, RACK ACIS IIB 16RX	Compatible with the L1954 only.	Z493	229	\$320.00	
DIGITAC/Spectra-TAC Comparator					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER SPLY 120VAC US/ICAN	-	Z491	229	\$69.00	
ADD: POWER SUPPLY 230VAC EUROP	-	Z492	229	\$228.00	
ADD: PUNCHBLOCK WIRING 8 RX	-	Z550	229	\$146.00	
ADD: WIRING-MOUNTING DIGITAC 8	-	Z496	229	\$239.00	
ADD: WIRING BLUNT CABLE 8 RX	-	Z495	229	\$36.00	
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00	
Accessories					
MCN Spare Modules					
Description	Full Description	Nomenclature	APC	Price	
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00	
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00	
IIB I/O INTERFACE MODULE	-	CDN6120	229	\$962.00	
MCNRCD STD SOFTWARE LICENSE W/HIB-232 MOD	-	CDN6122	229	\$2,792.00	
Spare Power Supplies					
Description	Full Description	Nomenclature	APC	Price	
POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00	
Spare Mounting Brackets					
Description	Full Description	Nomenclature	APC	Price	
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00	
MNTING BRACKET CIB DIGITAC	-	CDN6114	229	\$224.00	
Parallel Input/Output Cables					
Description	Full Description	Nomenclature	APC	Price	
PUNCH BLOCK DUAL 25 PAIR	-	CDN6118	229	\$125.00	
CABLE ASSY 25 PR M-NONE 25FT	-	CDN6135	229	\$81.00	
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00	
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00	
Serial Cables					
Description	Full Description	Nomenclature	APC	Price	
CBL ASSY AIB COMPARATOR 10 FT	-	CDN6131	229	\$74.00	
Network Cables and Terminators					
Description	Full Description	Nomenclature	APC	Price	
COUPLER NETWORK CABLE FEM/FEM	-	CDN6133	229	\$12.00	
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00	
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00	
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00	
CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00	

CABLE ASSY NETWORK 9 INCHES		-	CDN6123	229	\$21.00
CABLE ASSY NETWORK 3 FT		-	CDN6124	229	\$21.00
Manuals					
Description	Full Description	Nomenclature	APC	Price	
MCN SERVER 8000 MANUAL	-	DDN1290	229	\$28.00	
IIB HARDWARE GUIDE	-	CDN6108	229	\$20.00	
MCN SYSTEM MANUAL	-	CDN6134	229	\$30.00	
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00	
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00	
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00	
RCD DOS SOFTWARE GUIDE	-	CDN6111	229	\$28.00	
MT 1500 Portable Series					
Accessories					
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap, 3.0 in. Snap NiCad or NIMH.	NNTN4115	271	\$60.00	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
Charger					
Description	Full Description	Nomenclature	APC	Price	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75	
Accessories					
Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, 136-150 2MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50	
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50	
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00	
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50	
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50	
Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4105	261	\$243.00	
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4106	261	\$251.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap, 3.0 in. Snap NiCad or NIMH.	NNTN4115	271	\$60.00	
Charger					
Description	Full Description	Nomenclature	APC	Price	
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00	
Manual(s)					
Description	Full Description	Nomenclature	APC	Price	
XTS/MT1.5K, XTS2.5KM1, 1.5, 2, 3CD UG B	-	PMLN4940B	362	\$21.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25	
Multi Unit Chargers					
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00	
Service					
Description	Full Description	Nomenclature	APC	Price	
BATTERY ELIMINATOR CABLE	-	AA0180305G54	261	\$137.00	
HOUSING ELIMINATOR, XTS 2500, XTS 1500	-	8180384M37	261	\$538.00	
Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00	

EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ABC LABEL REPLACEMENT KIT - GREEN	-	PMLN5159A	140	\$20.00
ABC LABEL REPLACEMENT KIT - YELLOW	-	PMLN5161A	140	\$20.00
ABC LABEL REPLACEMENT KIT -COOLGRAY	-	PMLN5162A	362	\$20.00
ABC LABEL REPLACEMENT KIT - RED	-	PMLN5163A	140	\$20.00
ABC LABEL REPLACEMENT KIT - BLUE	-	PMLN5160A	140	\$20.00

MTR3000
Satellite Receiver

Model	Description	Full Description	Nomenclature	APC	Price
	MTR3000 RECEIVER	-	T7713	512	\$1,400.00
Options					
Frequency Band	Description	Full Description	Nomenclature	APC	Price
	ADD: UHF R2	-	XA00046AA	512	\$3,400.00
	ADD: 800MHZ	-	XA00048AA	512	\$3,600.00
	ADD: 900MHZ	-	XA00049AA	512	\$3,600.00
Cable(s)	Description	Full Description	Nomenclature	APC	Price
	ADD: AUXILIARY SYSTEM CABLE	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00
	ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00
Ethernet Cables	Description	Full Description	Nomenclature	APC	Price
	ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00
Power Cable	Description	Full Description	Nomenclature	APC	Price
	ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00
	ADD: POWER CABLE BRAZIL	Station ships w/US domestic power cable unless ordering this option.	XA00040AA	512	\$0.00
	ADD: POWER CABLE AUSTRALIA	Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00
	ADD: POWER CABLE EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00
	ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00
Preselectors	Description	Full Description	Nomenclature	APC	Price
	ADD: PRESELECTOR, UHF (470-524 MHZ)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00
Analog Voting	Description	Full Description	Nomenclature	APC	Price
	ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00
Test Results	Description	Full Description	Nomenclature	APC	Price
	ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00
Accessories					
Field Replacement Unit	Description	Full Description	Nomenclature	APC	Price
	MTR 3000 RECEIVER EXCITER FRU	-	DLN6776	512	\$100.00
	MTR 3000 RECEIVER PA FRU	-	DLN6777	512	\$100.00

MTR3000
Base Station/Repeater

Models	Description	Full Description	Nomenclature	APC	Price
	MTR3000 CAPACITY PLUS SW UPGRADE	Capacity Plus software enables single site trunking without a hardware controller. One HCLN4439 is required per base station to enable Capacity Plus single site trunking feature.	HCLN4439	422	\$1,917.00
	MTR 3000 BASE RADIO	-	T3000	512	\$4,255.00
Options					
Frequency Band	Description	Full Description	Nomenclature	APC	Price
	ADD: 800 MHZ 100W POWER (806-870)	-	X450MT	512	\$4,140.00
	ADD: 900 MHZ 100W POWER (896-941)	-	X460MT	512	\$4,140.00
	ADD : UHF 100W POWER (470-524)	-	X540MT	512	\$3,910.00
Cable(s)	Description	Full Description	Nomenclature	APC	Price
	ADD: DIGITAL PHONE PATCH CABLE	-	X244AK	512	\$50.00
	ADD: AUXILIARY SYSTEM CABLE	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00
	ADD: PHONE PATCH CABLE	-	X244AH	512	\$50.00
	ADD: COMMUNITY REPEATER PANEL CABLE	-	X244AG	512	\$50.00
	ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00
Conventional Station Operation	Description	Full Description	Nomenclature	APC	Price
	ADD: BASE STATION OPERATION	Select 1 Station Operation. DOES NOT include Antenna Relay, if relay is required order X371. **Station Operation is required when operating in analog simplex mode Tx=Rx. MTR3000 does not support simplex in 800MHz and 900MHz bands.	X622	512	\$0.00
Duplexers	Description	Full Description	Nomenclature	APC	Price
	ADD: DUPLEXER, UHF 494-512 MHZ	Freq separation rules 3MHz min/18MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UH	512	\$1,380.00
	ADD: DUPLEXER, UHF 470-494 MHZ	Freq separation rules 3MHz min/24MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UN	512	\$1,380.00
	ADD: DUPLEXER, 800 MHZ	-	X182EB	512	\$1,380.00
Ethernet Cables	Description	Full Description	Nomenclature	APC	Price
	ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00
Mounting	Description	Full Description	Nomenclature	APC	Price
	ADD: RACK MOUNT HARDWARE	-	X153BA	512	\$75.00
	ADD: CABINET MOUNT HARDWARE	The U178AB cabinet mount hardware option provides L-brackets which support the weight of the base radio prior to the insertion of the front mounting screws.	U178AB	512	\$100.00
Peripheral	Description	Full Description	Nomenclature	APC	Price
	ADD: CIRCULATOR, UHF (470-524 MHZ)	-	X676UH	512	\$1,500.00
	ADD: CIRCULATOR, 800 MHZ	-	X676EB	512	\$1,000.00
	ADD: ANTENNA RELAY	-	X371BA	512	\$250.00
Power Cable	Description	Full Description	Nomenclature	APC	Price
	ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00
	ADD: POWER CABLE BRAZIL	Station ships w/US domestic power cable unless ordering this option.	XA00040AA	512	\$0.00
	ADD: POWER CABLE EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00
	ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00

Updated Pricing for contract 4400016317 as of January 2022

ADD: POWER CABLE, AUSTRALIA		Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00
Description	Full Description	Nomenclature	APC	Price	
ADD: PRESELECTOR, UHF (470-524 MHz)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00	
Wireline Options					
ADD: 4 WIRE WIRELINE	Supports 2 wire and 4 wire Analog. Needed for tone remote, DC remote, and voting.	X216AR	512	\$400.00	
Miscellaneous					
ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00	
Test Result (Optional)					
ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00	
Accessories					
Cable(s)					
REPL BY: DSUSBFA6 (HI-SPEED USB CABLE 6FT TYPE A -B)	This USB cable is used to program the MTR3000. It is a Type A to Type B USB which connects the base station/repeater to a PC. CPS Programming software is RVN5115.	DDN9957	454	\$20.00	
Field Replaceable Units (FRU's) 800 Mhz					
FRU 800/900 MHZ RECEIVER	DLN6716 Receiver can be used for both 800 and 900 MHz stations.	DLN6716	454	\$1,500.00	
FRU 800/900MHZ 100W PA	DLN6714 Power Amp can be used for both 800 and 900 MHz stations.	DLN6714	454	\$3,450.00	
FRU 800/900 MHZ EXCITER	DLN6715 Exciter can be used for both 800 and 900 MHz stations.	DLN6715	454	\$1,500.00	
Field Replaceable Units (FRU's) Control/Wireline					
FRU STATION CONTROL OCOXO	Replaces station control module with high stability. For 800/900 Mhz only. Region specific for North America.	DLN6718	454	\$1,600.00	
FRU STATION CONTROL TCXO	For VHF and UHF only. Region specific for North America.	DLN6719	454	\$1,300.00	
FRU 4 WIRE WIRELINE	-	DLN6720	454	\$450.00	
Field Replaceable Units (FRU's) Power Supply					
FRU MTR3000 AC/DC POWER SUPPLY	-	DLN6707	454	\$1,000.00	
Field Replaceable Units (FRU's) UHF					
FRU UHF 450-524 EXCITER	-	DLN6704	512	\$1,500.00	
FRU UHF 403-470 EXCITER	-	DLN6703	454	\$1,500.00	
FRU UHF 100W PA 403-470	-	DLN6701	454	\$3,500.00	
FRU UHF 100W PA 470-524	-	DLN6702	454	\$3,450.00	
FRU UHF 403-470 RECEIVER	-	DLN6705	454	\$1,500.00	
FRU UHF 450-524 RECEIVER	-	DLN6706	512	\$1,500.00	
Field Replaceable Units (FRU's) VHF					
FRU VHF 100W PA 136-174 MHZ	-	DLN6710	454	\$3,450.00	
FRU VHF 136-174 RECEIVER	-	DLN6713	454	\$1,500.00	
FRU MTR3000 VHF 136-174 EXCITER	-	DLN6712	454	\$1,500.00	
Field Replacement Units					
MTR3000 EMEA OCOXO FRU	Region specific for EMEA. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6760	454	\$1,600.00	
MTR3000 APAC TCXO FRU	Region specific for APAC. For VHF and UHF only.	DLN6759	454	\$1,300.00	
MTR3000 APAC OCOXO FRU	Region specific for APAC. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6758	454	\$1,600.00	
MTR3000 LACR TCXO FRU	Region specific for LACR. For VHF and UHF only.	DLN6756	454	\$950.00	
MTR3000 LACR OCOXO FRU	Region specific for LACR. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6757	454	\$940.00	
MTR3000 EMEA TCXO FRU	Region specific for EMEA. For VHF and UHF only.	DLN6761	454	\$1,300.00	

MTR2000 MOTOTRBO UPGRADE

Models					
Description	Full Description	Nomenclature	APC	Price	
MTR2000 MOTOTRBO UPGRADE	-	T2003	512	\$500.00	
Options					
Frequency Band					
ADD : UHF 100W POWER (470-524)	-	X540MT	512	\$3,910.00	
ADD: 800 MHZ 100W POWER (806-870)	-	X450MT	512	\$4,140.00	
ADD: 900 MHZ 100W POWER (896-941)	-	X460MT	512	\$4,140.00	
Ethernet Cables					
ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00	
Accessories					
Cable(s)					
REPL BY: DSUSBFA6 (HI-SPEED USB CABLE 6FT TYPE A -B)	This USB cable is used to program the MTR3000. It is a Type A to Type B USB which connects the base station/repeater to a PC. CPS Programming software is RVN5115.	DDN9957	454	\$20.00	
Field Replaceable Units (FRU's) 800 Mhz					
FRU 800/900 MHZ EXCITER	DLN6715 Exciter can be used for both 800 and 900 MHz stations.	DLN6715	454	\$1,500.00	
FRU 800/900 MHZ RECEIVER	DLN6716 Receiver can be used for both 800 and 900 MHz stations.	DLN6716	454	\$1,500.00	
Field Replaceable Units (FRU's) Control/Wireline					
FRU STATION CONTROL TCXO	For VHF and UHF only. Region specific for North America.	DLN6719	454	\$1,300.00	
FRU 4 WIRE WIRELINE	-	DLN6720	454	\$450.00	
FRU STATION CONTROL OCOXO	Replaces station control module with high stability. For 800/900 Mhz only. Region specific for North America.	DLN6718	454	\$1,600.00	
FRU BACKPLANE	-	DLN6721	454	\$1,600.00	
Field Replaceable Units (FRU's) Power Supply					
FRU MTR3000 AC/DC POWER SUPPLY	-	DLN6707	454	\$1,000.00	
Field Replaceable Units (FRU's) UHF					
FRU UHF 403-470 RECEIVER	-	DLN6705	454	\$1,500.00	
FRU UHF 450-524 RECEIVER	-	DLN6706	512	\$1,500.00	
FRU UHF 403-470 EXCITER	-	DLN6703	454	\$1,500.00	
FRU UHF 450-524 EXCITER	-	DLN6704	512	\$1,500.00	
Field Replaceable Units (FRU's) VHF					
FRU MTR3000 VHF 136-174 EXCITER	-	DLN6712	454	\$1,500.00	
FRU VHF 136-174 RECEIVER	-	DLN6713	454	\$1,500.00	

Motorola APX Transportable Station

Models					
Description	Full Description	Nomenclature	APC	Price	
RADIOS SALES MODEL APX TRANSPORTABLE STATION	-	P2096	570	\$3,520.00	
Options					
ADD: O3 CORD EXTENSION 17 FEET	(APX7500/6500 mobiles only)	H143	570	\$55.00	

MOSCAD NFM - Network Fault Management
SDM 3000 ADVANCED RTU

 STEP 1: Order the SDM 3000 Advanced RTU hardware, software firmware and punch blocks. *Required*

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00
ADD: SDM ASTRO RTU FW CURR ASTRO REL	-	VA00872	469	\$1,850.00
AAD TERM BLCK & CONN WI	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC IO F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00

 STEP 2: Choose an internal Power Supply for each SDM 3000 Advanced RTU (F4544). *Required*

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

SDM 3000 ADVANCED RTU SOFTWARE LICENSES
Upgrades/Downgrades

Description	Full Description	Nomenclature	APC	Price
SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	-	T7955	382	\$0.00
ADD: SDM3000 CONFIGURATION SOFTWARE AND FIRMWARE RECOVERY DVD	-	CA02404AA	382	\$25.00
ADD: SDM3000_ASTRO_RTU AND SDM3000_SNT FIRMWARE DOWNGRADE	-	CA02403AA	382	\$50.00

SDM 3000 I/O EXPANSION CHASSIS MODELS

STEP 1: Order SDM 3000 I/O Expansion Chassis if desired.

Description	Full Description	Nomenclature	APC	Price
SM IO EXPANSION BASIC	-	F4547	469	\$900.00
SM IO EXPANSION ADVANCED	-	F4548	469	\$1,200.00

STEP 2: If desired, order an internal power supply for each SDM 3000 I/O Expansion Chassis.

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

STEP 3: Punch blocks may be ordered with the SDM 3000 I/O Expansion Chassis.

Description	Full Description	Nomenclature	APC	Price
AAD TERM BLCK & CONN WI	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC IO F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00

FRUs

Description	Full Description	Nomenclature	APC	Price
TERM BLOCK & CONN WIRED M25T68	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC IO F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	FHN1668	454	\$90.00
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Network Products - Firewalls
For A7.16

Please reach out to Product group for the Firewall part number.

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	Fortinet Firewall Recovery Media	T8128	147	\$100.00

For A7.17.X+ :

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	Fortinet FG101E VPNFirewall (A7.17.X + with limited functions)	T8586	877	\$3,300.00
FORTINET FIREWALL RECOVERY MEDIA	Fortinet Firewall Recovery Media	T8128	147	\$100.00
JUNIPER FIREWALL APPLIANCE	Juniper Firewall Appliance (Control Room Firewall) (A7.17.X +)	T8639	147	\$3,200.00
CONTROL ROOM FIREWALL OS	JUNIPER FIREWALL RECOVERY MEDIA (Firewall OS for A7.17.X +)	T8669	147	\$100.00

Two Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE.FORTITOKEN PACK	FortiToken - Pack of 10 hard-tokens	DDN1933	708	\$560.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	FortiTokenMobile - Pack of 5 soft-tokens for iOS and Android mobile devices*	DDN1881	708	\$272.00

Network Products Routers
SITE ROUTER AND FIREWALL (AC AND DC VERSIONS), EDGE & HUB ROUTER & FIREWALL (AC AND DC VERSIONS)

Description	Full Description	Nomenclature	APC	Price
SITE AND HUB ROUTER AND FIREWALL - DC	This provides a site router and firewall (SRX345) including generic operating system as well as an internal -48 Volt DC power supply.	T8547	147	\$1,100.00
SITE AND HUB ROUTER AND FIREWALL - AC	This provides a site router and firewall (SRX345) including generic operating system as well as an internal 100-240 VAC power supply.	T8492	147	\$875.00
EDGE ROUTER & FIREWALL AC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a redundant internal 100-240 VAC power supply.	T8493	147	\$10,900.0
EDGE ROUTER & FIREWALL DC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a single internal -48 Volt DC power supply.	T8555	147	\$10,900.0

Options

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL HARDENING	-	CA03445AA	147	\$3,300.00
ADD: ENCRYPTION	-	CA03446AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX345	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03451AA	147	\$500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX1500	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03452AA	147	\$500.00
ADD: STATEFUL FIREWALL	-	CA03448AA	147	\$1,000.00

FRUs

Description	Full Description	Nomenclature	APC	Price
ASTRO CERTIFIED OS FOR SRX345/1500	-	T8501	147	\$50.00
SFP MODULE	SFP Module for SRX345	DLN7025	147	\$246.00
FRU: SRX 1500 AC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - AC	DLN8022	877	\$415.00
FRU: SRX1500 DC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - DC	DLN8021	877	\$1,108.00

DCG 9000 Model

Description	Full Description	Nomenclature	APC	Price
DYNAMIC CONVENTIONAL GATEWAY 9000	-	SQM01SUM0317	147	\$4,200.00

DCG 9000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL GATEWAY SERVER LICENSE	-	UA00667AA	147	\$0.00
ADD: DFSI CONVENTIONAL CHANNELS	-	CA03366AA	147	\$0.00
ADD: DC-DC POWER SUPPLY & CABLES	-	CA03464AA	147	\$225.00

ESU - DCG 9000 Deployment Solution

Description	Full Description	Nomenclature	APC	Price
ESU LAUNCHPAD SW KIT	-	T8510	147	\$1,000.00

DCG 9000 FRUs

Description	Full Description	Nomenclature	APC	Price
DCG DC POWER KIT	-	DLN1443	147	\$225.00
GGM 8000 DC POWER CABLE W/NON-TERMINATED ENDS	-	DKN6145	454	\$55.25

GGM 8000 Motorola Network Gateway
GGM 8000 Model

Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00



Updated Pricing for contract 4400016317 as of January 2022

GGM 8000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIRECT SHIP (NO STAGING)	-	CA02108AA	147	\$0.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ADD: DC POWER	-	CA01619AA	147	\$0.00
ADD: ENCRYPTION (7.9 OR 7.11)	Order one per each GGM 8000 gateway.	CA01617AA	147	\$1,500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00
FRU: GGM 8000 BASE MODULE	Base router w/o USB port. EOS compatible with A7.14 and later. For A7.9-A7.13 must order updated EOS.	TYN4001	147	\$5,250.00
FRU: GGM 8000 BASE MODULE-ENCRYPTION ENABLED	Encrypted base router w/onboard encryption of the processor. EOS compatible with A7.12 and later releases.	TYN4010	147	\$6,750.00
FRU: GGM 8000 E&M DSP MODULE	-	TYN4003	147	\$1,200.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
ANALOG V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GGM 8000 LD ENH CONV GATEWAY MODULE	4 port CCGW for Astro releases 7.12 and later	TYN4012B	454	\$3,000.00
FRU: GGM 8000 HD ENH CONV GATEWAY MODULE	8 port CCGW for Astro releases 7.12 and later	TYN4011B	454	\$6,000.00
FRU: GGM 8000 EXPANDER MODULE	-	TYN4005	454	\$1,200.00
FRU: GGM 8000 ROUTER MODULE	Base router with the USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4001.	TYN4006	454	\$4,050.00
FRU: GGM 8000 ROUTER MOD-ENCRYPTION ENABLED	Encrypted base router with USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4010.	TYN4009	454	\$5,550.00
FRU: GGM 8000 FLEXWAN MODULE	-	TYN4007	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00
FRU: GGM 8000 AC MODULE	-	TPN6210	454	\$750.00
FRU: GGM 8000 DC MODULE	-	TPN6211	454	\$750.00

Network Time and Frequency

TRAK 9100 Models
91009 and 91008

Description	Full Description	Nomenclature	APC	Price
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91009EDC	906	\$34,130.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91008EDC	906	\$39,075.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91008E	906	\$39,075.00
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91009E	906	\$34,130.00

Expansion Chassis

Description	Full Description	Nomenclature	APC	Price
DISTRIBUTION SHELF FOR 9100 DC	-	DSTRAK93007DC	906	\$14,413.00
DISTRIBUTION SHELF FOR 9100 AC	-	DSTRAK93007	454	\$14,413.00

Modules

Description	Full Description	Nomenclature	APC	Price
GPS REFERENCE MODULE W/RB OSCILLATOR	-	DSTRAK910115	906	\$12,910.00
FAULT SENSE UNIT WITH NTS/NTP AND SNMP NETWORK MANAGEMENT CAPABILITY	-	DSTRAK910414	906	\$3,238.00
GPS REFERENCE MODULE W/DOXCO	-	DSTRAK910116	906	\$6,005.00

Field Replaceable Units

Description	Full Description	Nomenclature	APC	Price
LIGHTENING/SURGE SUPPRESSOR (N-N) FOR TRAK GPS	-	DSTRAK4702354	906	\$645.00
ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111	906	\$1,878.00
ANTENNA KIT FOR 9100 -1 ANT, 100 FT OF CABLE/ WITH LIGHTNING PROT.	-	DSTRAK170N	906	\$2,163.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111KIT	906	\$2,838.00

TRAK 8835 Models

Description	Full Description	Nomenclature	APC	Price
GPS CLOCK, 10MHZ, DOXCO, 48VDC INCL ANT,100' COAX W/DONGLE SNMPV3	-	DSTRAK88358M	906	\$9,383.00
GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	-	DSTRAK88353M	906	\$14,788.00

Accessories

Description	Full Description	Nomenclature	APC	Price
AC POWER SUPPLY FOR 8835 GPS CLOCK	-	DSTRAK001134	906	\$240.00
ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111	906	\$1,878.00
MOUNTING SHELF FOR 8835 GPS CLOCK	-	DSTRAK4008245101	906	\$390.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111KIT	906	\$2,838.00

ASTRO Intrusion Detection System (IDS)

Configuration

Step 1: Order the IDS Kit (Required)

Description	Full Description	Nomenclature	APC	Price
IDS INTRUSION DETECTION SYSTEM KIT	The IDS kit model includes the IDS Appliance Hardware (SRX1500), certified version of Junos OS software, and the SRX1500 software subscription license for IDS signature updates.	SQM01SUM0327	147	\$40,000.00

Step 2: Select the appropriate system release option (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: IDS (A7.17.0)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.0.	CA03598AA	147	\$0.00
ADD: IDS (A7.17.3)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.3.	CA03598AB	147	\$0.00
ADD: IDS (A7.18)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.18.	CA03598AC	147	\$0.00
ADD: IDS (A2019.X)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A2019.2.	CA03598AD	147	\$0.00

Step 3: Order the Internetworking Firewall (Optional)

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FORTINET FIREWALL RECOVERY MEDIA	-	T8128	147	\$100.00

Step 4: Order Misc Items if needed (Optional)

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE RECOVERY MEDIA	This model contains certified version of Junos OS used with the IDS Appliance (SRX1500).	T8684	147	\$100.00

IDS Appliance Spare / FRU - If an "IDS Appliance" spare or FRU needs to be order, below is the part number to order.

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE	This model only contains the hardware.	T8668	147	\$10,900.00

NICE Inform Recording (NIR) Logging Recorder

Models

Description	Full Description	Nomenclature	APC	Price
PARALLEL TELEPHONY RECORDERS BASE BUNDLE	-	TT3289	229	\$22,000.00
SINGLE TELEPHONY RECORDER BASE BUNDLE	-	TT3290	229	\$13,000.00

Options

Inform Channels

Description	Full Description	Nomenclature	APC	Price
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00

Recording Interface Boards

Description	Full Description	Nomenclature	APC	Price
ANALOG DIGITAL TRUNK SHORT LENGTH PCI E INTERFACE BOARD NO CABLE	-	DDN2486	229	\$1,375.00
ANALOG DIGITAL TRUNK FULL LENGTH PCI E INTERFACE BOARD WITH NO CABLE	-	DDN2487	229	\$2,200.00

Contact Closure Boards

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ACTIVITY DETECTION BY EXTERNAL TRIGGER (SQUELCH) (24 INPUTS) (MAX 1)	-	DDN1691	229	\$2,150.00
ADDITIONAL 24 PORTS OF ACTIVITY DETECTION BY EXTERNAL TRIGGER	-	DDN1692	229	\$960.00
HP Servers and Chassis Options				
Description	Full Description	Nomenclature	APC	Price
NICE APPLICATIONS SERVER	-	TT2694	229	\$13,936.00
1TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2109	229	\$627.00
6TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2110	229	\$2,800.00
QUAD PORT ETHERNET GIGABIT (NICE PA	-	DDN2161	229	\$1,440.00
Cables and Patch Panels				
Description	Full Description	Nomenclature	APC	Price
CONNECTION CABLE 6M FOR ANALOG DIGITAL CARDS	-	DDN2501	229	\$120.00
CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS	-	DDN2502	229	\$178.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90M	-	DDN2503	229	\$240.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90F	-	DDN2504	229	\$240.00
CONNECTION CABLE 15M FOR ANALOG DIGITAL CARDS	-	DDN2505	229	\$356.00
CONNECTION CABLE 20M FOR ANALOG DIGITAL CARDS	-	DDN2506	229	\$466.00
EXTERNAL 600 OHM TERMINATION KIT OF UP TO 10 PAIRS FOR RADIO	-	DDN2507	229	\$580.00
SPLIT SERIAL CABLE RS232 10 METER USED FOR CDR	-	DDN2508	229	\$356.00
MOXA NPORT 1 PORT DEVICE SVR 1 DB9M RS232 PORT 1 10 100 NETWORK PORT	-	DDN2509	229	\$620.00
Trunk Patch Panels & Cables				
Description	Full Description	Nomenclature	APC	Price
1U PATCH PANEL 8 E1(S) INPUT OUTPUT LOOPBACK	-	DDN2112	229	\$460.00
1U PATCH PANEL 8 PCM32 S INPUT OUTPUT OUTPUT FOR BT	-	DDN2510	229	\$876.00
1U PP 24A P TWO WIRE INPUT PLUS 10M CABLE TO TELCO CONN	-	DDN2511	229	\$548.00
PRI CABLE 3 X RJ45 TO TELCO 2.5M	-	DDN2220	229	\$274.00
PRI CABLE 3 X RJ45 TO TELCO 4.6M	-	DDN2219	229	\$328.00
RJ45 E1 LOOP BACK ADAPTER USED FOR EADS	-	DDN2512	229	\$138.00
1U PATCH PANEL 8 E1 S INPUT OUTPUT OUTPUT LOOPBACK	-	DDN2513	229	\$876.00
Media Pack Physical Delivery				
Description	Full Description	Nomenclature	APC	Price
MEDIA PACK PHYSICAL SOFTWARE DELIVERY PER INSTALLED SITE	-	DDN2517	229	\$330.00
Accessories				
Alarm Options, SQL/MySQL Server/Operating Systems, Miscellaneous Items				
Description	Full Description	Nomenclature	APC	Price
SNMP MANAGEMENT APPLICATION	-	DDN7532	229	\$2,400.00
RELAY BOARD FOR EXTERNAL ALARMING 12V	-	DDN2518	229	\$3,000.00
RELAY BOARD FOR EXTERNAL ALARMING 24V	-	DDN2519	229	\$3,000.00
MYSQL SERVER LICENSE STANDARD EDITION	-	DDN2523	229	\$440.00
MYSQL SERVER LICENSE ENTERPRISE EDITION	-	DDN2524	229	\$10,800.00
ELTIMA SERIAL SPLITTER SOFTWARE	-	DDN2527	229	\$100.00
MICROSOFT WINDOWS 2016	-	DDN2525	229	\$980.00
MICROSOFT WINDOWS 2008	-	DDN2526	229	\$800.00
WINDOWS SERVER 2012 STD OS	-	DDN2262	229	\$1,000.00
SPARES TO SUPPORT DL 380 G9	-	DDN2107	229	\$4,706.00
SPARES TO SUPPORT ML350 G9	-	DDN2116	229	\$3,392.00
NRX UPGRADE EXPANSION KIT FOR ML350	-	DDN2162	229	\$2,024.00
VOICE AND DATA LOGGING, 17 IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 1	-	DDN2092	229	\$7,924.00
17IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 8 PORTS, CABLES	-	DDN2093	229	\$6,358.00

NICE Inform Release R9.0

General Information

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$62,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00
ADD: INFORM PRO RESILIENT CHANNEL PER CHANNEL	-	TT06308AA	229	\$220.00
ADD: INFORM PRO MODULE RESILIENCE PER CHANNEL	-	TT06309AA	229	\$55.00
ADD: INFORM PRO PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06310AA	229	\$220.00
ADD: INFORM PRO RESILIENT PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06311AA	229	\$110.00
ADD: INFORM ELITE PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06316AA	229	\$550.00
ADD: ASTRO RECORDING CHANNEL	-	TT06305AA	229	\$220.00
ADD: SCREEN RECORDING CHANNEL	-	TT06306AA	229	\$550.00
ADD: INFORM PRO TEXT RECORDING CHANNEL LICENSE	-	TT06312AA	229	\$220.00
ADD: INFORM PRO EVIDENCE COMPLIANCE PACK ORGANIZER AND MEDIA PLAYER	-	TT06313AA	229	\$220.00
ADD: INFORM PRO QA PACK EVALUATOR AND REPORTER	-	TT06314AA	229	\$220.00
ADD: INFORM ELITE INCIDENT INTELLIGENCE DASHBOARDS	-	TT06318AA	229	\$330.00

NITRO

NITRO CBSDs

MODEL	DESCRIPTION	MSRP
AAE50048INB2ANSC	SLX 5000 OUTDOOR CBSD 3550-3700M 2W (Mandatory): Includes: CBSD w/ 64 active stream support, choice of including an integrated 17dBi antenna, copper ethernet or fiber backhaul, integrated GPS receiver, DC power connector, and requires -40 to -57 VDC power source. Price is dependent upon integrated antenna option.	
CA03731AASC	SELECT WITH OR WITHOUT INTEGRATED ANTENNA (Must Select One): ADD SLX5000 WITHOUT INTEGRATED ANTENNA	\$9,872.31
CA03732AASC	ADD SLX5000 WITH INTEGRATED ANTENNA	\$10,938.46
AAE50048INB2ANEQSC	SELECT SLX5000 INSTALLATION EQUIPMENT (Mandatory): Includes GPS Antenna, all necessary mounting brackets & hardware, connectors, DC and RF surge protectors, power supplies & converters. ADD SLX5000 EQUIPMENT	\$2,512.38
CA03684ABSC	SELECT CONNECTOR ADAPTER MANDATORY (Must Select One): ADD ADAPTOR, RJ45, SLX 5000. Used for copper connection	\$117.69
CA03685AASC	ADD ADAPTOR, SFP, SLX 5000. Used for Fiber connection	\$131.54
CB000981A01SC	SELECT DC POWER CABLE (Must Select One): Power cables of varying length dependent upon site requirements. ADD 10m DC POWER CABLE	\$526.15
CB000981A02SC	ADD 50m DC POWER CABLE	\$1,100.77
CB000981A03SC	ADD 75m DC POWER CABLE	\$1,239.23
AN000368A01SC	SELECT ANTENNA (Must Select One): If CBSD Dual Carrier is enabled AND the CBSD does not have the Integrated Antenna Option, Qty 2 Antennas must be ordered.	
DSSJ33006517001SC	ADD 9DBI OMNIDIRECTIONAL ANTENNA (Requires qty 1 PCS Micro Filter per Omni Antenna)	\$325.38
DSAW3170-T4CSC	ADD 16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$587.42
	ADD ALPHA WIRELESS 3300-3800MHZ 2X2 33 DEG 20.5DBI FIZED DOWNTILT 4 DEGREE N-TYPE	\$818.31
	SELECT RF LIGHTENING ARRESTOR TYPE (Must Select One per Rx/Tx Path):	

	RF Lightning Arrestor. Qty 1 for each Rx/Tx path. The Arrestor comes in female/female or male/female configurations. Male/Female connects directly to the Antenna	
DSLPGTVNFFSC	ADD DC-7000 MHz N FEM BI-DIRECTION, 150W MAX SURGE CURRENT: 10KA MULTIPLE	\$74.77
DSLPGTVNFMSFC	ADD DC-7000 MHz N Male & N Female Bi-Directional	\$72.00
DSLXLMESEC	ADD PCS MICRO FILTER PROTECTOR (for Omni Antennas only)	\$123.23
DSL2TNMPLSC	SELECT ANTENNA CONNECTOR (Must Select Qty 1 per Antenna): ADD 3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$30.12
	SELECT REMOTE MOUNT FOR GPS ANTENNA:	
	Used if remote mounting of the GPS Antenna is desired instead of direct mounting (default) on the CBSD.	
DSGPSTMLMNTSC	ADD L MNT FOR GPS TIMING	\$33.23
DSGPS06NFFSC	ADD BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W.	\$148.15
	SELECT SOFTWARE USER AGREEMENT (Must Select One):	
	SLX5000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.	
MSV03S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$1,495.38
MSV03S02019SC12	ADD 1 YEAR DUAL CARRIER	\$2,492.31
MSV03S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$2,990.77
MSV03S02019SC22	ADD 2 YEAR DUAL CARRIER	\$4,984.62
MSV03S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$7,476.92
MSV03S02019SC52	ADD 5 YEAR DUAL CARRIER	\$12,461.54
MODEL	DESCRIPTION	MSRP
AAE40048ENB2ANSC	SLX 4000 INDOOR/OUTDOOR CBSD 3550-3700M 316mW (Mandatory): Includes: CBSD w/ 64 active stream support, copper ethernet backhaul, DC power connector, integrated GPS Receiver, and requires -40 to -57 VDC power source.	\$9,346.15
	SELECT SLX4000 INSTALLATION EQUIPMENT (Mandatory):	
	Includes GPS Antenna, all necessary mounting brackets & hardware, connectors, AC and RF surge protectors, power supplies & converters.	
AAE50048INB2ANEQSC	ADD SLX4000 EQUIPMENT	\$2,519.31
	SELECT CONNECTOR ADAPTER (Mandatory):	
CA03684ABSC	ADD ADAPTOR,RJ45, SLX 4000. Used for copper connection	\$117.69
	SELECT DC POWER CABLE (Must Select One):	
	Power cables of varying length dependent upon site requirements.	
CB000981A01SC	ADD 10m DC POWER CABLE	\$526.15
CB000981A02SC	ADD 50m DC POWER CABLE	\$1,100.77
CB000981A03SC	ADD 75m DC POWER CABLE	\$1,239.23
DSEDSG2051GTXSFPSC	SELECT FIBER ADAPTER KIT (Optional)	\$1,536.92
	Used when the SLX4000 requires a connection to Fiber backhaul. This kit includes a fiber to ethernet conversion switch (SFP not included), switching power supply, and weather proof enclosure with mounting rails. Needs to be wired for power. (Recommended to have a MOXA SFP at both ends ordered separately)	
	SELECT ANTENNA (Must Select One):	
	If CBSD Dual Carrier enabled, Qty 2 Antennas must be ordered.	
AN000368A01SC	ADD 9DBI OMNIDIRECTIONAL ANTENNA (Requires qty 1 PCS Micro Filter per Omni Antenna)	\$325.38
DSLXLMESEC	ADD PCS MICRO FILTER PROTECTOR (for Omni Antennas only)	\$123.23
DSSJS33006517001SC	ADD 16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$587.42
DSAW3170-14CSC	ADD ALPHA WIRELESS 3300-3800MHZ 2X2 33 DEG 20.5DBI FIZED DOWNTILT 4 DEGREE N-TYPE	\$818.31
DSL2TNMPLSC	SELECT ANTENNA CONNECTOR (Must Select Qty 1 per Antenna) ADD 3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$30.12
	SELECT REMOTE MOUNT FOR GPS ANTENNA:	
	Used if remote mounting of the GPS Antenna is desired instead of direct mounting (default) on the CBSD.	
DSGPSTMLMNTSC	ADD L MNT FOR GPS TIMING	\$33.23
DSGPS06NFFSC	ADD BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W.	\$148.15
	SELECT SOFTWARE USER AGREEMENT (Must Select One):	
	SLX4000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.	
MSV02S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$1,329.23
MSV02S02019SC12	ADD 1 YEAR DUAL CARRIER	\$2,326.15
MSV02S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$2,658.46
MSV02S02019SC22	ADD 2 YEAR DUAL CARRIER	\$4,652.31
MSV02S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$6,646.15
MSV02S02019SC52	ADD 5 YEAR DUAL CARRIER	\$11,630.77
MODEL	DESCRIPTION	MSRP
AAE20048ENA1ANSC	SLX 2000 INDOOR CBSD 3550-3700M 250mW (Mandatory): Includes: CBSD w/ 64 active stream support, integrated 8dbi antenna, copper ethernet or fiber backhaul, DC power connector, POE++ or 12V DC input, integrated GPS antenna.	\$6,161.54
	SELECT SLX2000 POWER OPTION (Must Select One):	
	Choose 12V DC or POE++ power	
PMLN7773ASC	ADD SLX2000 POWER ADAPTER KIT FOR INDOOR APPLICATIONS WITH POWER CORD	\$307.38
DSPOE171A60SC	ADD POE-171A-60 SINGLE-PORT 10/100/1000Mbps 802.3BT POE INJECTOR (60W)	286.62
	SELECT NETWORK EXTENDERS (Optional):	
	Depending upon power option, choose ethernet or ethernet/POE extenders if cable runs exceed 100m. Qty 1 extender is needed for each 100m of cable length.	
DSVERVORORLSC	ADD VERACITY OUTREACH LITE ETHERNET EXTENDER	\$408.46
DSVERVORORMSC	ADD VERACITY OUTREACH MAX ETHERNET AND POE EXTENDER	\$447.23
	SELECT FIBER KIT (Optional)	
	Select this kit when the SLX2000 requires a connection to Fiber backhaul. Contains Optics SFP and SFP MM	
DSEXSF11GELXSC	ADD JUNIPER 1000BASE-LX GBE OPTICS SFP, 10 KM TRANS ON SMF	\$1,190.77
	SELECT CEILING MOUNT KIT (Optional):	
	Contains all necessary hardware to mount the CBSD from a suspended ceiling.	
BR000448A01SC	ADD SLX2000 SUSPENDED CEILING MOUNT KIT	\$249.23
	SELECT TIMING SOURCE (Must Select One):	
	Network timing can be achieved via GPS or via a Grandmaster PTP. Typical deployments use PTP since up to 256 CBSDs can be serviced via a single Grandmaster. The PTP includes a AC/DC converter, power cable, and rack shelf. If GPS use is desired, Qty 1 GPS Antenna is required per CBSD.	
EQ000235A01SC	ADD uFALCOM MXG PTP BNDL w/ Shelf HW + ACDC PSU, 5YR HW/SW	\$8,148.46
FMAN4010ASC	ADD ANTENNA GPS/GLONASS MAG MOUNT	\$95.54
	SELECT SOFTWARE USER AGREEMENT (Must Select One):	
	SLX2000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.	
MSV01S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$581.54
MSV01S02019SC12	ADD 1 YEAR DUAL CARRIER	\$1,578.46
MSV01S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$1,163.08
MSV01S02019SC22	ADD 2 YEAR DUAL CARRIER	\$3,156.92
MSV01S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$2,907.69

MSV01S02019SC52	ADD 5 YEAR DUAL CARRIER	\$7,892.31
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NITRO NETWORKING EQUIPMENT
NITRO FIREWALL ROUTERS

MODEL	DESCRIPTION	MSRP
SELECT FIREWALL	Note: Mandatory Qty 2 of any Firewall/Router model is required	
T8577ASC	JUNIPER SRX 345 FIREWALL Includes 5yr SW and 1 year HW support. Typically used in small deployments where max aggregate throughput requirements are 0.6 Gbps or less	\$2,229.23
T8789ASC	JUNIPER SRX 1500 FIREWALL W/ RED PS & JUNOS SW Includes 5 years of SW and 1 year of HW support. Typically used in low/medium sized deployments where max aggregate throughput requirements are greater than 0.6 Gbps but don't exceed 2.9 Gbps This firewall router is also typically used in deployments utilizing a layer 3 architecture.	\$17,792.31
DSIGSRX4100SYSJBACSC	JUNIPER SRX 4100 FIREWALL w/ JUNOS SW (SRX4200-JSB) Includes 5 years of SW and HW support. Typically used in medium/large deployments where max aggregate throughput requirements are at lgreater than 2.9 Gbps but don't exceed 8 Gbps	\$80,239.85
DSIGSRX4200SYSJBACSC	JUNIPER SRX 4200 FIREWALL w/ JUNOS SW (SRX4200-JSB) Includes 5 years of SW and HW support. Typically used in larger deployments where max aggregate throughput requirements exceed 8 Gbps to a max of 15Gbps	\$141,183.69

NITRO ON-PREM EDGE GATEWAY

MODEL	DESCRIPTION	MSRP
SQM01SUM0319ASC	NITRO ONPREM EDGE GATEWAY Standard Capacity Gateway. Includes: Nitro On-Prem Edge Gateway hardware, NA AC power cord, and software. If redundancy or expansion is required, order quantity two (2). Includes 5 year HW & SW warranty.	\$8,792.31
SQM01SUM0332A	HIGH CAPACITY NITRO ONPREM EDGE GATEWAY High Capacity Gateway. Typically used in medium to large deployments where higher throughput is required. Includes: Nitro On-Prem Edge Gateway hardware, NA AC power cord, and software. If redundancy or expansion is required, order quantity two (2). Includes 5 year HW & SW warranty.	\$33,923.08
	SELECT SOFTWARE USER AGREEMENT (Must Select One): Each Nitro OnPrem Edge Gateways requires an additional Software User Agreement to connect to the Nitro Cloud Core. Important: Duration of the SUA must be the same length as the duration of the CBSD SUA.	
MSV04S02019ASC1	ADD 1 year	\$664.62
MSV04S02019ASC2	ADD 2 year	\$1,329.23
MSV04S02019ASC5	ADD 5 year	\$3,323.08

NITRO PTP TIMING SOURCE

MODEL	DESCRIPTION	MSRP
EQ000235A01SC	uFalcon MXG PTP BNDL w/ Shelf HW + ACDC PSU, 5YR HW/SW Bundle with PTP, AC/DC Power Supply, Rack Shelf SELECT GPS ANTENNA (Must Select One): Includes remote GPS mounting equipment	\$8,148.46
DSGNS11TMC28NSC	ADD GLOBAL GNSS TIMING ANTENNA, 26DB, GPS, GLONASS, GALILEO AND BEIDOU	\$527.53
DSGNS11TMG40NSC	ADD GLOBAL GNSS TIMING ANTENNA, 40DB, GPS, GLONASS, GALILEO AND BEIDOU	\$556.61
	SELECT PTP OPTIONAL EQUIPMENT	
DSFPA40SC	ADD AC (100-240V) TO DC (48V) POWER ADAPTER, 40W Spare power supply	\$373.85
	SELECT EQUIPMENT CABLE RUN LENGTH 100m	
DSC240NFSM1MSC	ADD CA.CNT240 BRAIDED CABLE ASSEMBLY 1M	\$61.62
DSEC150HFSC	ADD Coaxial Cable, 1/4" Hiflex, 50 ohm with black PE jacket	\$2.52
DSNF50B14XSC	ADD Connector, N female interface for EC1-50-HF	\$35.65
DSNM50B14XSC	ADD Connector, N male interface for EC1-50-HF	\$35.65
	SELECT EQUIPMENT CABLE RUN LENGTH 200m	
DSC240NFSM1MSC	ADD CA.CNT240 BRAIDED CABLE ASSEMBLY 1M	\$61.62
DSEC450HFSC	ADD Coaxial Cable, 1/2" Hiflex, 50 ohm with black PE jacket	\$3.32
DSNF50B12XSC	ADD Connector, N female interface for EC4-50-HF	\$40.50
DSNM50B12XSC	ADD Connector, N male interface for EC4-50-HF	\$40.50
DSNM50BL12XSC	ADD Connector, N male right angle interface for EC4-50-HF	\$65.10
	SELECT OTHER CABLE OPTIONS	
DSCNT240500SC	ADD 240" BRAIDED STD CBL 500 FT	\$582.92
DSCNT400500SC	ADD MINIMUM 500 FEET, CNT-400 BRAIDED COAXIAL CABLE 500 FT (ON REEL)	\$789.23
DS240BPNMCCRSC	ADD 240BPNM-C-CR CONNECTOR-CNT-240 N STRAIGHT MALE	\$11.84
DS240APNFCRSC	ADD CONNECTOR-CNT-240 N STRAIGHT FEMALE	\$14.61

NITRO SWITCHES

MODEL	DESCRIPTION	MSRP
EQ000238A01SC	EX3400-24P SWITCH BNDL W/ RED 600W PSU, 2 US PWRCRDS Includes 1 EX3400-24P switch with NA power cord and redundant 600W PSU with power cord. Includes Juniper Enhanced Limited Lifetime Warranty. Base 24-port Switch for connecting up to 14 CBSD's via standard ethernet. If an OnPrem Edge Gateway is connected, up to 12 CBSD's can be connected via standard ethernet. In addition, 2 CBSD's can be connected via fiber SFP (sold separately). Note Copper connections must be within 100m else ethernet extenders and POE extenders (if POE is used within the deployment) must be incorporated.	\$2,956.15
	SELECT OPTIONAL ACCESSORIES	
DSJPSU600ACAFOSC	ADD Juniper EX3400 600W AC Power Supply, front-to-back airflow Expansion PSU allows for PSU redundancy. Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$542.77
DSCBLEXPWRC13USSC	ADD Juniper AC power cable, U.S. for EX3400-24P Switch	\$29.08
DSEXFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF One SFP is needed for the CBSD and another one is needed for the switch.	\$793.38
DSEXFP1GESXR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF One SFP is needed for the CBSD and another one is needed for the switch.	\$397.38
	Juniper EX4300 32-port 100/1000BASE-X FIBER SWITCH	
DSEX430032FSC	Includes base 32-port Fiber Switch for connecting up to 12 CBSD's via SFP (fiber or copper). Additionally, 12 switches can be connected via SFP (fiber); up to 10 EX3400 and up to 2 EX4300. Includes Juniper Enhanced Limited Lifetime Warranty. Hub Switch for greater than 4 sites or outdoor CBSDs (all fiber). Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$6,583.85
	ADD Juniper AC power cable, U.S. for EX3400-24P Switch	
DSCBLEXPWRC13USSC	SELECT OPTIONAL ACCESSORIES	\$29.08
DSJPSU600ACAFOSC	ADD Juniper EX3400 600W AC Power Supply, front-to-back airflow Expansion PSU allows for PSU redundancy. Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$408.46

MODEL	DESCRIPTION	MSRP
DSEXSFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF	\$793.38
DSEXSFP1GESXR20SC	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF. One SFP is needed for the CBSD and another one is needed for the switch.	\$397.38
DSEXSFP1GETR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF	\$299.08
EQ000239A01SC	Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF. One SFP is needed for the CBSD and another one is needed for the switch.	\$9,069.23
	ADD Juniper Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module	
	Juniper EX4300-48MP SWITCH BNDL W/ RED 1400W PSU, 2 US PWRCRDS, 24XPERP 1G 24X100M/1G/2 5G/5G/10G COPPER	
	Includes 1 EX4300-48MP switch with NA power cord and redundant 1400W PSU with power cord. Includes Juniper Enhanced Limited Lifetime Warranty. Base 48-port Switch. POE++ Capable. Note Copper connections must be within 100m else ethernet extenders and POE extenders (if POE is used within the deployment) must be incorporated.	
SELECT OPTIONAL ACCESSORIES		
DSJPSU1400ACAFOSC	ADD Juniper EX4300-MP 1400W AC Power Supply	\$830.77
	Expansion PSU allows for redundant PSU capability. Power cord must be ordered separately; see DSCBWPWR15MHTUS below.	
DSCBWPWR15MHTUSSC	ADD Juniper AC power cable, U.S. for EX4300-48MP Switch	\$74.77
DSEXUM45FPMPMRS	ADD Juniper EX4300MP 4-port 1GbE/10GbE SFP+ Uplink Module - required for Fiber connections	\$1,102.15
DSEXSFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF	\$793.38
	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF. One SFP is needed for the CBSD and another one is needed for the switch.	
DSEXSFP1GESXR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF	\$397.38
	Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF. One SFP is needed for the CBSD and another one is needed for the switch.	

CABLE AND CONNECTOR OPTIONS

MODEL	DESCRIPTION	MSRP
DSIGEXSFP10GEDAC1MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 1M	\$116.31
DSIGEXSFP10GEDAC3MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 3M	\$162.00
DSIGEXSFP10GEDAC5MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 5M	\$200.77
DSIGEXSFP10GEDAC7MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 7M	\$231.23
DSEXSFP1GETR20SC	ADD Juniper Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module	\$299.08
DSIGEXSFP10GESRSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) SR OPTICS	\$1,156.15
DSIGEXSFP10GELRSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) LRM OPTICS	\$1,348.62
DSIGEXSFP10GEURSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ULTRA SHORT REACH	\$578.77
DSIGEXSFP10GEZSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ZR OPTICS	\$10,782.00
DSIGEXSFP10GEERS	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ER OPTICS	\$7,701.23
DSIGEXSFP10GELRS	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) LR OPTICS	\$3,080.77
DSQFXQSFPDAC1MSC	ADD QSFP+ TO QSFP+ ETH CABLE 1M DIRECT ATTACH COPPER	\$231.23
DSLGC220ASC	ADD MEDIA CONVERTER 10GBPS ETHERNET	\$1,009.38

FIBER OPTIC CABLING OPTIONS

MODEL	DESCRIPTION	MSRP
DS943980541075SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 7.5M	\$113.54
DS9439805410015SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 15M	\$154.04
DS9439805410030SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 30M	\$235.38
DS9439805410050SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 50M	\$343.73
DS9439805410075SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 75M	\$479.08
DS9439805410100SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 100M	\$614.77
DS9439805410150SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 150M	\$886.15
DS9439805410200SC	ADD JUMPER, LC(PC/D), 62.5/125 INDOOR/OUTDOOR, 200M	\$1,156.15
DS942984731075SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 7.5M	\$357.92
DS9429847310015SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 15M	\$382.85
DS9429847310030SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 30M	\$436.15
DS9429847310050SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 50M	\$499.85
DS9429847310075SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 75M	\$582.92
DS9429847310100SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 100M	\$666.35
DS9429847310150SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 150M	\$833.54
DS9429847310200SC	ADD JUMPER, IP-FX - LC(U)PC(D) G.657 OFNR/LSZH, IO, 200M	\$1,000.04

NITRO USER EQUIPMENT
NITRO SIMS

MODEL	DESCRIPTION	MSRP
HKR2116ASC	Nitro SIM Card (10-Pack)	\$138.46
	- Includes Qty 10 of the Singleton Triple-SIM (2FF, 3FF, 4FF)	

NITRO USER EQUIPMENT

MODEL	DESCRIPTION	MSRP
DS1104331SC	SIERRA WIRELESS RV55 Wifi LTE PRO CAT 12: Education - This device can only be used for NITRO Education Deployments - Includes 1 Yr ALMS Remote Management Support and HW warranty - AC Power Adapter, Cellular Paddle Antennas, and Wifi Paddle Antennas must be ordered with this unit.	\$553.85
DS6001111ESC	ADD Paddle Antenna Wifi only: Education Qty 2 Required per RV55 PRO CAT 12 unit	\$12.12
DS60011110ESC	ADD Paddle Antenna Cellular only: Education Qty 2 Required per RV55 PRO CAT 12 unit	\$12.12
DS200579ESC	ADD AC Power Adapter: Education	\$20.77
DQSIERRA9010279SC	ADD 1 Yr Extension option ALC (includes ALMS, Support and HW warranty up to 5 yrs Optional Service Support to extend ALMS Remote Management Support and HW Warranty. Order Qty is tied to desired number of years for extended support.	\$69.23
DS1104331SC	SIERRA WIRELESS RV55 Wifi LTE PRO CAT 12: Enterprise - This device can be used for NITRO Deployments outside of Education - Includes 1 Yr ALMS Remote Management Support and HW warranty - AC Power Adapter, Cellular Paddle Antennas, and Wifi Paddle Antennas must be ordered with this unit.	\$851.54
DS6001111ESC	ADD Paddle Antenna Wifi only: Enterprise Qty 2 Required per RV55 PRO CAT 12 unit	\$14.54
DS60011110ESC	ADD Paddle Antenna Cellular only: Enterprise Qty 2 Required per RV55 PRO CAT 12 unit	\$14.54
DS200579ESC	ADD AC Power Adapter: Enterprise	\$24.92
DQSIERRA9010279SC	ADD 1 Yr Extension option ALC (includes ALMS, Support and HW warranty up to 5 yrs Optional Service Support to extend ALMS Remote Management Support and HW Warranty. Order Qty is tied to desired number of years for extended support.	\$69.23
DSTX01050007CNE5C	CRADLEPOINT R500 W/1 YEAR NETCLOUD REMOTE MANAGEMENT: EDUCATION - This device can only be used for NITRO Education Deployments - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$623.08
DSTX03050007CNE5C	CRADLEPOINT R500 W/3 YEAR NETCLOUD REMOTE MANAGEMENT: EDUCATION - This device can only be used for NITRO Education Deployments - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$760.15
DSTX03050007CN5SC	CRADLEPOINT R500 W/3 YEAR NETCLOUD REMOTE MANAGEMENT: ENTERPRISE - This device can be used for NITRO Deployments outside of Education - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$821.08
DSTX05050007CN5SC	CRADLEPOINT R500 W/5 YEAR NETCLOUD REMOTE MANAGEMENT: ENTERPRISE - This device can be used for NITRO Deployments outside of Education - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$1,024.62
EQ000246A01SC	MULTITECH LTE CBRS CELL-ETH BRIDGE INT V2, US ACCESSORY KIT INCLUDED - Includes power supply and all antennas - Can be used for all deployment types - Unit does not have Wifi capability. CBRS/Ethernet Bridge only. - Can be paired with the TP-Link Archer A5 Wireless Router to add Wifi	\$546.92
DSARCHERA5SC	TP-LINK ARCHER A5 WIRELESS ROUTER W	\$67.87

NITRO DATA PLANS



Updated Pricing for contract 4400016317 as of January 2022

MODEL	DESCRIPTION	MSRP
SWV03S0223AUM10SC	1 YR MSI Device Unlimited Data 0-100 Devices	\$182.77
SWV03S0223AUJ10SC	1 YR 3rd Party Unlimited Data 0-100 Devices	\$199.38
SWV03S0223AUM11SC	1 YR MSI Device Unlimited Data 101-500 Devices	\$149.54
SWV03S0223AUJ11SC	1 YR 3rd Party Unlimited Data 101-500 Devices	\$166.15
SWV03S0223AUM12SC	1 YR MSI Device Unlimited Data 501+ Devices	\$121.79
SWV03S0223AUJ12SC	1 YR 3rd Party Unlimited Data 501+ Devices	\$138.41
SWV03S0223AUM20SC	2 YR MSI Device Unlimited Data 0-100 Devices	\$365.54
SWV03S0223AUJ20SC	2 YR 3rd Party Unlimited Data 0-100 Devices	\$398.77
SWV03S0223AUM21SC	2 YR MSI Device Unlimited Data 101-500 Devices	\$299.08
SWV03S0223AUJ21SC	2 YR 3rd Party Unlimited Data 101-500 Devices	\$332.31
SWV03S0223AMU22SC	2 YR MSI Device Unlimited Data 501+ Devices	\$243.58
SWV03S0223AUJ22SC	2 YR 3rd Party Unlimited Data 501+ Devices	\$276.81
SWV03S0223AUM50SC	5 YR MSI Device Unlimited Data 0-100 Devices	\$913.85
SWV03S0223AUJ50SC	5 YR 3rd Party Unlimited Data 0-100 Devices	\$996.92
SWV03S0223AUM51SC	5 YR MSI Device Unlimited Data 101-500 Devices	\$747.69
SWV03S0223AUJ51SC	5 YR 3rd Party Unlimited Data 101-500 Devices	\$830.77
SWV03S0223AUM52SC	5 YR MSI Device Unlimited Data 501+ Devices	\$608.95
SWV03S0223AUJ52SC	5 YR 3rd Party Unlimited Data 501+ Devices	\$692.03
SWV03S0223ABM10SC	1 YR MSI Device Basic Data 0-100 Devices	\$182.77
SWV03S0223ABJ10SC	1 YR 3rd Party Basic Data 0-100 Devices	\$199.38
SWV03S0223ABM11SC	1 YR MSI Device Basic Data 101-500 Devices	\$149.54
SWV03S0223ABJ11SC	1 YR 3rd Party Basic Data 101-500 Devices	\$166.15
SWV03S0223ABM12SC	1 YR MSI Device Basic Data 501+ Devices	\$121.79
SWV03S0223ABJ12SC	1 YR 3rd Party Basic Data 501+ Devices	\$138.41
SWV03S0223ABM20SC	2 YR MSI Device Basic Data 0-100 Devices	\$365.54
SWV03S0223ABJ20SC	2 YR 3rd Party Basic Data 0-100 Devices	\$398.77
SWV03S0223ABM21SC	2 YR MSI Device Basic Data 101-500 Devices	\$299.08
SWV03S0223ABJ21SC	2 YR 3rd Party Basic Data 101-500 Devices	\$332.31
SWV03S0223ABM22SC	2 YR MSI Device Basic Data 501+ Devices	\$243.58
SWV03S0223ABJ22SC	2 YR 3rd Party Basic Data 501+ Devices	\$276.81
SWV03S0223ABM50SC	5 YR MSI Device Basic Data 0-100 Devices	\$913.85
SWV03S0223ABJ50SC	5 YR 3rd Party Basic Data 0-100 Devices	\$996.92
SWV03S0223ABM51SC	5 YR MSI Device Basic Data 101-500 Devices	\$747.69
SWV03S0223ABJ51SC	5 YR 3rd Party Basic Data 101-500 Devices	\$830.77
SWV03S0223ABM52SC	5 YR MSI Device Unlimited Basic 501+ Devices	\$608.95
SWV03S0223ABJ52SC	5 YR 3rd Party Basic Data 501+ Devices	\$692.03

NITRO MSI DEVICES

NITRO EVOLVE PORTABLE - 3.5 GHz Band OnGo

MODEL	DESCRIPTION	MSRP
HK2136ASC	EVOLVE SMART HANDHELD WITH STANDARD BATTERY	\$1,383.00
HK2156ASC	EVOLVE SMART HANDHELD WITH HIGH CAPACITY BATTERY	\$1,494.00
QA07787AAC	ADD NITRO SIM CARD	\$0.00
	* SIM CARD OPTION ONLY REQUIRED FOR OPERATION ON NITRO CBRS NETWORKS	
	Must Select One:	
	EVOLVE portables require purchase of either Standard Essential 3-Year Software and Repair option covering parts and labor warranty or Essential with Accidental Damage to add coverage for accidental breakage and liquid damage.	
STDESS0845AASC	ADD 3 Year Essential Service	\$58.33
QA08142AASC	ADD ENH: 3Y ESSENTIAL W ACCIDENT DAMAGE	\$88.33
	Wave PTT Service	
	EVOLVE supports Wave PTT services. Basic PTT is provided by the Collaboration package. If advanced features such as Emergency call or support of large talk groups (i.e. greater than 250) are desired, select the Safeguard package.	
WV001SC	ADD Collaboration	\$11.08
WV002SC	ADD Safeguard	\$27.69
	EVOLVE OPTIONAL ACCESSORIES	
BT000592A01SC	BATT LION 2900T	\$110.77
BT000593A01SC	BATT LION TIA4950 5800T	\$221.54
PS000150A11SC	WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,US/JP	\$34.62
HKLN5001ASC	COVER-DOOR,COVER-DOOR,BATTERY STD 2900 MAH	\$33.23
HKLN5002ASC	COVER-DOOR,COVER-DOOR,BATTERY HIGH CAP 5800 MAH	\$33.23
PMLN8254ASC	CARRY ACCESSORY-PLASTIC CARRY HOLSTER WITH 3" BELT CLIP	\$49.85
PMNNA4125BSC	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE	\$168.92
PMNNA4127ASC	AUDIO ACCESSORY-OPERATIONAL CRITICAL WIRELESS REMOTE SPEAKER MIC WM500	\$267.23
PMLN8123ASC	EP910W OPERATIONAL CRITICAL WIRELESS EARPIECE PTT	\$103.85
PMLN8191ASC	AUDIO ACCESSORY-EARPIECE,1-WIRE ENH CLEAR TUBE EARPIECE, 2.5MM SINGLE PIN, ANGLED	\$69.23
PMPN4169ASC	CHGR VEHICULAR ADAPTER VPA	\$90.00
PMLN7965BSC	3" BELT CLIP	\$16.62
NTN8266BSC	BELT CLIP KIT (2.5")	\$16.62
PMLN8092ASC	ACCESSORY KIT,ACOUSTIC TUBE WITH RUBBER EARBUD, REPLACEMENT KIT	\$16.62

SLN 1000 Portable - 3.5 GHz Band OnGo

MODEL	DESCRIPTION	MSRP
HK2120ASC	SLN 1000 TWO-WAY RADIO	\$807.00
QA07787AACSC	ADD NITRO SIM CARD	\$0.00
	* SIM CARD OPTION ONLY REQUIRED FOR OPERATION ON NITRO CBRS NETWORKS	
	Must Select One	
	SLN 1000 provide 3 year Essential Service covering parts and labor warranty at no charge. Additional Accidental Damage to add coverage for accidental breakage and liquid damage is a required option.	
STDESS0845AASC	3 Year Essential Service	\$0.00
QA08142AASC	ADD ENH: 3Y ESSENTIAL W ACCIDENT DAMAGE	\$145.38
	Wave PTT Service	
	SLN 1000 supports Wave PTT services. Basic PTT is provided by the Collaboration package. If advanced features such as Emergency call or support of large talk groups (i.e. greater than 250) are desired, select the Safeguard package.	
WV001SC	ADD Collaboration	\$11.08
WV002SC	ADD Safeguard	\$27.69
	SLN1000 OPTIONAL ACCESSORIES	
HKAN4004ASC	Stubby LTE Antenna	\$35.58
PMNNA4578ASC	Li-Ion 2500T Battery	\$91.38
PMLN7932ASC	Swivel Carry Holster	\$17.31
PMLN7128ASC	Belt Clip (Heavy-Duty)	\$15.92
PMLN6074ASC	Nylon Wrist Strap	\$12.46

Updated Pricing for contract 4400016317 as of January 2022

PS000150A11SC	Level 6 Micro USB Wall Charger	\$34.62
PMLN7101ASC	MUC Charger US/NA	\$311.54
PMLN7109ASC	SUC Charger US/NA	\$62.31
PMLN7189ASC	Swivel Earpiece, In-Line Mic & PTT	\$40.15
PMLN7156ASC	Earbud with In-Line Mic/PTT, Mag One	\$27.69
PMLN7157ASC	2-Wire with Translucent Tube, Black	\$59.54
PMLN7158ASC	One-Wire Surveillance Earpiece, In-Line Mic & PTT	\$55.38
PMLN7159ASC	Adjustable D-Style Earpiece, In-Line Mic & PTT	\$59.54
HKLN4679ASC	Battery Door	\$48.46
5080384F72SC	Replacement Foam Plug-Ins	\$161.31
RLN6242ASC	Quick Disconnect Acoustic Tube	\$10.94
RLN6282SC	Replacement Ear Tips, Pack of 50	\$62.65

NS-1
Main Model

Description	Nomenclature	Price
NS-1	FDKT00460	\$35,000

PUBLIC SAFETY LTE OPERATIONS SUPPORT PLATFORM 'OSP'
Models

(Common Models only shown once)

OSP:

Description	Full Description	Nomenclature	APC	Price
SUPERMODEL FOR OSP BSR 4.0	-	SQM01SUM0264D	56	\$0.00
STANDARD OSP FOR BSR4.0	-	CA03313AB	56	\$116,100.00
FM/PM (MEDIATION - 500ENB, 100K users)	-	CA02590AA	56	\$227,500.00
ADD: FM/PM (UX - 500 ENB, 100K USERS)	-	CA02624AA	56	\$325,000.00
LICENSE BUNDLE 1 ENB	-	CA02603AA	56	\$950.00
ADD: LTE PERF MGMT TOOLKIT LICENSE	-	CA03403AA	56	\$150.00
ADD: LOG MGMT BUNDLE, 5GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA02704AA	56	\$75,000.00
ADD: LOG MGMT BUNDLE, 10GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA02705AA	56	\$100,000.00
ADD: LOG MGMT BUNDLE, 20GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03393AA	56	\$150,000.00
ADD: LOG MGMT BUNDLE, 50GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03394AA	56	\$300,000.00
ADD: LOG MGMT BUNDLE, 100GB SRVR, SYSDEF, WIN AGENTS, 500 ENB	-	CA03399AA	56	\$525,000.00
ADD: LOG MGMT WINDOWS AGENT	-	CA02706AA	56	\$410.00
ADD: LOG MGMT LINUX AGENT	-	CA03442AA	56	\$410.00
ADD: UPM, LTE SYSTEM LICENSE	-	UA00189AA	56	\$50,000.00
ADD: 1000-49999 LTE SUB LICENSE	-	UA00190AA	56	\$4.00
ADD: 50000-99999 LTE SUB LICENSE	-	UA00191AA	56	\$3.00
ADD: 1000-49999 IMS SUB LICENSE	-	UA00195AA	56	\$2.00
ADD: 50000-99999 IMS SUB LICENSE	-	UA00196AA	56	\$1.50

Supermodel for Redundant OSP:

Description	Full Description	Nomenclature	APC	Price
SUPERMODEL FOR REDUNDANT OSP BSR 4.0	-	SQM01SUM0293D	56	\$0.00
ADD: REDUNDANT FM/PM (MEDIATION - 500ENB, 100K USERS)	-	CA02394AA	56	\$113,750.00
ADD: REDUNDANT FM/PM (UX - 500ENB, 100K USERS)	-	CA02394AA	56	\$162,500.00
ADD: REDUNDANT LIC BNDL 1 ENB	-	CA02949AA	56	\$0.00
ADD: LTE PERF MGMT TOOLKIT LICENSE REDUNDANT	-	CA03404AA	56	\$75.00
ADD: UPM, REDUNDANT LTE SYSTEM LICENSE	-	UA00265AA	56	\$50,000.00
ADD: 1000-49999 LTE SUB LICENSE REDUND	-	UA00266AA	56	\$0.00
ADD: 50000-99999 LTE SUB LICENSE REDUND	-	UA00267AA	56	\$0.00
ADD: 1000-49999 IMS SUB LICENSE REDUND	-	UA00271AA	56	\$0.00
ADD: 50000-99999 IMS SUB LICENSE REDUND	-	UA00272AA	56	\$0.00

Backup and Restore (BAR):

Description	Full Description	Nomenclature	APC	Price
ADD: LTE BAR FEATURE LICENSE FOR PRIMARY NODE	-	UA00491AA	56	\$75,000.00
ADD: LTE BAR FEATURE LICENSE FOR REDUNDANT NODE	-	UA00492AA	56	\$0.00
ADD: INCREMENTAL TIER 1 LICENSE FOR THE PRIMARY NODE MIN 1 MAX 10	-	UA00493AA	56	\$2,000.00
ADD: INCREMENTAL TIER 2 LICENSE PRIMARY NODE MIN 11 MAX 45	-	UA00494AA	56	\$1,600.00
ADD: INCREMENTAL TIER 1 LICENSE SECONDARY NODE MIN 1 MAX 10	-	UA00495AA	56	\$1,000.00
ADD: TIER 6	-	UA00496AA	56	\$800.00
QNAP 2U 8-BAY NAS, RYZEN 5 2600 6-CORE	-	TT3548	56	\$5,519.00
WD RED PRO 4TB SATA, 3.5INCH, 256MB	-	DDN2830	56	\$510.00
QNAP RAIL KIT FOR 2U RACKMOUNT MODE	-	DDN2831	56	\$176.00

OSP & UPM Capacity Expansion:

Description	Full Description	Nomenclature	APC	Price
SUB PROV MGR	-	T8163	56	\$0.00
OSP SOFTWARE LICENSE KIT	-	T8030	56	\$0.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 10GB	-	CA02707AA	56	\$25,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 20GB	-	CA03400AA	56	\$75,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 50GB	-	CA03401AA	56	\$225,000.00
ADD: UPGRADE, LOG MGMT SRVR, 5GB TO 100GB	-	CA03402AA	56	\$450,000.00

OSP Optional Features:

Description	Full Description	Nomenclature	APC	Price
LTE R11 FAULT MGT TOOLKIT	-	T8406	56	\$0.00
LTE ELEMENT MGMT TOOLKIT	-	T8294	56	\$0.00
ADD: LTE ELEMENT MGMT TOOLKIT AP LI	-	UA00260AA	56	\$100.00
ADD: LTE FAULT MGT TOOLKIT LICENSE REDUNDANT	-	UA00504AA	56	\$50.00
LTE CORRELATION ENGINE	-	T8395	56	\$0.00
ADD: LTE CORRELATION ENGINE LICENSE	-	UA00490AA	56	\$5,000.00
ADD: LTE CORRELATION ENGINE LICENSE REDUNDANT	-	UA00505AA	56	\$2,500.00

OSP Software Release Kits:

Description	Full Description	Nomenclature	APC	Price
OSP R9 TO R11 SOFTWARE UPGRADE KIT	-	T8393B	56	\$0.00
OSP APPLICATION SOFTWARE R11.3	-	CVN7126	56	\$0.00
OSP R11.3 REPLACEMENT SW MEDIA KIT	-	T8607B	56	\$100.00
OSP BSR4.0 REPLACEMENT SW MEDIA KIT	-	T8607D	56	\$100.00
UEM-R9.0 SUPPLEMENTAL	-	CVN7215	56	\$0.00
UEM-R11.2 SUPPLEMENTAL	-	CVN7216	56	\$0.00
UEM-R11.3 SUPPLEMENTAL	-	CVN7217	56	\$0.00
OSP MEMORY UPGRADE KIT	-	TT3561	56	\$34,622.00
BSR 4.3 OSP AND SNARE AGENT UPGRADE KIT	-	T8393D	56	\$27,500.00

UPM Optional Features:

Description	Full Description	Nomenclature	APC	Price
UPM INTERFACE	-	T8296	56	\$0.00
ADD: UPM LICENSE	-	UA00263AA	56	\$25,000.00

Spares
OSP Server FRU:

Description	Full Description	Nomenclature	APC	Price
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	AC Power Supply	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
DL380 G9 POWER SUPPLY DC	DC Power Supply	DLN7023	56	\$698.00

OSP Aux Server FRU (for pre-BSR 2.0 OSP):

Description	Full Description	Nomenclature	APC	Price
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00

DotHill 4524 FRU:

Description	Full Description	Nomenclature	APC	Price
DAS POWER SUPPLY	-	DLN6867	280	\$665.00



Updated Pricing for contract 4400016317 as of January 2022

Part Number	Description	Quantity	Unit Price	Total Price
DAS POWER SUPPLY DC	DC Power Supply	56	\$765.00	
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	877	\$8,459.00	
FRU: DH SHARED STORAGE SFF DISK - 1.2TB	-	56	\$1,690.00	

Operations Support System: Evolved Network Management (ENM)

SINGLE NODE ENM:

For a new system purchase, order the following items:

HARDWARE:

Description	Full Description	Nomenclature	APC	Price
ENM HW	-	DDN2551	53	\$447,240.00

GENERAL SW:

General SW, consisting of Cloud and Backup server SW and licenses. Order Quantity 1 per ENM system for each of the below.

Description	Full Description	Nomenclature	APC	Price
CLOUD SW AND LICENSES	-	DDN2552	53	\$68,960.00
BACKUP SERVER SW AND LICENCES	-	DDN2553	53	\$47,060.00

FEATURES:

Description	Full Description	Nomenclature	APC	Price
EPC SUPPORT	-	DDN2554	53	\$480.00
IMS SUPPORT	-	DDN2555	53	\$850.00
ACC NTWK SUP COMB LTE BP ADV MO SCR	-	DDN2560	53	\$990.00
TRANSPORT NETWORK SUPPORT FRONTHAUL	-	DDN2561	53	\$530.00
TRANSPORT NETWORK SUPPORT MICROWAVE	-	DDN2562	53	\$100.00
TRANSPORT NETWORK SUPPORT ROUTER 60	-	DDN2563	53	\$90.00
TRANSPORT NETWORK SUPPORT BASEBANDT	-	DDN2565	53	\$90.00
SOUTH BOUND INTERFACE - NEW NODE	-	DDN2566	53	\$2,660.00

PDR8000

Model	Description	Full Description	Nomenclature	APC	Price
	PDR 8000 - VHF	-	TT3148	482	\$14,850.00
	PDR 8000 - UHF 380-430	-	TT3149	482	\$14,850.00
	PDR 8000 - UHF 450-470	-	TT3150	482	\$14,850.00
	PDR 8000 - UHF 470-512	-	TT3151	482	\$13,500.00
	PDR 8000 - 700	-	TT3152	482	\$14,850.00

Options

Operation	Description	Full Description	Nomenclature	APC	Price
	PDR8000 V.24 WIRELINE OPERATION	-	TT06253AA	482	\$5,750.00
	ADD: DFSI CAPABILITY	-	TT06582AA	482	\$5,750.00
	PDR8000 DEPLOYMENT PROFILES CAPABILITY	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	TT06319AA	482	\$700.00

Duplexer

(One of these options, including "No Duplexer", must be chosen)

Description	Full Description	Nomenclature	APC	Price
PDR8000 NO DUPLEXER REQUIRED	-	TT06261AA	482	\$0.00
PDR8000 DUPLEXER VHF	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass.	TT06254AA	482	\$950.00
PDR8000 DUPLEXER UHF 380-430MHZ	Minimum 10MHz Tx to Rx Separation. 100kHz bandpass	TT06255AA	482	\$950.00
PDR8000 DUPLEXER UHF 380-430MHZ	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06256AA	482	\$950.00
PDR8000 DUPLEXER UHF 450-470MHZ	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06257AA	482	\$950.00
PDR8000 DUPLEXER 700MHZ	30MHz Tx to Rx Separation. 6MHz bandpass	TT06259AA	482	\$950.00
PDR8000 DUPLEXER 800MHZ	45MHz Tx to Rx Separation. 10MHz bandpass	TT06260AA	482	\$950.00

Case Colors

(One case color option must be chosen)

Description	Full Description	Nomenclature	APC	Price
PDR8000 STANDARD BLACK CASE	-	TT06281AA	482	\$0.00
PDR8000 OPTIONAL OLIVE DRAB GREEN CASE	Optional color choice. Replaces standard black case.	TT06251AA	482	\$350.00
PDR8000 OPTIONAL YELLOW CASE	Optional color choice. Replaces standard black case.	TT06252AA	482	\$350.00

Mag Mount Antennas

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA VHF	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00
UNITY GAIN ANTENNA 700/800 MHZ	-	DDN9016	571	\$286.00

Add-On Features

These items can be purchased as incremental functionality if not ordered with original model.

Description	Full Description	Nomenclature	APC	Price
PDR8000 DEPLOYMENT PROFILES CAPABILITY	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	DDN2633	482	\$800.00
PDR8000 V.24 WIRELINE OPERATION	Adds V.24 capability to fielded units.	DDN2634	482	\$7,115.00
PDR8000 DFSI CAPABILITY	Adds DFSI capability to fielded units.	DDN3285A	482	\$7,115.00

Booster Packs

Description	Full Description	Nomenclature	APC	Price
VHF PDR8000 BOOSTER PACK	-	DDN2732	482	\$11,900.00
UHF 380-430 MHZ PDR8000 BOOSTER PAC	-	DDN2733	482	\$11,900.00
UHF 450-470 MHZ PDR8000 BOOSTER PAC	-	DDN2734	482	\$11,900.00
700/800 MHZ PDR8000 BOOSTER PACK	-	DDN2735	482	\$11,900.00

Extended Warranty

Description	Full Description	Nomenclature	APC	Price
PDR8000 - 1 YEAR EXTENDED WARRANTY	-	DDN2302	482	\$170.00
PDR8000 - 4 YEAR EXTENDED WARRANTY	-	DDN2303	482	\$605.00

Spares

Description	Full Description	Nomenclature	APC	Price
PDR8000 SPARE AC POWER CABLE - 6 FT	-	DDN2300	482	\$225.00
PDR8000 SPARE DC POWER CABLE - 8 FT	-	DDN2301	482	\$295.00
SPARE PDR8000 DC CABLE (UNTERMINAT	-	DDN2332	482	\$212.00
BATTERY BACKUP FOR PDR8000	-	DDN2336	482	\$3,241.00
SPARE CHARGER FOR PDR8000 BATTERY B	-	DDN2334	482	\$800.00
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00
SPARE PDR DUPLEXER - 700	-	DDN2318	482	\$950.00
SPARE PDR DUPLEXER - VHF	-	DDN2313	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2314	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2315	482	\$950.00
SPARE PDR DUPLEXER - UHF 450-470	-	DDN2316	482	\$950.00
SPARE PDR DUPLEXER - 800	-	DDN2319	482	\$950.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	-	DDN2886	571	\$2,118.00

PMP (Point to Multi-Point) Portfolio

PMP 450 Series

Description	Full Description	Nomenclature	APC	Price
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 4 MBPS	-	DSC05045C001	904	\$301.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 20 MBPS	-	DSC05045C003	904	\$422.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, UNCAPPED	-	DSC05045C004	904	\$543.00
PMP 450 CONNECTORIZED WIDEBAND ACCESS POINT	-	DSC05045A001	904	\$3,503.00

PMP 450i Series

PMP Kits/Packs

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

SURGE SUPPRESSOR 25 BULK PK					
Accessories					
CMMs					
Description	Full Description	Nomenclature	APC	Price	
ASSY,PRD OTH,CMM4 W/RUGGEDIZED SW AND GPS	-	DS1090CKBA	904	\$4,415.00	
CMM4 NO SWITCH	-	DS1091AA	904	\$2,376.00	
ASSEMBLY,CMM4 RACK MOUNT ASSEMBLY	-	DS1092AA	904	\$1,800.00	
Power Supplies					
Antennas					
Description	Full Description	Nomenclature	APC	Price	
ANT,ANT,GPS ANT,W/O MT	-	DSGPSANTPNM03D	904	\$200.00	
5 GHZ - 90 DEG SECTOR ANTENNA	-	DS85009324001	904	\$785.00	
Mounting Brackets					
Description	Full Description	Nomenclature	APC	Price	
ASSY,KIT,UNIV MTG KIT	-	DSMMB1A	904	\$53.00	
ASSY,ASSY,UNIV MTG BRKT-HEAVY DUTY	-	DSMMB2A	904	\$75.00	
Miscellaneous					
Description	Full Description	Nomenclature	APC	Price	
ASSY,SRG PROT,SURGE SUPR FOR CMM PWR SPLY	-	DS200SSB	904	\$35.00	
SURGE PROTECTOR	-	DS600SSD	904	\$46.00	
SURGE SUPPRESSOR 25 BULK PK	-	DSHK1948A	904	\$853.00	
ASSY,ASSY,ALIGN TOOL HSET	-	DSACATHS-01A	904	\$55.00	
Wireless Manager Software MODELS					
Wireless Manager 4.0					
Description	Full Description	Nomenclature	APC	Price	
WIRELESS MANAGER 4.0, INCLUDES 10 NODE LICENSES	-	DSC000000L056	904	\$220.00	
WM 4.0 NODE LICENSE, QTY = 1	-	DSC000000L057	904	\$55.00	
WIRELESS MANAGER 4.0, HA, INCLUDES 10 NODE LICENSES	-	DSC000000L061	904	\$330.00	
WM 4.0 NODE LICENSE, HA, QTY = 1	-	DSC000000L062	904	\$77.00	

Policy and Charging Rules Function (PCRF)					
Description	Full Description	Nomenclature	APC	Price	
PCRF HW/SW 5K IP SESSIONS	-	DDN1834	54	\$210,710.00	
SAPC HW/SW 10K IP SESSIONS	-	DDN1835	54	\$262,920.00	
PCRF HW/SW 25K IP SESSIONS	-	DDN1836	54	\$339,790.00	
PCRF HW/SW 50K IP SESSIONS	-	DDN1837	54	\$462,130.00	
PCRF HW/SW 100K IP SESSIONS	-	DDN1838	54	\$679,100.00	
PCRF HW/SW 250K IP SESSIONS	-	DDN1839	54	\$1,298,580.00	
PCRF HW/SW 500K IP SESSIONS	-	DDN1840	54	\$2,163,980.00	
PCRF HW/SW 1M IP SESSIONS	-	DDN1841	54	\$3,616,580.00	
Existing System Capacity Expansion Guidelines					
Description	Full Description	Nomenclature	APC	Price	
PCRF HW/SW FROM 5K TO 10K IP SESSIONS	-	DDN1842	54	\$57,440.00	
PCRF HW/SW FROM 10K TO 25K IP SESSIONS	-	DDN1843	54	\$84,560.00	
PCRF HW/SW FROM 25K TO 50K IP SESSIONS	-	DDN1844	54	\$134,590.00	
PCRF HW/SW FROM 50K TO 100K IP SESSIONS	-	DDN1845	54	\$238,670.00	
PCRF HW/SW FROM 100K TO 150K IP SESSIONS	-	DDN1846	54	\$271,820.00	
PCRF HW/SW FROM 150K TO 250K IP SESSIONS	-	DDN1847	54	\$406,300.00	
PCRF HW/SW FROM 250K TO 350K IP SESSIONS	-	DDN1848	54	\$419,330.00	
PCRF HW/SW FROM 350K TO 500K IP SESSIONS	-	DDN1849	54	\$531,320.00	
PCRF HW/SW FROM 500K TO 750K IP SESSIONS	-	DDN1850	54	\$820,650.00	
PCRF HW/SW FROM 750K TO 1M IP SESSIONS	-	DDN1851	54	\$772,400.00	
Spares					
Description	Full Description	Nomenclature	APC	Price	
DUST FILTER UNIT FOR BFD 538	-	DDN1863	54	\$1,010.00	
GEP3-24GB NODE MANAGEMENT/APPLICATION LOADER	-	DDN1864	54	\$26,244.00	
GEP3-HD600 IO PROCESSOR	-	DDN1865	54	\$31,588.00	
PFM LOD POWER AND FAN MODULE	-	DDN1866	54	\$3,502.00	
SCXB2 SWITCH BOARD	-	DDN1867	54	\$9,956.00	

PREMIERONE® SUITE - PUBLIC SAFETY APPLICATIONS

Configuration					
Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE COMMON SERVICES LICENSES	-	T8149	513	\$0.00	
Common Services License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE QUERY SERVICE SERVER LICENSE	-	CA02712AA	513	\$60,000.00	
ADD: PREMIERONE GIS EDITING CLIENT PLUG-IN LICENSE	-	CA02715AA	513	\$18,000.00	
ADD: PREMIERONE MAPPING SERVER LICENSE	-	CA02716AA	513	\$24,000.00	
ADD: PREMIERONE CAD & MOBILE REPORTING SERVICE SERVER LICENSE	-	CA02717AA	513	\$24,000.00	
ADD: PREMIERONE RECORDS REPORTING SERVICE SERVER LICENSE	-	CA02718AA	226	\$20,000.00	
ADD: PREMIERONE RTVI INTEGRATION	-	CA02719AA	513	\$20,000.00	
PremierOne CAD Licenses					
Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE CAD LICENSES	-	T8150	513	\$0.00	
Server License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE CAD SERVER LICENSE (PRIMARY)	-	CA02721AA	513	\$180,000.00	
ADD: PREMIERONE CAD SERVER LICENSE (DR BACKUP SITE)	-	CA02722AA	513	\$90,000.00	
ADD: CAD TO CAD INTERFACE	-	CA02723AA	513	\$50,000.00	
ADD: CAD TO CAD API	-	CA02724AA	513	\$50,000.00	
ADD: PREMIERONE AVL VEHICLE TRACKING MODULE LICENSE	-	CA02725AA	513	\$84,000.00	
ADD: ARL VEHICLE AND RESPONDER LOCATION TRACKING MODULE LICENSE	-	CA02726AA	513	\$120,000.00	
ADD: FSA INTERFACE LICENSE	-	CA02727AA	513	\$25,000.00	
ADD: PERSONNEL API	-	CA02904AA	513	\$35,000.00	
ADD: ROLL CALL API	-	CA02905AA	513	\$35,000.00	
ADD: PERSONNEL AND ROLL CALL API	-	CA02906AA	513	\$50,000.00	
ADD: PREMIERONE CAD TO 3RD PARTY MOBILE API	-	CA02955AA	513	\$50,000.00	
Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.00	
ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.00	
ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$2,000.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.00	
ADD: PREMIERONE ENTERPRISE SITE LICENSE FOR CAD CLIENT USAGE	-	CA03245AA	513	\$1.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING/PER CONCUR USER	-	CA03257AA	513	\$1,200.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING/50 CONCUR USERS	-	CA03259AA	513	\$50,000.00	
NG 9-1-1 Call Control License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR VOICE	-	CA02733AA	513	\$10,000.00	
ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR TEXT	-	CA02734AA	513	\$1,000.00	
ADD: PREMIERONE NG9-1-1 CALL CONTROL INTERFACE LICENSE-INTRADO	-	CA02735AA	513	\$5,995.00	
ADD: PREMIERONE NG911 CONVERTIBLE CALL CONTROL INTERFACE LIC-INTRADO	-	CA02737AA	513	\$7,995.00	
PremierOne Mobile and Handheld Licenses					
Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE MOBILE AND HANDHELD LICENSES	-	T8170	513	\$0.00	



Updated Pricing for contract 4400016317 as of January 2022

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE MOBILE SERVER LICENSE (PRIMARY)	-	CA02738AA	513	\$50,000.0
ADD: PREMIERONE MOBILE SERVER LICENSE (DR BACKUP SITE)	-	CA02739AA	513	\$25,000.0
ADD: PREMIERONE MOBILE CLIENT API LICENSE	-	CA02740AA	513	\$50,000.0
ADD: PREMIERONE HANDHELD SERVER LICENSE	-	CA02741AA	513	\$25,000.0
ADD: PREMIERONE HANDHELD MAPPING SERVER LICENSE	-	CA02742AA	513	\$5,000.0

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD:PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING(PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.0
ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.0
ADD:PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING(PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.0
ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.0
ADD:PREMIERONE MOBILE W/MAPPING & RECORDS CLNT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.0
ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00
ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
ADD: HANDHELD FOR ANDROID QUERY/MESSAGING CLIENT LIC(CONCUR USER)	-	CA03216AA	513	\$555.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.0
ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC(CONCUR USER)	-	CA03218AA	513	\$1,070.0
ADD: PREMIERONE ENT SITE LIC FOR MOBILE/HANDHELD CLIENT USAGE	-	CA03244AA	513	\$1.00
ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03398AA	513	\$1,270.0
ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00

PremierOne Records Licenses

Description	Full Description	Nomenclature	APC	Price
PREMIERONE RECORDS LICENSES	-	T8171	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS TIER 3 SERVER LICENSE (1 TO 50 USERS)	-	CA02752AA	226	\$80,000.0
ADD: PREMIERONE RECORDS TIER 2 SERVER LICENSE (51 TO 500 USERS)	-	CA02753AA	516	\$120,000.0
ADD: PREMIERONE RECORDS TIER 1 SERVER LICENSE (501 TO 1000 USERS)	-	CA02754AA	226	\$180,000.0
ADD: PREMIERONE RECORDS TIER 0 SERVER LICENSE (1001+ USERS)	-	CA02755AA	226	\$240,000.0
ADD: PROPERTY AND EVIDENCE MANAGER LICENSE	-	CA02756AA	516	\$50,000.0
ADD: PREMIERONE RECORDS STANDARD API LICENSE	-	CA02757AA	513	\$50,000.0
ADD: PREMIERONE JAIL MODULES LICENSE	-	CA02758AA	513	\$50,000.0
ADD: PREMIERONE RECORDS DATA CONVERT ON DEMAND SOFTWARE LICENSE	-	CA02893AA	513	\$80,000.0

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.0
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.0
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00
ADD: PREMIERONE ENTERPRISE SITE LICENSE FOR RECORDS CLIENT USAGE	-	CA03246AA	513	\$1.00

Premier Mobile Data Computing (PMDC)

Premier Mobile Data Computing (PMDC) Licenses

Description	Full Description	Nomenclature	APC	Price
PREMIER MOBILE DATA COMPUTING (PMDC) LICENSES	-	T8151	513	\$0.00

Server License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC SERVER LICENSE (1-50 UNITS)	-	CA02689AA	513	\$48,000.0
ADD: PREMIER MDC SERVER LICENSE (51-100 UNITS)	-	CA02762AA	513	\$60,000.0
ADD: PREMIER MDC SERVER LICENSE (101-500 UNITS)	-	CA02763AA	513	\$80,000.0
ADD: PREMIER MDC SERVER LICENSE (501-1000 UNITS)	-	CA02764AA	513	\$115,000.0
ADD: PREMIER MDC SERVER LICENSE (1001+ UNITS)	-	CA02765AA	513	\$215,000.0
ADD: PMDC CLIENT API TO 3RD PARTY CLIENT APPLICATION LICENSE	-	CA02766AA	513	\$10,000.0
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (50 TO 100 UNITS)	-	CA02767AA	513	\$12,000.0
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (100 TO 500 UNITS)	-	CA02768AA	513	\$20,000.0
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (500 TO 1000 UNITS)	-	CA02769AA	513	\$35,000.0
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE(1000 TO 1000+ UNITS)	-	CA02770AA	513	\$100,000.0

Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.0
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00

ATM Mobile (ATMM) License Options

Description	Full Description	Nomenclature	APC	Price
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00
ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00

PremierOne CAD Client Licenses (Add-on)

Select T8180 (Qty:1) and add CA-options (Qty: as needed) per your requirements:

Description	Full Description	Nomenclature	APC	Price
PREMIERONE CAD CLIENT LICENSES (ADD-ON)	-	T8180	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.0
ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.0
ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$20,000.0
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.0
ADD:PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(PER CONCUR USER)	-	CA03257AA	513	\$1,200.0
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(50 CONCUR USERS)	-	CA03259AA	513	\$50,000.0

Premier Mobile Data Computing (PMDC) Client Licenses (Add-on)

Description	Full Description	Nomenclature	APC	Price
PREMIER MOBILE DATA COMPUTING (PMDC) CLIENT LICENSES (ADD-ON)	-	T8152	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.0
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00

Model

PremierOne Records Client Licenses (Add-on)



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
PREMIERONE RECORDS CLIENT LICENSES (ADD-ON)	-	T8181	513	\$0.00
Add-on Client License Options				
Description	Full Description	Nomenclature	APC	Price
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.00
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.00
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00
PremierOne Mobile and Handheld Client Licenses (Add-on)				
Description	Full Description	Nomenclature	APC	Price
PREMIERONE MOBILE AND HANDHELD CLIENT LICENSES (ADD-ON)	-	T8182	513	\$0.00
Add-on Client License Options				
Description	Full Description	Nomenclature	APC	Price
ADD:PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING(PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.00
ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.00
ADD:PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING(PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.00
ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.00
ADD:PREMIERONE MOBILE W/ MAPPING & RECORDS CLINT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.00
ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00
ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
ENH: MOBILE LICENSE WITH MAPPING UPGRADE (DEVICE TO CONCUR USER)	-	CA03133AA	513	\$460.00
ENH: MOBILE LICENSE W/O MAPPING UPGRADE (DEVICE TO CONCUR USER)	-	CA03134AA	513	\$250.00
ENH: MOBILE LIC W/MAPPING & RECORDS UPGRADE (DEVICE TO CONCUR USER)	-	CA03135AA	513	\$1,000.00
ADD: HANDHELD FOR ANDROID QUERY/MESSAGING CLIENT LIC(CONCUR USER)	-	CA03216AA	513	\$555.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.00
ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC(CONCUR USER)	-	CA03218AA	513	\$1,070.00
ENH:HANDHELD FOR ANDROID QUERY/MESSAGING LIC UPG-DEVICE TO CONCUR	-	CA03223AA	513	\$130.00
ENH: HANDHELD FOR ANDROID INT SUITE LIC UPGRADE: DEVICE TO CONCUR	-	CA03224AA	513	\$295.00
ENH: HANDHELD FOR ANDROID INT SUITE W/MSI DEV LIC UPG TO CONCUR	-	CA03225AA	513	\$295.00
ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03396AA	513	\$1,270.00
ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00
ENH: HANDHELD FOR IOS INT. SUITE LIC UPGRADE (DEVICE TO CONCUR USER)	-	CA03395AA	513	\$295.00
Premier CAD Licenses (Add-on)				
Description	Full Description	Nomenclature	APC	Price
PREMIER CAD LICENSES (ADD-ON)	-	T8172	513	\$0.00
Server/Client License Options				
Description	Full Description	Nomenclature	APC	Price
ADD: PREMIER CAD WORKSTATION WITHOUT MAPPING LICENSE - CAD AND AWW	-	CA02786AA	513	\$600.00
ADD: PREMIER CAD WORKSTATION WITH MAPPING LICENSE - CAD, AWW AND ATM	-	CA02787AA	513	\$2,250.00
ADD: PREMIER Q&A CLIENT ADD-ON LICENSE	-	CA02788AA	513	\$1,400.00
ENH: PREMIERCAD WORKSTATION W/O MAPPING TO CAD WORKSTATION W/ MAPPING	-	CA02789AA	513	\$1,650.00
Open Query License Options				
Description	Full Description	Nomenclature	APC	Price
ADD: OPEN QUERY CLIENT LICENSE PER USER (1-25 WORKSTATIONS)	-	CA02790AA	513	\$400.00
ADD: OPEN QUERY CLIENT LICENSE PER USER (26-50 WORKSTATIONS)	-	CA02791AA	513	\$325.00
ADD: OPEN QUERY CLIENT LICENSE PER USER (51+ WORKSTATIONS)	-	CA02792AA	513	\$275.00
AVL License Options				
Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (51-250)	-	CA02793AA	513	\$25,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (251-500)	-	CA02794AA	513	\$35,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (501-750)	-	CA02795AA	513	\$45,000.00
ADD: ADDITIONAL DEVICE SUPPORT LICENSE (751-1000)	-	CA02796AA	513	\$55,000.00

Advanced Tactical Mapping Mobile (ATMM) Client Licenses (Add-on)

Description	Full Description	Nomenclature	APC	Price
ADVANCED TACTICAL MAPPING MOBILE (ATMM) LICENSES (ADD-ON)	-	T8183	513	\$0.00
Add-on Client License Options				
Description	Full Description	Nomenclature	APC	Price
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00
ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00
WARRANTY/MAINTENANCE SERVICES ORDERING				
Description	Full Description	Nomenclature	APC	Price
LRMS MAINTENANCE ACCEPTANCE	-	PTRLRSMMAINTACCEPT	513	\$1.00
PREMIER MDC M&S	-	SVC850PMDC	850	\$1.00
CAD MAINTENANCE ACCEPTANCE	-	PTRCADMMAINTACCEPT	513	\$1.00
Model				
Description	Full Description	Nomenclature	APC	Price
PREMIERONE MICROSOFT SYSCTRDATACR ALNG EMB 2012R2 MVL 2 PROC	-	DSP1AVSD12R2MVL	330	\$2,725.00
PREMIERONE MICROSOFT SYSCTRDATACR ALNG EMB MNTNCE 2012R2 MVL 2 PROC	-	DSP1AVSD12R2EMMVL	702	\$718.00
PREMIERONE MICROSOFT SQL SVR ENTERPRISE RUNTIME 2012 EMB 2 CORE LIC	-	DDN2214	513	\$7,173.00
PREMIERONE MICROSOFT SQL SVR ENT RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2212	513	\$1,511.00
PREMIERONE MICROSOFT SQL SVR STANDARD RUNTIME 2012 EMB 2 CORE LIC	-	DDN2215	513	\$1,888.00
PREMIERONE MICROSOFT SQL SVR STD RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2213	513	\$398.00

PremierOne Interface Annual Fees

Interface Annual Fees	APC	Annual Fee
NetClock	702	\$0
Plant Equipment/CML Vesta E911	702	\$1,800
Plant/CML Vesta TOD	702	\$1,800
Third Party Paging Device or Service (TAP)	702	\$1,800
Third Party Paging Device or Service (SMTP)	702	\$1,800
MCC 7500 Radio Console	702	\$1,800
Motorola Astro Flexible ATIA	702	\$1,800
Law RMS datafeed	702	\$1,800
Fire RMS datafeed	702	\$1,800
ProQA Medical	702	\$1,800
ProQA Fire	702	\$1,800
ProQA Law	702	\$1,800
Decon Live/MUM	702	\$1,800
CrimeView	702	\$1,800
LNK	702	\$1,800
CopLink	702	\$1,800
CryWolf False Alarm Billing Interface - Bidirectional	702	\$1,800
CAD and Mobile Bulk Provisioning	702	\$1,800
Image System Query	702	\$1,800
Legacy RMS Query	702	\$1,800
DSJ Jail Send	702	\$1,800
DSJ Jail/Picture Link Query	702	\$1,800
State/NCIC	702	\$1,800
State Query Interface Transaction Bundle	702	\$1,800
SMTP Server Interface	702	\$1,800

Private Broadband Networks

Configuration
Models

Description	Full Description	Nomenclature	APC	Price
IN-LINE FILTER WITH RJ-11 CONNECTOR.	-	65603	963	\$15.00
IN-LINE FILTER FOR "IN WALL" INSTALLATION	-	65602	963	\$15.00
T3 WIRELESS WALL PLATE	-	45010	963	\$495.00
T3 POWERBROADBAND SWITCH	-	45225	963	\$3,295.00
XLP-6824 MASTER UNIT FOR POWERBROADBAND POE. 4 UTP PORTS.	-	43114	963	\$3,995.00
XLT-401 BROADBAND SWITCH 4 10/100 PORTS, 1 UTP PORT	-	42211	963	\$2,195.00
XL68A 2-WIRE ADAPTER OPTION FOR XLP-6824 AND ALL XLT-400 SERIES SWITCH	-	42202	963	\$79.00

Customer Programming Software (CPS)
Models

Description	Full Description	Nomenclature	APC	Price
PROGAMMING ACCESS KEY (PAK) 3.5" MEDIA	-	CVN6143	647	\$750.00

**PSC 9600 Site Controller for
ASTRO® 25® Digital Trunking Solutions**
Models

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 TRUNKING SOFTWARE	-	T6931	537	\$0.00

**Options
Software Field Upgrades**

Description	Full Description	Nomenclature	APC	Price
ADD: PSC 9600 SOFTWARE UPGRADE	Purchased a subitem to T6931, the desired quantity should reflect the number of fielded PSC 9600s requiring an upgrade. Example, if there are 300 fielded PSC 9600 controllers, please order a quantity of 300 of CA00276AA.	CA00276AA	537	\$500.00

Accessories
Cable(s)

Description	Full Description	Nomenclature	APC	Price
CBL W/MODE PLUG 8 COND	One cable MUST be ordered for each pair of PSC 9600s.	3084225N24	207	\$11.00

Manual(s)

Description	Full Description	Nomenclature	APC	Price
PSC 9600 SERVICE MANUAL	-	6.88E+28	537	\$99.00

Point to Point Wireless Ethernet Bridges
Cambium Networks Models

 Please refer to Cambium Networks web site for details on PTP radios: <http://www.cambiumnetworks.com/>
PTP 820 Licensed Microwave Backhaul:

Description	Full Description	Nomenclature	APC	Price
PTP 800 CMU / PTP-SYNC 19INCH RACK MOUNT INSTALLATION KIT	-	DSWB3486H	908	\$99.00
PTP800 MODEM 1000/1000SET WITH CAPACITY CAP-10 MBPS	-	DSWB3480HH	908	\$2,650.00
ODU-B 23GHZ, TR1200, LO, B5 (22800.0 - 23200.0 MHZ), RECTANGULAR WG.	-	DS85009319004	908	\$3,398.00

PTP820C

Description	Full Description	Nomenclature	APC	Price
TRIMBLE ACUTIME GPS / ADAPTER CABLE KIT	-	DSWB4141HH	907	\$1,003.00
PTP300/500/600 PIDU WITH US LEAD	-	DSWB3025H	907	\$436.00
LPU END KIT PTP 250/300/500 (2 KITS REQUIRED PER LINK)	-	DSWB2978H	907	\$198.00
PTP 300/500 SERIES E1/T1 SPLITTER (PER END)	-	DSWB3476H	907	\$68.00
PTP-SYNC, COMPLETE PACKED UNIT	-	DSWB3665HH	907	\$462.00
LPU END KIT PTP 600 (2 KITS REQUIRED PER LINK)	-	DSWB2907H	907	\$528.00
PTP-SYNC TRIMBLE ADAPTER CABLE	-	DSWB3961H	907	\$131.00

Accessories

Description	Full Description	Nomenclature	APC	Price
TAPERED TRANSITION, WR75 - WR90, PBR120, UDR100	-	DS58010077001	908	\$464.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB1811B	907	\$158.00
PTP600 SERIES MULTI-MODE OPTICAL CONVERSION KIT (PER END)	-	DSWB82312H	907	\$726.00
PTP 300/500/600 SERIES BLANKING PLUG PACK (QTY 10)	-	DSHDW-2358H	907	\$66.00
TYCO/AMP CRIMP TOOL	-	DSWB3211A	907	\$462.00
GROUNDING LUG KIT	-	DSWB1812	907	\$71.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB2289A	907	\$119.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$191.00

PTP Unlicensed Software License Keys

Description	Full Description	Nomenclature	APC	Price
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - END	-	DSWB3608	907	\$908.00
PTP 300 SERIES TO PTP500 LITE UPGRADE KEY - LINK	-	DSWB3584	907	\$2,904.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - LINK	-	DSWB3585	907	\$6,776.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ LINK	-	DSWB3262	907	\$3,630.00
PTP 49600 SOFTWARE KEY X -20 MHZ END ONLY	-	DSWB3268	907	\$3,993.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - END ONLY	-	DSWB2402A	907	\$1,452.00
PTP 49600 SOFTWARE KEY X -20 MHZ LINK	-	DSWB3263	907	\$7,260.00
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - LINK	-	DSWB3607	907	\$1,815.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ END ONLY	-	DSWB3267	907	\$1,997.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - LINK	-	DSWB2519A	908	\$2,903.00
PTP600 SERIES FIPS INCLUDING 256BIT AES - LINK	-	DSWB3413	907	\$6,050.00
PTP600 SERIES UC-APL INCLUDING 256BIT AES AND FIPS - LINK	-	DSWB4149	907	\$7,865.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - END	-	DSWB3881	907	\$3,727.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - END ONLY	-	DSWB2607A	907	\$2,118.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - LINK	-	DSWB2511A	908	\$4,235.00

Antennas

Description	Full Description	Nomenclature	APC	Price
4.4-5.0 GHZ, 2-FT (0.6M), H-POL & V-POL, WITH FINE ADJUSTMENTS	-	DSRDH4499A	907	\$2,376.00
3-FT. (0.9M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4500A	907	\$3,696.00
4-FT. (1.2M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4501A	907	\$4,686.00
6-FT. (1.8M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4502A	907	\$6,336.00
2FT, 5.25-5.85GHZ W/FINE ADJ.DUAL POLE	-	DSRDH4503B	907	\$1,353.00
4-FT. (1.2M), 5.25-5.85 GHZ	-	DSRDH4505B	907	\$2,871.00
2-FT (0.6M), HIGH PERFORMANCE DUAL	-	DSRDH4508B	907	\$1,551.00
6-FT. (1.8M), 5.25-5.85 GHZ, DUAL-POL, H-POL & V-POL	-	DSRDH4506B	907	\$4,217.00
5.25-5.85 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	-	DSRDH4509B	907	\$2,779.00
4-FT.(1.2M), HIGH PERFORMANCE DUAL-POL, 5.25 - 5.85 GHZ	-	DSRDH4510B	907	\$4,838.00
HPD6-4.7 6-FT (1.8M), HP, 4.5-5.0GH	-	DSRDH4515A	907	\$13,134.00
HPD3-4.7 3-FT (0.9M), HP, 4.5-5.0GH	-	DSRDH4517A	907	\$4,422.00
HPD2-4.7 2-FT (0.6M), HP, 4.5 -5.0G	-	DSRDH4518A	907	\$2,706.00
HP4 - 4FT SP ANTENNA, 5.725 - 6.425	-	DS85009328001	908	\$6,349.00
ANTENNA SYSTEM, PAR6 - 6FT SP ANTENNA, 5.925 - 7.125 GHZ WITH RADOME,	-	DS85009294001	908	\$5,029.00
PAR6 - 6FT SP ANTENNA, 10.7 -11.7 GHZ WITH RADOME, SINGLE POL	-	DS85009294005	908	\$5,029.00
HP4 - 4FT SP ANTENNA, 10.7 - 11.7 GHZ WITH RADOME, SINGLE	-	DS85009301001	908	\$6,124.00
4FT HP ANTENNA, 7.125 - 8.5 GHZ, SINGLE POL, MOT INTERFACE	-	DS85010089051	908	\$6,050.00
2-FT (0.6M), MOLDED RADOME, UV INHIBITED	-	DSRDDN7140B	907	\$515.00

PTP Accessories:

Description	Full Description	Nomenclature	APC	Price
WR75 FLEX TWIST HANGER KIT,11-13GHZ	-	DS07010118003	908	\$68.00
PRESSURE WINDOW FOR WR90, 8.2-12.4 GHZ, MATES TO CPR90G	-	DS56009283002	908	\$152.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	907	\$34.00
MAINS LEAD- EU WITH DUAL EARTH TO C5 (PTP800 AC-DC PSU)	-	DSWB3620A	908	\$13.00
1000 FT REEL OUTDOOR COPPER CLAD CAT5E	-	DSWB3175A	907	\$1,782.00
AC-DC POWER SUPPLY CONVERTOR (NO LEAD CABLE INCLUDED)	-	DSWB3622A	908	\$306.00
COAXIAL CABLE INSTALLATION ASSEMBLY KITS (W/O SURGE ARRESTOR)	-	DSWB3616A	908	\$384.00
PRESSURE WINDOW FOR WR137, 5.85-8.2 GHZ, MATES TO CPR137G	-	DS58009283001	908	\$152.00
328 FT (100 M) REEL OUTDOOR COPPER CLAD CAT5E	-	DSWB3176A	907	\$653.00
TYPE N FEMALE TO TNC MALE ADAPTER	-	DSN000081L007	908	\$32.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,840.00
WR42 FLEX TWIST HANGER KIT, 18-26GHZ	-	DS07010118005	908	\$75.00
TYCOJAMP CRIMP TOOL	-	DSWB33211A	907	\$462.00
MAINS LEAD- US 3PIN TO C5 (PTP800 AC-DC PSU)	-	DSWB3618A	908	\$13.00
50 OHM BRAIDED COAXIAL CABLE - 75 METER	-	DS30010194001	908	\$528.00
LPU END KIT PTP800 (1 KIT REQUIRED PER COAXIAL CABLE)	-	DSWB3657A	907	\$693.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$191.00
TNC MALE RIGHT ANGLE FOR CNT-400 BR	-	DSN000081L006	907	\$34.00
Waveguide				
Description	Full Description	Nomenclature	APC	Price
EWP90 - PREMIUM ELLIPTICAL WAVEGUIDE, 10.7 - 11.7 GHZ (PER FT)	-	DS58009273002	908	\$32.00
2 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280002	908	\$660.00
GROUNDING KIT FOR WAVEGUIDE EWP90	-	DS07009343002	908	\$55.00
HOISTING GRIP FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009344001	908	\$69.00
1 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280001	908	\$860.00
3 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280003	908	\$746.00
GROUNDING KIT FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009343001	908	\$59.00
2 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279002	908	\$594.00
EWP52 - PREMIUM ELLIPTICAL WAVEGUIDE, 5.725 - 6.425 GHZ (PER FT)	-	DS58009273001	907	\$44.00
HOISTING GRIP FOR WAVEGUIDE EWP90	-	DS07009344002	908	\$63.00
1 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279001	908	\$594.00
Cable				
Description	Full Description	Nomenclature	APC	Price
RF CNNCTR,N,MALE,RT ANGL 400 CBL	-	DS01010589001	908	\$33.00
FIXED-TUNED CPR90G CONNECTOR FOR EWP90	-	DS09009399002	908	\$574.00
FIXED-TUNED CPR137G CONNECTOR FOR EWP52	-	DS09009399001	908	\$625.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,840.00
HOISTING GRIP FOR CNT-400 CABLE	-	DS07009304001	907	\$26.00
RF CNNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	907	\$15.00
Kits				
Description	Full Description	Nomenclature	APC	Price
WR137 FLEX-TWIST HANGER KIT - 6 GHZ	-	DS07010118001	907	\$95.00
WR75 FLEX TWIST HANGER KIT,11-13GHZ	-	DS07010118003	908	\$68.00
WR42 FLEX TWIST HANGER KIT,18-26GHZ	-	DS07010118005	908	\$75.00
WR28 FLEX TWIST HANGER KIT, 28 - 38 GHZ	-	DS07010118006	908	\$75.00
RF CNNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	907	\$15.00
CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	907	\$34.00
PTP FCC License Coordination (Optional):				
Description	Full Description	Nomenclature	APC	Price
FCC MMW FREQ PROTECTION SERVICE - 5 ADDITIONAL YR	-	DSWB4113	908	\$605.00
FCC MMW FREQ PROTECTION SERVICE - 10 ADDITIONAL YR	-	DSWB4114	908	\$1,210.00
FCC MMW FREQ COORDINATION SERVICE	-	DSWB3659	908	\$1,386.00

**Public Safety and Private LTE
Core L2/L3 Switch (AC Power)**
Models
AC Power:

Description	Full Description	Nomenclature	APC	Price
SUMMIT X670 G2 48X 40 BASE UNIT	-	TT3685	55	\$23,467.00
EXT I-MGBIC-GTX COMPATIBLE 1000BASE-T SFP COPPER RJ-45, 100M	-	TT3776	55	\$48.00
Options				
Description	Full Description	Nomenclature	APC	Price
ADD: SUMMIT X670 FAN MODULE FB	-	TT06560AA	55	\$601.00
ADD: SUMMIT 550W AC PSU FB	-	TT06561AA	55	\$722.00
SUMMIT X670 SERIES CORE LICENSE	-	TT06562AA	55	\$5,947.00
ADD: PWR CORD,10A,CEE 7/7,C13	-	TT06564AA	55	\$16.50
ADD: SUMMIT X670 MPLS FEATURE PACK	-	TT06563AA	55	\$3,962.00

eNB L2 Switch - DC Power

Description	Full Description	Nomenclature	APC	Price
R6471 DC PACKAGE FROM ERS	-	TT3511	51	\$3,220.00
R6371 DC PACKAGE FROM ERS	-	TT3506	51	\$3,750.00
POLE INSTALLATION KIT, 6371	-	DDN2817	51	\$220.00
WALL AND POLE MOUNTING KIT,6371	-	DDN2818	51	\$160.00
Extreme Network Switch:				
Description	Full Description	Nomenclature	APC	Price
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	55	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	55	\$230.00
Description	Full Description	Nomenclature	APC	Price
SUMMIT 300W +24V-48V DC POWER SUPPLY UNIT	-	DDN2810	55	\$620.00
Options				
Ericsson Switch Optics:				
Description	Full Description	Nomenclature	APC	Price
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	51	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	51	\$120.00
Extreme Switch Features:				
Description	Full Description	Nomenclature	APC	Price
CORE LIC FROM ADV EDGE - X460-G	-	TT3501	55	\$1,450.00
MPLS FEATURE PACK - X460-G2	-	TT3502	55	\$1,450.00
Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	55	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	55	\$1,170.00
Spares				
Ericsson Switch:				
Description	Full Description	Nomenclature	APC	Price
ROUTER 6471/2 DC SYSTEM W/10X1G ENABLED	-	TT3508	51	\$1,720.00
ROUTER 6371 DC SYSTEM W/6X1G ENABLED	-	TT3512	51	\$2,400.00
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	51	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	51	\$120.00
Extreme Switch:				
Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	55	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	55	\$1,170.00
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	55	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	55	\$230.00
SUMMIT 300W +24V-48V DC POWER SUPPLY UNIT	-	DDN2810	55	\$620.00

EPC NTP Server
Configuration
Models

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
SYNC SERVER S650 IO MODULE RUBIDIUM	-	TT3197	55	\$15,480.0
Options				
Description	Full Description	Nomenclature	APC	Price
SYNC SERVER SECURITY PROTOCOLS	-	TT06276AA	55	\$2,800.00
ADD: SYNC SERVER IO TIMING FLEX MOD	-	TT06277AA	55	\$2,000.00
ADD: SS S6XX 50 FT CBL WITH LIGHTNI	-	TT06278AA	55	\$1,250.00
Accessories				
Description	Full Description	Nomenclature	APC	Price
SYNC SERVER S650 IO MODULE RUBIDIUM	-	DDN2340	55	\$15,480.0
SYNC SERVER SECURITY PROTOCOLS OPTI	-	DDN2341	55	\$2,800.00
SYNC SERVER IO TIMING FLEX MODULE	-	DDN2342	55	\$2,000.00
SS S6XX 50 FT CBL WITH LIGHTNING AR	-	DDN2343	55	\$1,250.00
NTP COAX CABLE TNC-BNC 100 FT	-	DDN1282	55	\$243.00

L2/L3 Aggregation Switch/Router (copper)
Models

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00

Accessories

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00

L2/L3 Aggregation Switch/Router (fiber)
Models

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00

FIBER PLUG-INS:

Description	Full Description	Nomenclature	APC	Price
MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00
SFP (COPPER PLUG-IN) - ALL LENGTHS	-	DDN1347A	454	\$375.00

L2/L3 Remote EPG Switch - Copper
Models

AC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER AC INC MPLS LICENSE	-	TT2718	55	\$26,492.0

DC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER DC INC MPLS LICENS	-	TT2719	55	\$26,895.0

Options

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	55	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	55	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	55	\$705.00

Accessories

AC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER AC INC MPLS LICENSE	-	DDN1767	55	\$26,492.0

DC Power Core Copper

Description	Full Description	Nomenclature	APC	Price
CES2048X COPPER DC INC MPLS LICENS	-	DDN1768	55	\$26,895.0

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	55	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	55	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	55	\$721.00

L2/L3 Remote EPG Switch - Fiber
Models

AC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048X FIBER AC INC MPLS LICENSE	-	TT2720	55	\$29,373.0

DC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048 FIBER DC INC MPLS LICENSE	-	TT2721	55	\$29,776.0

Options

AC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	55	\$744.00

DC Power Supply

Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	55	\$1,147.00

10G XFP (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	55	\$705.00

1G (FIBER PLUG-IN)

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00

Accessories

AC Power Core Fiber

Description	Full Description	Nomenclature	APC	Price
CES2048X FIBER AC INC MPLS LICENSE	-	DDN1769	55	\$29,373.0

DC Power Core Copper/Fiber

Description	Full Description	Nomenclature	APC	Price

Updated Pricing for contract 4400016317 as of January 2022

AC Power Supply			DDN1770	55	\$29,776.0
Description	Full Description	Nomenclature	APC	Price	
CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	55	\$744.00	
DC Power Supply			DDN1772	55	\$1,147.00
Description	Full Description	Nomenclature	APC	Price	
CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	55	\$1,147.00	
10G XFP (FIBER PLUG-IN)			DDN1773	55	\$721.00
Description	Full Description	Nomenclature	APC	Price	
10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	55	\$721.00	
1G (FIBER PLUG-IN)			TT05640AA	55	\$470.00
Description	Full Description	Nomenclature	APC	Price	
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00	
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00	
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00	

eNodeB Antenna
Models
Remote Electrical Tilt Antenna

Description	Full Description	Nomenclature	APC	Price	
698-869MHZ LOW-PIM/Hi-PIP, 9.5DBD, 65DEG HP, +/-45-DEGREE POLARIZATION	High-performance Dual-pol directional Panel antenna optimized for 698-869 MHz applications requiring strong pattern control in a 65-degree Horizontal-aperture package. 2 ports antenna, 9.5 dBd Gain. Height x Width x Depth – in., nom. (not including clamps): 48 x 11 x 6 Weight, antenna and hardware 15 lb. Mechanical downtilt kit is optional	DOSP6Z10PP65XD	66	\$2,600.00	
Description	Full Description	Nomenclature	APC	Price	
DUAL COLUMN, X-POL, 698-960 698-960	Dual band antenna 4 ports. XX Pol, 65° Horizontal Beamwidth 690-960/690-960MHz 16.6/16.6dBi gain, E-Tilt: 0-10/0-10 Integrated RCU	DDN2417	66	\$1,590.00	

eNodeB Band Class 14
BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price	
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00	

SITE SYNCHRONIZATION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price	
GPS ANTENNA KIT	-	DDN1884	51	\$572.00	
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00	
Description	Full Description	Nomenclature	APC	Price	
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00	
4T4R configuration RBS6301:					
Description	Full Description	Nomenclature	APC	Price	
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	51	\$72,960.0	
Description	Full Description	Nomenclature	APC	Price	
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00	
Description	Full Description	Nomenclature	APC	Price	
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00	
2T4R configuration RBS6301:					
Description	Full Description	Nomenclature	APC	Price	
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	51	\$46,300.0	
Description	Full Description	Nomenclature	APC	Price	
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00	
Description	Full Description	Nomenclature	APC	Price	
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00	
Description	Full Description	Nomenclature	APC	Price	
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00	
OUTDOOR CONFIGURATIONS (AC):					
6160 -48VDC 3SECTOR, BB6620, 3RRU 4478 BC14, 40W, 2T4R MIMO 5+5 MHZ	-	TT3702	51	\$72,725.0	
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	51	\$72,960.0	
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00	
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00	
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00	
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	51	\$46,300.0	
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00	
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00	
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00	
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00	
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3246	51	\$73,540.0	
2T4R LIMIT 6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 5+5 MHZ	-	TT3251	51	\$46,890.0	
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00	
6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3249	51	\$70,860.0	
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00	
2T4R LIMIT 6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 5+5 MHZ	-	TT3254	51	\$44,000.0	
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00	
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00	
BASIC MOTOROLA VALUE PACK FEATURES	-	DDN2482	51	\$3,890.00	
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	51	\$3,170.00	
License to Increase Bandwidth by 5+5 MHz Increment	-	DDN2667	51	\$450.00	
INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	-	DDN2667	51	\$450.00	
License to Increment Radio Power by 20W	-	DDN2452	51	\$370.00	
Description	Full Description	Nomenclature	APC	Price	
OUTPUT POWER HWAC 20W INCR.STEPS (P)	-	DDN2452	51	\$370.00	
Support for IP Security:					
Description	Full Description	Nomenclature	APC	Price	
INTEGRATED IP SECURITY	-	DDN2666	51	\$150.00	
VoLTE Performance Package:					
Description	Full Description	Nomenclature	APC	Price	
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00	
Support for CS Fallback:					
Description	Full Description	Nomenclature	APC	Price	
CS FALLBACK	-	TT3093	51	\$130.00	
Support for High Load Handling:					
Description	Full Description	Nomenclature	APC	Price	
HIGH LOAD HANDLING	-	TT3092	51	\$620.00	
Support for Coordinated Multi-Point Transmission (CoMP):					
Description	Full Description	Nomenclature	APC	Price	
COORDINATED MULTIPPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00	
Quad Antenna Support 4X2 Downlink MIMO:					
Description	Full Description	Nomenclature	APC	Price	
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00	
Quad Antenna Support 4-Way Receiver Diversity:					
Description	Full Description	Nomenclature	APC	Price	
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	51	\$1,000.00	
Support for Shared Networks:					
Description	Full Description	Nomenclature	APC	Price	
SHARED NETWORKS	-	TT3096	51	\$3,440.00	
Support for Secure OAM and Security Logging:					
Description	Full Description	Nomenclature	APC	Price	
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00	
Support for Large eNodeB, starting with the 7th cell and beyond:					
Description	Full Description	Nomenclature	APC	Price	
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00	
Support for Multi-Carrier Load Management:					

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00
Support for Combined Cell:				
COMBINED CELL	-	DDN2449	51	\$1,070.00
Support for Carrier Aggregation:				
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00
Support for Maximum Cell Range up to 100 km:				
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00
External Alarm Requirements:				
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	51	\$120.00
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00
Spares				
RBS6301				
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	51	\$15,050.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
RBS6135 and BB6620 with RRUs				
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	51	\$15,050.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00

eNodeB Band Class 20
BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	51	\$47,530.00
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

OUTDOOR CONFIGURATIONS (AC):
RBS6301:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	51	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

Power 6135:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3265	51	\$48,120.00
6620 INDOOR -48VDC 3SECTOR, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3269	51	\$43,790.00
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	51	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	51	\$120.00
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
SPARE RADIO 2217 B20	-	TT3303	51	\$6,580.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
ENCLOSURE 6135 and BB6620 with RRUs				
Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B20	-	TT3303	51	\$6,580.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
eNodeB Band Class 26				
BASE TERMINAL EQUIPMENT REQUIREMENTS:				
Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00
Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
Description	Full Description	Nomenclature	APC	Price
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212	-	TT3272	51	\$47,530.00
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
OUTDOOR CONFIGURATIONS (AC):				
RBS6301:				
Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212	-	TT3272	51	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
Power 6135:				
Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3271	51	\$48,120.00
Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3274	51	\$43,790.00
Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00
FEATURE SELECTION:				
License to Increase Throughput (75 Mbps CL/37.5 Mbps UL Increment)				
Description	Full Description	Nomenclature	APC	Price
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	51	\$3,170.00
License to Increase Bandwidth by 5+5 MHz Increment				
Description	Full Description	Nomenclature	APC	Price
INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	-	DDN2667	51	\$450.00
All the following features or VPs are priced per sector and per 20 MHz carrier (order Quantity 1 per RRU):				
Support for IP Security:				
Description	Full Description	Nomenclature	APC	Price
INTEGRATED IP SECURITY	-	DDN2666	51	\$150.00
VoLTE Performance Package:				
Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00
Support for CS fallback:				
Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00
Support for High Load Handling:				
Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00
Support for Coordinated Multi-Point Transmission (CoMP):				
Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00
Quad Antenna Support 4X2 Downlink MIMO:				
Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00
Quad Antenna Support 4-Way Receiver Diversity:				
Description	Full Description	Nomenclature	APC	Price
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	51	\$1,000.00
Support for Shared Networks:				
Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00
Support for Secure OAM and Security Logging:				
Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00
Support for Large eNodeB, starting with the 7th cell and beyond:				
Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00
Support for Multi-Carrier Load Management:				
Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00
Support for Combined Cell:				
Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	51	\$1,070.00
Support for Carrier Aggregation:				
Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00
Support for Maximum Cell Range up to 100 km:				
Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00
Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00
Description	Full Description	Nomenclature	APC	Price
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	51	\$120.00
Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00
Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
SPARE RADIO 2217 B26D	-	TT3302	51	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00
RBS6135 and BB6620 with RRUs				
Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B26D	-	TT3302	51	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00

eNodeB Band Class 28 Macro
BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3262	51	\$47,530.00
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	51	\$430.00
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

OUTDOOR CONFIGURATIONS (AC):

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3262	51	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

RBS6135 AND BB6620 with RRU's

Description	Full Description	Nomenclature	APC	Price
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B28B	-	TT3305	51	\$6,580.00

Power 6135:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3261	51	\$48,120.00
6620 INDOOR -48VDC 3SECTOR, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3264	51	\$43,790.00
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

Indoor Configuration (AC):

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28B, 40W, 2X2 MIMO 5+5 MHZ	-	TT3255	51	\$48,020.00
PREPARE OUTDOOR AC 18AY ENODEB FOR	-	DDN2665	51	\$570.00
INTEGRATED IP SECURITY	-	TT05618AA	51	\$450.00

License to Increment Radio Power by 20W
Support for IP Security:

Description	Full Description	Nomenclature	APC	Price
IPSEC ENABLE AND LICENSE	-	TT05615AA	51	\$154.00

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
4 WAY RECEIVE DIVERSITY SOFTWARE	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:
Support for Large eNodeB, starting with the 7th cell and beyond:
Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00

Support for Combined Cell:
Support for Carrier Aggregation:
Support for Extended Cell Range 15-30 KM:

Description	Full Description	Nomenclature	APC	Price
EXTENDED CELL RANGE FROM 15 TO 30 KM	-	DDN2042	51	\$540.00

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00

eNodeB Battery Backup
Ordering Requirements
Outdoor AC Configurations

Description	Full Description	Nomenclature	APC	Price
BBU 6101	-	DDN2456	51	\$9,500.00
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00
BATTERY KIT 180AH	-	DDN2466	51	\$2,380.00
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00

BBS6101

Description	Full Description	Nomenclature	APC	Price
BBS 6101	-	DDN2454	51	\$9,580.00
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00
BATTERY KIT 180AH	-	DDN2466	51	\$2,380.00

Power 6135

Description	Full Description	Nomenclature	APC	Price
BBS05	-	DDN2460	51	\$2,560.00
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00

RBS6301:

Description	Full Description	Nomenclature	APC	Price
BBS 6301	-	DDN2458	51	\$7,090.00
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

Site Ancillary for Public Safety LTE
CABLES:
1/2" Jumper Cable

Description	Full Description	Nomenclature	APC	Price
1/2IN JUMPER CABLE, 4.3-10(M)-7/16 DIN(M), 3 M	4.3-10(m)-7-16(m), 3 m	DDN2419	51	\$20.00
1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 5 M	4.3-10(m)-7-16(m), 5 m	DDN2438	51	\$30.00
1/2" JUMPER CABLE, 4.3-10(M)-7-16(M), 10 M	4.3-10(m)-7-16(m), 10 m	DDN2439	51	\$50.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 3 M	4.3-10(m)-4.3-10 (m), 3 m	DDN2418	51	\$20.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 5 M	4.3-10(m)-4.3-10 (m), 5 m	DDN2440	51	\$30.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 10 M	4.3-10(m)-4.3-10 (m), 10 m	DDN2441	51	\$50.00

Remote Electrical Tilt (RET) Control Cable:

Description	Full Description	Nomenclature	APC	Price
RET CONTROL CABLE ,BLACK 1.0 M TTD	1 m	DDN2412	51	\$30.00
RET CONTROL CABLE ,BLACK 2.0 M TTD	2 m	DDN2413	51	\$30.00
RET CONTROL CABLE ,BLACK 3.0 M TTD	3 m	DDN2414	51	\$30.00
RET CONTROL CABLE ,BLACK 5.0 M TTD	5 m	DDN2415	51	\$40.00
RET CONTROL CABLE ,BLACK 15.0 M TT	15 m	DDN2416	51	\$70.00

Optical Cable:

Description	Full Description	Nomenclature	APC	Price
2F LC(FULLAXS)-LC SM, 5 M	5 m	DDN2387	51	\$50.00
2F LC(FULLAXS)-LC SM, 10 M	10 m	DDN2388	51	\$70.00
2F LC(FULLAXS)-LC SM, 20 M	20 m	DDN2389	51	\$80.00
2F LC(FULLAXS)-LC SM, 30 M	30 m	DDN2390	51	\$100.00
2F LC(FULLAXS)-LC SM, 50 M	50 m	DDN2391	51	\$140.00
2F LC(FULLAXS)-LC SM, 70 M	70 m	DDN2392	51	\$170.00
2F LC(FULLAXS)-LC SM, 100 M	100 m	DDN2393	51	\$220.00
2F LC(FULLAXS)-LC SM, 150 M	150 m	DDN2394	51	\$310.00
2F LC(FULLAXS)-LC SM, 200 M	200 m	DDN2395	51	\$390.00
2F LC(FULLAXS)-LC SM, 250 M	250 m	DDN2396	51	\$470.00
2F LC(FULLAXS)-LC SM, 300 M	300 m	DDN2397	51	\$550.00
2F LC(FULLAXS)-LC SM, 500 M	500 m	DDN2398	51	\$890.00

DC Power Cable:

Description	Full Description	Nomenclature	APC	Price
100M DC POWER CABLE, 2X10 MM2, SUP	100 m	DDN2373	51	\$690.00
300M DC POWER CABLE, 2X10 MM2, SUPP	300 m	DDN2374	51	\$1,870.00
500M DC POWER CABLE, 2X10 MM2, SUPP	500 m	DDN2378	51	\$2,800.00
CABLE CLAMPS FOR 3 RRU, 10 PC	-	DDN2407	51	\$50.00

Weatherproofing for connectors:

Description	Full Description	Nomenclature	APC	Price
WK-U, UNIVERSAL WEATHERPROOFING KIT	WK-U, UNIVERSAL WEATHERPROOFING KIT	DSWKU	351	\$43.50
RAIL 180MM	180 mm	DDN2365	51	\$20.00
RAIL 300MM	300 mm	DDN2366	51	\$30.00
RAIL 450MM	450 mm	DDN2367	51	\$40.00
RAIL 1100MM	1100 mm	DDN2436	51	\$110.00

Location Services
Configuration Models

Description	Full Description	Nomenclature	APC	Price
CONVERGED SERVICES/APP CENTRAL CLIENT	-	T8080	63	\$0.00
LOCATION SERVICES CLIENT LICENSE	-	T8326	63	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100 LICENSES	-	UA00324AA	63	\$4,900.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00328AA	63	\$80,000.00
ADD: LOCATION CLIENT LEX 755 LIC	-	UA00126AA	63	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00334AA	63	\$1,800,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00330AA	63	\$255,000.00
ADD: LOC CLIENT WINDOWS LIC	-	CA02614AA	63	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00327AA	63	\$43,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 250 LICENSES	-	UA00325AA	63	\$11,750.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00326AA	63	\$22,500.00
ADD: LOCATION SERVICES CLIENT - 1 LICENSE	-	UA00322AA	63	\$53.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00332AA	63	\$650,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00329AA	63	\$185,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00333AA	63	\$1,100,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00331AA	63	\$300,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10 LICENSES	-	UA00323AA	63	\$500.00

Presence Services
Configuration Model

Description	Full Description	Nomenclature	APC	Price
PRESENCE SERVICES CLIENT LICENSE	-	T8327	63	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00347AA	63	\$1,800,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00342AA	63	\$185,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00344AA	63	\$300,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00343AA	63	\$255,000.00
ADD: PRESENCE SERVICES CLIENT - 1 LICENSE	-	UA00335AA	63	\$53.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00340AA	63	\$43,000.00
ADD: PRESENCE CLIENT LEX 755 LIC	-	UA00127AA	63	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00346AA	63	\$1,100,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00345AA	63	\$650,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00339AA	63	\$22,500.00
ADD: PRE CLIENT WINDOWS LIC	-	CA02602AA	63	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00341AA	63	\$80,000.00

PRIORITY MANAGER
Model

Description	Full Description	Nomenclature	APC	Price
Priority Management Super Model	-	SQM01SUM0245	63	\$0.00
PM User License Intervals	-	T7884	63	\$0.00
PM R9 TO R11 SOFTWARE UPGRADE KIT	-	T8412	63	\$2,780.00
PM R11.X TO R11.3 SOFTWARE UPGRADE KIT	-	T8522	63	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PM SINGLE SERVER OPTION	-	CA02230AB	63	\$28,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 500 CAPACITY	-	UA00361AA	63	\$158,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 1000 CAPACITY	-	UA00362AA	63	\$174,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 5000 CAPACITY	-	UA00363AA	63	\$254,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 10,000 CAPACITY	-	UA00364AA	63	\$314,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 25,000 CAPACITY	-	UA00365AA	63	\$506,800.00

Description	Full Description	Nomenclature	APC	Price
ADD: PRIORITY MANAGER TIER 1 WITH 50,000 CAPACITY	-	UA00366AA	63	\$784,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00367AA	63	\$1,297,800.00
ADD: PRIORITY MANAGER TIER 2 WITH 500 CAPACITY	-	UA00368AA	63	\$79,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 1000 CAPACITY	-	UA00369AA	63	\$87,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 5000 CAPACITY	-	UA00370AA	63	\$127,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 10,000 CAPACITY	-	UA00371AA	63	\$157,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 25,000 CAPACITY	-	UA00372AA	63	\$253,400.00
ADD: PRIORITY MANAGER TIER 2 WITH 50,000 CAPACITY	-	UA00373AA	63	\$392,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00374AA	63	\$649,000.00
ADD: PRIORITY MANAGER TIER 1 LOCAL REDUNDANCY	-	UA00375AA	63	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 LOCAL REDUNDANCY	-	UA00376AA	63	\$15,000.00
ADD: PRIORITY MANAGER TIER 1 GEO-REDUNDANCY	-	UA00377AA	63	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 GEO-REDUNDANCY	-	UA00378AA	63	\$15,000.00
ADD: PRIORITY MGMT TIER-1 USER LICENSES 500	-	UA00200AA	63	\$17,600.00
ADD: Priority Mgmt Tier-1 User Licenses 1K	-	UA00025AA	63	\$25,920.00
ADD: Priority Mgmt Tier-1 User Licenses 5K	-	UA00026AA	63	\$123,200.00
ADD: Priority Mgmt Tier-1 User Licenses 10K	-	UA00027AA	63	\$189,200.00
ADD: Priority Mgmt Tier-1 User Licenses 25K (5 x 5K Packs)	-	UA00028AA	63	\$401,280.00
ADD: Priority Mgmt Tier-1 User Licenses 50K (10 x 5K Packs)	-	UA00029AA	63	\$706,310.00
ADD: Priority Mgmt Tier-1 User Licenses 100K (20 x 5K Packs)	-	UA00201AA	63	\$1,271,380.00
ADD: PRIORITY MGMT TIER-2 USER LICENSES 500	-	UA00202AA	63	\$8,800.00
ADD: Priority Mgmt Tier-2 User Licenses 1K	-	UA00030AA	63	\$17,600.00
ADD: Priority Mgmt Tier-2 User Licenses 5K	-	UA00031AA	63	\$61,600.00
ADD: Priority Mgmt Tier-2 User Licenses 10K	-	UA00032AA	63	\$94,600.00
ADD: Priority Mgmt Tier-2 User Licenses 25K (5 x 5K Packs)	-	UA00033AA	63	\$200,640.00
ADD: Priority Mgmt Tier-2 User Licenses 50K (5 x 10K Packs)	-	UA00034AA	63	\$353,210.00
ADD: Priority Mgmt Tier-2 User Licenses 100K (10 x 10K Packs)	-	UA00203AA	63	\$635,800.00

Accessories

Description	Full Description	Nomenclature	APC	Price
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	55	\$9,470.00
48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	55	\$11,460.00
24 PORT SWITCH BUNDLE - DC PO	-	TT2846	55	\$7,380.00
48 PORT SWITCH BUNDLE - DC PO	-	TT2847	55	\$9,360.00

FRUs / FREs for Hardware
FRUs for Hardware (HP DL380):

Description	Full Description	Nomenclature	APC	Price
FRU: DL380-GX 1.2TB 6G SAS 10KSFH HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00

FREs for Hardware (HP DL380):

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC NO DISK	High Capacity UNC server	DLN6974	877	\$23,405.00

**QUANTAR®
Software and Hardware FLASHport® Upgrades**
Configuration Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE & HARDWARE UPGRADE KIT	-	SQM01SUM0130	509	\$0.00

Options
Current System Types

Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKED UPGRADE	-	CA00134AA	729	\$0.00
ENH: CONVENTIONAL UPGRADE	-	X788AA	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AA	729	\$0.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	-	X795AF	729	\$1,200.00

System Software

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL ASTRO CAI UPGRADE	For Conventional Analog(X597) migrating to Conventional ASTRO CAL.	X806AY	729	\$1,782.00
ENH: 6809 TRUNKING ASTRO CAI UPGRADE	REQUIRED -One Cable Option (X244, X337, X338, X339)	X900AD	729	\$1,250.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AH	729	\$1,200.00
ADD: 6.X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRES: -One Cable Option(X244, X337, X338, X339)	X897AE	729	\$1,961.00
ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: INTELLIREPEATER OPERATION	-	X999AH	729	\$3,768.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED -One Cable Option (X148, X149, X150, X844, X841, X145, X146, X147)	X898AE	729	\$5,793.00
ADD: CONVI/6809 TO P25 TRUNKING UPG	-	X422AA	729	\$4,350.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable (X244, X337, X338 or X339)	X997AG	729	\$1,200.00

Control Board

Description	Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE	Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00
ADD: INTELLIREPEATER EPIC CONTROL BOARD	-	X792AB	195	\$3,200.00
ADD: CONVENTIONAL/6809 TRUNKING EPIC BOARD	-	X791AB	729	\$2,000.00
ADD: CONTROL BOARD UPGRADE TO P25 TRUNKING	REQUIRES X591(Site Repeater) Contains Exciter Firmware	CA00255AA	509	\$3,200.00

DLAN Cables
Ethernet Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 2' ETHERNET CABLE UPGRD	-	X844	729	\$70.00
ADD: 6' ETHERNET CABLE UPGRD	-	X841	729	\$120.00
ADD: 10' ETHERNET CABLE UPGRD	-	X145	729	\$170.00
ADD: 25' ETHERNET CABLE UPGRD	-	X146	729	\$200.00

Feature Enhancement(s)

Description	Full Description	Nomenclature	APC	Price
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not compatible with ASTRO capabilities	C457AC	729	\$100.00
ENH: 8 WIRE WIRELINE INTERFACE CAPABILITY UPGRADE	-	X144AH	729	\$200.00
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	-	C115AA	729	\$700.00
ENH: FALLBACK IN CABINET REPEAT UPGRADE	-	U764AC	729	\$200.00
ENH: MAIN STANDBY OPERATION UPGRADE	-	C753AA	729	\$350.00
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operatio	C101AE	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AD	729	\$300.00
ENH: BASIC WILDCARD UPGRADE	-	X233AA	729	\$400.00
ENH: ANALOG SIMULCAST UPGRADE	Requires Conventional Analog or 6809 Analog Trunking Operation.	X777AC	729	\$600.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupled and 8 which are transistors) and 10 outputs (4 which are relay closures and 6 which are transistor closure to ground). Not compatible with X233. Requires 8 wire Wireline board (Option X787).	X157AC	729	\$800.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations: user selects one or the other with the RSS:	X286AB	729	\$400.00
ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AE	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	When ordered with Quantar Receivers, adds Password Protection Capability to standard Remote RSS feature. Requires a Wireline with modem at both ends. Standard Remote RSS feature allows the use of RSS from a remote location.	X288AE	729	\$200.00
ENH: SPECTRA-TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation. Requires that station be equipped with a 4 wire or 8 wire Wireline.	X269AD	729	\$254.00
ADD: NON-MATRIXED INTERCONNECT	Not compatible with X873 or X932. Requires IntelliRepeater Operation. Includes Phone interconnect board (PIB) module.	X122	195	\$2,000.00

Hardware

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

ADD: IR SITE TERMN HDW UPGRD	-	X843	195	\$25.00
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Trunking Cables				
Wireline Options				
Description	Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE	Conventional, 6809 Trunked, amd IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00
ADD: 4 WIRE WIRELINE BOARD	-	X216AG	729	\$1,000.00
ADD: 8 WIRE WIRELINE BOARD	-	X797AB	729	\$1,300.00
ADD: V.24 WIRELINE INTERFACE	-	X889AF	729	\$500.00

Accessories				
Firmware				
Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

QUANTAR® SOFTWARE Only FLASHport® Upgrades

Configuration				
Models				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE UPGRADE KIT	-	T6693	509	\$0.00

Options				
Current System Types				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL UPGRADE	-	X788AB	729	\$0.00
ENH: 6809 TRUNKED UPGRADE	-	CA00134AB	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AB	729	\$0.00
ADD: ASTRO 25 SITE REPEATER UPG	-	X418	729	\$0.00

Software Refresh				
Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	Provides latest version of conventional software, with no feature upgrades. See below for available feature upgrades. This option CANNOT be ordered with any System Software or Feature Enhancements.	X795AG	729	\$1,200.00

System Software				
Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKING ASTRO CAI UPGRADE	REQUIRED --One Cable FRU (DKN6112, DKN6113, DKN6114, DKN6115)	X900AE	729	\$1,250.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED --One Cable FRU's (DKN6103, DKN6104, DKN6105, DKN6106, DKN6107, DKN6108, DKN6109, DKN6110)	X898AF	729	\$5,793.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRED: --One Cable FRU's (DKN6112, DKN6113, DKN6114, DKN6115)	X897AF	729	\$1,961.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AJ	729	\$1,200.00
ADD: 6X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00
ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: CONVENTIONAL ASTRO CAI UPGRADE	-	X306AZ	729	\$1,782.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable FRU (DKN6112, DKN6113, DKN6114 or DKN6115)	X997AH	729	\$1,200.00

Feature Enhancement(s)				
Description	Full Description	Nomenclature	APC	Price
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operation	C101AF	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AE	729	\$300.00
ENH: MAIN STANDBY OPERATION UPGRADE	Provides Console TRC control, external closure or hot switchover. Requires Conventional Analog Operation.	C753AB	729	\$350.00
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not compatible with ASTRO Operation.	C457AD	729	\$100.00
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	REQUIRED --6809 Trunking Operation (X997) --8 Wire Wireline Interface Module (FRU CLN1296)to also provide for Centralized Telephone Interconnect (CTI) capability	C115AB	729	\$700.00
ENH: FALLBACK IN CABINET REPEAT UPGRADE	-	U764AD	729	\$200.00
ENH: ANALOG SIMULCAST UPGRADE	-	X777AD	729	\$600.00
ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AF	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	-	X288AF	729	\$200.00
ENH: SPECTRA-TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation (X597 or X997). Requires station be equipped with 4 wire or 8 wire Wireline Cable (CLN1295 or CLN1296).	X269AE	729	\$254.00
ENH: BASIC WILDCARD UPGRADE	-	X233AB	729	\$400.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations; user selects one or the other with the RSS:	X286AC	729	\$400.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupler and 8 which are transistors) and 10 outputs (4 which are relay closures and 6 which are transistor closure to ground). Not compatible with X233 or X84. Requires 8 wire Wireline Board (FRU CLN1296).	X157AD	729	\$800.00

Accessories				
DLAN Cables				
Description	Full Description	Nomenclature	APC	Price
FRU: 10' DLAN CABLE	-	DKN6103	729	\$170.00
FRU: 25' DLAN CABLE	-	DKN6104	729	\$200.00
FRU: 50' DLAN CABLE	-	DKN6105	729	\$245.00

Ethernet Cables				
Description	Full Description	Nomenclature	APC	Price
FRU: 2' ETHERNET CABLE	-	DKN6110	729	\$70.00
FRU: 6' ETHERNET CABLE	-	DKN6109	729	\$120.00
FRU: 10' ETHERNET CABLE	-	DKN6108	454	\$170.00
FRU: 25' ETHERNET CABLE	-	DKN6107	454	\$200.00
FRU: 50' ETHERNET CABLE	-	DKN6108	729	\$245.00

Ethernet Kits/FTP Kits				
Description	Full Description	Nomenclature	APC	Price
FRU: IR SITE TERMINATION HW	-	DKN6111	729	\$25.00

Firmware				
Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

Trunking Cables				
Description	Full Description	Nomenclature	APC	Price
FRU: 25' TRUNKING CABLE	-	DKN6112	729	\$50.00
FRU: 50' TRUNKING CABLE	-	DKN6113	729	\$87.00
FRU: 75' TRUNKING CABLE	-	DKN6114	729	\$124.00

Access Solutions RAD

Models				
Description	Full Description	Nomenclature	APC	Price
IPMUX-24 PWE, 4 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881220000	947	\$2,957.00
MEGAPLEX 2100 4U MODULAR MP, 115 VAC, RDNT 10BT MNG, P	-	DS7646220000	947	\$6,406.00
MEGAPLEX-4104 RED 90 TO 260 VAC & 95 TO 300 VDC RED DS0 CROSS CONNECT	-	DS6640310000	947	\$5,569.00
OP-106-4 T1 FIBER MUX, ST, 1310 NM SM SHORT HAUL	-	DS5200200000	947	\$739.00
MEGAPLEX TDMOIP MAIN LINK WITH ECHO CANCEL OPTION	-	DS7649220000	947	\$2,834.00
SFP GIGE TWP COPPER, UP TO 100M, RJ-45 CONNECTOR (GIGE ONLY)	-	DS1278090000	947	\$241.00
SFP SMI3L FOR 1GBETH 10KM, DDM	-	DS1278310000	947	\$158.00
RM-33-2 RACK MOUNT KIT FOR ONE OR TWO UNITS	-	DS1900640000	947	\$33.00
OP-106-4 T1 & ETHERNET FIBER MUX, RED POWER, SC, 1310NM SM SHORT HAUL	-	DS5200280000	947	\$1,080.00
SFP FAST ETHERNET/STM 1, 850 NM, MULTIMODE, 2 KM (1.2 MI)	-	DS1278650000	947	\$99.00
MEGAPLEX SINGLE T1 MAIN LINK MODULE WITH 1 RJ-45/T1 WAN PORT	-	DS7646230000	947	\$1,478.00
Airmux-400P 250M ODU, Connectorized ant (2x N-type), supp 5.8 GHz FCC	-	DS7350040000	947	\$3,136.00
MEGAPLEX-4104 RED -48 VDC, RED DS0 CROSS CONNECT	-	DS6640280000	947	\$5,569.00
SFP SM 1310 NM LC CONNECTOR	-	DS1278050000	947	\$136.00
MEGAPLEX POWER SUPPLY MODULE FOR MP-2100/2104, -48 VDC	-	DS7651750000	947	\$1,478.00
SF2 Rugg SCADA & routing, -24DC, 2 GE SFP, 8 FE UTP, 2 ports w/Airmux POE	-	DS6801120000	947	\$2,262.00
MEGAPLEX T1 FIBER MAIN LINK FOR MP-2100, SC CONN 1310NM LASER	-	DS7651700000	947	\$2,156.00

MEGAPLEX4 U MOD. VOICE MOD. 4 E&M AND OMNIBUS	-	DS7651360000	947	\$2,218.00
MEGAPLEX PSEUDOWIRE MODULE, 8 E1/T1 PORTS FOR MP-4100, 3 UTP PORTS	-	DS4640510000	947	\$2,710.00
MEGAPLEX 4U VOICE MODULE 16CH E&M, TYPE 2, POSITIVE VOLTAGE	-	DS7651850000	947	\$1,971.00
AIRMUX 5000HBS.BASE CONN(2X N-TYPE) MULTI FREQ 5.XGHZ.DEFAULT 5.8GHZ	-	DS6490060000	947	\$4,480.00
MEGAPLEX 8 PORT E&M CARD	-	DS7647670000	947	\$1,109.00
CBL-HSR/F 1-2 PORT SPLITTER FOR HSR/RS-232 MP LOW SPEED DATA MODULE	-	DS5010760000	947	\$44.00
AIRMUX-400 DISH ANT.2FT. DUAL POL. GAIN 28DBI, 4.90-6.06 GHZ	-	DS5260180000	947	\$885.00
MEGAPLEX ALARM & DIAGNOSTIC MODULE	-	DS7644130000	947	\$862.00
MEGAPLEX DUAL T1 MAIN LINK	-	DS7643930000	947	\$1,971.00
DXC 3U 4-PORT T1 MODULE. BERT, LTU, LOOPBACK PER TS, FRAMED	-	DS7233100000	947	\$1,275.00
MEGAPLEX MP-4104 COMMON LOGIC 2, DSO CROSS CONNECT ONLY	-	DS6700130000	947	\$1,848.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE	-	DS3790010000	947	\$1,792.00
RADVIEW LICENSE, 1 ENW POINT	-	DS2170360000	947	\$7.00
SF2 RUGG SCADA & ROUTING,-48DC,2 GE SFP,8 FE UTP, 2 PORTS W/AIRMUX POE	-	DS6800280000	947	\$2,016.00
IPMUX-1E 4E&M MULTIPLEXER WITH ETHERNET PORT	-	DS1151290000	947	\$1,818.00
FCD WITH 2 SERIAL PORTS OVER T1	-	DS3900110000	947	\$728.00
IPMUX-24 PWE, 2 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881200000	947	\$2,033.00
MEGAPLEX FIBER ML-IP MAIN LINK,ST CONNECTOR,1310 NM LASER	-	DS7649690000	947	\$3,573.00
AIRMUX CABLE TERM KIT FOR OUTDOOR CABLES, INCL 10 GLANDS & 10 RJ-45	-	DS5260190000	947	\$140.00
Airmux-400P 250M ODU, Integrated ant (2x N-type), supp. 5.8 GHz FCC	-	DS3750030000	947	\$3,360.00
MEGAPLEX 200 WATT POWER SUPPLY MODULE FOR MP-2100	-	DS7651720000	947	\$1,109.00
RICI-T1 FAST ETHERNET TO T1 W/ EXTENDED TEMPERATURE RANGE	-	DS2750050000	947	\$795.00
RM-35P/RACK MOUNT KIT FOR 1/2 19 INCH, 1 DEVICE PER SHELF	-	DS1900540000	947	\$22.00
MEGAPLEX 2100 W/ NEW COMMON LOGIC, NO ML	-	DS7646140000	947	\$3,696.00
ETX-102 2 NETWORK SFP PORTS, 4 PORT 10/100BT ETHERNET SWITCH	-	DS3770410000	947	\$647.00
MEGAPLEX-4100 8-PORT T1 MODULE,3 UTP PORTS	-	DS4640370000	947	\$2,464.00
RM-17: RACK MOUNT KIT	-	DS1900160000	947	\$31.00
SFP GE DDM, INDUSTRIALLY HARDENED, 1610 NM, CWDM, 24 DB, BUDGET	-	DS1278830000	947	\$986.00
IPMUX-1E 4E&M MULTIPLEXER W/ ETHERNET & USER	-	DS1151220000	947	\$2,631.00
MEGAPLEX 4U MODULE, ETHERNET SWITCH, 10/100BT 4 UTP.	-	DS7649670000	947	\$1,971.00
MP-4100 T3 MODULE FOR THE MP-4	-	DS3680120000	947	\$3,696.00
RM-35 RACK MOUNT	-	DS8034260000	947	\$44.00
OP-106 4T1/ETH FIBERMUX,ST, 1310 NM, MM	-	DS5200450000	947	\$1,084.00
MEGAPLEX 16 T1 PORTS FOR MP-4100	-	DS4640810000	947	\$3,080.00
RADVIEW-PC CARRIER CLASS NETWORK MANAGEMENT SYSTEM	-	DS5760190000	947	\$9,856.00
ETX-102 1 NET PORT SM,1310NM,1 NULL/NET SFP PORT, 4 USER 10/100 PORTS	-	DS3770430000	947	\$764.00
MEGAPLEX 4 CHANNEL PCM VOICE MODULE, E&M	-	DS7651860000	947	\$739.00
IPMUX-216 PWE, 16 T1 PORTS, AC POWER,3 FE UTP RJ-45 ETH PORTS	-	DS4901180000	947	\$7,756.00
AIRMUX DC OUTDOOR POE, 10VDC-60VDC POWER FEEDING	-	DS5261220000	947	\$353.00
MEGAPLEX 2104 5 SLOT CHASSIS -48VDC, 1 COMMON LOGIC MODULE, & RINGER	-	DS7650730000	947	\$3,450.00
RICI-16- 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS RED POWER SUPPLY	-	DS2541130000	947	\$3,006.00
SFP SM, 1310NM, UP TO 15KM, LC, 100BASEFX OR STM1	-	DS1278020000	947	\$118.00
USE DS1278320000 SFP MM 850NM, UP TO 550M, LC CONN, 1000 BASE-SX	-	DS1278060000	947	\$68.00
ETX-1 ETH DEMARC SWITCH, AC, 2 EMPTY SFP SLOTS, 4 UTP PORTS,HARDENED	-	DS1960150000	947	\$924.00
MEGAPLEX 2 I/O SLOT BLANK PANEL FOR MP-2100	-	DS7645540000	947	\$18.00
MEGAPLEX 4 PORT RS-232 MEGAPLEX LOW SPEED DATA MODULE (HS-R)	-	DS7653140000	947	\$1,232.00
MEGAPLEX 16 PORT E&M CARD	-	DS7646750000	947	\$1,971.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE W/DUAL POWER SUPPLIES	-	DS3790020000	947	\$1,904.00
MEGAPLEX CBL CONVERT E&M INTRACAE 66-PIN SCSI CONN TO 8XRJ-45	-	DS0000AT0002	947	\$176.00
AIRMUX POE 100BASET/GE FOR AIRMUX-5000 BASE STATION W/AC POWER	-	DS6260210000	947	\$90.00
RICI-4T1- FAST ETHERNET OVER 4 X T1 NETWORK TERMINATION UNIT	-	DS4670120000	947	\$1,404.00
MEGAPLEX 2104 E1/T1 MULTIPLEXER W/O MAIN LINK+ETH	-	DS7651140000	947	\$2,464.00
MIRICI GIGABIT ETHERNET TO E1/T1 (WAN) CONVERTER.	-	DS5130040000	947	\$828.00
SFP MM, 1310NM, UP TO 2KM, LC, 100BASEFX OR STM1	-	DS1278010000	947	\$118.00
MEGAPLEX SINGLE SLOT I/O BLANK PANEL	-	DS7645530000	947	\$15.00
IPMUX-24 PWE, 1 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881190000	947	\$1,109.00
** USE DS1278180000** SFP SM, 1310NM, UP TO 40KM, LC, GBE, DDM	-	DS1278080000	947	\$355.00
IPMUX-1E 4E&M PORTS, 1-LC SM FIBER WAN PORT, 10/100BT USER ETHERNET AC	-	DS1152030000	947	\$3,191.00
VMUX COMPRESSED VOICE GATEWAY AC POWER, 8 E&M CHANNELS	-	DS1850340000	947	\$2,710.00
OP-125 FIBER MUX, 16 T1+ETHERNET, RED POWER, ALARM, 100 MBPS ETHERNET	-	DS4010650000	947	\$1,707.00

Advanced System Key Solution (ASK)
Configuration
Advanced System Key & Accessories

Description	Full Description	Nomenclature	APC	Price
MASTER SYSTEM KEY STARTER KIT	Ships with 1 master system key DS1996L iButton, 5 blank DS1996L iButtons, 5 USB dongles. ONLY compatible with XTS/XTL 1500, 2500, 5000 and APX radios.	DVN4046B	430	\$500.00
IC,64KBIT RAM & TIME I-BUTTON	Single DS1996L iButton, used with XTS/XTL 1500, 2500, 5000 and APX radios	5184054Y03	362	\$55.25
I-BUTTONS ASK REPLACEMENT DS1996	Quantity 5 blank DS1996L iButtons, used with XTS/XTL 1500, 2500, 5000 and APX radios	DVN4316	430	\$200.00
IC,4KBIT RAM & TIME I-BUTTON	Single DS1994L iButton, used with MCS and MTS radios. Limited Availability for Legacy and Astro Spectra Subscribers	5184054Y01	362	\$42.00
I-BUTTON FOR USB ADAPTOR	Quantity 5 blank DS1994L iButtons. Used for MCS and MTS radios. Limited Availability for Legacy and Astro Spectra Subscribers.	DVN4181	362	\$200.00
INTFC, SER, IC USB PORT ADPTR	Quantity 1 DS9490B USB Dongle. Compatible with DS1994L and DS1996L iButtons.	5.19E+81	280	\$47.00
ADV'D SYSTEM KEY READER REPLACEMENT	Quantity 5 DS9490B USB Dongles. Compatible with DS1994L and DS1996L iButtons.	DVN4050	362	\$400.00

800/900 MHz Receiver Multicouplers
Configuration
RFI PARTS

Description	Full Description	Nomenclature	APC	Price
8 PORT RECEIVER MULTICOUPLER, 698-690 MHZ, -48VDC, BNC	RFI PART#: RX6996-3408-31-48B SPEC SHEET LINK: TBD	DSRX699634083148B	457	\$5,077.00
8 PORT RECEIVER MULTICOUPLER, 698-690 MHZ, 110-240VAC, BNC	RFI PART#: RX6996-3408-31-ACB SPEC SHEET LINK: TBD	DSRX6996340831ACB	457	\$5,206.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
RMC06, 8 CH HIGH GAIN AMP UNIVRMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRM06-08CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRM06.B).pdf	DSDSRM0608CA	457	\$3,624.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRM06-08CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRM06.B).pdf	DSDSRM0608CD	457	\$4,245.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRM06-16CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRM06.B).pdf	DSDSRM0616CA	457	\$4,715.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRM06-16CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRM06.B).pdf	DSDSRM0616CD	457	\$4,945.00
RMC EXPANSION KIT, 16CH	DBSPECTRA PART#: DSRM06-EXP SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBCRM06.B).pdf	DSDSRM06EXP	457	\$690.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 796-901 MHZ, W/NO ALARM BO	www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf DBSPECTRA PART#: DSRM0616CAN SPEC SHEET LINK:	DSDSRM0616CAN	457	\$3,099.00
700-902 MHZ RXMC ASSEMBLY 8 CH DC	DBSPECTRA PART#: DSRM0608CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRM0608CDN	457	\$2,639.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 796-901 MHZ, W/NO ALA	DBSPECTRA PART#: DSRM0616CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRM0616CDN	457	\$3,328.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
896 901 MHZ QUAD RECEIVER MULTICOUPLER 16 PORT	TXRX PART#: 42-94C-02 SPEC SHEET LINK: TBD	DS4294C02	457	\$6,279.00
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, 110AC	TXRX PART#: 42-83J-05-08 SPEC SHEET LINK: https://drive.google.com/file/d/1RHzvzMAIIVnK84PxAkmmMYs-w09kzPBIV/view?usp=sharing	DS4283J0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, -48VDC	TXRX PART#: 42-83J-05-08-48 SPEC SHEET LINK: https://drive.google.com/file/d/1RHzvzMAIIVnK84PxAkmmMYs-w09kzPBIV/view?usp=sharing	DS4283J050848	457	\$4,485.00

UHF Band Receiver Multicouplers
Configuration

RFI PARTS		Full Description	Nomenclature	APC	Price
Description		RFI PART#: RX3852-3408-31-48 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/RX3852-3408-31_P-41831-1.pdf	DSRX385234083148	457	\$3,096.00
8 PORT ACTIVE QUADRATURE RECEIVER MULTICOUPLER, -48VDC, 200-550 MHZ					
TXRX AND COMBILIENT PARTS		Full Description	Nomenclature	APC	Price
Description		TXRX PART#: 42-53-01 SPEC SHEET LINK: TBD	DS425301	457	\$4,209.00
MULTICOUPLER, 220-400 MHZ, RX, 16 PORTS, BNC CONNECTOR		TXRX PART#: 42-53-01-08 SPEC SHEET LINK: TBD	DS42530108	457	\$3,015.00
MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC		TXRX PART#: 42-53-01-08-48 SPEC SHEET LINK: TBD	DS4253010848	457	\$3,189.00
RX MULTICOUPLER, COMPACT, 380-520 MHZ, 16 PORT EMC		TXRX PART#: 42-57-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS425701	457	\$3,450.00
MULTICOUPLER RX COMPACT 380-520 MHZ 4 W 'N'		TXRX PART#: 42-57-01-04N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570104N	457	\$2,553.00
MULTICOUPLER RX COMPACT 380-520 MHZ		TXRX PART#: 42-57-01-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108	457	\$3,243.00
MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC		TXRX PART#: 42-57-01-08-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS4257010848	457	\$3,015.00
MULTICOUPLER RX COMPACT 380-520 MHZ 8W N		TXRX PART#: 42-57-01-08N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N	457	\$3,243.00
MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, N CONNECTOR -48VDC		TXRX PART#: 42-57-01-08N-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N48	457	\$3,215.00
MULTICOUPLER, 380-512 MHZ, RX, 12 PORTS, N CONNECTOR		TXRX PART#: 42-57-01-12N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570112N	457	\$3,657.00
MULTICOUPLER, 380-512 MHZ, RX, 16 PORTS, N CONNECTOR		TXRX PART#: 42-57-01-16N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570116N	457	\$3,947.00
MULTICOUPLER, 380-512 MHZ, RX, 24 PORTS, N CONNECTOR		TXRX PART#: 42-57-01-24N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570124N	457	\$5,924.00
QUAD RCVR MTCPLR 380-520 MHZ 16 PORT -48VDC		TXRX PART#: 42-57-02-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-42-57-03.pdf	DS42570248	457	\$4,972.00
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT		TXRX PART#: 42-57-03 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-42-57-03.pdf	DS425703	457	\$3,302.00
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT -48 VDC		TXRX PART#: 42-57-03-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-42-57-03.pdf	DS42570348	457	\$3,302.00
QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT		TXRX PART#: 42-57-04 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-42-57-03.pdf	DS425704	457	\$3,039.00
QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT -48 VDC		TXRX PART#: 42-57-04-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-42-57-03.pdf	DS42570448	457	\$3,039.00
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 110AC		TXRX PART#: 42-57D-05-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC		TXRX PART#: 42-57D-05-08-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D050848	457	\$4,485.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 110VAC		TXRX PART#: 42-U-05-1 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42U051	457	\$3,080.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 48VDC		TXRX PART#: 42-U-05-1-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42U05148	457	\$3,676.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 110VAC		TXRX PART#: 42-UU-05-2 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UU052	457	\$4,485.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 48VDC		TXRX PART#: 42-UU-05-2-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UU05248	457	\$5,083.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF 110VAC		TXRX PART#: 42-UUU-05-3 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UUU053	457	\$5,884.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF, 48VDC		TXRX PART#: 42-UUU-05-3-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UUU05348	457	\$6,482.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF 110VAC		TXRX PART#: 42-UUUU-05-4 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UUUU054	457	\$7,284.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF, 48VDC		TXRX PART#: 42-UUUU-05-4-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42UUUU05448	457	\$7,284.00
RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR		TXRX-COMBILIENT PART#: CP00946 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00946	457	\$4,140.00
RMC 450 MHZ INCL. DUAL BAND PRE-SELECTOR		TXRX-COMBILIENT PART#: CP00950 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00950	457	\$7,360.00
RMC UHF 420 MHZ RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR		TXRX-COMBILIENT PART#: CP05444 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_Federal_DS18855_.pdf	DSCP05444	457	\$4,140.00

DBSPECTRA PARTS

Description		Full Description	Nomenclature	APC	Price
380-512MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING		DBSPECTRA PART#: BCRMC08U SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/DSBRCMC08.pdf	DSBRCMC08U	457	\$6,813.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-08BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0608BA	457	\$3,624.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ, NO ALARM BOARD.		DBSPECTRA PART#: DSRMC06-08BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0608BD	457	\$2,409.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-08BDN SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0608BDN	457	\$4,025.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-16BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0616BA	457	\$2,639.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-16BAAN SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0616BAAN	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-16BDN SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0616BDN	457	\$3,099.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-16BDN SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0616BDN	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350-512MHZ		DBSPECTRA PART#: DSRMC06-16ADN SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195 Rev Gta.pdf	DSDSRMC0616ADN	457	\$3,329.00
380-512 MHZ, 16 CH RXMC, WITH PDU, WITH DIGITAL CURRENT METER.		DBSPECTRA PART#: DBSMCP116B41 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DBSMCP_Series.pdf	DSDSMCP116B41	457	\$5,898.00

VHF Band Receiver Multicouplers
Configuration

DBSPECTRA PARTS		Full Description	Nomenclature	APC	Price
138-174MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING		DBSPECTRA # - BCRMC08V SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/DSBRCMC08.pdf	DSBRCMC08V	457	\$6,813.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ		DBSPECTRA # - DSRMC06-08AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0608AA	457	\$3,624.00
RXMC ASSEMBLY, 8CH AC		DBSPECTRA # - DSRMC0608AAAN SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195 Rev Gta.pdf	DSDSRMC0608AAAN	457	\$2,409.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ		DBSPECTRA # - DSRMC06-08ADN SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0608ADN	457	\$4,245.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150-174MHZ		DBSPECTRA # - DSRMC06-16AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195 Rev Gta.pdf	DSDSRMC0616AA	457	\$2,639.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ		DBSPECTRA # - DSRMC06-16AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195.B_(DSBRCMC06.B).pdf	DSDSRMC0616AA	457	\$4,715.00

RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616AA SPEC SHEET LINK - TBD	DSDSRMC0616AA	457	\$3,099.00
RMC06 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616AD SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195-B_(DSBCRMC06.B).pdf	DSDSRMC0616AD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616ADN SPEC SHEET LINK - TBD	DSDSRMC0616ADN	457	\$3,329.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-08JA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JA	457	\$3,624.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC06-08JD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JD	457	\$2,409.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-08JD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JD	457	\$3,854.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC06-08KA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KA	457	\$2,639.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-08KA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KA	457	\$3,624.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC06-08KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KAN	457	\$2,409.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-08KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KD	457	\$3,854.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC06-08KDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KDN	457	\$2,639.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-16JA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC06-16JAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JAN	457	\$3,099.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-16JD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC06-16JDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JDN	457	\$3,330.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-16KA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC06-16KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KAN	457	\$3,099.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-16KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC06-16KDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KDN	457	\$3,329.00

Accessories
TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, BNC CONNECTOR	TXRX # - SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS423301	457	\$3,450.00
MULTICOUPLER RX COMPACT 118-174MHZ 4W 'N'	TXRX # - SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330104N	457	\$2,553.00
MULTICPLR RX COMPACT 118-174 MHZ	TXRX # - SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108	457	\$3,243.00
MULTICPLR RX COMPACT 118-174MHZ 8W 'N'	TXRX # - SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N	457	\$3,243.00
MULTICPLR RX COMPACT 118-174 MHZ 8W 'N' CONN 220 VAC	TXRX # - SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N220	457	\$3,284.00
RECEIVER MULTICOUPLER 118-174 MHZ 12 N PORTS	TXRX # - 42-33-01-12N SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330112N	457	\$3,657.00
MULTICOUPLER, 118-174 MHZ, RX, 16 PORTS, N CONNECTOR	TXRX # - 42-33-01-16N SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330116N	457	\$3,915.00
MULTICOUPLER, 118-174 MHZ, RX, 24 PORTS, N CONNECTOR	TXRX # - 42-33-01-24N SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330124N	457	\$5,430.00
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	TXRX # - 42-36C-05-08 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS4236C0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	TXRX # - 42-36C-05-08-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS4236C050848	457	\$4,485.00
16 PORT QUADRATURE VHF RX MULTICOUPLER DECK	TXRX # - 42-38-02 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS423802	457	\$5,179.00
MULTI RX 132-174MHZ 16 W 48 VDC	TXRX # - 42-38-02-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42380248	457	\$5,179.00
MULTI RX 132-174 MHZ 16 W QUAD MOT -48VDC REDUNDANT SUPPLY	TXRX # - 42-38-02-48R SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42380248R	457	\$5,320.00
MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS423803	457	\$4,208.00
MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03N SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS423803N	457	\$4,693.00
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS423804	457	\$4,041.00
MULTI RX 132-174 MHZ 4 W QUAD MOT -48 VDC	TXRX # - 42-38-04-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42380448	457	\$4,041.00
MULTI RX 132-174 MHZ 8 W QUAD MOT -48 VDC	TXRX # - 42-38-03-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42380348	457	\$4,208.00
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04N SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS423804N	457	\$4,052.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 110VAC	TXRX # - 42-V-05-1 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42V051	457	\$3,191.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 48VDC	TXRX # - 42-V-05-1-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42V05148	457	\$3,787.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 110VAC	TXRX # - 42-VV-05-2 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VV052	457	\$4,706.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 48VDC	TXRX # - 42-VV-05-2-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VV05248	457	\$5,303.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF 110VAC	TXRX # - 42-VVV-05-3 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VVV053	457	\$6,216.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF, 48VDC	TXRX # - 42-VVV-05-3-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VVV05348	457	\$6,813.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF 110VAC	TXRX # - 42-VVVV-05-4 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VVVV054	457	\$7,725.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF, 48VDC	TXRX # - 42-VVVV-05-4-48 SPEC SHEET LINK - http://btgmotorola.securesites.com/Rx%20Multicouplers/RMC07%20Datashet.pdf	DS42VVVV05448	457	\$8,323.00
RECEIVE MULTICOUPLER, 8 PORT EXPANSION KIT	TXRX PART#: 42-05-05-08-EXP SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzslMAiVnK84PxAkNmMYs-w09kzPBView?usp=sharing	DS42050508EXP	457	\$1,537.00

RF POWER MONITOR
Configuration
COMBILIENT PARTS

Description	Full Description	Nomenclature	APC	Price
FREQUENCY SELECTICE DPM UHF	COMBILIENT - TXRX PART#: CP01109 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01109	457	\$3,450.00
FREQUENCY SELECTICE DPM 7800 MHZ	COMBILIENT - TXRX PART#: CP01110 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01110	457	\$3,450.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
ADVANCED POWER MONITOR, 132-174 MHZ, 36-60 V DC (INC SINGLE COUPLER)	RFI PART#: APM1317K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM1317K248-Advanced-Power-Monitor.pdf	DSAPM1317K248	457	\$5,253.00
ADVANCED POWER MONITOR, 132-174 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM1317K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM1317K2AC-Advanced-Power-Monitor.pdf	DSAPM1317K2AC	457	\$6,171.00

Description	Full Description	Nomenclature	APC	Price
ADVANCED POWER MONITOR, 380-520 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2	457	\$5,870.00
ADVANCED POWER MONITOR, 380-520 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART #: APM3852-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART #: APM7487-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART #: APM7487-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM7487-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 380-520 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 870-960 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248	351	\$5,870.00
ADVANCED POWER MONITOR, 870-960 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2AC	351	\$6,000.00
UPLOADER SOFTWARE LICENSE FOR APM, SINGLE PC, 2 YEARS	RFI PART#: RUP-001 SPEC SHEET LINK: TBD	DSRUP001	457	\$1,150.00
RECEIVE SYSTEMS MONITOR, 36-60VDC	RFI PART#: RSM0000-48 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 48VDC APM'S	DSRSM000048	351	\$1,742.00
ADVANCED POWER MONITOR, 870-960 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2	351	\$5,870.00
ANT LINE COUPLER 380-550MHZ 40DB 4-PORTS SUIT APM3852 SERUES 750W 1 RU	RFI PART#: SP3855-4440-DF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSP38554440DF1RU	351	\$805.00
ANT LINE COUPLER 130-180MHZ 40DB 4-PORTS SUIT APM1317 SERIES 750W 1RU	RFI PART#: SP1318-2440-DF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSP13182440DF1RU	351	\$1,156.00
RECEIVE SYSTEMS MONITOR, 9-36VDC	RFI PART #: RSM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 110VAC & 12VDC APM'S	DSRSM0000	351	\$1,742.00
SITE ALARM MODULE, TEMPERATURE SENSOR, -67 TO +257 DEGREES F	RFI PART#: SAM0000-TS SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000TS	351	\$117.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 9-36VDC	RFI PART#: SAM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000	351	\$3,547.00
ANT LINE COUPLER 740-960MHZ 40DB 4-PORTS SUIT APM748 AND APM8796	RFI PART#: SP7496-4440-DF1RU SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSP74964440DF1RU	351	\$706.00
ADVANCED POWER MONITOR 132-174MHZ 36-60VDC/110-240VAC	RFI PART#: APM1317-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K248AC	457	\$6,171.00
ADVANCED POWER MONITOR 380-520MHZ 36-60VDC/110-240VAC	RFI PART#: APM3852-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 740-870MHZ 36-60VDC/110-240VAC	RFI PART#: APM7487-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 870-960MHZ 36-60VDC/110-240VAC	RFI PART#: APM8796-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248AC	351	\$6,000.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 36-60VDC	RFI PART#: SAM0000-48 | SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM41323-1-Advanced-Power-Monitor.pdf	DSSAM000048	351	\$3,546.00
DIRECTIONAL COUPLER, 698-2700MHZ, 10DB, 3 PORTS, PIM RATED, N CONNECTO	DBSPECTRA PART#: SP6927-2310-11 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927231011	457	\$151.00
DIRECTIONAL COUPLER, 698-2700MHZ, 20DB, 3 PORTS, PIM RATED, N CONNECT	DBSPECTRA PART#: SP6927-2320-11 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927232011	457	\$153.00
ANTENNA SYSTEM,POWER SUPPLY	RFI PART#: APM0000SAC SPEC SHEET LINK: TBD	DSAPM0000SAC	351	\$189.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSADFAC	457	\$3,623.00
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSADFDC	457	\$3,623.00
138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSANFAC	457	\$3,508.00
138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSANFDC	457	\$3,623.00
UHF POWER MONITOR (AC MODEL) BIDIRECTIONAL, 350 - 512 MHZ, 2 RU PANEL	DBSPECTRA PART#: DSXPM5B-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSBDFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSBDFDC	457	\$3,623.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5B-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSBNFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSBNFDC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5C-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSCDFAC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5C-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSCDFDC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5C-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSCNFAC	457	\$3,508.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5C-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000_298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPMSCNFDC	457	\$3,623.00
138-150 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA1DDC	457	\$3,623.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMA2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DAC	457	\$3,508.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DDC	457	\$3,623.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DAC	457	\$3,508.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DDC	457	\$3,623.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DAC	457	\$3,508.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DDC	457	\$3,623.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DAC	457	\$3,508.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DDC	457	\$3,623.00
763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DAC	457	\$3,508.00
763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DDC	457	\$3,623.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DAC	457	\$3,508.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DDC	457	\$3,623.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DAC	457	\$3,508.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DDC	457	\$3,623.00

RF 1-1/4" CABLES AND ACCESSORIES
EUPEN 1-1/4" CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650A	DSEC650A	351	\$8.85
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650AHLFR	DSEC650AHLFR	351	\$11.25

EUPEN 1-1/4" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC6-50-A	DBSPECTRA PART#: 4.3-10F50V114N1 SPEC SHEET LINK: https://drive.google.com/open?id=1mCnRku2nFddKcQc_VxlDG6C9nee8a3z	DS4310F50V114N1	351	\$117.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V114N1	DS716F50V114N1	351	\$106.00
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V114N1	DS716M50V114N1	351	\$106.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NFS50V114N1	DSNF50V114N1	351	\$109.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NMS50V114M	DSNM50V114M	351	\$109.00

EUPEN 1-1/4" CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
1 1/4" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F114	DSF114	351	\$580.00
TORQUE WRENCH FOR BACK NUT 1 1/4" CONNECTORS	EUPEN PART#: TQ1116F29	DSTQ1116F29	351	\$270.00
GROUND KIT PREP TOOL FOR 1 1/4" FOAM COAX CABLE	EUPEN PART#: GKTEC6	DSGKTEC6	351	\$270.00
7/16 DIN TORQUE WRENCH	EUPEN PART#:	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
1 1/4" MINI KIT	EUPEN PART#: TK-114	DSTK114	351	\$960.00

EUPEN 1-1/4" CABLE ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1 1/4" CABLE, EACH	EUPEN PART#: BA-114-1A	DSBA114A	351	\$23.50
BARREL CUSHION, UNIVERSAL FOR 1-1/4" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U114	DSBCU114	351	\$32.00
BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX, PKG OF 10	EUPEN PART#: BH-114	DSBH114	351	\$54.50
HANGER CLAMP BLOCKS FOR 1-1/4", KIT OF 10	EUPEN PART#: CB-A114	DSBA114	351	\$24.75
CLIP ON GROUND KIT FOR 1 1/4" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO H	EUPEN PART#: GK-C114	DSGKC114	351	\$23.50
STANDARD GROUND KIT FOR 1 1/4" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO	EUPEN PART#: GK-S114	DSGKS114	351	\$22.00
HG-114, LACE-UP HOISTING GRIP FOR 1-1/4" AIRCELL COAX	EUPEN PART#: HG-114	DSHG114	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	EUPEN PART#: HG-114L	DSHG114L	351	\$74.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1 1/4" CABLE , EACH	EUPEN PART#: SC-114-1	DSSC1141	351	\$11.25
STACKABLE SNAP-IN HANGER FOR 11M AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S114	DSSSH114	351	\$66.00
SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U114	DSSHU114	351	\$52.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
AT114J50, 1-1/4" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT114J50	DSAT114J50	351	\$9.25
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114FX50	DSAT114FX50	351	\$8.55
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114FV50	DSAT114FV50	351	\$8.95
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114R50	DSAT114R50	351	\$9.75
AR114J50, 1-1/4" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AR114J50	DSAR114J50	351	\$10.75
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114FX50	DSAR114FX50	351	\$16.25
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AR114FV50	DSAR114FV50	351	\$18.25
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114R50	DSAR114R50	351	\$20.25
1-1/4" RADIATING, 50 OHM, 150 - 1000 MHz, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR114FV50-2C	DSAR114FV502C	351	\$19.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
SITE EQUIPMENT, NMA11450, N MALE FOR 1-1/4"	TRILOGY PART#: NMA11450	DSNMA11450	351	\$202.00
NFA11450, N FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: NFA11450	DSNFA11450	351	\$182.00
DMA11450, 7/16 DIN MALE FOR 1-1/4" CABLE	TRILOGY PART#: DMA11450	DSDMA11450	351	\$202.00
DFA11450, 7/16 DIN FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: DFA11450	DSDFA11450	351	\$201.00
4.3-10 FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: 43FA11450 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/43FA11450-Spec.pdf	DS43FA11450	351	\$195.00
4.3-10 MALE FOR 1-1/4" CABLE	TRILOGY PART#: 43MA11450 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/43MA11450-Spec.pdf	DS43MA11450	351	\$195.00

TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT11450P, POWER PREP TOOL FOR 1-1/4" CABLE	TRILOGY PART#: CT11450P	DSCT11450P	351	\$798.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114158RB/3PK	DSCT114158RB3PK	351	\$420.00

RF 1/2" CABLES AND ACCESSORIES
EUPEN 1/2" STANDARD, COAXIAL, AND HI-FLEX CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC450	DSEC450	351	\$2.60
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450PL	DSEC450PL	351	\$3.10
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450HLFR	DSEC450HLFR	351	\$3.35
COAXIAL CABLE, 1/2" HI-FLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC450HF	DSEC450HF	351	\$2.95
COAXIAL CABLE, 1/2" HI-FLEX, 50 OHM CORRUGATED COPPER	EUPEN PART#: EC450HHLFR	DSEC450HHLFR	351	\$3.80
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450-PL-BLK	DSEC450PLBLK	183	\$3.75
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450-PL-BLU	DSEC450PLBLU	183	\$3.75
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450-PL-RED	DSEC450PLRED	183	\$3.75
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450-PL-WHT	DSEC450PLWHT	183	\$3.75

EUPEN 1/2" STANDARD AND HI-FLEX CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50	EUPEN PART#: 716F50V12N1	DS716F50V12N1	351	\$24.50
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	EUPEN PART#: 716M50V12N1	DS716M50V12N1	351	\$24.50
CONNECTOR, N FEMALE INTERFACE FOR EC4-50	EUPEN PART#: NFS0V12	DSNF50V12	351	\$24.50
CONNECTOR, N MALE INTERFACE FOR EC4-50	EUPEN PART#: NMS0V12	DSNM50V12	351	\$24.50
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC4-50	EUPEN PART#: 4310F50V12N1	DS4310F50V12N1	351	\$27.00
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50	EUPEN PART#: 4310M50V12N1	DS4310M50V12N1	351	\$27.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: 716M50V12	DS716M50V12	351	\$44.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: NMS0V12	DSNM50V12	351	\$44.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716F50B12X	DS716F50B12X	351	\$29.25
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50B12X	DS716M50B12X	351	\$29.25
CONNECTOR, N FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NFS0B12X	DSNF50B12X	351	\$29.25
CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NMS0B12X	DSNM50B12X	351	\$29.25
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 4310M50B12X	DS4310M50B12X	351	\$32.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50B12X	DS716M50B12X	351	\$47.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: NMS0B12X	DSNM50B12X	351	\$47.00

EUPEN 1/2" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/2" STANDARD CONNECTORS	EUPEN PART#: SPTC50AV12	DSSTC50AV12	351	\$260.00
CONNECTORS PREP TOOL FOR 1/2" STANDARD CONNECTORS, PLENUM CABLE	EUPEN PART#: SPTC50AV12F	DSSTC50AV12F	351	\$540.00
TORQUE WRENCH BACK NUT 1/2" STANDARD AND HI-FLEX CONNECTORS	EUPEN PART#: TQ34F20	DSTQ34F20	351	\$220.00
GROUND KIT PREP TOOL FOR 1/2" STANDARD FOAM COAX CABLE	EUPEN PART#: GKTEC4	DSGKTEC4	351	\$230.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

EUPEN 1/2" ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-1A	DSBA121A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 2 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-2A	DSBA122A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 3 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-3A	DSBA123A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 4 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-4A	DSBA124A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 5 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-5A	DSBA125A	351	\$23.50
BARREL CUSHION, UNIVERSAL FOR 1/2" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U12	DSBCU12	351	\$18.00
BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX, PKG OF 10	EUPEN PART#: BH-12	DSBH12	351	\$54.50
HANGER CLAMP BLOCKS FOR 1/2", KIT OF 10	EUPEN PART#: CB-A12	DSBA12	351	\$12.00
CLIP ON GROUND KIT FOR 1/2" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HO	EUPEN PART#: GK-C12	DSGKC12	351	\$12.25
STANDARD GROUND KIT FOR 1/2" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HO	EUPEN PART#: GK-S12	DSGKS12	351	\$12.00
HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX	EUPEN PART#: HG-12	DSHG12	351	\$49.00
PRE-LACED HOISTING GRIP FOR 1/2" STANDARD CABLES, EACH	EUPEN PART#: HG-12L	DSHG12L	351	\$23.00
STANDARD PORT CUSHION W/ 1 HOLE FOR 1/2 AIRCELL COAX	EUPEN PART#: SC-12-1	DSSC121	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 1/2 AIRCELL COAX	EUPEN PART#: SC-12-2	DSSC122	351	\$11.25
STANDARD PORT CUSHION W/ 3 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-3	DSSC123	351	\$5.20
STANDARD PORT CUSHION W/ 4 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-4	DSSC124	351	\$5.20
STANDARD PORT CUSHION W/ 5 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-5	DSSC125	351	\$5.20
STACKABLE SNAP-IN HANGER FOR 1/2" AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S12	DSSSH12	351	\$66.00
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U12	DSSHU12	351	\$52.00
CONNECTOR PREP TOOL FOR 1/2" HI-FLEX RIGHT ANGLE CONNECTORS	EUPEN PART#: SPTC50B12X	DSSTC50B12X	351	\$250.00

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CABLES

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
AT012J50, 1/2" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT012J50	DSAT012J50	351	\$2.00
AT012J50, 1/2IN TRANSMISSION LINE, 50OHM, FIRE RETARDANT PER FT	TRILOGY PART#: AT012FX50	DSAT012FX50	351	\$3.60
1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012FV50	DSAT012FV50	351	\$1.90
1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012R50	DSAT012R50	351	\$2.00
AP6012J50, 1/2" PLENUM, 50OHM, CORRUGATED, JCKTED UL-910, CATVP PER FT	TRILOGY PART#: AP6012J50	DSAP6012J50	183	\$3.00
1/2" RED PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP.	TRILOGY PART#: AP6012J50-RD	DSAP6012J50RD	183	\$3.30
1/2" BLUE PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP.	TRILOGY PART#: AP6012J50-BU	DSAP6012J50BU	351	\$3.75
1/2" GRAY PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP	TRILOGY PART#: AP6012J50-GY	DSAP6012J50GY	351	\$3.75
AR012J50, 1/2 RADIATING, PER FT	TRILOGY PART#: AR012J50	DSAR012J50	183	\$4.80
1/2" RED PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED	TRILOGY PART#: AP0012J50-RD	DSAP0012J50RD	183	\$5.50
1/2IN PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP	TRILOGY PART#: AP0012J50	DSAP0012J50	183	\$3.50
AQ012J50, 1/2 PLENUM RAD, PER FT	TRILOGY PART#: AQ012J50	DSAQ012J50	183	\$4.00
1/2 PLENUM RADIATING, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#: AQ0012J50	DSAQ0012J50	351	\$13.00
AP012U50, 1/2" CONDUIT CABLE, 50OHM, CORRUGATED, UL-444 PER FT	TRILOGY PART#: AP012U50	DSAP012U50	351	\$3.50
1/2" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR012FX50	DSAR012FX50	351	\$7.40
1/2IN RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JA	TRILOGY PART#: AR012R50	DSAR012R50	183	\$8.40
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, BLACK POLYETHYLENE JACKET	TRILOGY PART#: AC012J50	DSAC012J50	351	\$2.65
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AC012R50	DSAC012R50	351	\$3.70
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#: ACC012J50	DSACC012J50	351	\$4.25
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW-SMOKE	TRILOGY PART#: ACC012R50	DSACC012R50	351	\$4.90

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NMA01250B	DSNMA01250B	351	\$35.25
N FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NFA01250B	DSNFA01250B	351	\$35.25
7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DMA01250B	DSDMA01250B	351	\$35.25
4.3-10 FEMALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43FA01250B SPEC SHEET LINK: http://www.trilogyrf.com/wp-content/uploads/2018/12/43FA01250B-Spec.pdf	DS43FA01250B	351	\$39.00
7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DFA01250B	DSDFA01250B	351	\$35.25
4.3-10 MALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43MA01250B	DS43MA01250B	351	\$39.00
4.3-10 MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: 43MP01250-PIM	DS43MP01250-PIM	351	\$40.00
4.3-10 FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: 43FP01250-PIM	DS43FP01250-PIM	351	\$40.00
4.3-10 MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: 43MPR01250-PIM	DS43MPR01250-PIM	351	\$62.00
DMP01250, DIN MALE FOR 1/2" CABLE	TRILOGY PART#: DMP01250	DSDMP01250	351	\$30.25
DIN MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DMP01250-PIM	DSDMP01250-PIM	351	\$38.50
DMP01250, DIN FEMALE FOR 1/2" CABLE	TRILOGY PART#: DFP01250	DSDFP01250	351	\$30.25
DIN FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DFP01250-PIM	DSDFP01250-PIM	351	\$38.50
DMPR01250, 1/2" DIN MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: DMPR01250	DSDMPR01250	351	\$57.00
DIN MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: DMPR01250-PIM	DSDMPR01250-PIM	351	\$60.50
NMP01250, N MALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NMP01250	DSNMP01250	351	\$30.25
N MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: NMP01250-PIM	DSNMP01250-PIM	351	\$38.50
NMPR01250, 1/2" N MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: NMPR01250	DSNMPR01250	351	\$57.00
N MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: NMPR01250-PIM	DSNMPR01250-PIM	351	\$60.50
NFP01250, N FEMALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NFP01250	DSNFP01250	351	\$30.25
N FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: NFP01250-PIM	DSNFP01250-PIM	351	\$38.50

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT TOOLS AND WRENCHES				
Description	Full Description	Nomenclature	APC	Price
CT01250AIO-2, PREP TOOL FOR 1/2" CABLE, 50 OHM	TRILOGY PART#: CT01250AIO-2	DSCT01250AIO2	351	\$476.00
PREP TOOL FOR 1/2" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT01250AIO	DSCT01250AIO	351	\$476.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIO-2RB/3PK	DSCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIORB2PK	DSCTAIORB2PK	351	\$42.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRILOGY PART#: W-CU	DSWCU	351	\$231.00

RF 1/4" CABLES AND ACCESSORIES

EUPEN 1/4" STANDARD AND HI-FLEX CABLES				
Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/4" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC150	DSEC150	351	\$2.10
COAXIAL CABLE, 1/4" HI-FLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC150HF	DSEC150HF	351	\$2.20

EUPEN 1/4" STANDARD AND HI-FLEX CABLE CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR, N FEMALE INTERFACE FOR EC1-50	EUPEN PART#: NMF50V14	DSNMF50V14	351	\$24.25
CONNECTOR, N MALE INTERFACE FOR EC1-50	EUPEN PART#: NMM50V14	DSNMM50V14	351	\$24.25
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50B14X	DS716M50B14X	351	\$25.75
CONNECTOR, N FEMALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NMF50B14X	DSNF50B14X	351	\$25.75
CONNECTOR, N MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NMM50B14X	DSNMM50B14X	351	\$25.75
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50BL14X	DS716M50BL14X	351	\$35.25
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: NMM50BL14X	DSNMM50BL14X	351	\$35.25

EUPEN 1/4" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/4" STANDARD CONNECTORS	EUPEN PART#: SPTCS50AV14	DSSTCS50AV14	351	\$220.00
CONNECTOR PREP TOOL FOR 1/4" HI-FLEX CONNECTORS	EUPEN PART#: SPTCS50B14X	DSSTCS50B14X	351	\$220.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 1/4" CABLE PARTS

Description	Full Description	Nomenclature	APC	Price
1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW S	TRILOGY PART#: ACC014J50 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/ACC014J50-Spec.pdf	DSACC014J50	351	\$2.75
1/4" PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP,	TRILOGY PART#: APC014J50 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/ACC014J50-Spec.pdf	DSAPC014J50	351	\$5.75

TRILOGY 1/4" CABLE CONNECTOR PARTS				
Description	Full Description	Nomenclature	APC	Price
N FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NFA01450	DSNFA01450	351	\$23.50
N MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMA01450	DSNMA01450	351	\$23.50
CONNECTOR 4.3-10 FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: 43FA01450	DS43FA01450	351	\$28.25
CONNECTOR 4.3-10 MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: 43MA01450	DS43MA01450	351	\$28.25
CONNECTOR 7/16 DIN FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: DFA01450	DSDFA01450	351	\$28.25
CONNECTOR 7/16 DIN MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: DMA01450	DSDMA01450	351	\$28.25
CONNECTOR QMA MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: QMA01450	DSQMA01450	351	\$23.50
CONNECTOR TNC MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: TNA01450	DSRNA01450	351	\$23.50
CONNECTOR BNC MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: BNA01450	DSBNA01450	351	\$23.50
CONNECTOR MINI UHF FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: MUA01450	DSMUA01450	351	\$23.50

TRILOGY 1/4" CABLE ACCESSORIES
 A FULL LIST OF TOOLS AND ACCESSORIES IS AVAILABLE ON THE FOLLOWING PCAT PAGE:
RF CABLES - GENERAL TOOLS AND ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
N FEMALE BULKHEAD FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NFB0A1450	DSNFB0A1450	351	\$27.25
N MALE RIGHT ANGLE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMR0A1450	DSNMR0A1450	351	\$35.25

RF 1-5/8" CABLES AND ACCESSORIES

EUPEN 1-5/8" CABLES				
Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750A	DSEC750A	351	\$9.50
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750AHLFR	DSEC750AHLFR	351	\$12.00

EUPEN 1-5/8" CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC7-50-A	EUPEN PART#: 4.3-10F50V158N1	DS4310F50V158N1	351	\$145.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V158N1	DS716F50V158N1	351	\$132.00



Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V158N1	DS716M50V158N1	351	\$132.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NF50V158N1	DSNF50V158N1	351	\$136.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NM50V158N1	DSNM50V158N1	351	\$136.00
EUPEN 1-5/8" TOOLS AND TORQUE WRENCHES				
Description	Full Description	Nomenclature	APC	Price
1 5/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F158	DSF158	351	\$580.00
TORQUE WRENCH FOR BACK NUT 1 5/8" CONNECTORS	EUPEN PART#: TQ214F37	DSTQ214F37	351	\$270.00
GROUND KIT PREP TOOL FOR 1 5/8" FOAM COAX CABLE	EUPEN PART#: GKTEC7	DSGKTEC7	351	\$300.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
1 5/8" MINI KIT	EUPEN PART#: TK-158	DSTK158	351	\$980.00
EUPEN 1-5/8" CABLE ACCESSORIES				
Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1 5/8" CABLE, EACH	EUPEN PART#: BA-158-1A	DSBA1581A	351	\$23.50
BARREL CUSHION, UNIVERSAL FOR 1-5/8" HANGER, CABLE RANGE 14MM - 25MM.	EUPEN PART#: BC-U158	DSBCU158	351	\$38.00
BH-158 BUTTERFLY HANGER FOR 1-5/8 AIRCELL COAX,PKG OF 10	EUPEN PART#: BH-158	DSBH158	351	\$54.50
HANGER CLAMP BLOCKS FOR 1-5/8", KIT OF 10	EUPEN PART#: CBA158	DSBA158	351	\$29.50
CLIP ON GROUND KIT FOR 1 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO H	EUPEN PART#: GK-C158	DSGKC158	351	\$21.25
STANDARD GROUND KIT FOR 1 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO	EUPEN PART#: GK-S158	DSGKS158	351	\$21.00
HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	EUPEN PART#: HG-158	DSHG158	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-5/8" AIRCELL COAX	EUPEN PART#: HG-158L	DSHG158L	351	\$74.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1-5/8" AIRCELL COAX	EUPEN PART#: SC-158-1	DSSC1581	351	\$11.25
STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S158	DSHS158	351	\$66.00
SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U158	DSSHU158	351	\$52.00
TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CABLES				
Description	Full Description	Nomenclature	APC	Price
AT158J50, 1-5/8" TRANSMISSION LINE, 50 OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT158J50	DSAT158J50	351	\$17.25
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158FX50	DSAT158FX50	351	\$11.00
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158FV50	DSAT158FV50	351	\$11.50
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158R50	DSAT158R50	351	\$12.50
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FX50	DSAR158FX50	351	\$23.75
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FV50	DSAR158FV50	351	\$26.50
1-5/8" RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR158FV50-1B	DSAR158FV501B	351	\$27.25
1-5/8" RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR158FV50-1C	DSAR158FV501C	351	\$27.25
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158R50	DSAR158R50	351	\$29.00
TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
NFA15850, N FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: NFA15850	DSNFA15850	351	\$221.00
DMA15850, 7/16 DIN MALE FOR 1-5/8" CABLE	TRILOGY PART#: DMA15850	DSDMA15850	351	\$200.00
DFA15850, 7/16 DIN FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: DFA15850	DSDFA15850	351	\$200.00
4.3-10 FEMALE FOR 1-5/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT15850P)	TRILOGY PART#: 43FA15850B SPEC SHEET LINK: TBD	DS43FA15850B	351	\$234.00
TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM TOOLS				
Description	Full Description	Nomenclature	APC	Price
CT15850P, POWER PREP TOOL FOR 1-5/8 INCH CABLE	TRILOGY PART#: CT15850P	DSCT15850P	351	\$1,036.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114/158RB/3PK	DSCT114/158RB3PK	351	\$420.00

RF 5/8" CABLES AND ACCESSORIES

EUPEN 5/8" CABLES				
Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 5/8" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC4550	DSEC4550	351	\$4.85
EUPEN 5/8" CABLE CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR, N FEMALE INTERFACE FOR EC4-50	EUPEN PART#: NF50V58	DSNF50V58	351	\$52.25
CONNECTOR, N MALE INTERFACE FOR EC4-50	EUPEN PART#: NM50V58	DSNM50V58	351	\$52.25
EUPEN 5/8" TOOLS AND TORQUE WRENCHES				
Description	Full Description	Nomenclature	APC	Price
5/8" CABLE PREP TOOL	EUPEN PART#: SPTC50AV58	DSSPTC50AV58	351	\$540.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
EUPEN 5/8" ACCESSORIES				
Description	Full Description	Nomenclature	APC	Price
BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX,PKG OF 10	EUPEN PART#: BH-58	DSBH58	351	\$54.50
CLIP ON GROUND KIT FOR 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HOL	EUPEN PART#: GK-C58	DSGKC58	351	\$26.00
STANDARD GROUND KIT FOR 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HO	EUPEN PART#: GK-S58	DSGKS58	351	\$26.00
HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	EUPEN PART#: HG-58	DSHG58	351	\$67.25
PRE-LACED HOISTING GRIP FOR 5/8" CABLES, EACH	EUPEN PART#: HG-58L	DSHG58L	351	\$14.50
STANDARD PORT CUSHION W/ 1 HOLE FOR 5/8 AIRCELL COAX	EUPEN PART#: SC-58-1	DSSC581	351	\$11.25
STANDARD PORT CUSHION W/ 3 HOLE FOR 5/8" CABLE, EACH	EUPEN PART#: SC-58-3	DSSC583	351	\$4.80
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U58	DSSHU58	351	\$52.00

RF 7/8" CABLES AND ACCESSORIES

EUPEN 7/8" CABLES				
PRICE IS PER FOOT				
Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 7/8 IN 50 OHM CORRUGATED COPPER W/ BLACK PE	EUPEN PART#: EC550A	DSEC550A	351	\$4.45
COAXIAL CABLE, "A" SERIES 7/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC550AHLFR	DSEC550AHLFR	351	\$5.60
EUPEN 7/8" CABLE CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716F50V78N1	DS716F50V78N1	351	\$34.75
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716M50V78N1	DS716M50V78N1	351	\$34.75
CONNECTOR, N FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: NF50V78N1	DSNF50V78N1	351	\$34.75
CONNECTOR, N MALE INTERFACE FOR EC5-50-A	EUPEN PART#: NM50V78N1	DSNM50V78N1	351	\$34.75
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 4310F50V78N1	DS4310F50V78N1	351	\$38.25
EUPEN 7/8" CABLE TOOLS AND TORQUE WRENCHES				
Description	Full Description	Nomenclature	APC	Price
7/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F78	DSF78	351	\$580.00
TORQUE WRENCH FOR BACK NUT 7/8" CONNECTORS	EUPEN PART#: TQ30MMF22	DSTQ30MMF22	351	\$220.00
GROUND KIT PREP TOOL FOR 7/8" FOAM COAX CABLE	EUPEN PART#: GK-CT5	DSGKCT5	351	\$240.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
EUPEN 7/8" CABLE ACCESSORIES				
Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-1A	DSBA781A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 2 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-2A	DSBA782A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 3 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-3A	DSBA783A	351	\$23.50
4" BOOT ASSEMBLY KIT W/ 4 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-4A	DSBA784A	351	\$23.50
BARREL CUSHION, UNIVERSAL FOR 7/8" HANGER, CABLE RANGE 14MM - 25MM.	EUPEN PART#: BC-U78	DSBCU78	351	\$22.00
BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX,PKG OF 10	EUPEN PART#: BH-78	DSBH78	351	\$54.50
HANGER CLAMP BLOCKS FOR 7/8", KIT OF 10	EUPEN PART#: CB-A78	DSBA78	351	\$18.25
CLIP ON GROUND KIT FOR 7/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HOL	EUPEN PART#: GK-CT5	DSGKCT5	351	\$21.50
HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX	EUPEN PART#: HG-78	DSHG78	351	\$67.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 7/8 AIRCELL COAX	EUPEN PART#: SC-78-1	DSSC781	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: SC-78-2	DSSC782	351	\$4.80
STANDARD PORT CUSHION W/ 3 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: SC-78-3	DSSC783	351	\$4.80
STANDARD PORT CUSHION W/ 4 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: SC-78-4	DSSC784	351	\$4.80
STACKABLE SNAP-IN HANGER FOR 7/8" AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S78	DSHS78	351	\$66.00
SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U78	DSSHU78	351	\$52.00
TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM CABLES				



Updated Pricing for contract 4400016317 as of January 2022

PRICE IS PER FOOT

Description	Full Description	Nomenclature	APC	Price
7/8" TRANSMISSION LINE, 50 OHM, UNJACKETED	TRIOLOGY PART#: AT078U50	DSAT078U50	351	\$4.20
AT078J50, 7/8" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRIOLOGY PART#: AT078J50	DSAT078J50	351	\$4.80
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRIOLOGY PART#: AT078FV50	DSAT078FV50	351	\$4.40
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRIOLOGY PART#: AT078FV50	DSAT078FV50	351	\$4.65
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRIOLOGY PART#: AT078R50	DSAT078R50	351	\$5.05
AR078J50, 7/8" RADIATING, PER FT	TRIOLOGY PART#: AR078J50	DSAR078J50	183	\$6.40
TRANSMISSION LINE, 7/8IN RADIATING, 50 OHM, LOW-SMOKE, FIRE RETARDANT J	TRIOLOGY PART#: AR078FX50	DSAR078FX50	183	\$6.60
7/8 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRIOLOGY PART#: AR078FV50	DSAR078FV50	351	\$11.00
7/8IN RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRIOLOGY PART#: AR078R50	DSAR078R50	183	\$10.75
7/8 RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRIOLOGY PART#: AR078FV50-3B	DSAR078FV50B	351	\$11.75
7/8 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRIOLOGY PART#: AR078FV50-3C	DSAR078FV503C	351	\$11.75
TRIOLOGY 7/8" 50 OHM AND RADIATING 50 OHM CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
4.3-10 FEMALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRIOLOGY PART#: 43FA01250B	DS43FA01250B	351	\$39.00
N MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRIOLOGY PART#: NMA07850B	DSNMA07850B	351	\$50.25
N FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRIOLOGY PART#: NFA07850B	DSNFA07850B	351	\$50.25
7/16 DIN MALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRIOLOGY PART#: DSDMA07850B	DSDMA07850B	351	\$50.25
7/16 DIN FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)	TRIOLOGY PART#: DSDFA07850B	DSDFA07850B	351	\$50.25
4.3-10 MALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	TRIOLOGY PART#: 43MA07850B	DS43MA07850B	351	\$52.00
4.3-10 FEMALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	TRIOLOGY PART#: 43FA07850B	DS43FA07850B	351	\$52.00
TRIOLOGY 7/8" 50 OHM AND RADIATING 50 OHM TOOLS				
Description	Full Description	Nomenclature	APC	Price
CT07850AIO-2, PREP TOOL FOR 7/8" CABLE, 50 OHM	TRIOLOGY PART#: CT07850AIO-2	DSCT07850AIO2	351	\$490.00
PREP TOOL FOR 7/8" CABLE, 75 OHM & 50 OHM	TRIOLOGY PART#: CT07850AIO	DSCT07850AIO	351	\$490.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRIOLOGY PART#: CTAIO-2RB/3PK	DSCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRIOLOGY PART#: CTAIORB/2PK	DSCTAIORB2PK	351	\$42.00

RF CABLES - GENERAL TOOLS AND ACCESSORIES

Configuration

EUPEN TOOLS & ACCESSORIES ADAPTERS

Description	Full Description	Nomenclature	APC	Price
ANGLE ADAPTOR W/ 3/8" TAPPED HOLES, STAINLESS STEEL, BUTTLERFLIES	EUPEN PART#: AA-SL	DSAASL	351	\$63.50
AA-US, SST ANGLE ADAPTOR, SNAP IN VERSION, PKG OF 10	EUPEN PART#: AA-US	DSAAUS	351	\$138.00
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, NO HOSE CLAMP INCLUDED, STAINLE	EUPEN PART#: SA-38S	DSSA38S	351	\$37.00
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, 2" - 3" OD MEMBERS, STAINLESS	EUPEN PART#: SA-38S200	DSASA38S200	351	\$56.50
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, 3" - 4" OD MEMBERS, STAINLESS	EUPEN PART#: SA-38S300	DSASA38S300	351	\$59.00
STAND-OFF ADAPTER, 3 WAY, KIT OF 10	EUPEN PART#: SA-38X	DSSA38X	351	\$33.50
STAND OFF ADAPTOR W/ 3/4" HOLE, NO HOSE CLAMP INCLUDED, STAINLESS STEE	EUPEN PART#: SA-SS	DSSASS	351	\$38.50
STAND OFF ADAPTOR W/ 3/4" HOLE, 3" - 4" OD MEMBERS, STAINLESS STEEL,	EUPEN PART#: SA-SS300	DSASASS300	351	\$56.00
UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	EUPEN PART#: AA-U	DSAAU	351	\$143.00
RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	EUPEN PART#: RM-A200	DSRMA200	351	\$33.50
RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	EUPEN PART#: RM-A300	DSRMA300	351	\$21.00

EUPEN TOOLS & ACCESSORIES - GROUND KITS

Description	Full Description	Nomenclature	APC	Price
UNIVERSAL GROUND BAR ATTACHMENT KIT, EACH	EUPEN PART#: GB-HK-U	DSGBHKU	351	\$43.50
STANDARD GROUND KIT FOR 3/8" CABLES, 5 LEAD WITH UNATTACHED 3/8" TWO	EUPEN PART#: GK-S38	DSGK38	351	\$23.25
UNIVERSAL GROUND KIT, 5 LEAD W/ UNATTACHED 1/4" AND 3/8" TWO HOLE LUG	EUPEN PART#: GK-UH5-U	DSGKU2UH5U	351	\$25.25
GROUND BUSS BAR, 1/4" X 2" X 10", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0210-NH	DSGB0210NH	351	\$40.50
GROUND BUSS BAR, 1/4" X 2" X 10", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0210-UJ	DSGB0210UJ	351	\$76.00
GROUND BUSS BAR, 1/4" X 2" X 10" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0210T-NH	DSGB0210TNH	351	\$44.00
GROUND BUSS BAR, 1/4" X 2" X 10" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0210T-UJ	DSGB0210TUJ	351	\$80.00
GROUND BUSS BAR, 1/4" X 2" X 14", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0214-NH	DSGB0214NH	351	\$50.00
GROUND BUSS BAR, 1/4" X 2" X 14", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0214-UJ	DSGB0214UJ	351	\$90.00
GROUND BUSS BAR, 1/4" X 2" X 14" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0214T-NH	DSGB0214TNH	351	\$55.50
GROUND BUSS BAR, 1/4" X 2" X 14" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0214T-UJ	DSGB0214TUJ	351	\$96.00
GROUND BUSS BAR, 1/4" X 4" X 12", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0412-NH	DSGB0412NH	351	\$93.50
GROUND BUSS BAR, 1/4" X 4" X 12", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0412-UJ	DSGB0412UJ	351	\$142.00
GROUND BUSS BAR, 1/4" X 4" X 12" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0412T-NH	DSGB0412TNH	351	\$102.00
GROUND BUSS BAR, 1/4" X 4" X 12" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0412T-UJ	DSGB0412TUJ	351	\$136.00
GROUND BUSS BAR, 1/4" X 4" X 20", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0420-NH	DSGB0420NH	351	\$154.00
GROUND BUSS BAR, 1/4" X 4" X 20" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0420T-NH	DSGB0420TNH	351	\$162.00
GROUND BUSS BAR, 1/4" X 4" X 20" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0420T-UJ	DSGB0420TUJ	351	\$198.00
GROUND BUSS BAR, 1/4" X 4" X 24", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0424-NH	DSGB0424NH	351	\$180.00
GROUND BUSS BAR, 1/4" X 4" X 24", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0424-UJ	DSGB0424UJ	351	\$217.00
GROUND BUSS BAR, 1/4" X 4" X 24" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0424T-NH	DSGB0424TNH	351	\$200.00
GROUND BUSS BAR, 1/4" X 4" X 24" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0424T-UJ	DSGB0424TUJ	351	\$236.00

EUPEN TOOLS & ACCESSORIES - HANGERS AND HANGER HARDWARE

Description	Full Description	Nomenclature	APC	Price
HANGER HARDWARE KIT, 3/8" X 1" SLOTTED HEAD BOLTS, LOCK WASHERS, AND H	EUPEN PART#: HK-100-10	DSHK10010	351	\$12.00
HANGER HARDWARE KIT, 3/8" X 3/4" SLOTTED HEAD BOLTS, LOCK WASHERS, AND	EUPEN PART#: HK-34-10	DSHK3410	351	\$9.50
HARDWARE KIT, 3/8", GALVANIZED, FOR (2) 1-5/8" COAX SUPPORT BLOCK, 7"	EUPEN PART#: HK-DSCB158	DSHKDCSB158	351	\$17.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (2) 1-5/8" COAX SUPPORT BLOCK, 7"	EUPEN PART#: HK-DSCB158SS	DSHKDCSB158SS	351	\$26.00
HARDWARE KIT, 3/8", GALVANIZED, FOR (1) 1-5/8" COAX SUPPORT BLOCK, 4.2	EUPEN PART#: HK-SSCB158	DSHKSSCB158	351	\$14.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (1) 1-5/8" COAX SUPPORT BLOCK	EUPEN PART#: HK-SSCB158SS	DSHKSSCB158SS	351	\$19.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (3) 1-5/8" COAX SUPPORT BLOCK	EUPEN PART#: HK-TSCB158SS-12	DSHKTSCB158SS12	351	\$36.00

EUPEN TOOLS & ACCESSORIES - HOISTING GRIPS

Description	Full Description	Nomenclature	APC	Price
LACE UP HOISTING GRIP FOR 3/8" CABLES, EACH	EUPEN PART#: HG-38	DSHG38	351	\$15.00
PRE-LACED HOISTING GRIP FOR 3/8" CABLES, EACH	EUPEN PART#: HG-38L	DSHG38L	351	\$18.00

EUPEN TOOLS & ACCESSORIES - MISC.

Description	Full Description	Nomenclature	APC	Price
TAPE, 3M 1700C ELECTRICAL, BLUE, 3/4" X 66', EACH	EUPEN PART#: CM-TB	DSCMTB	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, BROWN, 3/4" X 66', EACH	EUPEN PART#: CM-TBR	DSCMTBR	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, GREEN, 3/4" X 66', EACH	EUPEN PART#: CM-TG	DSCMTG	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, ORANGE, 3/4" X 66', EACH	EUPEN PART#: CM-TO	DSCMTO	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, RED, 3/4" X 66', EACH	EUPEN PART#: CM-TR	DSCMTR	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, WHITE, 3/4" X 66', EACH	EUPEN PART#: CM-TW	DSCMTW	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, YELLOW, 3/4" X 66', EACH	EUPEN PART#: CM-TY	DSCMTY	351	\$4.10
4" ENTRY PANEL, 1 PORT, 1 X 1, STANDARD, EACH	EUPEN PART#: EP-220	DSEP220	351	\$24.00
4" ENTRY PANEL, 1 PORT, 1 X 1, COMPACT, EACH	EUPEN PART#: EP-574	DSEP574	351	\$24.25
ELECTRICAL TAPE, 3/4" X 44', EACH	EUPEN PART#: MT-464	DSMT464	351	\$2.40
ELECTRICAL TAPE, 2" X 66', EACH	EUPEN PART#: MT-465	DSMT465	351	\$4.70
ELECTRICAL TAPE, 2" X 20', EACH	EUPEN PART#: MT-465-1	DSMT4651	351	\$1.80
TAPE, RAPID WRAP, SELF AMALGAMATING, 1 1/2" X 15', 30 MIL, EACH	EUPEN PART#: SAT1515	DSAT1515	351	\$10.50
SNAP IN, 3/8" ADAPTER, FOR USE WITH 1/2" SNAP HANGER, KIT OF 10	EUPEN PART#: SH-A38	DSSHA38	351	\$16.50
SNAP HANGER, UNIVERSAL, FOR 3/8" CORRUGATED COAX, KIT OF 10	EUPEN PART#: SH-U38	DSSHU38	351	\$16.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ-34-F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ-78-F6	DSTQ78F6	351	\$220.00

TRIOLOGY TOOLS AND ACCESSORIES - CABLE PREP TOOLS

Description	Full Description	Nomenclature	APC	Price
ICST, INNER CONDUCTOR STRIP TOOL	TRIOLOGY PART#: ICST	DSICST	351	\$96.50
ICST-RB, INNER CONDUCTOR STRIP TOOL REPLACEMENT BLADE	TRIOLOGY PART#: ICST-RB	DSICSTRB	351	\$29.00
PST012, PLENUM STRIP TOOL	TRIOLOGY PART#: PST012	DSPST012	351	\$189.00
PST012-RB, PLENUM STRIP TOOL REPLACEMENT BLADE	TRIOLOGY PART#: PST012-RB	DSPST012RB	351	\$42.00
POWER PLENUM STRIP TOOL FOR NON-RADIATING	TRIOLOGY PART#: PCT012-2	DSPCT0122	351	\$504.00
REPLACEMENT BLADES FOR PREP TOOLS PCT012-2	TRIOLOGY PART#: PCT012-2RB/3PK	DSPCT0122RB3PK	351	\$378.00
POWER PLENUM STRIP TOOL FOR NON-RADIATING, OPTIMIZED FOR PIM	TRIOLOGY PART#: PPT012-PIM	DSPPT012PIM	351	\$595.00
FLARING TOOL FOR POWER PLENUM STRIP TOOL FOR NON-RADIATING	TRIOLOGY PART#: PPT-FT	DSPPFT	351	\$141.00
TUBING CUTTER	TRIOLOGY PART#: TC1000	DSTC1000	351	\$126.00
KNIFE-BOX CUTTER	TRIOLOGY PART#: TC10099	DSTC10099	351	\$23.75



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
KNIFE-BOX CUTTER	TRILOGY PART#: TC63050	DSTC63050	351	\$126.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRILOGY PART#: W-CU	DSWCU	351	\$231.00
MID-SPAN JACKET STRIP TOOL FOR 1-5/8" CABLE (FOR ATTACHING GROUND KIT)	TRILOGY PART#: JST158MCJ	DSJST158MCJ	351	\$420.00
REPLACEMENT BLADES FOR PREP TOOL PPT012-PIM	TRILOGY PART#: PPT012-PIMRB	DSPPPT012PIMRB	351	\$258.00
MANUAL PREP TOOL FOR 1/4" ACC SERIES CABLE, 50 OHM	TRILOGY PART#: PST014	DSPST014	351	\$189.00
TRILOGY CABLE TOOLS AND ACCESSORIES - ADAPTERS				
Description	Full Description	Nomenclature	APC	Price
AA-GU, UNIVERSAL GALVANIZED ANGLE ADAPTOR, PKG OF 10	TRILOGY PART#: AA-GU	DSAGU	351	\$99.50
AA-38L, GALVANIZED ANGLE ADAPTOR, LARGE W/ 3/8" TAPPED HOLES, PKG OF 10	TRILOGY PART#: AA-38L	DSAA38L	351	\$99.50
UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	EUPEN PART#: AA-UJ	DSAAUJ	351	\$143.00
UNIVERSAL ROUND MEMBER SUPPORT BRACKET (KIT OF 10)	TRILOGY PART#: RM-USBG	DSRMUSBG	351	\$294.00
SA-SS200, UNIV SST STAND-OFF ADAPTOR FOR 2-3" OD MEMBERS, PKG OF 10	EUPEN PART#: SA-SS200	DSASS200	351	\$95.25
N MALE RIGHT ANGLE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMAA01450	DSNMAA01450	351	\$35.25
TRILOGY CABLE TOOLS AND ACCESSORIES - HANGERS AND HANGER HARDWARE				
Description	Full Description	Nomenclature	APC	Price
BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-12	DSBH12	351	\$54.50
BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-58	DSBH58	351	\$54.50
BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-78	DSBH78	351	\$54.50
BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-114	DSBH114	351	\$54.50
BH-158 BUTTERFLY HANGER FOR 1-5/8 AIRCELL COAX,PKG OF 10	TRILOGY PART#: BH-158	DSBH158	351	\$54.50
BHK-34-10, HANGER HARDWARE 3/8" X 3/4" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-34-10	DSBHK3410	351	\$20.00
BHK-100-10, HANGER HARDWARE 3/8" X 1" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-100-10	DSBHK10010	351	\$19.50
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U12	DSSHU12	351	\$52.00
SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U78	DSSHU78	351	\$52.00
SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U114	DSSHU114	351	\$52.00
SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U158	DSSHU158	351	\$52.00
STACKABLE SNAP-IN HANGER FOR 1/2" AIRCELL COAX (PACKAGE OF 10)	TRILOGY PART#: SHS-12	DSHS12	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 7/8" AIRCELL COAX (PACKAGE OF 10)	TRILOGY PART#: SHS-78	DSHS78	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 11" AIRCELL COAX (PACKAGE OF 10)	TRILOGY PART#: SHS-114	DSHS114	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	TRILOGY PART#: SHS-158	DSHS158	351	\$66.00
CLC#15, PLASTIC SELF-LOCKING HANGERS FOR 1/2" AIRCELL COAX,PKG OF 100	TRILOGY PART#: CLC#15	DSCLC15	351	\$160.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX	TRILOGY PART#: CLC#20	DSCLC20	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX, RISER RATED	TRILOGY PART#: CLC#22	DSCLC22	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 7/8" AIRCELL COAX, UNJACKETED	TRILOGY PART#: CLC#25	DSCLC25	351	\$157.00
CLC#28, PLASTIC SELF-LOCKING HANGERS FOR 7/8" AIRCELL COAX, PKG OF 50	TRILOGY PART#: CLC#28	DSCLC28	351	\$157.00
CLC#40, PLASTIC SELF-LOCKING HANGERS FOR 1-1/4" AIRCELL COAX,PKG OF 25	TRILOGY PART#: CLC#40	DSCLC40	351	\$175.00
CLC#51, PLASTIC SELF-LOCKING HANGERS FOR 1-5/8" AIRCELL COAX,PKG OF 25	TRILOGY PART#: CLC#51	DSCLC51	351	\$189.00
CLC#78P, PLASTIC RADIATING CABLE HANGER FOR 7/8" AIRCELL COAX	TRILOGY PART#: CLC#78P	DSCLC78P	351	\$5.05
CLC#114P, PLASTIC RADIATING CABLE HANGER FOR 1-1/4" AIRCELL COAX	TRILOGY PART#: CLC#114P	DSCLC114P	351	\$7.70
CLC#158P, PLASTIC RADIATING CABLE HANGER FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: CLC#158P	DSCLC158P	351	\$11.00
CLC#78M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 7/8	TRILOGY PART#: CLC#78M	DSCLC78M	351	\$15.50
CLC#114M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-1/4	TRILOGY PART#: CLC#114M	DSCLC114M	351	\$19.50
CLC#158M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-5/8	TRILOGY PART#: CLC#158M	DSCLC158M	351	\$21.25
CLC#MSG78, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 7/8	TRILOGY PART#: CLC#MSG78	DSCLMSG78	351	\$6.90
CLC#MSG114, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-1/4	TRILOGY PART#: CLC#MSG114	DSCLMSG114	351	\$7.55
CLC#MSG158, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-5/8	TRILOGY PART#: CLC#MSG158	DSCLMSG158	351	\$8.25
TRILOGY CABLE TOOLS AND ACCESSORIES - GROUND KITS				
Description	Full Description	Nomenclature	APC	Price
GB-02519T-U, TIN PLATED, 1/4 X 2-1/2 X 19-1/2, W/UNIVERSAL HARDWARE KIT	TRILOGY PART#: GB-02519T-U	DSGB02519TU	351	\$294.00
GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX	TRILOGY PART#: GK-S12AC	DSGKS12AC	351	\$49.00
STD GROUND KIT FOR 5/8 AIRCELL COAX	TRILOGY PART#: GK-S58AC	DSGKS58AC	351	\$49.00
GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX	TRILOGY PART#: GK-S78AC	DSGKS78AC	351	\$49.00
GK-S114/158AC, STD GROUND KIT FOR 1-1/4" & 1-5/8" AIRCELL COAX	TRILOGY PART#: GK-S114/158AC	DSGKS114158AC	351	\$49.00
TRILOGY CABLE TOOLS AND ACCESSORIES - HOISTING GRIPS				
Description	Full Description	Nomenclature	APC	Price
HG-12, LACE-UP HOISTING GRIP FOR 1/2" AIRCELL COAX	TRILOGY PART#: HG-12	DSHG12	351	\$49.00
HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	TRILOGY PART#: HG-58	DSHG58	351	\$67.25
HG-78, LACE-UP HOISTING GRIP FOR 7/8" AIRCELL COAX	TRILOGY PART#: HG-78	DSHG78	351	\$67.25
HG-114, LACE-UP HOISTING GRIP FOR 1-1/4" AIRCELL COAX	TRILOGY PART#: HG-114	DSHG114	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	TRILOGY PART#: HG-114L	DSHG114L	351	\$74.25
HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: HG-158	DSHG158	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: HG-158L	DSHG158L	351	\$74.25
TRILOGY CABLE TOOLS AND ACCESSORIES - SPACERS AND FLANGE/STUD				
Description	Full Description	Nomenclature	APC	Price
CLC#LT101, FLANGE INSERTS INTO HANGER SLOT, USE 1/4-20 STUD ROD, PKG 100	TRILOGY PART#: CLC#LT101	DSCLCLT101	351	\$143.00
STRUTCATCHER PKG OF 100	TRILOGY PART#: CLC#LT109	DSCLCLT109	351	\$462.00
CLC#LT45, PLASTIC STANDOFF POSTS W/ 1-5/8" LNGTH(2" STANDOFF), PKG OF 100	TRILOGY PART#: CLC#LT45	DSCLCLT45	351	\$391.00
PLASTIC STANDOFF POSTS (PROVIDES 4" STANDOFF) PKG OF 50	TRILOGY PART#: CLC#T85	DSCLCLT85	351	\$511.00
PLASTIC 2" STAND-OFF SPACER AND WALL ANCHOR WITH SCREW	TRILOGY PART#: CLC#SS	DSCLCSS	351	\$5.05
PREMIUM PLASTIC 3" STAND-OFF SPACER	TRILOGY PART#: CLC#SS80	DSCLCSS80	351	\$8.40
CLC#SSM, METAL 2" STAND-OFF SPACER AND WALL ANCHOR WITH 8MM HOLE	TRILOGY PART#: CLC#SSM	DSCLCSSM	351	\$10.25
PREMIUM STAINLESS 4" STAND-OFF SPACER	TRILOGY PART#: CLC#SSM4	DSCLCSSM4	351	\$14.00
TRILOGY CABLE TOOLS AND ACCESSORIES - MISC.				
Description	Full Description	Nomenclature	APC	Price
MINI COAX SUPPORT BLOCKS FOR 1-5/8 AIRCELL COAX	TRILOGY PART#: CB-158	DSCB158	351	\$63.00
HARDWARE KIT FOR THREE 1-5/8 AIRCELL SUPPORT BLOCKS PKG OF 10	EUPEN PART#: HK-TSCB158	DSHKTSB158	351	\$54.50
4" BOOT ASSEMBLY, CUSHION NOT INCLUDED	EUPEN PART#: BA-400	DSBA400	351	\$54.50
STANDARD PORT CUSHION W/1 HOLE FOR 1/2 AIRCELL COAX	TRILOGY PART#: SC-12-1	DSSC121	351	\$11.25
STANDARD PORT CUSHION W/2 HOLE FOR 1/2 AIRCELL COAX	TRILOGY PART#: SC-12-2	DSSC122	351	\$11.25
STANDARD PORT CUSHION W/1 HOLE FOR 5/8 AIRCELL COAX	TRILOGY PART#: SC-58-1	DSSC581	351	\$11.25
STANDARD PORT CUSHION W/1 HOLE FOR 7/8 AIRCELL COAX	TRILOGY PART#: SC-78-1	DSSC781	351	\$11.25
STANDARD PORT CUSHION W/1 HOLE FOR 1-5/8" AIRCELL COAX	TRILOGY PART#: SC-158-1	DSSC1581	351	\$11.25
RM-A100, ROUND MEMBER ADAPTOR 1"-2" OD, PKG OF 10	TRILOGY PART#: RM-A100	DSRMA100	351	\$29.50
RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	EUPEN PART#: RM-A200	DSRMA200	351	\$33.50
RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	EUPEN PART#: RM-A300	DSRMA300	351	\$21.00
WK-U, UNIVERSAL WEATHERPROOFING KIT	EUPEN PART#: WK-U	DSWKU	351	\$43.50
COLD SHRINK WEATHERPROOFING 1/2" TO 1-5/8" AIRCELL COAX	TRILOGY PART#: OSU-12158	DSOSU12158	351	\$71.50
3M SCOTCH COTE SPRAY SEALER, 13OZ, CAN	TRILOGY PART#: MT-461	DSMT461	351	\$188.00
TRM-NM-1W, TERMINATION N-MALE, 1 WATT	TRILOGY PART#: TRM-NM-1W	DSTRNM1W	351	\$63.00

Secure VOIP Services

Configuration

Models	Description	Full Description	Nomenclature	APC	Price
	G9 SERVER HARDWARE	-	SQM01SUM0295	704	\$18,000.0
Options	Description	Full Description	Nomenclature	APC	Price
	ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	60	\$115.00
	ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	60	\$20.00

ASTRO 25 Security Monitoring Service

ASTRO 25 Security Monitoring Service

Description	Nomenclature	APC	Standard Support Price	Extended Sup Price
Network Security Monitoring	SVC01SVC0033A	519		
Network Security Monitoring-CTD	SVC01SVC0053A	519		
ASTRO25 L-Core	L1 Master Site		\$2,719.20	\$3,534.96



Updated Pricing for contract 4400016317 as of January 2022

	L2 Master Site	\$2,719.20	\$3,534.96
	Console Ops	\$656.70	\$853.71
	Firewall	\$6,798.00	\$8,837.4C
	Intrusion Detection System	\$6,798.00	\$8,837.4C
	Centralized Syslog	\$3,399.00	\$4,418.7C
ASTRO25 M-Core	M1 Master Site	\$2,719.20	\$3,534.96
	M2 Master Site	\$2,719.20	\$3,534.96
	M3 Master Site (First Zone)	\$2,719.20	\$3,534.96
	M3 Master Site (Add'l Zone)	\$2,719.20	\$3,534.96
	DSR Site	\$2,719.20	\$3,534.96
	Console Ops	\$656.70	\$853.71
	Firewall	\$6,798.00	\$8,837.4C
	Intrusion Detection System	\$6,798.00	\$8,837.4C
	Centralized Syslog	\$3,399.00	\$4,418.7C

ASTRO CAC/PIV SUPPORT SERVICES

MONTHLY PATCHING SECURITY UPDATE SERVICE (RSUS)

Configuration

Description	Part Model	APC	Price
Monthly Remote Security Update Service	LSV01S01676A	969	\$300,000 per core per year

On Premises Security Ops Center

On Premises Security Ops Center (OPSOC)

Description	Nomenclature	APC	Price
OPSOC PRIMARY LICENSE 2GB	SVC04SVC0620A	519	\$28,325.00
OPSOC PRIMARY LICENSE 5GB	SVC04SVC0716A	519	\$33,990.00
OPSOC PRIMARY LICENSE 10GB	SVC04SVC0717A	519	\$42,487.00

SECURITY UPDATE SERVICE

Security Update Service (SUS) & Security Update Remote Delivery Service

Description	Nomenclature	APC	Price	Extended Pr
Security Update Service	SVC04SVC0016C	969	\$0.00	\$0.00
ASTRO25 K-Core	Windows Client		\$968.00	\$1,258.4C
ASTRO25 L-Core	L1 Master Site		\$2,783.00	\$3,617.9C
	L2 Master Site		\$5,566.00	\$7,235.8C
	Windows Client		\$968.00	\$1,258.4C
ASTRO25 M-Core	M1 Master Site		\$3,561.03	\$4,629.3C
	M2 Master Site		\$5,743.87	\$7,467.0C
	M3 Master Site (First Zone)		\$7,180.14	\$9,334.1C
	M3 Master Site (Add'l Zones)		\$3,590.07	\$4,667.0C
	DSR Site		\$3,590.07	\$4,667.0C
	Windows Client		\$1,331.00	\$1,730.3C
Remote Security Update Service	SVC01SVC0140A	560	\$0.00	\$0.00
ASTRO25 L-Core	L1 Master Site		\$13,358.40	\$17,365.9
	L2 Master Site		\$13,358.40	\$17,365.9
	Windows Client		\$363.00	\$471.90
ASTRO25 M-Core	M1 Master Site		\$8,470.00	\$11,011.0
	M2 Master Site		\$15,427.50	\$20,055.7
	M3 Master Site (First Zone)		\$20,570.00	\$26,741.0
	M3 Master Site (Add'l Zones)		\$20,872.50	\$27,134.2
	DSR Site		\$20,872.50	\$27,134.2
	Windows Client		\$363.00	\$471.90

SFS Lite

APX Devices

TIER	Nomenclature	1-499 Units	500-1499 Units	1500-2999 U
4	LSV01S00019A	\$54.00	\$59.44	\$50.76
5	LSV01S00020A	\$65.00	\$64.08	\$62.04
6	LSV01S00021A	\$100.80	\$97.80	\$94.80
7	LSV01S00144A	\$78.60	\$76.20	\$73.92
8	LSV01S00143A	\$100.80	\$97.80	\$94.80
9	LSV01S00764A	\$129.00	\$125.16	\$121.20

PCR/MOTOTRBO DEVICES

TIER	Nomenclature	1-9 Units	10-29 Units	30-59 Unit
2	LSV03S00034A	\$38.40	\$37.20	\$36.12
3	LSV03S00731A	\$48.00	\$46.56	\$45.12
32	LSV03S01190A	\$40.00	\$38.76	\$37.56

Data/Pager Devices

TIER	Nomenclature	1-499 Units	500-1499 Units	1500-2999 U
16	LSV03S00247A	\$23.00	\$22.50	\$22.25
18	LSV01Q00573A	\$153.36	\$150.72	148.08

Service from the Start (SFS) Comprehensive

Configuration

APX Devices

TIER	Nomenclature	1-499 Units	500-1499 Units	1500-2999 U
4	LSV01S00022A	\$100.08	\$96.96	\$93.96
5	LSV01S00023A	\$122.04	\$118.32	\$114.72
6	LSV01S00024A	\$141.00	\$136.80	\$132.60
7	LSV01S00146A	\$118.20	\$114.60	\$111.12
8	LSV01S00145A	\$141.00	\$136.80	\$132.60

PCR/MOTOTRBO DEVICES

TIER	SERVICE ITEM	1-9 Units	10-29 Units	30-59 Unit
2	LSV03S00036A	\$77.76	\$75.48	\$73.08
3	LSV03S00037A	\$119.88	\$116.28	\$112.88

32	LSV03S01191A	\$98.64	\$95.64	\$92.76
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Switching and Routing Center (SRC 7500)
ASTRO 25 7.16
Expansions and Upgrades

Description	Full Description	Nomenclature	APC	Price
SRC 7500 Expansions and Upgrades Main Model (Mandatory)				
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00
SRC 7500 EXPANSION CONFIGURATIONS				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 FOR 7.13 / 7.14	-	CA02651AA	147	\$0.00
ADD: SRC 7500 FOR 7.15 AND BEYOND	-	CA02652AA	147	\$0.00
ADD: SRC 7500 FOR 7.16	SRC 7500 M-Core Gateway Expansion	CA02870AA	147	\$0.00
SRC 7500 M-Core Gateway Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00
SRC 7500 M-Core Ethernet Core Router Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
SRC 7500 M-Core CWR Core Router Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SINGLE CORE ROUTER CWR	Intent to Cancel Date:131-Dec-2019	CA01422AA	147	\$40,000.00
ADD: QTY 1 PAIR CORE ROUTERS CWR	SRC 7500 M-Core Ethernet Interzone Router Expansion Intent to Cancel Date:131-Dec-2019	CA01346AA	147	\$70,000.00
SRC 7500 M-Core Ethernet Interzone Router Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02868AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$86,420.00
SRC 7500 M-Core CWR Interzone Router Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date:131-Dec-2019	CA02653AA	147	\$40,000.00
ADD: INTERZONE CAPABILITY CWR	SRC 7500 M-Core High Availability Data Expansion Intent to Cancel Date:131-Dec-2019	CA01358AA	147	\$70,000.00
SRC 7500 M-Core High Availability Data Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00
SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M-Core Backhaul Switch Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$2,250.00
SRC 7500 M-Core Fiber Connectivity Expansion				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTY BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTY BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00
SRC 7500 UPGRADE CONFIGURATIONS				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 7.15 UPGRADE	-	CA02935AA	358	\$1,400.00
ADD: SRC 7500 7.16 UPGRADE	SRC 7500 M-Core Gateway License	CA02936AA	358	\$1,400.00
SRC 7500 M-Core Gateway License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00
SRC 7500 M-Core Ethernet/CWR Core Router License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00
SRC 7500 M-Core Ethernet/CWR Interzone Router License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 EXIT ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00
SRC 7500 M-Core GGSN License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00
SRC 7500 M-Core Site Router License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00
SRC 7500 M-Core Ethernet Switch License				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00
SRC 7500 M-Core Additional Media CDs				
Description				
Full Description				
Nomenclature				
APC				
Price				
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02943AA	358	\$50.00
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02944AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA02946AA	358	\$50.00
SRC 7500 Expansions FRU Kits				
Description				
Full Description				
Nomenclature				
APC				
Price				
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
SRC 24 PORT T1/E1 EXP II	Intent to Cancel Date:131-Dec-2019	ST6202	147	\$75,000.00
ASSY.CBL.3 FT.RELAY PNL.CWR.S6000	-	DKN6144A	454	\$475.00
ASSY.CBL.6 FT.RELAY PNL.CWR.S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00
FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date:131-Dec-2019	T7380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.00
SRC SPARE KIT	-	CLN8356	147	\$40,000.00
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date:131-Dec-2019	ST6011	454	\$3,000.00
S6000 4-PORT ULTRAWAN I MODULE	Intent to Cancel Date:131-Dec-2019	ST6017B	454	\$3,000.00
S6000 12 PORT T1/E1 II MODULE	Intent to Cancel Date:131-Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Intent to Cancel Date:131-Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date:131-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00
JUNIPER/FIREWALL GATEWAY	Intent to Cancel Date:101-Nov-2016	T7376	147	\$1,200.00
SSGS FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSGS HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00
SRC 7500 Upgrades FRU Kits				
Description				
Full Description				
Nomenclature				
APC				
Price				
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00

Updated Pricing for contract 4400016317 as of January 2022

HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00
MNR GGSN SOFTWARE UPGRADE	Provides media required to upgrade a GGSN to the latest system release (A7.15). One SW Upgrade required for each GGM 8000 or S6000.	ST5102	147	\$500.00
MNR ASTRO/SMARTZONE SOFTWARE UPGRADE	Provides media required to upgrade MNR Routers to the latest system release (A7.15). One SW Upgrade required for each GGM 8000, S6000 or S2500. -GGSN software NOT INCLUDED, it must be ordered separately.	ST5100	147	\$500.00

Switching and Routing Center (SRC 7500)

ASTRO 25 7.17

Expansions and Upgrades
Configuration
SRC 7500 Expansions and Upgrades Main Model (Mandatory)

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00

SRC 7500 EXPANSION CONFIGURATIONS
SRC 7500 System Release Expansions (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.17	SRC 7500 M-Core Gateway Expansion	CA03130AA	147	\$0.00

SRC 7500 M-Core Gateway Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M-Core Ethernet Core Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/E1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/E1 site links.	CA01350AA	147	\$41,400.00

SRC 7500 M-Core CWR Core Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER CWR	Intent to Cancel Date:131-Dec-2019	CA01422AA	147	\$40,000.00
ADD: QTY 1 PAIR CORE ROUTERS CWR	SRC 7500 M-Core Ethernet Interzone Router Expansion Intent to Cancel Date:131-Dec-2019	CA01346AA	147	\$70,000.00

SRC 7500 M-Core Ethernet Interzone Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core CWR Interzone Router Expansion

Available for M1 and M3 only.

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date:131-Dec-2019	CA02653AA	147	\$40,000.00
ADD: INTERZONE CAPABILITY CWR	SRC 7500 M-Core High Availability Data Expansion Intent to Cancel Date:131-Dec-2019	CA01358AA	147	\$70,000.00

SRC 7500 M-Core High Availability Data Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD. (Replaces CA02197AA)	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	-	CA02688AA	147	\$2,800.00

SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M3 Zone Core Protection (ZCP) bundle Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	SRC 7500 M-Core Backhaul Switch Expansion	CA03129AA	147	\$19,500.00

SRC 7500 M-Core Backhaul Switch Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$22,500.00

SRC 7500 M-Core Fiber Connectivity Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTV BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTV BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00

SRC 7500 UPGRADE CONFIGURATIONS
SRC 7500 System Release (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 7.17 UPGRADE	SRC 7500 M-Core Gateway License	CA03226AA	358	\$1,400.00

SRC 7500 M-Core Gateway License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Core Router License

Please note: Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Interzone Router License

Please note: Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 EXIT ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00

SRC 7500 M-Core GGSN License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00

SRC 7500 M-Core Site Router License

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00

SRC 7500 M-Core Ethernet Switch License

Description	Full Description	Nomenclature	APC	Price
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00

SRC 7500 M-Core Additional Media CDs

Description	Full Description	Nomenclature	APC	Price
MNR SOFTWARE UPGRADE 7.17	-	CA03227AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA03231AA	358	\$50.00

SRC 7500 Expansions FRU Kits

Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
SRC 24 PORT T1/E1EXP II	Intent to Cancel Date:131-Dec-2019	ST6202	147	\$75,000.00
ASSY:GBL.3 FT.RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY:CBL.6 FT.RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00
FRU: MINI GBIC (4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date:131-Dec-2019	T7380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.0
SRC SPARE KIT	Intent to Cancel Date: 13-Dec-2019	CLN8356	147	\$40,000.0
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date: 13-Dec-2019	ST6011	454	\$3,000.00
S6000 4 PORT ULTRAWAN II MODULE	Intent to Cancel Date: 13-Dec-2019	ST6017B	454	\$3,000.00
S6000 12 PORT T1/E1 II MODULE	Intent to Cancel Date: 13-Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Intent to Cancel Date: 13-Dec-2019	ST6000	147	\$15,995.0
SS6000 ENCRYPTION MODULE	Intent to Cancel Date: 13-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	Intent to Cancel Date: 13-Dec-2019	TYN4008	147	\$500.00
JUNIPER/FIREWALL GATEWAY	Intent to Cancel Date: 10-Nov-2016	T7378	147	\$1,200.00
SSG5 FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSG5 HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00

SRC 7500 Upgrades FRU Kits

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00

**Switching and Routing Center (SRC 7500)
ASTRO 25 7.17 (Updated for A7.17.2) New Systems**
Configuration
SRC 7500 ALL M-CORE CONFIGURATIONS
SRC 7500 Main Model (Mandatory)

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER (7.13 AND BEYOND)	-	SQM01SUM0238	147	\$1,200.00
ADD: SRC 7500 FOR 7.17.2	-	CA03322AA	147	\$0.00

SRC 7500 M1 CONFIGURATIONS
SRC 7500 M1 Core LAN Switch Option (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE LAN SWITCH	-	CA03323AA	147	\$14,300.0
ADD: SRC FOR M1 ADDITIONAL CORE CAPACITY	-	CA03328AA	147	\$22,400.0

SRC 7500 M1 Gateway Router Option (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.0

SRC 7500 M1 Core Router Option (Ethernet)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.0
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.0
ADD: THREE SINGLE CORE ROUTERS ETHERNET	-	CA02862AA	147	\$62,100.0
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.0

SRC 7500 M1 Core Router Option (CWR)
Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER CWR	Provides a core router & relay panel for use in systems with T1/E1 or FT1/FE1 site links Intent to Cancel Date: 31-Dec-2019	CA01422AA	147	\$40,000.0
ADD: TWO CORE ROUTERS CWR (1 PAIR)	Intent to Cancel Date: 31-Dec-2019	CA02859AA	147	\$80,000.0
ADD: THREE CORE ROUTERS CWR	Intent to Cancel Date: 31-Dec-2019	CA02860AA	147	\$120,000.0
ADD: FOUR CORE ROUTERS CWR (2 PAIR)	Intent to Cancel Date: 31-Dec-2019	CA02861AA	147	\$160,000.0

SRC 7500 M1 Interzone Options (Required for DSR)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.0
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.0
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date: 31-Dec-2019	CA02653AA	147	\$40,000.0

SRC 7500 M1 Encryption/FIPS (GGM 8000 Only)

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$15,000.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M1 Core Backhaul Switch Option

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH FOR M1	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network.	CA03333AA	147	\$2,500.00

SRC 7500 M1 Fiber Connectivity Option

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches, replaces the trunked connections.	CA01362AA	147	\$3,200.00

SRC 7500 M2 CONFIGURATION
SRC 7500 M2 Core LAN Switch Option (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL CORE LAN SWITCHES	-	CA03322AA	147	\$22,300.0
ADD: SRC FOR M2 ADDITIONAL CORE CAPACITY	-	CA03329AA	147	\$25,600.0

SRC 7500 M2 Gateway Router (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.0

SRC 7500 M2 Core Router Option (Ethernet)

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.0
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.0
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.0
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01353AA	147	\$165,600.0

SRC 7500 M2 Core Router Option (CWR)
Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS CWR	Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01346AA	147	\$70,000.0
ADD: QTY 2 PAIRS CORE ROUTERS CWR	Provides two redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01347AA	147	\$140,000.0
ADD: QTY 3 PAIRS CORE ROUTERS CWR	Provides three redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01348AA	147	\$210,000.0
ADD: QTY 4 PAIRS CORE ROUTERS CWR	Provides four redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01349AA	147	\$280,000.0

SRC 7500 M2 Dual T1/E1 or FT1/FE1 Site Links Option

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
ADD: DUAL LINK 2 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00

SRC 7500 M2 High Availability Data Option

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD. (Replaces CA02197AA)	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	-	CA02688AA	147	\$2,800.00

SRC 7500 M2 Encryption Option (GGM 8000 Only)

Description	Full Description	Nomenclature	APC	Price
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Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M2 Core Backhaul Switch Option				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00
SRC 7500 M2 Fiber Connectivity Options				
Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
SRC 7500 M3 CONFIGURATION				
SRC 7500 M3 Mounting Options (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: MOUNT SRC IN 7.5FT OPEN RACK	-	CA02873AA	147	\$495.00
ADD: MOUNT SRC IN 42 RU CABINET	-	CA02874AA	147	\$3,000.00
SRC 7500 M3 Core LAN Switch Options (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: HIGH TIER CORE LAN SWITCHES (96 PORTS)	-	CA03324AA	147	\$24,100.00
ADD: HIGH TIER CORE LAN SWITCHES (144 PORTS)	-	CA03325AA	147	\$29,100.00
SRC 7500 M3 Gateway Router Option (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.00
SRC 7500 M3 Core Router Options (Ethernet)				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.00
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01353AA	147	\$165,600.00
SRC 7500 M3 Core Router Options (CWR)				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS CWR	Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01346AA	147	\$70,000.00
ADD: QTY 2 PAIRS CORE ROUTERS CWR	Provides two redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01347AA	147	\$140,000.00
ADD: QTY 3 PAIRS CORE ROUTERS CWR	Provides three redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01348AA	147	\$210,000.00
ADD: QTY 4 PAIRS CORE ROUTERS CWR	Provides four redundant pairs of core routers for use in systems with T1/E1 or FT1/FE1 site links. Intent to Cancel Date: 31-Dec-2019	CA01349AA	147	\$280,000.00
SRC 7500 M3 Dual T1/E1 or FT1/FE1 Site Links Options				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
ADD: DUAL LINK 2 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00
ADD: DUAL LINK 3 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01356AA	147	\$22,500.00
ADD: DUAL LINK 4 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01357AA	147	\$30,000.00
SRC 7500 M3 Interzone Options (Required for DSR)				
Description	Full Description	Nomenclature	APC	Price
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	-	CA02867AA	147	\$66,420.00
ADD: INTERZONE CAPABILITY CWR	Provides router gear for Interzone connectivity via T1/E1 Intent to Cancel Date: 31-Dec-2019	CA01358AA	147	\$70,000.00
SRC 7500 M3 High Availability Data Option				
Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00
SRC 7500 M3 Encryption/FIPS Options (GGM 8000 Only)				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M3 Zone Core Protection (ZCP) bundle				
Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	-	CA03129AA	147	\$19,500.00
SRC 7500 M3 Core Backhaul Switch Option				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00
SRC 7500 M3 Fiber Connectivity Options				
Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTV BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
FRU Kits				
Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	TT385	147	\$6,500.00
CO-OP WAN ROUTER RELAY PANEL	Intent to Cancel Date: 31-Dec-2019	TT380	147	\$7,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
JUNIPER/FIREWALL GATEWAY	(For A7.13/A7.14 M1/M2 Firewall. Use DDN9500 for M3) Intent to Cancel Date: 31-Dec-2019	T7376	147	\$1,200.00
SSGS FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSGS HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00
SRC SPARE KIT	Intent to Cancel Date: 31-Dec-2019	CLN8356	147	\$40,000.00
S6000 4 PORT ULTRAWAN II MODULE	For ASTRO 7.6 or later systems releases; Order one per each S6000. (Replaces ST6010) Intent to Cancel Date: 31-Dec-2019	ST6017B	454	\$3,000.00
SRC 24 PORT T1/E1EXP II	For 7.6 and later systems utilizes new EOS and ST6017 and ST6018 modules, replaces the ST6201 Provides a redundant pair of core routers for use in systems with T1/E1 or FT1/FE1 site links, including one relay panel and four cables. This kit is also used as the Simulcast Subsite Access Routers deployed at the Prime site within an IP Simulcast Subsystem. Intent to Cancel Date: 31-Dec-2019	ST6202	147	\$75,000.00
S6000 4-PORT FLEXWAN MODULE	Intent to Cancel Date: 31-Dec-2019	ST6011	454	\$3,000.00
S6000 4-PORT ULTRAWAN MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6010	454	\$3,000.00
S6000 12 PORT T1/E1 MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6015	147	\$9,000.00
S6000 12 PORT T1/E1 II MODULE	For ASTRO 7.6 and later system releases; this replaces ST6015 module Intent to Cancel Date: 31-Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Base MNR S6000 unit is a stand alone router with three ethernet ports, single power supply, 1 console port, and two I/O module slots. Intent to Cancel Date: 31-Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date: 31-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00

SRX™ 2200 P25 Portable Radio Series

Configuration

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
SRX2200 PLUS 7/800 MODEL 3.5 PORTABLE	-	H99UCH9PW7BN	470	\$3,045.00
SRX2200 PLUS 7/800 MODEL 1.5 PORTABLE	-	H99UCD9PW5BN	470	\$2,663.00
SRX2200 PLUS VHF MODEL 1.5 PORTABLE	-	H99GD9PW5BN	470	\$2,663.00
SRX2200 PLUS VHF MODEL 3.5 PORTABLE	-	H99GH9PW7BN	470	\$3,045.00
SRX2200 UHF1 MODEL 1.5 PORTABLE	-	H99QDD9PW5BN	470	\$2,663.00
SRX2200 PLUS UHF1 MODEL 3.5 PORTABLE	-	H99QDH9PW7BN	470	\$3,045.00
2: Operation Mode (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00580AG: TMDA Oper., QA00583AH: BlueTooth Oper.)	QA02591	470	\$2,822.00
ENH: SOFTWARE P25 CONVENTIONAL	(Includes H35BX: Conventional Oper., Q806BT: ASTRO Digital CAI Oper., & QA00583AH: BlueTooth Oper.)Requires AES when ordering the Military Package.	QA02593	470	\$1,282.00
ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00583AH: BlueTooth Oper.)	QA02592	470	\$2,382.00
Military Data Package (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Required to order AES encryption when using the Military Package with Conventional operation.	QA02590	470	\$633.00
System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	470	\$220.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	470	\$165.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA09082	656	\$165.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5	QA01768	470	\$0.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	-	QA01833	470	\$28.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$110.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	470	\$110.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
System Key Software (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP. Multitkey is required for use of more than one key.	Q629	470	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multitkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	470	\$879.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHz Only) operations. Multitkey is required for use of more than one key. Includes ADP. Non-P25 CAP Compliant option.	H797	470	\$536.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Compatible with Analog 25KHz/DES-OFB Digital 12.5KHz Only. Multitkey is required for use of more than one key. Non-P25 CAP Compliant option.	Q625	470	\$659.00
Multitkey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR (H04). Tactical OTAR (H04) can only be utilized when IV&D (Q947) is purchased.	Q498	470	\$814.00
ENH: MULTIKEY	-	H869	470	\$363.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
Antenna (Optional- Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA (NAF5085A)	For SRX2200, deletes standard antenna. NAF5085 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	470	(\$10.00)
ALT: 1/4 WAVE 7/8 STUBBY (NAR6595)	-	H122	470	\$26.00
ALT: UHF1 GPS STUBBY ANTENNA (FAF5259A)	ALT: UHF1 GPS STUBBY ANTENNA (FAF5259A)	QA02017	481	\$26.00
ALT: GPS STUBBY ANTENNA (NAG4000A)	GPS Only	QA00785	655	\$18.00
Battery (Optional- Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with (PMNN4573) BATT IMPRES 2 LIION TIA4950 R IP68 4600T	QA07576	673	\$182.00
Not Compatible if HAZLOC Certification is Required.				
Description	Full Description	Nomenclature	APC	Price
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/LI AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SRX2200 SINGLE UNIT PACKAGING	-	H842	470	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$378.00

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE, CD, SRX2200 CD UG & SAFETY	-	H88	470	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS PRINTOUT	-	H799	470	\$11.00

**ASTRO® Digital SRX 2200
FLASHport® Aftermarket Upgrades**
Configuration
Models

Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL	-	T7985	430	\$0.00
TDMA	-	T7989	430	\$0.00
9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T8013	430	\$0.00

Options
Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO TDMA	-	QA04018AA	430	\$2,226.00
ENH: DIGITAL CONVENTIONAL TO P25 TRUNKING W/ INTEROP	-	QA04019AA	430	\$1,657.00
ENH: P25 TRUNKING WITH INTEROP TO TDMA	-	QA04020AA	430	\$569.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Required to order AES encryption when using the Military Package with Conventional operation.	QA02590AC	430	\$727.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011AB	430	\$127.00
ENH: WI-FI CAPABILITY FLP	-	QA09001AC	430	\$380.00
ADD: Adaptive Noise Suppression	-	QA09006	430	\$190.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY: with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), V&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	430	\$0.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869CC	430	\$417.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$936.00
UNDEFINED	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

**STR 3000 Base Radio sub-system
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
800 MHZ SIMULCAST SW MIGRATION	-	T6759	729	\$0.00
700 MHZ SIMULCAST SW MIGRATION	-	T6956	729	\$0.00
700 MHZ SITE REPEATER SW MIGRATION	-	T6957	729	\$0.00

Options
Software

Description	Full Description	Nomenclature	APC	Price
ENH: STR 3000 LATEST SHIPPING SOFTWARE	-	X870AA	729	\$2,300.00

ASTRO 25 FEDERAL CYBERSECURITY BASIC RMF DOCUMENTATION & HARDENING

Part Code	APC	Service Name	Price (US)
LSV01S01886A	814	Federal Risk Management Framework (RMF) - Basic	\$47,975.00
Component	\$ Each (US)		
Microsoft Windows Server	\$15.78		
Microsoft Windows Clients	\$15.78		
Red Hat Enterprise Linux (RHEL)	\$31.56		
VMware ESXi	\$15.78		
Router(s)	\$42.08		
Switch(s)	\$42.08		



Updated Pricing for contract 4400016317 as of January 2022

ASTRO® 25 FEDERAL CYBERSECURITY CAC/PIV SUPPORT

Part Code	APC	Service Name	Price (US)
LSV01S01895A	814	CAC/PIV Fed Support - Single Zone	\$121,150.00
LSV01S01895A	814	CAC/PIV Fed Support - DSR	\$176,700.00

ASTRO 25 FEDERAL CYBERSECURITY COMPREHENSIVE RMF DOCUMENTATION & HARDENING

Part Code	APC	Service Name	Price (US)
LSV01S01887A	814	Federal Risk Management Framework (RMF) - Comprehensive	\$103,525.00
Device Type	Vulnerability Scanning \$ Each (US)	STIG Audit \$ Each (US)	
Windows Server	\$15.78	\$2,209.38	
Windows Clients	\$15.78	\$1,578.13	
RHEL	\$31.56	\$1,252.50	
ESXi	\$15.78	\$946.88	
Router(s)	\$42.08	\$946.88	
Switch(s)	\$42.08	\$2,209.38	

ASTRO® 25 FEDERAL CYBERSECURITY CONSULTING

Part Code	APC	Service name	Price (US)
LSV00S01945A	814	Federal Services Day Rate Cyber Specialist	\$2,525.00

ASTRO® 25 FEDERAL CYBERSECURITY NIST SP 800-53 CONTROLS ASSESSMENT

Part Code	APC	Service Name	Price (US)
LSV01S01896A	814	800-53 Controls Assessment	\$12,625.00

ASTRO® 25 FEDERAL CYBERSECURITY SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) SECURITY CONTENT AUTOMATION PROTOCOL (SCAP) SCANNING

Part Code	APC	Service name	Price (US)
LSV01S01891A	814	Federal Services DISA SCAP Scanning (Quarterly)	\$80,800.00
LSV01S01892A	814	Federal Services DISA SCAP Scanning (One Time or Annual)	\$20,200.00
Device Type	SCAP Scanning \$ Each (US)		
Windows Server	\$78.91		
Windows Clients	\$78.91		
RHEL	\$105.21		

Cambium Networks PTP and PMP Maintenance Services

Motorola Delivered Services
SVC01SVC1410C

Onsite Infrastructure Response Service

Description	Full Description	Nomenclature	APC	Price
PTP UNITS 1-50	-	SVC806AG	769	\$300.00
PTP UNITS 51-75	-	SVC807AG	769	\$450.00
PTP UNITS 75-150	-	SVC808AG	769	\$774.00
PTP UNITS 151-225	-	SVC809AG	769	\$1,125.00
CANOPY 1-50 PCS -ALL COMPONENTS	-	SVC826AB	769	\$300.00
CANOPY 51-75 PCS ALL COMPONENTS	-	SVC827AB	769	\$450.00
CANOPY 76-150 PCS ALL COMPONENTS	-	SVC828AB	769	\$774.00
CANOPY 151-225 PCS ALL COMPONENTS	-	SVC829AB	769	\$1,125.00

SVC01SVC1102C

Dispatch Service

Description	Full Description	Nomenclature	APC	Price
PMP UNITS	-	SVC810AG	6	\$70.00
PTP800 SERIES UNITS	-	SVC811AG	6	\$70.00
PTP CONNECTORIZED LINKS AND END	-	SVC812AG	6	\$102.00
PTP INTEGRATED LINKS AND END	-	SVC813AG	6	\$102.00

SVC01SVC1105C

Customer Technician Dispatch

Description	Full Description	Nomenclature	APC	Price
PMP UNITS	-	SVC814AG	6	\$70.00
PTP 800 SERIES UNITS	-	SVC803AG	6	\$70.00
PTP CONNECTORIZED LINKS AND END	-	SVC804AG	6	\$102.00
PTP INTEGRATED LINKS AND END	-	SVC805AG	6	\$102.00

Customer Technician Dispatch Service

Configuration

CUSTOMER TECHNICIAN DISPATCH SERVICE Service for Astro25 System Releases in Standard Support

Description	Nomenclature	APC	Price	Extended Sup Price
Dispatch Service	SVC01SVC1102C	6		
Cust Tech Dispatch	SVC01SVC1105C	6		
ASTRO25 K-Core	K1 Master Site		\$1,068.43	\$1,388.96
	K2 Master Site		\$1,068.43	\$1,388.96
	Prime Site		\$1,068.43	\$1,388.96
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 L-Core	L1 Master Site		\$2,670.47	\$3,471.61
	L2 Master Site		\$2,670.47	\$3,471.61
	Prime Site		\$1,335.84	\$1,736.56
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 M-Core	M1 Master Site		\$8,011.41	\$10,414.8
	M2 Master Site		\$8,011.41	\$10,414.8

	M3 Master Site (First Zone)	\$8,008.99	\$10,411.6
	M3 Master Site (Add'l Zones)	\$8,008.99	\$10,411.6
	DSR Site	\$2,617.23	\$3,402.4
	Prime Site	\$3,285.15	\$4,270.7
	Remote Site	\$214.17	\$278.42
	Dispatch Site	\$400.51	\$520.66

Dispatch Service
Configuration

Description	Nomenclature	APC	Standard Support Price	Extended Sup Price
Dispatch Service	SVC01SVC1102C	6		
ASTRO25 K-Core	K1 Master Site		\$1,068.43	\$1,388.9
	K2 Master Site		\$1,068.43	\$1,388.9
	Prime Site		\$1,068.43	\$1,388.9
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 L-Core	L1 Master Site		\$2,670.47	\$3,471.6
	L2 Master Site		\$2,670.47	\$3,471.6
	Prime Site		\$1,335.84	\$1,736.5
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 M-Core	M1 Master Site		\$8,011.41	\$10,414.8
	M2 Master Site		\$8,011.41	\$10,414.8
	M3 Master Site (First Zone)		\$8,008.99	\$10,411.6
	M3 Master Site (Add'l Zones)		\$8,008.99	\$10,411.6
	DSR Site		\$2,617.23	\$3,402.4
	Prime Site		\$3,285.15	\$4,270.7
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66

Infrastructure Repair Service
Configuration

Description	Nomenclature	APC	Price	Extended Pi
Infrastructure Repair	SVC01SVC1108C	929		
ASTRO25 K-Core	K1 Master Site		\$2,277.22	\$2,960.3
	K2 Master Site		\$2,930.62	\$3,809.8
	Prime Site		\$1,138.61	\$1,480.1
	Console Ops		\$1,258.40	\$1,635.9
	RF Stations		\$907.50	\$1,179.7
	MIP5000 Gateway		\$73.81	\$95.95
ASTRO25 L-Core	L1 Master Site		\$4,030.51	\$5,239.6
	L2 Master Site		\$7,590.33	\$9,867.4
	Prime Site		\$2,015.86	\$2,620.6
	Console Ops		\$1,258.40	\$1,635.9
	RF Stations		\$907.50	\$1,179.7
	MIP5000 Gateway		\$73.81	\$95.95
	SmartX Site Converter		\$499.73	\$649.65
	ISSI Network Gateway		\$523.93	\$681.11
ASTRO25 M-Core	M1 Master Site		\$7,327.76	\$9,526.0
	M2 Master Site		\$13,086.15	\$17,012.0
	M3 Master Site		\$18,843.33	\$24,496.3
	DSR Site		\$7,851.69	\$10,207.2
	Prime Site		\$10,353.97	\$13,460.1
	Console Ops		\$1,258.40	\$1,635.9
	RF Stations		\$907.50	\$1,179.7
	MIP5000 Gateway		\$73.81	\$95.95
	SmartX Site Converter		\$499.73	\$649.65
	ISSI Network Gateway		\$523.93	\$681.11

Infrastructure Repair with Advanced Replacement Service
Configuration

Description	Nomenclature	APC	Price	Extended Pi
Infrastructure Repair with Advanced Replacement	SVC01SVC1101C	929		
ASTRO25 K-Core	K1 Master Site		\$2,799.94	\$3,639.9
	K2 Master Site		\$3,611.85	\$4,695.4
	Prime Site		\$1,399.97	\$1,819.9
	Console Ops		\$1,511.29	\$1,964.6
	RF Stations		\$1,360.04	\$1,768.0
	MIP5000 Gateway		\$106.48	\$138.42
ASTRO25 L-Core	L1 Master Site		\$5,626.50	\$7,314.4
	L2 Master Site		\$10,574.19	\$13,746.4
	Prime Site		\$2,813.25	\$3,657.2
	Console Ops		\$1,511.29	\$1,964.6
	RF Stations		\$1,360.04	\$1,768.0
	MIP5000 Gateway		\$106.48	\$138.42
	SmartX Site Converter		\$790.13	\$1,027.1
	ISSI Network Gateway		\$726.00	\$943.80
ASTRO25 M-Core	M1 Master Site		\$10,468.92	\$13,609.6
	M2 Master Site		\$18,320.61	\$23,816.7
	M3 Master Site		\$26,172.30	\$34,023.9
	DSR Site		\$10,992.85	\$14,290.7
	Prime Site		\$12,424.28	\$16,151.5
	Console Ops		\$1,511.29	\$1,964.6
	RF Stations		\$1,360.04	\$1,768.0
	MIP5000 Gateway		\$106.48	\$138.42
	SmartX Site Converter		\$790.13	\$1,027.1
	ISSI Network Gateway		\$726.00	\$943.80

Advanced Services for ASTRO 25 Systems
Configuration

Description	Nomenclature	APC	Price
Infrastructure Repair with Advanced Replacement	SVC01SVC1101A	929	
	ASTRO Express for Supported Releases		
	ASTRO Express Remote Site		\$1,125.00
	ASTRO Express Station		\$1,012.00
	ASTRO Express Operator Positions		\$1,125.00
	ASTRO25 Infrastructure for Supported Releases		
	K1 Master Site		\$2,545.40
	K2 Master Site		\$3,283.50
	Prime Site		\$1,272.70
	Remote Site		\$-
	Dispatch Site		\$-
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	L1 Master Site		\$5,115.00
	L2 Master Site		\$9,612.90
	Prime Site		\$2,557.50
	Remote Site		\$-
	Dispatch Site		\$-
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	M1 Master Site		\$9,517.20
	M2 Master Site		\$16,655.10
	M3 Master Site		\$23,793.00
	DSR Site		\$9,993.50
	Prime Site		\$11,294.80
	Remote Site		\$0.00
	Dispatch Site		\$0.00
	Operator Position		\$1,373.90
	Stations		\$1,236.40
	MIP5000 Gateway		\$96.80
	SmartX Site Converter		\$718.30
	ISSI Network Gateway		\$660.00
	MCC5500 Console		\$605.00
	E911 Infrastructure for Supported Releases		
	Airbus MAARS Server		\$604.80
	Airbus BCM		\$2,179.80
	Gold Series Elite or E911 Airbus Vesta Maars (Standard)		\$74.94
	MCC5000 or E911 Airbus Vesta Maars (Standard)		\$604.80
	Airbus Vesta Meridian M1		\$466.20
	Airbus Vesta Meridian Server		\$956.80
	Airbus Vesta Meridian Server_Mini		\$567.00
	Airbus BCM		\$2,179.80
	Gold Series Elite for E911 Airbus Vesta Meridian		\$74.69
	MCC5500 for E911 Airbus Vesta Meridian		\$604.80
	Airbus BCM for E911 Airbus Vesta Pallas		\$2,179.80
	Airbus Vesta Pallas ACU		\$163.80
	Airbus Vesta Pallas Herbie		\$163.80
	Airbus Vesta Pallas MTU		\$327.60
	Airbus Vesta Pallas RIS Box		\$894.60
	Airbus Vesta Pallas Server		\$604.80
	Airbus Vesta Pallas Workstation		\$466.20
	Gold Series Elite for E911 Airbus Vesta Pallas		\$874.69
	MCC5500 for E911 Airbus Vesta Palla		604.8
	Airbus BCM for E911 Airbus with Integrated Console		\$2,179.80
	Gold Series Elite for E911 Plant with Integrated Console		\$874.69
	MCC5500 or E911 Plant with Integrated Console		\$604.80
	CommandStar Elite or E911 Plant with Integrated Console		\$874.69
	CommandStar Console or E911 Plant with Integrated Console		\$595.35
	Console Buttons & Led or E911 Plant with Integrated Console		\$770.74
	Console Compact or E911 Plant with Integrated Console		\$717.44
	Motorola Gold Elite Gateway or E911 Plant with Integrated Console		\$874.69
	911 PSAPI(s) for E911 Sentinel Patriot		998.55
	911 Printer(s) for E911 Sentinel Patriot		\$226.80
	Gold Series Elite for E911 Sentinel Patriot		\$874.69
	MCC5500 for E911 Sentinel Patriot		\$604.80
Motorbo Infrastructure Repair with Advanced Replacement	SVC01SVC0331A	23	
	XRT9000 Gateway		\$1,285.20
	XRC9000 Single Site Controller		\$1,285.20
	XRC9000 Multi Site Controller		\$1,285.20
	SLR5000 Repeater		\$198.00
	MTR3000 Repeater		\$271.92
	MIP5000 Gateway		\$85.08
	MIP5000 Console		\$409.50
	SLR8000		\$420.00

LINK Services
Configuration

Item	Description	APC	Price
* Services Setup (one-time fee for each LINK customer)	Includes all Hardware, Software, and labor required to integrate existing systems and set up the services to meet required Service level agreements.	989	\$10,000/unit
** Recurring Monthly User Fees	Fees associated with providing ongoing services to meet coverage, capacity, availability, and resilience commitments. Includes infrastructure network and security operations services, software, and hardware.	989	Cat. A \$30 Cat. B \$50 Cat. C \$70 Cat. D \$90 Cat. E \$110

Local Device Combo Package
Local Device Combo

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00051A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$132.00

5	LSV00S00052A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$168.00
6	LSV00S00053A	CONSOLETTTE	\$168.00
7	LSV00S00156A	APX1500, APX4500, APX2500 (CA onlv)	\$114.00
8	LSV00S00157A	APX6500, APX6500LI, APX7500, APX8500	\$168.00
2	LSV00S00049A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$66.00
3	LSV00S00050A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$84.00
32	LSV00S01296A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$75.00

Local Device Combo w Pickup and Delivery

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00214A	MT1500, PR1500, APX900, APX1000, APX3000, APX4000, SRX2200, APX2000 (CA ONLY)	\$162.00
5	LSV00S00215A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$198.00
6	LSV00S00216A	APX7500 CONSOLETTTE	\$198.00
7	LSV00S00217A	PM1500, XTL2500, APX1500, APX4500, APX2500 (CA onlv)	\$144.00
8	LSV00S00218A	APX6500, APX6500LI, APX7500, APX8500	\$198.00
2	LSV00S00212A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$96.00
3	LSV00S00213A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$114.00
32	LSV00S01298A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$105.00

Local Radio Support Service
Local Device Support

TIER	SERVICE ITEM	DEVICE PRODUCTS	List Price
4	LSV00S00046A	APX900, APX1000, APX3000, APX4000, SRX2200, APX2000 (CA ONLY)	\$66.00
5	LSV00S00047A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$78.00
6	LSV00S00048A	CONSOLETTTE	\$78.00
7	LSV00S00154A	APX1500, APX4500, APX2500 (CA onlv)	\$66.00
8	LSV00S00155A	APX6500, APX6500LI, APX7500, APX8500	\$78.00
2	LSV00S00152A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$26.40
3	LSV00S00153A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$33.00

Updated Pricing for contract 4400016317 as of January 2022

32	LSV00S01295A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$33.00
Local Device Support w Pickup and Delivery			
TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00206A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$96.00
5	LSV00S00207A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$108.00
6	LSV00S00208A	APX7500 CONSOLETTTE	\$108.00
7	LSV00S00209A	PM1500, XTL2500, APX1500, APX4500	\$96.00
8	LSV00S00210A	APX2500 (CA only)	\$108.00
2	LSV00S00204A	APX6500, APX6500LI, APX7500, APX8500	\$56.40
3	LSV00S00205A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$63.00
32	LSV00S01297A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$63.00
32	LSV00S01297A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$63.00

Subscriber Diagnostics Service
Configuration

Description	Full Description	Nomenclature	APC	Price
DiagX Overair Wave Form Analyzer		SVC03SVC0319A	293	\$54,900.0
Single Protocol/Dual Band		SVC03SVC0321A	293	\$57,900.0
Dual Protocol/Single Freq Band		SVC03SVC0322A	293	\$69,500.0
Dual Protocol/Dual Freq Band		SVC03SVC0323A	293	\$72,500.0
Subscriber Diag Protocol Upgrade		SVC01SVC0228A	293	\$19,900.0
Subscriber Diag Extended Warranty		SVC01SVC0229A	293	\$4,900.0
Subscriber Diag 3 Yr Ext Serv Plus Prtdl Upgrade		SVC01SVC0214A	293	\$19,000.0

D Series Software Based Simulcast Virtual Prime Site - North America

Services	SKU	APC	L CORE
MSI System Tech Support	SVC01SVC1104C	772	\$3.6
MSI Dispatch	SVC01SVC1102C	6	\$1.3
MSI Onsite Sys Support-Limited	SVC01SVC1411C	882	\$8.2
MSI Onsite Sys Support-Std	SVC01SVC1410C	882	\$10.6
MSI Onsite Sys Support-Premier	SVC01SVC1413C	882	\$16.0
MSI Preventive Maintenance1	SVC01SVC0335A	769	\$1.4
MSI Preventive Maintenance2	SVC01SVC0336A	769	\$1.4
MSI Repair and Return	SVC01SVC1108C	929	\$1.8
MSI Advance Exchange	SVC01SVC1101C	929	\$8
MSI Cust Tech Dispatch	SVC01SVC1105C	6	\$1.3
MSI NW Monitoring-CTD	SVC01SVC0032C	561	\$2.7
MSI Network Monitoring	SVC01SVC1103C	561	\$2.7
MSI Quarterly STIGs	LSV01S01362A	969	\$7
Services	SKU	APC	M CORE
MSI Repair and Return	SVC01SVC1108C	772	\$9.4
MSI Advance Exchange	SVC01SVC1101C	6	\$2.1
MSI System Tech Support	SVC01SVC1104C	882	\$8.6
MSI Onsite Sys Support-Std	SVC01SVC1410C	882	\$13.8
MSI Dispatch	SVC01SVC1102C	882	\$3.4
MSI Onsite Sys Support-Premier	SVC01SVC1413C	769	\$20.8
MSI Preventive Maintenance1	SVC01SVC0335A	769	\$1.4
MSI Preventive Maintenance2	SVC01SVC0336A	929	\$1.4
MSI Onsite Sys Support-Limited	SVC01SVC1411C	929	\$11.0
MSI Cust Tech Dispatch	SVC01SVC1105C	6	\$3.4
MSI NW Monitoring-CTD	SVC01SVC0032C	561	\$5.0
MSI Network Monitoring	SVC01SVC1103C	561	\$5.0
MSI Quarterly STIGs	LSV01S01362A	969	\$7

SURGE PROTECTION DEVICES (SPDs)
Models
Type 1 SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 2A, 120/240VAC 1-PHASE NEMA 4X ENCLOSURE, SAD/MOV	https://www.transrector.com/ac-surge-protector-spd-apex-imax-panel-1101-808-1	DSAPEXIMAX808	207	\$2,674.00
SPD, TYPE 2A, 120/208VAC, 3-PHASE NEMA 4X ENCLOSURE, SAD/MOV	https://www.transrector.com/ac-surge-protector-spd-apex-imax-panel-1101-809-1	DSAPEXIMAX809	207	\$3,706.00

Type 2 SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 2B, 120/240VAC, 1-PHASE, NEMA 4X ENCLOSURE, MOV	https://www.transrector.com/ac-surge-protector-spd-apex-imax-panel-1101-808-mm-1	DSAPEXIMAX808MM	207	\$1,479.00
SPD, TYPE 2B, 120/208VAC, 3-PHASE, NEMA 4X ENCLOSURE, MOV	https://www.transrector.com/ac-surge-protector-spd-apex-imax-panel-1101-809-mm-1	DSAPEXIMAX809MM	207	\$1,926.00

Type 3 120V Hard Wire SPDs

Description	Full Description	Nomenclature	APC	Price
PDU, 120V HARDWARE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION	https://www.transrector.com/op8-rack-mount-pdu-ac-indoor-3ru-1101-356-1	DSOP820B	207	\$938.00

Type 3 120V Plug-In SPDs

Description	Full Description	Nomenclature	APC	Price
SPD, TYPE 3, 120VAC, 15A PLUG-IN WITH 15A SIMPLEX OUTLET	https://www.transrector.com/ac-surge-protector-spd-sl-plug-in-1104-29-000	DSSL120	207	\$117.00
SPD, TYPE 3, 120V RACK MOUNT, 20A TWIST LOCK DUAL FEED INPUT W/4 PER	https://www.transrector.com/mp-rack-mount-pdu-ac-indoor-1ru-1101-560	DS1400	207	\$1,154.00
SPD, TYPE 3, 120V RACK MOUNT, 20A STD PLUG-IN INPUT W/4 OUTLETS PER	https://www.transrector.com/mp-rack-mount-pdu-ac-indoor-1ru-1101-942	DSRMP420B	207	\$1,007.00
SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS	https://www.transrector.com/mp-rack-mount-pdu-ac-indoor-1ru-1101-534	DSRMP615A	207	\$258.00

Data and Telephony SPDs

32 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD32DM	351	\$28,739.0
8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08AN	351	\$12,242.0
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16AN	351	\$12,817.0
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS24AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24AN	351	\$13,392.0
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32AN	351	\$13,967.0
8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08AM	351	\$12,415.0
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16AM	351	\$12,990.0
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24AM	351	\$13,565.0
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS32AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32AM	351	\$14,140.0
8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08DN	457	\$12,472.0
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16DN	457	\$13,047.0
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24DN	457	\$13,622.0
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32DN	457	\$14,197.0
8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08DM	457	\$12,645.0
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16DM	457	\$13,220.0
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24DM	457	\$13,794.0
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA.	DBSPECTRA PART#: A07SYSS32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32DM	457	\$14,370.0
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNECT	DBSPECTRA PART#: A07CUSM08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08AN	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNEX	DBSPECTRA PART#: A07CUSM16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16AN	457	\$6,452.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNEX	DBSPECTRA PART#: A07CUSM32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32AN	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 CO	DBSPECTRA PART#: A07CUSM08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08AM	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16AM	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24AM	457	\$7,027.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNECT	DBSPECTRA PART#: A07CUSM08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08DN	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEX	DBSPECTRA PART#: A07CUSM16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16DN	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEX	DBSPECTRA PART#: A07CUSM24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24DN	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEX	DBSPECTRA PART#: A07CUSM32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32DN	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 CO	DBSPECTRA PART#: A07CUSM08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08DM	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16DM	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24DM	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32DM	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N CO	DBSPECTRA PART#: A07CUSD08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08AN	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16AN	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD24AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24AN	457	\$7,027.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32AN	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3-	DBSPECTRA PART#: A07CUSD08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08AM	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16AM	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24AM	457	\$7,027.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD32AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32AM	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N CO	DBSPECTRA PART#: A07CUSD08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08DN	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16DN	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24DN	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32DN	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3-	DBSPECTRA PART#: A07CUSD08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08DM	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16DM	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24DM	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32DM	457	\$7,832.00
700/800 MHZ DIVERSITY TTA, N CONNECTOR	DBSPECTRA PART#: A07TTA-DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTADN	457	\$6,365.00
700/800 MHZ DIVERSITY TTA, 4.3-10 CONNECTOR	DBSPECTRA PART#: A07TTA-DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTADM	457	\$6,538.00
700/800 MHZ MAIN TTA, N CONNECTOR	DBSPECTRA PART#: A07TTA-MM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTAMM	457	\$6,365.00
700/800 MHZ MAIN TTA, 4.3-10 CONNECTOR	DBSPECTRA PART#: A07TTA-MM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTAMM	457	\$6,538.00
900 MHZ, TOWER TOP CONTROL UNIT, -48VDC	DBSPECTRA PART#: NPD2537A-CUD SPEC SHEET LINK: www.dbspectra.com/specifications/NPD2537ASYSDD_SpecSheet.pdf	DSNPD2537ACUD	457	\$6,797.00

Configuration

FILTRONIC ESS FULLY REDUNDANT TTA - INCLUDES DIVERSITY AND NON DIVERSITY MODELS

Description	Full Description	Nomenclature	APC	Price
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, N-CONNECTORS	FILTRONIC PART#: SAC001-V1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSSAC001V1P	457	\$5,157.00
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, 4.3-10 CONNECTORS	FILTRONIC PART#: SAC001-V2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSSAC001V2P	457	\$5,157.00
CONTROL UNIT, ESS, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG001-F1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSSEG001F1P	457	\$2,815.00
CONTROL UNIT, ESS, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG001-F2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSSEG001F2P	457	\$3,089.00
POWER SUPPLY ADAPTER, 110V AC TO 48V DC, SINGLE OUTPUT	FILTRONIC PART#: PSU-000001-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/PSU-000001-Globtek-TR9X1250700CIMR6B.pdf	DSPSU000001P	457	\$97.00
SURGE PROTECTOR, LIGHTNING, (ANT. N-F) TO (EQUIP. N-F), DC PASS THRU	FILTRONIC PART#: MVG002V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/MVG002V1-PolyphaserLightning-protector-19_050114_V1_0.pdf	DSMVG002V1P	457	\$347.00
TERMINATOR, 50 OHM, BNC	FILTRONIC PART#: CON-000460-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/CON-000460.pdf	DSCON000460P	457	\$6.00
MOUNTING KIT, TTA, SINGLE UNIT	FILTRONIC PART#: KIT-000044-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSKIT000044P	457	\$70.00
MOUNTING KIT, TTA, DUAL, N-TYPE CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0x-p-ess/	DSKIT000045V1P	457	\$350.00

Updated Pricing for contract 4400016317 as of January 2022

MOUNTING KIT, TTA, DUAL, 4.3-10 CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSKIT000045V2P	457	\$350.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG005-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG005P	457	\$8,326.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG006-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG006P	457	\$8,052.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY, -48	FILTRONIC PART#: SGG007-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG007P	457	\$16,894.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG008-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG008P	457	\$16,346.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG009-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P-ESS.pdf	DSSGG009P	457	\$8,519.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG012-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P-ESS.pdf	DSSGG012P	457	\$16,137.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG013-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG013P	457	\$8,326.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG014-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG014P	457	\$8,052.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG015-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG015P	457	\$16,491.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG016-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG016P	457	\$15,944.00
SHELF, 1U, HOLDS UP TO (4) DSPSU000001P POWER SUPPLY ADAPTERS	FILTRONIC PART#: MGG002-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/DTS-MGG002-V1-P-1.pdf	DSMGG002V1P	457	\$180.00

FILTRONIC STAND ALONE (SA) TTA - FULLY REDUNDANT INCLUDES DIVERSITY AND NON DIVERSITY MODELS

CONSULT THE FILTRONIC SPEC SHEET FOR ORDERING GUIDE WITH DIRECTIONS ON HOW TO ORDER FILTRONIC TTA SYSTEMS

https://filtronic.com/wp-content/uploads/SGG0xx-P_SA-US_Rev2-2020-04.pdf

Description	Full Description	Nomenclature	APC	Price
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, NON-DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG025-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG025P	457	\$9,515.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG026-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG026P	457	\$9,216.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, NON-DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG033-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG033P	457	\$9,515.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG034-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG034P	457	\$9,216.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG045-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG045P	457	\$10,166.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG046-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG046P	457	\$9,764.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG053-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG053P	457	\$10,166.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG054-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG054P	457	\$9,764.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG065-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG065P	457	\$11,360.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG066-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG066P	457	\$10,957.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG073-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG073P	457	\$11,360.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG074-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG074P	457	\$11,358.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG023-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG023P	457	\$19,658.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, SINGLE PWR S	FILTRONIC PART#: SGG024-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG024P	457	\$18,867.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG027-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG027P	457	\$19,272.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG028-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG028P	457	\$18,674.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG031-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG031P	457	\$19,658.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG032-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG032P	457	\$18,867.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG035-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG035P	457	\$19,272.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG036-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG036P	457	\$18,674.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG043-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG043P	457	\$20,960.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG044-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG044P	457	\$19,962.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG048-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG048P	457	\$20,574.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG051-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG051P	457	\$19,769.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG052-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG052P	457	\$20,960.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG055-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG055P	457	\$20,574.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG056-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG056P	457	\$19,769.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG063-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG063P	457	\$23,347.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG064-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG064P	457	\$22,349.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG067-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG067P	457	\$22,961.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG068-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG068P	457	\$22,156.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG071-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG071P	457	\$23,347.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG072-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG072P	457	\$22,349.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG075-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG075P	457	\$22,961.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG076-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG076P	457	\$22,957.00
CONTROL AND DISTRIBUTION UNIT, S.A. 8-PORT, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG002-F1-V8-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F1V8P	457	\$3,979.00
CONTROL AND DISTRIBUTION UNIT, S.A. 8-PORT, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG002-F2-V8-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F2V8P	457	\$4,278.00
CONTROL AND DISTRIBUTION UNIT, S.A. 16-PORT, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG002-F1-V16-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F1V16P	457	\$4,526.00
CONTROL AND DISTRIBUTION UNIT, S.A. 16-PORT, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG002-F2-V16-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F2V16P	457	\$4,929.00
EXPANSION KIT, CONTROL AND DISTRIBUTION UNIT, 16 PORT, PASSIVE	FILTRONIC PART#: MTG004-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSMTG004P	457	\$1,194.00
EXPANSION KIT, 8 PORTS TO 16 PORTS [MODULE INTERNAL TO SEG002-F*]	FILTRONIC PART#: MTG005-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSMTG005P	457	\$541.00
SHELF, 1U, HOLDS UP TO (4) DSPSU000001P POWER SUPPLY ADAPTERS	FILTRONIC PART#: MGG002-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/DTS-MGG002-V1-P-1.pdf	DSMGG002V1P	457	\$180.00

 TXRX 440 SERIES TTA
 440 TTA IS FULLY REDUNDANT

Description	Full Description	Nomenclature	APC	Price
TTA 440, MOTOROLA TOWER TOP UNIT, 794-824 MHZ, 4.3-10 CONNS, AUTOQUAD	TXRX PART#: 440-030221 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBw8_gu4_Co4b6O7KqaqV0/view?usp=sharing	DS440030221	457	\$5,338.00
TTA 440, MOTOROLA C&DU (SA), 794-824MHZ, 16 PORT BYPASS TEST PORT ETHE	TXRX PART#: 440-030222 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBw8_gu4_Co4b6O7KqaqV0/view?usp=sharing	DS440030222	457	\$5,009.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030677 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBw8_gu4_Co4b6O7KqaqV0/view?usp=sharing	DS440030677	457	\$5,359.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 12 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030679 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBw8_gu4_Co4b6O7KqaqV0/view?usp=sharing	DS440030679	457	\$5,256.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030683 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440030683	457	\$5,607.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 1AC	TXRX PART#: 440-030684 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440030684	457	\$4,087.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 1DC	TXRX PART#: 440-030685 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440030685	457	\$4,315.00
TTA 440, MOTOROLA C&DU (SA), 794-824MHZ, 16 PORT BYPASS TEST PORT ETHE	TXRX PART#: 440-032965 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440032965	457	\$5,081.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032966 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440032966	457	\$5,430.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 16 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032967 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440032967	457	\$5,504.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032970 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440032970	457	\$4,156.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 2AC	TXRX PART#: 440-032971 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440032971	457	\$4,566.00
TTA 440, MOTOROLA TOWER TOP UNIT, 794-824 MHZ, N CONNS, AUTOQUAD W/ BY	TXRX PART#: 440-034392 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS440034392	457	\$5,338.00
794-824 MHZ, 3 MHZ BANDWIDTH PRESELECTOR FOR 440 TTA	TXRX PART#: 89-030691 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS89030691	457	\$1,311.00
794-824 MHZ, 6 MHZ BANDWIDTH PRESELECTOR FOR 440 TTA	TXRX PART#: 89-030692 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS89030692	457	\$1,552.00
794-824 MHZ, 9 MHZ BANDWIDTH PRESELECTOR FOR 440 TTA	TXRX PART#: 89-030693 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS89030693	457	\$1,281.00
794-824 MHZ, 15 MHZ BANDWIDTH PRESELECTOR FOR 440 TTA	TXRX PART#: 89-030694 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS89030694	457	\$1,552.00
794-824 MHZ, 18 MHZ BANDWIDTH PRESELECTOR FOR 440 TTA	TXRX PART#: 89-030695 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBwS8_gu4_Coq4b6O7Kaaq0/view?usp=sharing	DS89030695	457	\$1,552.00

Models
TOWER TOP AMPLIFIERS
TXRX DUAL DIVERSITY TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01C110	457	\$3,705.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC	TXRX PART#: 432F-83W-01-C-48 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01C48	457	\$4,137.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT,SNMP,	TXRX PART#: 432F-83W-01-M-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01M110	457	\$5,451.00
MULTICOUPLER UNIT, DUAL DIVERSITY,796- 824 MHZ, SNMP, 48VDC	TXRX PART#: 432F-83W-01-M-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01M148	457	\$6,477.00
TTA, DUAL DIVERSITY, 794-824MHZ,DUAL DIVERSITY,TOWER BOX,	TXRX PART#: 432F-83W-01-T SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01T	457	\$9,522.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01C110R	457	\$4,398.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC,	TXRX PART#: 432F-83W-01-C-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01C48R	457	\$4,830.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01M110R	457	\$6,144.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xtLNs96pwn3YrCP4BQ22ThpMYTYqey/view?usp=sharing	DS432F83W01M48R	457	\$7,167.00

TXRX NON REDUNDANT Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER UNIT, 796-824 MHZ, 48 VDC	The TXRX RMC05 (DS4338301M48) should be ordered with the TXRX TTA03 (DS4338301T).	DS4338301M48	457	\$4,160.00
TTA, MINI SINGLE AMP, 796-824 MHZ, SINGLE NETWORK, TOWER BOX	The TXRX TTA03 (DS4338301T) should be ordered with the TXRX RMC05 (DS4338301M110 for 110VAC or DS4338301M48 for 48VDC)	DS4338301T	457	\$3,312.00
MULTICOUPLER UNIT, 796-824 MHZ, 110 VAC	The TXRX RMC05 (DS4338301M110) should be ordered with the TXRX TTA03 (DS4338301T).	DS4338301M110	457	\$2,783.00

TOWER TOP AMPLIFIERS 900 MHZ
Models
TOWER TOP AMPLIFIERS
DBSPECTRA TTA Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
900MHZ TTA W/TEST PORT	DBSPECTRA PART#: ATS9TMA5-R SPEC SHEET LINK: www.dbspectra.com/specifications/O96000-08B.F_(Tower_Top_Amplifiers).pdf	DSATS9TMA5R	457	\$6,899.00

700 MHz Transmitter Combiners
FILTRONIC PART LIST

Description	Full Description	Nomenclature	APC	Price
7/16 DIN MALE TO 4.3-10 FEMALE ADAPTER FOR FILTRONIC COMBINERS	FILTRONIC PART#: ADP-00050 SPEC SHEET LINK: TBD	DSADP00050	457	\$173.00
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCDD12-V4	DSPCD012V4	457	\$7,705.00
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCDD12-V6	DSPCD012V6	457	\$9,363.00
700 MHZ 6-CHANNEL COMBINER KIT, STD. ISOLATION, ON CONNECTORS	FILTRONIC PART#: PCDD12-V6ON SPEC SHEET LINK: TBD	DSPCD012V6ON	457	\$9,363.00
8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCDD12-V8	DSPCD012V8	457	\$16,746.00
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCDD12-V10	DSPCD012V10	457	\$18,782.00
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCDD12-V12	DSPCD012V12	457	\$18,174.00
1-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCDD28-V1K	DSPCD028V1K	457	\$6,364.00
2-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCDD28-V2	DSPCD028V2	457	\$5,770.00
2-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCDD28-V2K	DSPCD028V2K	457	\$7,383.00
3-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCDD28-V3	DSPCD028V3	457	\$7,654.00
3-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCDD28-V3K SPEC SHEET LINK: TBD	DSPCD028V3K	457	\$8,405.00
TX POST FILTER/PMU KIT, 762-776 MHZ	FILTRONIC WIRELESS # SPC003-V2	DSPSPC003V2	457	\$1,394.00
700MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCDD031-V4	DSPCD031V4	457	\$9,324.00
700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCDD031-V6	DSPCD031V6	457	\$10,909.00
700MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING W/ON CONNECTORS	FILTRONIC PART#: PCDD031-V6ON SPEC SHEET LINK: TBD	DSPCD031V6ON	457	\$10,909.00
700MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCDD031-V8	DSPCD031V8	457	\$17,827.00
700MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCDD031-V10 SPEC SHEET LINK: TBD	DSPCD031V10	457	\$19,642.00
700MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCDD031-V12	DSPCD031V12	457	\$21,459.00
PXC008-V2 700 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC008-V2 SPEC SHEET LINK: TBD	DSPXP008V2	457	\$1,235.00
3-PORT CIRCULATOR, 700 MHZ	FILTRONIC PART#: 58009295001 SPEC SHEET LINK: TBD	DSCIR000003	457	\$150.00
700 MHZ CIRCULATOR FOR DROP-SHIP (FILTRONIC P/N CIR-000005)	FILTRONIC PART#: 58009298001	DSCIR000005	457	\$150.00
700 MHZ PHASING HARNESS	FILTRONIC PART#: MFG001-V3 SPEC SHEET LINK: TBD	DSMFG001V3	457	\$748.00
HIGH POWER LOAD ASSEMBLY	FILTRONIC PART#: 58009294001 SPEC SHEET LINK:	DSL0D000004	457	\$94.25

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
HIGH POWER 700MHZ FILTER	DBSPECTRA PART#: DS7XFLTR SPEC SHEET LINK: TBD	DSDS7XFLTR	457	\$3,448.00
EXPANSION KIT,CERAMIC COMBINER	DBSPECTRA PART#: DSCC75-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7501WB	457	\$2,582.00
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC75-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7501WOB	457	\$2,292.00
DSCC75-02D, 2 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7502D	457	\$4,890.00
DSCC75-03D, 3 CH CERAMIC TRANSMIT COMBINER, 7/16DIN CON, 773-776MHZ	DBSPECTRA PART#: DSCC75-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7503D	457	\$7,078.00
DSCC75-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7504D	457	\$9,377.00
5 CHANNEL TRANSMIT CERAMIC COMBINER, 773 - 776MHZ WITH 7/16 DIN CONN	DBSPECTRA PART#: DSCC75-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7505D	457	\$11,566.00

6 CHANNEL TRANSMIT CERAMIC COMBINER, 763 - 776MHZ WITH 7/16 DIN CONNEX		DBSPECTRA PART#: DSCC75-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7506D	457	\$13,754.0
CERAMIC COMBINER, 700 MHZ,7 CH		DBSPECTRA PART#: DSCC75-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7507D	457	\$16,053.0
CERAMIC COMBINER, 700 MHZ,8 CH		DBSPECTRA PART#: DSCC75-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7508D	457	\$18,241.0
CERAMIC COMBINER, 700 MHZ,9 CH		DBSPECTRA PART#: DSCC75-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7509D	457	\$20,430.0
CERAMIC COMBINER, 700 MHZ,10 CH		DBSPECTRA PART#: DSCC75-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7510D	457	\$22,730.0
CERAMIC COMBINER, 700 MHZ,11 CH		DBSPECTRA PART#: DSCC75-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7511D	457	\$27,399.0
CERAMIC COMBINER, 700 MHZ,12 CH		DBSPECTRA PART#: DSCC75-12D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7512D	457	\$30,015.0
TXRX PARTS					
Description	Full Description	Nomenclature	APC	Price	
AIRLINE JNCTN COMBINER 700 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-83B-99104-20 SPEC SHEET LINK: TBD	DS4483B9910420	457	\$5,749.00	
AIRLINE JNCTN COMBINER 700 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-83B-99104-30 SPEC SHEET LINK: TBD	DS4483B9910430	457	\$7,420.00	
AIRLINE JNCTN COMBINER 700 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-83B-99104-40 SPEC SHEET LINK: TBD	DS4483B9910440	457	\$9,627.00	
AIRLINE JNCTN COMBINER 700 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-83B-99104-50 SPEC SHEET LINK: TBD	DS4483B9910450	457	\$11,527.00	
AIRLINE JNCTN COMBINER 700 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-83B-99104-60 SPEC SHEET LINK: TBD	DS4483B9910460	457	\$13,865.00	
AIRLINE JNCTN COMBINER 700800 MHZ 4 CH 19"	TXRX PART#: 44-83E-99104-04 SPEC SHEET LINK: TBD	DS4483E9910404	457	\$9,436.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 1 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-01 SPEC SHEET LINK: TBD	DS7383B112D01	457	\$3,036.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 2 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-02 SPEC SHEET LINK: TBD	DS7383B112D02	457	\$5,382.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 3 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-03 SPEC SHEET LINK: TBD	DS7383B112D03	457	\$7,590.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 4 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-04 SPEC SHEET LINK: TBD	DS7383B112D04	457	\$9,936.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 5 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-05 SPEC SHEET LINK: TBD	DS7383B112D05	457	\$12,282.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 6 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-06 SPEC SHEET LINK: TBD	DS7383B112D06	457	\$14,628.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-07 SPEC SHEET LINK: TBD	DS7383B112D07	457	\$16,974.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 8 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-08 SPEC SHEET LINK: TBD	DS7383B112D08	457	\$19,230.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 9 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-09 SPEC SHEET LINK: TBD	DS7383B112D09	457	\$21,666.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 10 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-10 SPEC SHEET LINK: TBD	DS7383B112D10	457	\$24,012.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 11 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-11 SPEC SHEET LINK: TBD	DS7383B112D11	457	\$26,358.00	
COMBINER, 764-806 MHZ, T-PASS, TX, 12 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-12 SPEC SHEET LINK: TBD	DS7383B112D12	457	\$28,704.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858301	457	\$461.00	
HYBRID DIR CPLR 746-960 MHZ -3 DB 500W	TXRX PART#: 85-83-0101 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830101	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858301C	457	\$602.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858301LT	457	\$359.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-0201 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830201	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858302	457	\$461.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858302LT	457	\$359.00	
HYBRID DIRECTIONAL COUPLER 746-960 MHZ -6DB	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858303	183	\$337.00	
HYBRID DIR CPLR 746-960 MHZ -6 DB 500W	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830301	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858303C	457	\$602.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858303LT	457	\$359.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-0401 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830401	457	\$530.00	
HYBRID DIR CPLR 746-960 MHZ -7 DB 500W	TXRX PART#: 85-83-0401 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830401	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-0401 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858304C	457	\$602.00	
HYBRID DIR CPLR 746-960 MHZ -10 DB 25W	TXRX PART#: 85-83-0501 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830501	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858305C	457	\$602.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858305LT	457	\$359.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0601 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830601	457	\$530.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858306C	457	\$602.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858306LT	457	\$359.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -20 DB, 99%/1% SPLIT RATIO,	TXRX PART#: 85-83-07 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858307	457	\$461.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0701 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS85830701	457	\$530.00	
HYBRID DIRECTIONAL COUPLER 746-960 MHZ -30DB	TXRX PART#: 85-83-08 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858308	183	\$685.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PART#: 85-83-08LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qhl_Jhw08DPyPfv/view?usp=sharing	DS858308LT	457	\$413.00	
COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PAER#: 84-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1CuI-z4KZFvYyYfSNC2zC08xibQ9GB0/view?usp=sharing	DS848301	457	\$178.00	
2-WAY RCVR TYPE POWER DIVIDER, 746-960	TXRX PAER#: 84-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1CuI-z4KZFvYyYfSNC2zC08xibQ9GB0/view?usp=sharing	DS848302	457	\$214.00	
POWER DIVIDER/SIGNAL COMBINER, 4-WAY, HYBRID/WILKINSON, 746-960 MHZ,	TXRX PAER#: 84-83-12 SPEC SHEET LINK: https://drive.google.com/file/d/1CuI-z4KZFvYyYfSNC2zC08xibQ9GB0/view?usp=sharing	DS848312	457	\$305.00	
POWER DIVIDER/SIGNAL COMBINER, 3-WAY, STRIPLINE, 746-960 MHZ,					

800 MHz Transmitter Combiners

TXRX PARTS					
Description	Full Description	Nomenclature	APC	Price	
T PASS TX EXP 806-824 MHZ 6" CAV 5-60W	TXRX PART#: 21-86A-11-2C-T SPEC SHEET LINK: TBD	DS2186A112CT	457	\$1,875.00	
SINGLE TX T-PASS EXPANSION CHANNEL FOR 851-869MHZ	TXRX PART#: 21-87A-11-2C-T SPEC SHEET LINK: TBD	DS2187A112CT	457	\$1,875.00	
T PASS TX EXP 851-869 MHZ CHANNEL 6" 3-4 W V SW-100W	TXRX PART#: 21-87A-11-2D-T SPEC SHEET LINK: TBD	DS2187A112DT	457	\$1,917.00	
AIRLINE JNCTN COMBINER 800 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-86A-99104-02 SPEC SHEET LINK: TBD	DS4486A9910402	457	\$5,085.00	
AIRLINE JNCTN COMBINER 800 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-86A-99104-03 SPEC SHEET LINK: TBD	DS4486A9910403	457	\$6,783.00	
AIRLINE JNCTN COMBINER 800 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-86A-99104-04 SPEC SHEET LINK: TBD	DS4486A9910404	457	\$8,956.00	
AIRLINE JNCTN COMBINER 800 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-86A-99104-05 SPEC SHEET LINK: TBD	DS4486A9910405	457	\$10,529.00	
AIRLINE JNCTN COMBINER 800 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-86A-99104-06 SPEC SHEET LINK: TBD	DS4486A9910406	457	\$12,461.00	
COMBINER, 806-960 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE CAV	TXRX PART#: 73-90-11-2D-07-LR SPEC SHEET LINK: https://bx.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D07LR	457	\$13,095.00	
T-PASS TX MULTICOUPLER 10 CH 6" 3-4WV SW-100W	TXRX PART#: 73-90-11-2D-10 SPEC SHEET LINK: https://bx.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D10	457	\$19,882.00	
FILTRONIC PARTS					
Description	Full Description	Nomenclature	APC	Price	
7/16 DIN MALE TO 4.3-10 FEMALE ADAPTER FOR FILTRONIC COMBINERS	FILTRONIC PART#: ADP-000050 SPEC SHEET LINK: TBD	DSADP000050	457	\$173.00	
800 MHZ PHASING HARNESS	FILTRONIC PART#: MFG002-V2 SPEC SHEET LINK: TBD	DSMFG002V2	457	\$748.00	
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V4	DSPCD013V4	457	\$6,250.00	
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V6	DSPCD013V6	457	\$9,366.00	
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ, QN	FILTRONIC PART#: PCD013-V6QN SPEC SHEET LINK: TBD	DSPCD013V6QN	457	\$9,356.00	
8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V8	DSPCD013V8	457	\$14,106.00	
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC# PCD013-V10	DSPCD013V10	457	\$18,225.00	
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V12	DSPCD013V12	457	\$20,787.00	

Description	Full Description	Nomenclature	APC	Price
4 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PC0014-V4	DSPCD014V4	457	\$8,890.00
6 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PC0014-V6	DSPCD014V6	457	\$11,696.00
8 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PC0014-V8	DSPCD014V8	457	\$19,511.00
10 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PC0014-V10	DSPCD014V10	457	\$22,462.00
12 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PC0014-V12	DSPCD014V12	457	\$25,268.00
TX DIPLEXER/PMU KIT, 762-776 MHZ/851-870MHZ	FILTRONIC WIRELESS # SX0019-V2	DSSXC019V2	457	\$1,447.00
TX POST FILTER/PMU KIT, 851-870 MHZ	FILTRONIC WIRELESS # SP0004-V2	DSSPC004V2	457	\$1,204.00
800 MHZ 4 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PC0024-V4	DSPCD024V4	457	\$9,113.00
800 MHZ 6 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PC0024-V6	DSPCD024V6	457	\$11,401.00
800 MHZ 8-CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PC0024-V8	DSPCD024V8	457	\$20,380.00
800 MHZ 10 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PC0024-V10	DSPCD024V10	457	\$22,464.00
800 MHZ 12 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PC0024-V12	DSPCD024V12	457	\$25,100.00
1-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PC0029-V1K	DSPCD029V1K	457	\$5,854.00
2-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	FILTRONIC PART#: PC0029-V2K	DSPCD029V2K	457	\$6,109.00
3-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PC0029-V3K	DSPCD029V3K	457	\$6,858.00
3-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PC0029-V3K	DSPCD029V3K	457	\$7,112.00
1-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PC0030-V1K	DSPCD030V1K	457	\$7,859.00
2-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PC0030-V2	DSPCD030V2	457	\$6,339.00
2-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PC0030-V2K	DSPCD030V2K	457	\$7,815.00
3-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PC0030-V3	DSPCD030V3	457	\$8,545.00
3-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PC0030-V3K	DSPCD030V3K	457	\$9,292.00
800MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PC0032-V4	DSPCD032V4	457	\$9,412.00
800MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PC0032-V6	DSPCD032V6	457	\$11,141.00
800MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PC0032-V8	DSPCD032V8	457	\$18,046.00
800MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PC0032-V10	DSPCD032V10	457	\$19,775.00
800MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PC0032-V12	DSPCD032V12	457	\$21,505.00
800MHZ 4-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PC0033-V4	DSPCD033V4	457	\$10,210.00
800MHZ 6-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PC0033-V6	DSPCD033V6	457	\$12,685.00
800MHZ 8-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PC0033-V8	DSPCD033V8	457	\$19,642.00
800MHZ 10-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PC0033-V10	DSPCD033V10	457	\$22,117.00
800MHZ 12-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PC0033-V12	DSPCD033V12	457	\$24,589.00
800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PX0009-V2	DSPXC009V2	457	\$1,254.00
LMR 769-869MHZ TRIPLE BANDPASS FILTER, KIT	FILTRONIC PART#: PX0034-V1	DSPXC034V1	457	\$1,063.00
W/VAZ TRIPLE NOTCH FILTER, KIT	FILTRONIC PART#: PC010-V1	DSPCC010V1	457	\$1,513.00
COMBINER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000001	DSKIT000001	457	\$918.00
KIT-000004 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000004	DSKIT000004	457	\$842.00
KIT-000009 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000009	DSKIT000009	457	\$205.00
3-PORT CIRCULATOR, 800 MHZ	FILTRONIC PART#: 88009296001	DSCIR000004	457	\$150.00
6 PART CIRCULATOR, 800 MHZ	FILTRONIC PART#: 88009299001	DSCIR000006	457	\$150.00
HIGH POWER LOAD ASSEMBLY	FILTRONIC PART#: 58009294001 SPEC SHEET LINK: https://www.filtronic.com/imsi/DSL0D000004	DSL0D000004	457	\$94.25
LOAD N-F.5W.TERMINATION	FILTRONIC PART#: LOD-000010	DSL0D000010	457	\$172.00
HIGH POWER LOAD ASSEMBLY (FITS POWERWAVE COMBINERS)	FILTRONIC PART#: 58009297001	DSL0D000015	457	\$246.00

900 MHZ TRANSMITTERS/COMBINERS
Configuration
DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DSCC95-01D, 1 CHANNEL CERAMIC COMBINER 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-01D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501D	457	\$2,701.00
DSCC95-02D, 2 CHANNEL TRANSMIT CERAMIC COMBINER, 935-940MHZ, 7/16 DIN	DBSPECTRA PART#: DSCC95-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9502D	457	\$4,925.00
DSCC95-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9503D	457	\$7,005.00
DSCC95-04D, 4 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9504D	457	\$9,474.00
DSCC95-05D, 5 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9505D	457	\$11,698.00
DSCC95-06D, 6 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9506D	457	\$13,503.00
935-940MHZ 7 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9507D	457	\$16,247.00
DSCC95-08D, 8 CH 935-940MHZ CERAMIC COMBINER, 150KHZ SEP	DBSPECTRA PART#: DSCC95-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9508D	457	\$18,471.00
935-940MHZ 9 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9509D	457	\$20,694.00
935-940MHZ, 10 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9510D	457	\$23,020.00
935-940MHZ, 11 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9511D	457	\$27,399.00
935-940MHZ, 12 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-12D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9512D	457	\$30,015.00
FILTER, 935-941MHZ HIGH POWER TX FILTER WITH DIN CONNECTOR	DBSPECTRA PART#: MWF9AM-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-224-C_(MWF7AM-D_MWF8AM-D_&_MWF9AM-D_Hi_Pwr_Tx_Filter).pdf	DSMWF9AM-D	457	\$2,254.00
EXPANSION KIT, SINGLE CHANNEL COMBINER INCL CAVITY, ISOLATOR/LOAD, PHA	DBSPECTRA PART#: DSCC95-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WB	457	\$2,812.00
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC95-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WOB	457	\$2,500.00
DSHC900-05WF, 5 CH HYBRID COMBINER , 935-940MHZ	DBSPECTRA PART#: DSHC900-05WF SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSHC900-05WF_5-Ch_900_MHz_Hybrid_with_Filter_V1.pdf	DSDSHC90005WF	457	\$13,800.00
896 - 901MHZ MILLED WINDOW FILTER W/CELLULAR NOTCH	DBSPECTRA PART#: MWF9BMCN-N SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000.244.B_(MWF9BMCN-N_900_MHz_RX_WDO_Filter_with_Cell_Notch).pdf	DSMWF9BMCN-N	457	\$2,473.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W- 60W	TXRX PART#: 21-95-11-2C-T SPEC SHEET LINK: TBD	DS2195112CT	457	\$1,875.00
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-95-11-2D-T SPEC SHEET LINK: TBD	DS2195112DT	457	\$1,917.00
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-60W	TXRX PART#: 21-96-11-2C-T SPEC SHEET LINK: TBD	DS2196112CT	457	\$1,875.00
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-96-11-2D-T SPEC SHEET LINK: TBD	DS2196112DT	457	\$1,917.00
EXPANSION KIT, 926-960 MHZ, T-PASS, 6" DIAMETER 5/4 WAVE CAVITY, T PASS TX EXP 940-960 MHZ 6" CAV 5-60W	TXRX PART#: 21-96-31-2HF-T SPEC SHEET LINK: TBD	DS2196312FT	457	\$3,239.00
T PASS TX EXP 940-960 MHZ 6" CAV 5-100W	TXRX PART#: 21-98-11-2C-T SPEC SHEET LINK: TBD	DS2198112CT	457	\$1,875.00
COMBINER TX 900MHZ 2CH AIRLINE JUNCTION	TXRX PART#: 21-98-11-2D-T SPEC SHEET LINK: TBD	DS2198112DT	457	\$1,917.00
COMBINER TX 900 MHZ 3 CH AIRLINE JUNCTION	TXRX PART#: 44-96-99104-3 SPEC SHEET LINK: TBD	DS449699104	457	\$4,722.00
4 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-4 SPEC SHEET LINK: TBD	DS449699104	457	\$6,316.00
5 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-5 SPEC SHEET LINK: TBD	DS449699104	457	\$7,863.00
6 CHANNEL SERIES AIRLINE JUNCTION COMBINER	TXRX PART#: 44-96-99104-6 SPEC SHEET LINK: TBD	DS449699104	457	\$9,098.00
	TXRX PART#: 44-96-99104-6 SPEC SHEET LINK: TBD	DS449699104	457	\$11,094.00

CONTROL STATION COMBINERS
Configuration
DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
8 CHANNEL SHORT HAUL COMBINER, CSC01, 100-960MHZ	DBSPECTRA PART#: BCH00008 SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-181.B_(DSBCHShortHaulCSC).pdf	DSBCH00008	457	\$2,811.00

Updated Pricing for contract 4400016317 as of January 2022

4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11904 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH) 096000-180.B.PDF	DSBCH11904	457	\$18,975.0
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11908 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH) 096000-180.B.PDF	DSBCH11908	457	\$37,950.0
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11912 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH) 096000-180.B.PDF	DSBCH11912	457	\$56,925.0
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11916 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH) 096000-180.B.PDF	DSBCH11916	457	\$75,900.0

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.0
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 4 CH.	RFI PART#: CS1517-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170405SN	457	\$13,910.0
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 8 CH.	RFI PART#: CS1517-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170805SN	457	\$28,241.0
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.0
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.0
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.0
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.0
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 12 CH.	RFI PART#: CS3845-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451205SN	457	\$27,684.0
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 16 CH.	RFI PART#: CS3845-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451605SN	457	\$33,337.0
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 32 CH.	RFI PART#: CS3845-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38453205SN	457	\$70,231.0
HYBRID CONTROL STATION COMBINER, 380-450 MHZ, HEAD END 4 PORT	RFI PART#: CS3852-01-04-HE SPEC SHEET LINK: TBD	DSCS38520104HE	457	\$3,096.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 4 CH.	RFI PART#: CS4552-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520405SN	457	\$7,867.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 8 CH.	RFI PART#: CS4552-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520805SN	457	\$18,078.0
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 12 CH.	RFI PART#: CS4552-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521205SN	457	\$27,684.0
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 16 CH.	RFI PART#: CS4552-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521605SN	457	\$33,337.0
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 2 CH. HEAD END	RFI PART#: CS7486-01-02-HE SPEC SHEET LINK: TBD	DSCS74860102HE	457	\$2,710.00
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 4 CH. HEAD END	RFI PART#: CS7486-01-04-HE SPEC SHEET LINK: TBD	DSCS74860104HE	457	\$3,612.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 8 CH.	RFI PART#: CS7486-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74860805SN	457	\$12,172.0
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 16 CH.	RFI PART#: CS7486-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74861605SN	457	\$26,514.0
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 32 CH.	RFI PART#: CS7486-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74863205SN	457	\$40,467.0
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UBI SPEC SHEET LINK: TBD	DSUB1	351	\$16.50
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 4 CHANNEL	RFI PART#: CS8996-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89960405SN	457	\$7,750.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 16 CHANNEL	RFI PART#: CS8996-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89961605SN	457	\$26,514.0
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 24 CHANNEL	RFI PART#: CS8996-2405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89962405SN	457	\$39,048.0
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 32 CHANNEL	RFI PART#: CS8996-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-xx05-SN-Series-US-41787-2.pdf	DSCS89963205SN	457	\$57,709.0
DUPLEXER TRI BAND 762-776 MHZ, 792-824 MHZ, 851-869 MHZ	RFI PART#: DP7680-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP7680-0801-32-41011-2.pdf	DSDP7680080132	457	\$2,696.00
DUPLEXER 762-776 MHZ, 792-806 MHZ	RFI PART#: DP7680-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP7680-0801-32-41011-3.pdf	DSDP7680080132	457	\$1,581.00
DUPLEXER FOR 896-902 MHZ AND 935-941 MHZ PASSBANDS	RFI PART#: DP8010-0883-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP8010-0883-32-41011-4.pdf	DSDP8010088332	457	\$2,177.00
ANTENNA TRIPLEXER 30-180 MHZ, 330-520 MHZ, 746-960 MHZ	RFI PART#: SP0000-1151-11 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/SP0000-1151-11_P41011-1.pdf	DSP0000115111	457	\$1,468.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 4 CHANNEL	TXRX PART#: 43-05-01A-04-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwvLpKHzya6kBAwE10HY_Gx/view?usp=sharing	DS430501A04SH	457	\$1,638.00
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 8 CHANNEL	TXRX PART#: 43-05-01A-08-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwvLpKHzya6kBAwE10HY_Gx/view?usp=sharing	DS430501A08SH	457	\$3,276.00
COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 12 CHANNEL	TXRX PART#: 43-05-01A-12-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwvLpKHzya6kBAwE10HY_Gx/view?usp=sharing	DS430501A12SH	457	\$4,914.00
COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 16 CHANNEL	TXRX PART#: 43-05-01A-16-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwvLpKHzya6kBAwE10HY_Gx/view?usp=sharing	DS430501A16SH	457	\$6,552.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 4 CHANNEL	TXRX PART#: 43-83G-01A-04 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A04	457	\$9,467.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 8 CHANNEL	TXRX PART#: 43-83G-01A-08 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A08	457	\$13,549.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 12 CHANNEL	TXRX PART#: 43-83G-01A-12 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A12	351	\$23,593.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 16 CHANNEL	TXRX PART#: 43-83G-01A-16 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A16	457	\$29,624.00
CONTROL STATION COMBINER, 746-869 MHZ, 24 CHANNEL	TXRX PART#: 43-83G-01A-24 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A24	351	\$42,390.00
CONTROL STATION COMBINER, 746-869 MHZ, 28 CHANNEL CSC	TXRX PART#: 43-83G-01A-28 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzvJ1Vwcl3np_5bS0bImDLAe7o7/view?usp=sharing	DS4383G01A28	351	\$48,870.00

ASTRO 25 PDEG ENCRYPTION UNIT
Upgrades

Description	Full Description	Nomenclature	APC	Price
PDEG ENCRYPTION/CD SOFTWARE UPGRADE KIT	-	T8210	137	\$50.00
ADD: PDEG CD SOFTWARE UPGRADE	-	CA02854AA	137	\$50.00

Model HARDWARE

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 PDEG ENCRYPTION UNIT	-	T7539	137	\$750.00

Options SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: ASTRO 25 EID OPERATION	-	CA01483AA	137	\$6,500.00

Accessories

Description	Full Description	Nomenclature	APC	Price
RS232 CABLE FOR CRYPTOR	-	DLN6693	454	\$160.00
RACK MOUNTING PLATE	-	TKN9283	811	\$60.00
RACK SUPPORT BRACKET	-	TKN9282	811	\$64.00
CABLE FOR RNC, DIU MGE6	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately. -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00

UNINTERRUPTIBLE POWER SUPPLIES (UPS)
Models
On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Rackmount

Description	Full Description	Nomenclature	APC	Price
UPS, 9PX, 1800W, 120V, SOFTWIRED, 30 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR18001030S	207	\$4,343.00
UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR1800N008S	207	\$3,019.00
UPS, GXT RACKMOUNT 1000VA/900W, 7 MIN RUNTIME 120V SOFTWIRED	Liebert GXT4. Includes two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR9090N007	207	\$1,320.00
UPS, 9PX, 2700W, 120V, SOFTWIRED, 43 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27002043S	207	\$7,593.00
UPS, 9PX, 2700W, 120V, SOFTWIRED, 23 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27001023S	207	\$6,270.00
UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED	Liebert GXT4. Hardwired input and output. Includes two post rail mounting kit and two year depot warranty.	DSGXTR9000N005HW	207	\$13,510.00
UPS, GXT RACKMOUNT 1500VA/1350W, 6 MIN RUNTIME, 120V	Liebert GXT4. Includes two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR1350N006	207	\$1,666.00
UPS, GXT RACKMOUNT 2KVA/1.8KW, 120/120V, 20 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-20P plug, (6) NEMA 5-20 T Slot receptacles.	DSGXTR18001020	207	\$2,982.00
UPS, GXT RACKMOUNT 1000VA/900W, 38 MIN RUNTIME 120V SOFTWIRED	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR90900103H	207	\$2,166.00
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 20 MIN RUNTIME RACK MOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty.	DS9PXXR45001020H	207	\$11,100.00

On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Tower

Description	Full Description	Nomenclature	APC	Price
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 3 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty.	DS9PXXT4500N003H	207	\$8,548.00
UPS, GXT TOWER 500VA/450W, 120/120V, 92 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT04501092	207	\$1,388.00
UPS, GXT TOWER 1000VA/900W, 120V, 7 MIN RUNTIME SOFTWIRED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT0900N007	207	\$1,254.00
UPS, 9PX, 1800W, 120V, SOFTWIRED, 8 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXT1800N008S	207	\$2,869.00
UPS, GXT TOWER 1500VA/1350W, 120V, 6 MINUTE RUNTIME, 120/120V, SOFTWIRE	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT1350N006	207	\$1,564.00
UPS, GXT TOWER 500VA/450W, 17 MINUTE RUNTIME 120/120V SOFTWIRED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT0450N017	207	\$710.00

On-line double conversion, single phase scalable hardwired UPS

Description	Full Description	Nomenclature	APC	Price
UPS, 9170 12KVA/10KW, 16 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917010D4N0016	207	\$27,429.00
UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 7 MIN RUN AT FULL	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch, internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4200700512	207	\$33,768.00
UPS, 9170 9KVA/7.5KW, 27 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917007D4N0027	207	\$25,302.00
UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 5 MIN RUN AT FULL	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch, internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4150050312	207	\$25,397.00

Replacement Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY MODULE FOR LIEBERT INFINITY UPS	-	DSBATTERYMOD	207	\$766.00
BATTERY MODULE FOR 1 SLOT, 9170+ UPS (INCLUDES 2 BATTERY MODULES)	-	DS9170MBATMODULES	207	\$1,460.00
BATTERY STRING FOR LIEBERT APS UPS (CONSISTING OF TWO BATTERIES)	-	DSAPSATTERYSTRG	207	\$1,880.00

Vigilant

Part #	Product Type	Description	Sell Price
CDM-3-234-RHD-C	Hardware	Mobile LPR 3-Camera System, 6 ft USB extension, Light Bar Bracket, 5 Year Warranty, & Perpetual License	\$47,466.15

VERINT RECORDING FOR PUBLIC SAFETY V15.2 (FOR 7.17 OR LATER)
Base Verint Model

Description	Full Description	Nomenclature	APC	Price
VERINT V15 RECORDING SOLUTION	-	TT3610	229	\$0.00

Options - Primary

Description	Full Description	Nomenclature	APC	Price
VERINT RECORDER FOR USE ON 7.16 SYSTEMS	-	TT06078AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.17 SYSTEMS	-	TT06079AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06080AA	229	\$0.00
VERINT RECORDER FOR USE ON 2019.X SYSTEMS	-	TT06081AA	229	\$0.00
VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	TT06460AA	229	\$662.00
VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	TT06459AA	229	\$328.00
VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	TT06461AA	229	\$221.00
VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	TT06462AA	229	\$214.00
VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	TT06463AA	229	\$321.00
VERINT PUBLIC SAFETY N+N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	TT06464AA	229	\$158.00
VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	TT06465AA	229	\$158.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL ENCRYPT MGMT CHANNEL BASED	-	TT06466AA	229	\$164.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	TT06467AA	229	\$284.00
VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	TT06468AA	229	\$3,150.00
MSI RADIO P25 INTERFACE ENABLER	-	TT06469AA	229	\$20,160.00
PUBLIC SAFETY DOD HARDENING STIGS COMPLIANCE	-	TT06470AA	229	\$9,450.00
MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	TT06471AA	229	\$15,876.00
MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	TT06472AA	229	\$15,750.00
MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	TT06473AA	229	\$3,150.00

Accessories - Servers

Description	Full Description	Nomenclature	APC	Price
6000 PLATFORM STANDARD SERVER (SVR6KLE-STD)	-	DDN2909	229	\$10,104.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH1-CON-L0)	-	DDN2910	229	\$15,740.00
ADD ON MEDIA STORAGE 3x480GB SSD (RAID5, SSD-SD3R5)	-	DDN2911	229	\$2,484.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH2-CON-L0)	-	DDN2912	229	\$17,971.00
6000 PLATFORM CONSOLIDATED SERVER L1 (SVR6KH1-CON-L1)	-	DDN2913	229	\$18,943.00
6000 PLATFORM CONSOLIDATED SERVER L1 (SVR6KH2-CON-L1)	-	DDN2914	229	\$20,786.00
6000 PLATFORM RECORDER SERVER (SVR6KH1-REC)	-	DDN2915	229	\$12,850.00
6000 PLATFORM RECORDER SERVER (SVR6KH2-REC)	-	DDN2916	229	\$14,541.00
6000 PLATFORM DATA CENTER (SVR6KH1-DC)	-	DDN2917	229	\$18,891.00
6000 PLATFORM DATABASE SERVER (SVR6KH1-DB)	-	DDN2918	229	\$22,125.00
6000 PLATFORM APPLICATION SERVER (SVR6KH1-APP)	-	DDN2919	229	\$12,612.00

Accessories - Server Add Ons

Description	Full Description	Nomenclature	APC	Price
ADD ON MEDIA STORAGE 3x800GB SSD (RAID5, SSD-SD3R5)	-	DDN2920	229	\$4,234.00
ADD ON MEDIA STORAGE 3x1200GB SSD (RAID5, SSD-SD3R5)	-	DDN2921	229	\$6,521.00
ADD ON QUAD PORT INTEL I350-AE GBE I/O MODULE	-	DDN2922	229	\$948.00
ADD ON AUDIOCODES DP CARD DUAL SPAN PASSIVE (PCI-E)	-	DDN2923	229	\$7,344.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORTS (PCI-E)	-	DDN2924	229	\$4,439.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI-E)	-	DDN2925	229	\$7,484.00



Updated Pricing for contract 4400016317 as of January 2022

ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI-E)	-	DDN2926	229	\$3,888.00
ADD ON AUDIOCODES NGX CARD 8 DIGITAL PORTS (PCI-E)	-	DDN2927	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 8 ANALOG PORTS (PCI-E)	-	DDN2928	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORT (PCI)	-	DDN2929	229	\$4,458.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI)	-	DDN2930	229	\$6,834.00
ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI)	-	DDN2931	229	\$3,519.00
ADD ON 13 SLOT PCI EXPANSION CHASSIS FOR 6000 SERIES PLATFORM	-	DDN2932	229	\$7,085.00
ADD ON INTERNAL BLU-RAY DRIVE	-	DDN2933	229	\$335.00
ADD ON REMOTE MANAGEMENT MODULE	-	DDN2934	229	\$147.00
ADD ON RDX EXTERNAL DRIVE WITH 500GB CARTRIDGE	-	DDN2935	229	\$1,750.00
ADD ON DDR4 RDIMM 4GB 2100MT PER SEC	-	DDN2936	229	\$302.00

Accessories - OS / SQL	Description	Full Description	Nomenclature	APC	Price
	WINDOWS SERVER 2012 R2 FOR EMBEDDED SYSTEMS	-	DDN2937	229	\$1,048.00
	SQL SERVER 2012 R2 WITH 5 CALS	-	DDN2938	229	\$1,490.00

Accessories - Spares, HDD, etc.	Description	Full Description	Nomenclature	APC	Price
	SPARE PARTS KIT FOR 6000 SERIES PLATFORM STD SVR (SVR6KLE-STD)	-	DDN2945	229	\$1,067.00
	SPARE PARTS KIT 6000-SERIES CONSOLIDATED, RECORDER, APPL SVR, DC	-	DDN2946	229	\$2,402.00
	HARD DISK - 240GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2947	229	\$456.00
	HARD DISK - 480GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2948	229	\$827.00
	HARD DISK - 800GB SSD SATA 6 GB PER SEC, 2.5-INCH	-	DDN2949	229	\$1,410.00
	HARD DISK - 1200GB SSD SATA 6 GB PER SEC	-	DDN2950	229	\$2,173.00
	INTEGRATED RAID MODULE RMS3CC080, 12GB PER S, 8 INTL PORT SAS SATA	-	DDN2951	229	\$1,540.00
	INTEL SERVER RISER BOARD - AZULBRISER	-	DDN2952	229	\$188.00
	XONAR U3 MOBILE HEADPHONE AMP USB SOUND CARD	-	DDN2953	229	\$175.00
	SPARE FAN KIT REPLACEMENT 60X38MM FANS, HOT-SWAP CONNECTOR	-	DDN2954	229	\$175.00
	SERVER BOARD SUPPORTING 2 INTEL XEON PROCESSOR E5-2600 V3 FAMILY	-	DDN2955	229	\$1,398.00
	PCI EXPRESS HOST INTERFACE CARD FOR USE WITH PCI EXPAN CHASSIS	-	DDN2956	229	\$1,134.00
	HARD DISK - 1TB DRIVE, 7200 SATA 3.5" EP	-	DDN2957	229	\$270.00
	SATA SLIM-LINE OPTICAL DVD DRIVE OXSSATADVDR0M, SINGLE	-	DDN2958	229	\$166.00
	2 POST RACK RAIL KIT FOR 6000 SERIES SERVERS	-	DDN2960	229	\$216.00

Accessories - Option Equivalents	Description	Full Description	Nomenclature	APC	Price
	WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7449	877	\$50.00
	WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
	VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	DDN2888	229	\$328.00
	VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	DDN2889	229	\$662.00
	VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	DDN2890	229	\$221.00
	VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	DDN2891	229	\$214.00
	VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	DDN2892	229	\$321.00
	VERINT PUBLIC SAFETY N+N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	DDN2893	229	\$158.00
	VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	DDN2894	229	\$158.00
	VERINT PUBLIC SAFETY ACTIVE PARALLEL ENCRYPT MGMT CHANNEL BASED	-	DDN2895	229	\$164.00
	VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	DDN2896	229	\$284.00
	VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	DDN2897	229	\$3,150.00
	MSI RADIO P25 INTERFACE ENABLER	-	DDN2898	229	\$20,160.00
	PUBLIC SAFETY DDD HARDENING STIGS COMPLIANCE	-	DDN2899	229	\$9,450.00
	MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	DDN2900	229	\$15,876.00
	MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	DDN2901	229	\$15,750.00
	MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	DDN2902	229	\$3,150.00

Replay Client	Description	Full Description	Nomenclature	APC	Price
	REPL BY: TT3903A	-	TT3492	708	\$2,500.00

SIERRA WIRELESS IN VEHICLE ROUTER BASED SOLUTIONS

STEP ONE (MUST SELECT ONE)

MG90 ROUTERS	Description	Full Description	Nomenclature	APC	Price
	MG 90 ROUTERS (SINGLE LTE-A PRO)	Includes: Single LTE-A Pro (Sierra Wireless SKU: 1103981)	TT3451	635	\$1,599.00
	MG90 ROUTERS (DUAL LTE-A PRO)	Includes: Dual LTE-A Pro (Sierra Wireless SKU: 1103982)	TT3452	635	\$2,279.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR MG90	Description	Full Description	Nomenclature	APC	Price
	INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT				
	3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010352	TT06354AA	923	\$585.00
	ADD: 5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010354	TT06355AA	923	\$975.00
	AIRLINK SUPPORT - MG ONLY, 2 YEAR	Sierra SKU: 9010351	TT06388AA	923	\$390.00
	AIRLINK SUPPORT - MP/RV 5 YEAR	Sierra SKU: 9010353	TT06389AA	923	\$250.00
	ADD: AIRLINK SUPPORT - MG ONLY 1 YEAR	Sierra SKU: 9010229	TT06390AA	923	\$105.00
	AIRLINK SUPPORT - MG ONLY 2 YEAR	Sierra SKU: 9010355	TT06391AA	923	\$210.00
	ADD: AIRLINK SUPPORT - MG ONLY 3 YEAR	Sierra SKU: 9010356	TT06392AA	923	\$315.00
	AIRLINK SUPPORT - MG ONLY 4 YEAR	Sierra SKU: 9010357	TT06393AA	923	\$420.00
	ADD: AIRLINK SUPPORT - MG ONLY 5 YEAR	Sierra SKU: 9010358	TT06394AA	923	\$525.00
	1 YR ESSENTIAL	Sierra SKU: 9010184	TT06333AA	923	\$195.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MG90	Description	Full Description	Nomenclature	APC	Price
	AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
	AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
	ADD: AMM CLIENT LICENSE - MG90 (PER DEVICE)	New AMM On Premise deployment Requires also Server License: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010204) (Sierra Wireless SKU: 9010204)	TT06424AA	635	\$295.00
	AMM ENTERPRISE LICENSE - UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MG90	Description	Full Description	Nomenclature	APC	Price
	ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
	ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY: 1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00
	ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
	ACM CLIENT LICENSE (FIPS) - MG90 (PER DEVICE)	Order one per router. Requires TT06381AA. Includes FIPS. (Sierra Wireless SKU: 9010210)	TT06365AA	635	\$300.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MG90	Description	Full Description	Nomenclature	APC	Price
	AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
	AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
	ACM APPLIANCE HARDWARE (PER APPLIANCE)	*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MG90	Description	Full Description	Nomenclature	APC	Price
	AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE				
	QTY 1: order one per deployment, provides three instances of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00
STEP SEVEN (OPTIONAL-SEPARATE LINE ITEM)				
ANTENNAS FOR MG90				
Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M,	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, WHI	6in1 Dome Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, BLA	6in1 Dome Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, BLACK	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 SharkFin WiFi Antenna - 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT MOUNT, 4M, BLACK	2in1 SharkFin Antenna - 2xLTE, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001120)	DDN2782	635	\$190.00
2IN1 DOME ANTENNA - 2XLTE, BOLT MOUNT, 5M, WHITE	2in1 Dome Antenna - 2xLTE, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001123)	DDN2783	635	\$190.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 WiFi Antenna - 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001122)	DDN2784	635	\$180.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, WHITE	3in1 WiFi Antenna - 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, White (Sierra Wireless SKU: 6001143)	DDN2785	635	\$180.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (WiFi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00
INTERNAL WIFI/BT ANTENNA - 2.4GHZ, DASH MOUNT, 3M, BLACK	Internal WiFi/BT Antenna - 2.4GHz, Dash Mount, 3m, Black (Sierra Wireless SKU: 6001127)	DDN2794	635	\$28.00
STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)				
ACCESSORIES FOR MG90				
Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MOUNTING BRACKET FOR MG90	(Sierra Wireless SKU: 6001024)	DDN2766	635	\$75.00
MG90 I/O CABLE	(Sierra Wireless SKU: 6001095)	DDN2767	635	\$25.00
AC ADAPTOR, 12 VDC MG90	Applies to MG90 only (Sierra Wireless SKU: 6001023)	DDN2768	635	\$75.00
DC POWER CABLE PIGTAIL MG90 10FT	(Sierra Wireless SKU: 6001103)	DDN2798	635	\$25.00
ASSET TAG - WI-FI (T2)	(Sierra Wireless SKU: 6001034)	DDN2801	635	\$120.00
ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	(Sierra Wireless SKU: 6001035)	DDN2802	635	\$130.00
FIELD UPGRADE KITS FOR MG90, EM7511	Upgrade to MG90 to FirstNet (Sierra Wireless SKU: 6001175)	DDN2804	635	\$299.00
UPGRADE FOR MG90 TO FIRSTNET	-	DDN2980	635	\$399.00
MP70 11939 Y CABLE	-	DDN2984	635	\$275.00
OMG-MG CABLE-ANTENNA ADAPTOR	-	DDN2885	635	\$275.00
MAP TO USB (USB ETHERNET SATELLITE CABLE)	MAP TO USB (USB ETHERNET SATELLITE CABLE)	KT000259A01	681	\$650.00
OPTIONAL-SEPARATE LINE ITEM				
RENEWAL OF SUPPORT SERVICES				
Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL ELITE RENEWAL	Includes Sierra Wireless AirLink AMM Cloud Support. Includes 1 year service renewal up to 5 years from device purchase.	DDN2765	923	\$195.00
MP70 AIRLINK ROUTER				
STEP ONE (MUST SELECT ONE)				
MP70 ROUTERS SELECT ONE:				
Description	Full Description	Nomenclature	APC	Price
MP70 ROUTERS (DC)	Does not include WiFi (Sierra Wireless SKU: 1104071)	TT3458	635	\$799.00
MP70 ROUTERS (DC WIFI)	Includes WiFi (Sierra Wireless SKU: 1104073)	TT3457	635	\$899.00
STEP TWO (MUST SELECT ONE)				
SUPPORT SERVICES FOR MP70				
INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT				
Description	Full Description	Nomenclature	APC	Price
ADD: 3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$80.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00
ADD: 3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
ADD: 5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00
ADD: 5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010262	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/IRV	Sierra SKU: 9010177	TT06403AA	923	\$20.00
HOSTED AMM ACCESS -MP/IRV	Sierra SKU: 9010283	TT06404AA	923	\$90.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support if customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL, customer can renew ALMS annually for up to 5 years from device purchase. These packages only apply if they bought the renewal. Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
ADD: 1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00
STEP THREE (OPTIONAL)				
INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MP70				
Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires TT06387AA or TT06386AA. (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA,TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00
STEP FOUR (OPTIONAL)				
AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MP70				
Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. Requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00
STEP FIVE (OPTIONAL)				
AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MP70				
Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00
STEP SIX (OPTIONAL)				
AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR MP70				
Description	Full Description	Nomenclature	APC	Price
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT06338AA	635	\$50.00
ALMS VPN SETUP - ONE TIME CHARGE VPN TO ALMS SETUP	Order one per deployment (Sierra Wireless SKU: 9010123)	TT06341AA	635	\$2,500.00
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00

Updated Pricing for contract 4400016317 as of January 2022

STEP SEVEN (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MP70

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00
AM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA. (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$55.00
AM ENTERPRISE LICENSE - UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR MP70

Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M,	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, WHI	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, BLA	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 4M, BLACK	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADHESIVE MOUNT, 3M, BLACK	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, BLACK	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 SharkFin WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 3M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 1M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00
PANEL ANTENNA BRACKET (WALL/POLE/MAST)	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2788 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (WiFi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00
HIGH GAIN DIRECTIONAL ANTENNA - 2XLTE, WALL MOUNT, 5M, WHITE	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet. (Sierra performs work).	DDN2981	635	\$299.00

STEP NINE (OPTIONAL-SEPARATE LINE ITEM)

ACCESSORIES FOR MP70

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MP I/O CABLE	(Sierra Wireless SKU: 6001004)	DDN2773	635	\$25.00
MP70 OBD-II Y CABLE	(Sierra Wireless SKU: 6001204)	DDN2774	635	\$45.00
MP70 J1939 Y CABLE	(Sierra Wireless SKU: 6001192)	DDN2775	635	\$45.00
AC ADAPTOR, 12 VDC MP/IRV	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$20.00
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00
DC POWER CABLE MP/IRV	(Sierra Wireless SKU: 200522)	DDN2800	635	\$15.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet. (Sierra performs work).	DDN2981	635	\$299.00

OPTIONAL-SEPARATE LINE ITEM

RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00

RV55 AIRLINK ROUTER

STEP ONE (MUST SELECT ONE)

RV55 ROUTERS

RV55 will not be available until 4-30-2019

Description	Full Description	Nomenclature	APC	Price
RV55 ROUTER (DC)	Will not be available until April 30, 2019 Does not include WiFi (Sierra Wireless SKU: 1104303)	TT3465	635	\$689.00
RV55 ROUTERS (DC WIFI)	Will not be available until April 30, 2019 Includes Wi-Fi (Sierra Wireless SKU: 1104302)	TT3466	635	\$789.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR RV55

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

Description	Full Description	Nomenclature	APC	Price
ADD: 3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$80.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00
ADD: 3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
ADD: 5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00
ADD: 5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support if customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL, customer can renew ALMS annually for up to 5 years from device purchase. These packages only apply if they bought the renewal. Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
ADD: 1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010282	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
ADD: AIRLINK SUPPORT -MP/IRV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/IRV	Sierra SKU: 9010177	TT06403AA	923	\$20.00
HOSTED AMM ACCESS - MP/IRV	Sierra SKU: 9010283	TT06404AA	923	\$90.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON PREM LICENSE FOR RV55

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM CLIENT LICENSE - GENX (PER DEVICE)	QTY1: order one per deployment requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010270)	TT06358AA	635	\$45.00
AMM ENTERPRISE LICENSE - UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR RV55

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. requires TT06383AA. (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR RV55

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA. (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00



Updated Pricing for contract 4400016317 as of January 2022

ACM APPLIANCE HARDWARE (PER APPLIANCE)		*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00
STEP SIX (OPTIONAL)					
AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR RV55					
Description	Full Description	Nomenclature	APC	Price	
ALMS - 12-MONTH SERVICE PACK FOR AIRLINK DEVICES	Applies to only MP70 and RV55 (Sierra Wireless SKU: 9010177)	TT06379AA	635	\$20.00	
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT0638AAA	635	\$50.00	
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00	
STEP SEVEN (OPTIONAL)					
AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR RV55					
Description	Full Description	Nomenclature	APC	Price	
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$50.00	
AM ENTERPRISE LICENSE : UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00	
STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)					
ANTENNAS FOR RV55					
Description	Full Description	Nomenclature	APC	Price	
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 4M, BLACK	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00	
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00	
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADHESIVE MOUNT, 3M, BLACK	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00	
2IN1 PANEL ANTENNA - 2XLTE, BOLT MOUNT, 3M, BLACK	2in1 Panel Antenna - 2xLTE, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001124)	DDN2786	635	\$48.00	
2IN1 PANEL ANTENNA - 2XLTE, BOLT MOUNT, 1M, BLACK	2in1 Panel Antenna - 2xLTE, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001219)	DDN2771	635	\$48.00	
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 3M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00	
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 1M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00	
PANEL ANTENNA BRACKET (WALL/POLE/MAST)	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2788 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00	
HIGH GAIN DIRECTIONAL ANTENNA - 2XLTE, WALL MOUNT, 5M, WHITE	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00	
PADDLE WIFI ANTENNA - 2.45GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00	
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$14.00	
4IN1 SHARKFIN ANTENNA - 2XLTE, WIFI, GNSS, BOLT MOUNT, 4M, BLACK	-	DDN2986	635	\$265.00	
4IN1 BAT ANTENNA - 2XLTE, WIFI, GNSS, BOLT MOUNT, 4M, BLACK	-	DDN2987	635	\$115.00	
STEP NINE (OPTIONAL-SEPARATE LINE ITEM)					
ACCESSORIES FOR RV55					
Description	Full Description	Nomenclature	APC	Price	
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00	
DOME MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00	
DIN RAIL MOUNTING BRACKET FOR RV50X	(Sierra Wireless SKU: 6000659)	DDN2797	635	\$25.00	
AC ADAPTOR, 12 VDC MP/VR	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$20.00	
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00	
DC POWER CABLE MP/VR	(Sierra Wireless SKU: 2000522)	DDN2800	635	\$15.00	
RV55 DUAL SERIAL Y-CABLE	-	DDN2982	635	\$20.00	
OPTIONAL-SEPARATE LINE ITEM					
RENEWAL OF SUPPORT SERVICES					
Description	Full Description	Nomenclature	APC	Price	
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00	
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00	
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00	

Wireless LAN

Models

RFS7000

Description	Full Description	Nomenclature	APC	Price	
KIT: SWITCH: RFS7000 WITH 128 PORTS	-	RFS-7010-10010-WR	832	\$18,000.00	
KIT: SWITCH: RFS7000 WITH 256 PORTS	-	RFS-7010-10020-WR	832	\$25,000.00	
KIT: SWITCH: RFS7010 WITH NO PORTS	-	RFS-7010-100R0-WR	832	\$8,000.00	

Note: The RFMT-LIC-100-WW (SWITCH: RFS7000 SERIES 1U), RFS-7010-1000-WR (SWITCH: RFS7000 SERIES 1U), and RFS-7010-10030-WR (KIT: WIRELESS SWITCH RFS7000 W/ 64 PORTS) will be available soon.

WS-5100

Description	Full Description	Nomenclature	APC	Price	
KIT: WS5100 SWITCH; 30-PORT LICENSE	-	WS-5100-30-WWR	832	\$8,595.00	
KIT: WS5100 SWITCH; 18-PORT LICENSE	-	WS-5100-18-WWR	832	\$5,377.00	
KIT: WS5100 SWITCH; 48-PORT LICENSE	-	WS-5100-48-WWR	832	\$13,992.00	
KIT: WS5100 SWITCH; 6-PORT LICENSE	-	WS-5100-06-WWR	832	\$2,179.00	
KIT: WS5100 SWITCH; 36-PORT LICENSE	-	WS-5100-36-WWR	832	\$10,194.00	
KIT: WS5100 SWITCH; 42-PORT LICENSE	-	WS-5100-42-WWR	832	\$11,793.00	
KIT: WS5100 SWITCH; 24-PORT LICENSE	-	WS-5100-24-WWR	832	\$6,976.00	
KIT: WS5100 SWITCH; REDUNDANT LICENSE	-	WS-5100-RS-WWR	832	\$1,961.00	
KIT: WS5100 SWITCH; 12-PORT LICENSE	-	WS-5100-12-WWR	832	\$3,778.00	

WS-2000

Description	Full Description	Nomenclature	APC	Price	
WS2000 WITH 1 AP300(802.11a/b/g)	-	WS-2000-1C-ABG-WWR	832	\$1,349.00	
WS2000 WITH 2 AP300(802.11a/b/g)	-	WS-2000-2C-ABG-WWR	832	\$1,499.00	

AP-300

Description	Full Description	Nomenclature	APC	Price	
AP300: 802.11A/G, EXTERNAL ANTENNA	-	WSAP-5100-100-WWR	832	\$345.00	
AP300: 802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-100-WWR	832	\$345.00	
AP300: 802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-050-WWR	832	\$289.00	
AP300: 802.11G, EXTERNAL ANTENNA	-	WSAP-5100-050-WWR	832	\$289.00	

Wireless IPS Server & Management Software

Service

Description	Full Description	Nomenclature	APC	Price	
3YR CB-3000 Support-ADVEXG-Brz Pkg	-	SBX-CB3000-30	832	\$100.00	
1YR WS2000-ONSITE-Brz Pkg	-	OSB-WS2000-10	832	\$109.00	
1YR ACCESS PT 5131 SPPRT-ADVEXG-BRZ PKG	-	AXB-AP5131-10	832	\$72.00	
1YR WS2000-ADVEXG-Brz Pkg	-	AXB-WS2000-10	832	\$87.00	
1YR CB-3000 Support-ONSITE-Brz Pkg	-	OSB-CB3000-10	832	\$90.00	
1YR CB-3000 Support-ADVEXG-Brz Pkg	-	AXB-CB3000-10	832	\$43.00	
3YR CB-3000 Support-ONSITE-Brz Pkg	-	SOB-CB3000-30	832	\$194.00	
1YR ACCESS PT 5131 SPPRT-ONSITE-BRZ PKG	-	OSB-AP5131-10	832	\$90.00	

Accessory

Description	Full Description	Nomenclature	APC	Price	
ANT.2.4-5.2GHZ DUALBAND, DP.2DBI,SMARTP-F	-	ML-2452-APA2-01	832	\$25.00	
CORD:PWR,18AWG,10A,250V,USA	-	50-16000-221R	832	\$15.00	
ANT.5.5 GHz, DPA, 5dBi, CBL 36 RPSMA-F	-	ML-5299-HPA1-01R	832	\$165.00	
CABLE: JUMPER, RP-SMA(M) TO RP-BNC(I)	-	25-72178-01	832	\$10.00	
ANT.5.5 GHz, DP AJ.2dBi,CBL 0,SMARTP-F	-	ML-5299-APA1-01R	832	\$61.00	

ASTRO® XTL 1500 Digital Mobile™

FLASHport® Aftermarket Upgrades

Models

Description	Full Description	Nomenclature	APC	Price	
DIGITAL CONVENTIONAL PACKAGE	Analogue and Digital Conventional	T7190	430	\$0.00	
3600 ANALOG PACKAGE	Analogue conventional and analog trunking	T7191	430	\$0.00	
3600 ANALOG / DIGITAL TRUNKING PACKAGE	Analogue and digital conventional Analogue and digital 3600 trunking	T7192	430	\$0.00	
9600 DIGITAL TRUNKING PACKAGE	Digital 9600 trunking	T7193	430	\$0.00	

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price	
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Description	Full Description	Nomenclature	APC	Price
ENH: 9600 DIGITAL BAUD	-	G788	430	\$693.00
ENH: TRUNK 9600 FROM 3600 ANALOG / DIGITAL	-	G788AN	430	\$127.00
ENH: TRUNK 9600 FROM DIGITAL CONV	-	G788AP	430	\$633.00
ENH: TRUNK 9600 FROM 3600 ANALOG	-	G788AQ	430	\$506.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$380.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$380.00
ENH: TRUNK 3600 DIGITAL FROM DIGITAL CONVENTIONAL	-	G789AQ	430	\$633.00
ENH: TRUNK 3600 FROM 9600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	G789AR	430	\$127.00
ENH: DIGITAL CONVENTIONAL REFRESH	-	G790AJ	430	\$83.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: RADIO SOFTWARE REFRESH XTL 1500	-	G880AC	430	\$95.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO TRACE	Cannot be used on P25.	G170AJ	430	\$95.00
ENH: SOFTWARE ENHANCEMENT PACKAGE	-	G871AB	430	\$253.00
ENH: OVER THE AIR PROGRAMMING	Requires 9600 Astro Digital Enhance (G964). For T7191, if ordered or G996 and G788AQ (Trunk 9600) is ordered but G871 is not, then G791 must be decoded and W947 and G193 must be added.	G996AR	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHboot order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&O (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL1500	Switches a XTL 1500 radio model number from a rebanding model number M28URS9PW2_N to a standard model M28URS9PW1_N.	QA00276AA	430	\$506.00

Software Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SOFTWARE DSP BASED CRYPTO	-	G193	500	\$11.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$3.00
ENH: SW ENHANCEMENT PACKAGE ANALOG	-	G791	775	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: XTL1500 RADIO AUTHENTICATION	-	W391CU	430	\$127.00

Accessories
Microphones

Description	Full Description	Nomenclature	APC	Price
WATER RESISTANT MICROPHONE	NOTE for EMEA: This item is non-EPP Compliant	HMN1089	500	\$68.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
XTL5000 KEYPAD MICROPHONE	-	HMN4079D	706	\$320.00
MODEL III KEYPAD TELEPH HANDSET KIT	-	HMN4097A	706	\$295.00
XTL MOBILE DESKTOP MIC	-	RMN5083A	706	\$169.00
SOFTWARE, CPS R20.01.00 ASTRO XTL MOBILE	-	RVN4185AW	371	\$265.00

**ASTRO® XTL 2500 Digital Mobile™
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7244	430	\$0.00
DIGITAL CONVENTIONAL PACKAGE	-	T7245	430	\$0.00
Analog Smartzone	-	T7246	430	\$0.00
DIGITAL SMARTZONE	-	T7247	430	\$0.00

Options
Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Consolelet.	G808	332	\$737.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G344	332	\$108.00
ENH: UPGRADE TO SMARTZONE	Upgrade from Conventional software to SmartZone Trunking software.	G347AN	430	\$1,012.00
ENH: RADIO SOFTWARE REFRESH FOR XTL 2500	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AG	430	\$95.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$108.00
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$108.00
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$286.00
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Omnilink)	G361AG	430	\$429.00
ENH: MLTOST VOTING SCAN	-	G387AA	430	\$286.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$108.00
ENH: OVER THE AIR PROGRAMMING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AK	430	\$127.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$286.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL2500	Switches a XTL 2500 radio model number from a rebanding model number M21URM9PW2_N to a standard model M21URM9PW1_N.	QA00277AA	430	\$506.00
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$108.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$108.00
ENH: TACTICAL REKEY WITH MULTIKEY	Must order IV&D(Q847). Tactical OTAR is not compatible with DVRs QA00631.	H04AR	430	\$633.00
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$472.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00
ADD: XTL2500 RADIO AUTHENTICATION	-	W391CT	430	\$127.00

**ASTRO® XTL 5000 Digital Mobile™
ASTRO® XTL 5000 Consolelet
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T6995	430	\$0.00
DIGITAL SMARTNET	-	T6998	430	\$0.00
DIGITAL CONVENTIONAL PACKAGE	-	T6996	430	\$0.00
ANALOG SMARTZONE	-	T6999	430	\$0.00



Updated Pricing for contract 4400016317 as of January 2022

ANALOG SMARTNET PACKAGE		-	T6997	430	\$0.00
DIGITAL SMARTZONE		-	T7000	430	\$0.00
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Console	G808	332	\$737.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: UPGRADE TO DIGITAL CONVENTIONAL	ONLY Compatible with T6930	G344	332	\$108.00	
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6769	G347	430	\$83.00	
ENH: SMARTNET UPGRADE	ONLY Compatible with T6767, T6766	G346	430	\$108.00	
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G344	332	\$108.00	
ENH: UPGRADE TO SMARTNET MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G346	430	\$715.00	
ENH: UPGRADE TO SMARTNET	Compatible with ASTRO Spectra models: H1620, H1621 and ASTRO Spectra PLUS models: T6766 and T6767	G346	430	\$108.00	
ENH: UPGRADE TO DIGITAL SMARTNET	ONLY Compatible with T6930	G346	430	\$715.00	
ENH: UPGRADE TO SMARTZONE	Compatible with ASTRO Spectra models H1618 & H1619, ASTRO Spectra PLUS models T6929 & T6930, XTL T6996 and T6995	G347	430	\$1,144.00	
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6930	G347	430	\$880.00	
ENH: SMARTZONE UPGRADE	Compatible with ASTRO Spectra models: H1620 & H1621	G347	430	\$440.00	
ENH: SMARTZONE UPGRADE	Compatible with T6766 & T6767, T6997, T6998	G347	430	\$440.00	
ENH: SMARTZONE UPGRADE	Software Refresh. Compatible with ASTRO Spectra models - H1622, H1623; XTL 5000 models - T6999, T7000; XTL 2500 models - T7246, T7247 and ASTRO Spectra PLUS models - T6768, T6769.	G347	430	\$108.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$127.00	
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$286.00	
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLIP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AL	430	\$143.00	
ENH: RADIO SWFT REFRESH-XTL 5000	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AB	430	\$108.00	
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Omnilink)	G361AG	430	\$429.00	
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$108.00	
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$108.00	
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$286.00	
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$108.00	
ENH: MLTCTST VOTNG SCAN	-	G387AA	430	\$286.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ADD: XTL5000 RADIO AUTHENTICAT	Requires G361	W391CS	430	\$143.00	
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$108.00	
Algorithm Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multkey Operation	G298AQ	430	\$1,058.00	
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$472.00	
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$108.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00	
ADD: CHANNEL SCAN WITH VRS	-	W357BB	430	\$28.00	
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$0.00	
Accessories					
FLASHport					
Description	Full Description	Nomenclature	APC	Price	
FLASHPORT KIT, XTL 5000 RADIO	-	DVN4026	430	\$0.00	
Replacement Kits					
Description	Full Description	Nomenclature	APC	Price	
ADVD SYSTEM KEY READER REPLACMENT	USB ADAPTOR	DVN4050	362	\$400.00	
ADVD SYSTEM KEY I/BUTTON REPLACEMENT	-	DVN4049	362	\$200.00	
I/BUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers. Please view compatible radios above.	DVN4181	362	\$200.00	

**ASTRO® Digital XTL 5000 Mobile
FLASHport®
Universal Crypto Module (UCM) Upgrades**

Model					
Description	Full Description	Nomenclature	APC	Price	
PCMCIA UNIVERSAL CRYPTO (UCM) UPGRADE CARD	-	T6740	526	\$125.00	
Options					
Algorithm Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: DES, DES-XL, DES-OFB ENCRYPTION	-	CA00840AF	500	\$599.00	
ADD: DVP-XL ENCRYPTION	-	CA00146AH	500	\$536.00	
ADD: AES ENCRYPTION	-	CA00182AJ	500	\$550.00	
ADD: ADP PRIVACY	-	CA00243AC	500	\$75.00	
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	500	\$86.25	

**ASTRO® Digital XTS 1500 Portable Series
700 / 800 MHz Band**

Accessories					
Adapter					
Description	Full Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00	
PSM RF ADPT	-	RLN5918	372	\$36.00	
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NNTN859C	453	\$112.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NNTN857C	453	\$152.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO/TRBO & APX adapter included)	NNTN7392	785	\$250.00	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	



Updated Pricing for contract 4400016317 as of January 2022

Bluetooth, Mission Critical Wireless
Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
Charger				
Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES 2, USNA	-	PMPN4175A	785	\$182.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

ASTRO® Digital XTS 1500 Portable Series
UHF Range 1 and UHF Range 2

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
PSM RF ADPT	-	RLN5918	372	\$36.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50
UHF HELICAL ANTENNA, 403-435 MHZ	-	NAE6546 R	796	\$16.00

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NiMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NiMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NiMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM)	NMN6245	785	\$149.00

ASTRO® Digital XTS 1500 Portable Series
VHF

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
IMPRES NiMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRES NiMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NiMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
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HEADSET LIGHTWEIGHT		Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
ASTRO® Digital XTS 2500 Portable Series 700/800MHz Band					
Accessories					
Adapter					
Description	Full Description	Nomenclature	APC	Price	
PSM RF ADPT	-	RLN5918	372	\$36.00	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00	
Algorithm Kits					
Description	Full Description	Nomenclature	APC	Price	
SECURE BRD M1.5 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	456	\$811.00	
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00	
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	456	\$690.00	
SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	456	\$690.00	
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	456	\$811.00	
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00	
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	456	\$811.00	
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	456	\$811.00	
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	456	\$871.00	
Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, DIPOLE 806-870MHZ	-	NAF5039	555	\$35.75	
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$35.75	
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00	
BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50	
Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$243.00	
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NIMH.	NNTN4115	271	\$60.00	
Charger					
Description	Full Description	Nomenclature	APC	Price	
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00	
Charger Line Cords					
Commport Integrated Microphone/Receiver					
Description	Full Description	Nomenclature	APC	Price	
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00	
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00	
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00	
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90	
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00	
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25	
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PSM STRAIGHT CABLE 24IN	-	RMNS073B	372	\$160.00	
Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25	

Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00

Description	Full Description	Nomenclature	APC	Price
BATT CLAMSHELL, XTS2500	-	NNTN6686B	453	\$90.00

**XTS 2500 Portable Series
900 MHz Band**
Accessories

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
KEYLOAD ADAPTER	The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6038 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	-	NAF5038	476	\$35.75
ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	-	NAF5042	476	\$25.50

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY STD IP54 LION 2700M/2900T	-	PMNN4454AR	453	\$94.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO, TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50
2" SPRING BELT CLIP	For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	271	\$11.50

Belt Loops

Description	Full Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTNS243A	271	\$23.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger
CPS Software

Description	Full Description	Nomenclature	APC	Price
COMMPORT INTEGRATED MICROPHONE/RECEIVER	-	-	-	-
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsicly Safe (FM)	BDN6719	742	\$36.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75

Headsets

Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM)	MNM6245	785	\$149.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Microphones

Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
REMOTE SPEAKER MIC, NC	-	PMNM4045B	372	\$107.00
REMOTE SPEAKER MIC, RX-JACK	-	PMNM4051B	372	\$89.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMNM4038A	372	\$97.25
GPS R2 SMART/NON-SUBM RSM	-	HMN4107A	372	\$350.00

Description	Full Description	Nomenclature	APC	Price
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PSM STRAIGHT CABLE 24IN		-	RMN5073B	372	\$160.00
Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6731	742	\$118.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6732	742	\$150.00	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$43.25	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00	

ASTRO® Digital XTS 2500 Portable Series
UHF Range 1 and UHF Range 2
Accessories
Algorithm Kits

Description	Full Description	Nomenclature	APC	Price
SECURE BRD M1.5 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4925A	456	\$811.00
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4930A	456	\$811.00
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4932A	456	\$690.00
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4931A	456	\$811.00
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4927A	456	\$811.00
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4924A	456	\$871.00
SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07,00.00, version or later.	PMLN4926A	456	\$690.00

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50
ANTENNA, 380-435MHZ UHF HELICAL	-	NAE6546	555	\$16.50

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN2623	453	\$158.00
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50

Bluetooth, Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4105	261	\$243.00
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4106	261	\$251.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN1736	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

CommPort Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Updated Pricing for contract 4400016317 as of January 2022

Earpieces					
Description	Full Description	Nomenclature	APC	Price	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AAURLN4885	742	\$25.75	
Hardware					
Description	Full Description	Nomenclature	APC	Price	
FPP CONNECTOR PROGRAMMING KEY	This connector key (dongle) is required while utilizing FPP.	PMTN4113	261	\$150.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00	
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	MNM6245	785	\$149.00	
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25	
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00	
Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$41.25	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00	
Customer Programming Software					
Manual(s)	Description	Full Description	Nomenclature	APC	Price
	MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9885899D01	362	\$11.00
	MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9885900D01	362	\$33.50
	USER GUIDES CD XTS2500		9885898D01	362	\$11.00
	MANUAL USER GUIDE XTS2500 MODEL I	Operations/User's manual PAPER.	6881094C04	205	\$11.25

ASTRO® Digital XTS 2500 Portable Series VHF

Accessories					
Adapter					
Description	Full Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00	
Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50	
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50	
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00	
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50	
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00	
BATTERY STD IP54 LION 2700M2900T	-	PMMN4454AR	453	\$94.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2 1/4"	-	HLN6853	271	\$11.50	
Bluetooth, Mission Critical Wireless					



Updated Pricing for contract 4400016317 as of January 2022

Cable(s)	Description	Full Description	Nomenclature	APC	Price
	CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. *PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$243.00
	CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. *PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$251.00
Carrying Case(s)	Description	Full Description	Nomenclature	APC	Price
	LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00
	LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
Charger	Description	Full Description	Nomenclature	APC	Price
	SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$21.00
Charger Line Cords	Description	Full Description	Nomenclature	APC	Price
	COMMPort Integrated Microphone/Receiver				
	COMMPort WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
	COMMPort WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
	COMMPort WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces	Description	Full Description	Nomenclature	APC	Price
	RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
	EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
	EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
	BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN4564	742	\$395.00
	EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
	QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
	RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AAARLN4885	742	\$25.75
	EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	*HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM))	BDN6781	742	\$27.00
Headsets	Description	Full Description	Nomenclature	APC	Price
	TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
	HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
	RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
	MED DUTY HEADSET BEHIND-THE-HEAD, WIN-LINE PTT-NRR= 24DB-INTRIN (FM)	Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
	MED WEIGHT HEADSET, OVER-THE-HEAD, WIN-LINE PTT-NRR=24DB-INTRIN (FM)	Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00
Microphones	Description	Full Description	Nomenclature	APC	Price
	GPS R2 SMART/ NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
	GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
	REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
	RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$120.00
	SPKR MIC NON-SUBMSBL GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00
Multi Unit Chargers	Description	Full Description	Nomenclature	APC	Price
	IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
Public Safety Microphone(s)	Description	Full Description	Nomenclature	APC	Price
	PSM STRAIGHT CABLE 24IN	-	RMNS073B	372	\$160.00
Surveillance	Description	Full Description	Nomenclature	APC	Price
	EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25

**ASTRO® Digital XTS 4000
FLASHport® Aftermarket Upgrades
VHF, UHF Bands**

Models	Description	Full Description	Nomenclature	APC	Price
	ENH: 3600 9600 ASTRO TRUNKING SW	-	T7454A	430	\$0.00
	ENH: P25 CONVENTIONAL OPERATION SW	-	T7455A	430	\$0.00
Options	Description	Full Description	Nomenclature	APC	Price
	ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
	ENH: INTER SYSTEM ROAMING	-	O369AB	430	\$143.00
UNDEFINED	Description	Full Description	Nomenclature	APC	Price
	ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AM	430	\$50.00
	ENH: 9600 3600 ASTRO TRUNKING SW	-	H45AK	430	\$875.00
	ENH: RADIO SOFTWARE REFRESH XTS4000	-	Q880AK	430	\$75.00
	ADD: ASTRO Z5 INTEGRATED VOICE & DATA	-	Q947AZ	430	\$200.00

**ASTRO® Digital XTS 4000 Portable Series
UHF Range 1**

Accessories	Description	Full Description	Nomenclature	APC	Price
Battery					
Charger					
	XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00
	XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00
	XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00
Miscellaneous	Description	Full Description	Nomenclature	APC	Price
	RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$251.00

**ASTRO® Digital XTS 4000 Portable Series
VHF**



Updated Pricing for contract 4400016317 as of January 2022

Accessories

Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA 145 - 166 MHZ	-	NAD6581A	555	\$29.00	
ANTENNA 136 - 151 MHZ	-	NAD6582A	555	\$32.00	
ANTENNA 162.0 - 174.0 MHZ	-	NAD6583A	555	\$29.00	
Battery					
Charger					
Description	Full Description	Nomenclature	APC	Price	
XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00	
XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00	
XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00	
Miscellaneous					
Description	Full Description	Nomenclature	APC	Price	
USB PROGRAMMING CABLE	-	NKN1029A	261	\$380.00	
RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$251.00	

**ASTRO® Digital XTS 5000 Portable Series
700/800 MHz Band**

Accessories

Adapter					
Description	Full Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00	
Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA	-	8505241U11	555	\$35.00	
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$35.75	
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00	
BATTERY IMPRES NIMH, 1700 MAH, INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00	
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	LI-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00	
BAT HOLDER CLAMSHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$80.00	
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$125.00	
BATTERY 3000 MAH FM NIMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO, TRBO & APX adapter included)	NNTN7392	785	\$250.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00	
Bluetooth, Mission Critical Wireless					
Description	Full Description	Nomenclature	APC	Price	
MISSION CRITICAL WIRELESS ADAPTER	Mission Critical Wireless Adapter is not intrinsically safe nor approved for use in Hazardous Locations	PMLN5792A	742	\$99.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00	
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8390C	271	\$60.00	
ACCESSORY KIT FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00	
ACCESSORY KIT FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50	
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00	
ACCESSORY KIT ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00	
LEATHER CASE WITH BELT LOOP, FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
Charger					
Description	Full Description	Nomenclature	APC	Price	
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$182.00	
Commport Integrated Microphone/Receiver					
Description	Full Description	Nomenclature	APC	Price	
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00	
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00	
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$395.00	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90	
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00	
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$36.00	
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00	
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00	
THROAT MICROPHONE	-	RLN6478A	742	\$270.00	
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00	
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00	
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$182.00	
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	

Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$43.25

ASTRO® Digital XTS 5000™ Portable Series
UHF RANGE 1 / TYPE 1 Encryption
Accessories

Description	Full Description	Nomenclature	APC	Price
BATTERY IMPRES NIMH, 1700 MAH, INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$125.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsicly Safe, Ruggedized	NNTN7453A	453	\$210.00
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00
ACCESSORY KIT ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00
ACCESSORY KIT FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
LEATHER CASE WITH BELT LOOP, FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
ACCESSORY KIT, FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$60.00
Charger				
Charger				
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsicly Safe (FM)	BDN6719	742	\$36.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
Headsets				
Description	Full Description	Nomenclature	APC	Price



Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$97.25
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
Multi Unit Chargers				
Public Safety Microphone(s)				
Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$43.25

ASTRO® Digital XTS 5000 Portable Series
VHF / TYPE 1 Encryption

Accessories

Adapter				
Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$57.00
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$16.50
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$16.50
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$24.00
Battery				
Description	Full Description	Nomenclature	APC	Price
BATTERY IMPRES LHON 3950MAH FM RUGGED	LHON 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
BATTERY IMPRES NIMH, 1700 MAH, INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$125.00
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$135.00
BAT HOLDER CLAMHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$80.00
BATTERY 3000 MAH FM NIMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER CASE WITH BELT LOOP, FOR CLAMHELL BATTERY	-	NTN9184	476	\$67.00
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$12.00

Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$60.00
ACCESSORY KIT ANTI-SWAY STRAP	-	RLN6488A	271	\$15.00
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	476	\$51.00
ACCESSORY KIT FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$37.00
ACCESSORY KIT FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$28.50
Charger				
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$419.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$32.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$7.90
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsicly Safe (FM)	BDN6719	742	\$36.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM).	BDN6780	742	\$67.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$71.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$25.75
Headsets				
Description	Full Description	Nomenclature	APC	Price
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsicly Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsicly Safe (FM)	NMN6245	785	\$149.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$89.00
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$107.00
Public Safety Microphone(s)				
Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549	NMN6247	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549	NMN6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$114.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$118.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$41.25
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$118.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$43.25

 ASTRO® Digital XTS 1500
 FLASHport® Aftermarket Upgrades

Configuration

Description	Full Description	Nomenclature	APC	Price
DIGITAL 9600 TRUNKING PACKING XTS 1500	-	T7016	430	\$0.00

Updated Pricing for contract 4400016317 as of January 2022

ANALOG & DIGITAL 3600 TRUNKING XTS 1500		-	T7017	430	\$0.00
DIGITAL P25 CONVENTIONAL XTS 1500		-	T7018	430	\$0.00
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: 9600 TRUNKING FLASHPORT REFRESH	Refresh of 9600 baud software package	Q574AF	430	\$83.00	
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7017. Upgrade from 3600 analog or digital baud control channel to 9600 baud control channel	Q574AG	430	\$127.00	
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to P25 Digital Trunking.	Q574AH	430	\$488.00	
ENH: TRUNKING 3600 FLASHPORT REFRESH	Refresh of 3600 Analog or Digital Package. Compatible with T7016, downgrade from 9600 Digital Package to 3600 Analog or Digital Package.	Q575AH	430	\$83.00	
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to 3600 Analog or Digital Trunking Package.	Q575AK	430	\$362.00	
ENH: 9600 TRUNKING TO 3600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	Q575BM	430	\$127.00	
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	Refresh of P25 Conventional Software Package	Q811AD	430	\$83.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: OVER THE AIR PROVISIONING	POP25 is for ASTRO 25 Trunking only operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AG	430	\$127.00	
ADD: ASTRO 25 INTEGRATED VOICE & DATA	SHOULD order a cable for data connectivity	Q947AY	430	\$253.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: INTER SYSTEM ROAMING	-	Q369AB	430	\$143.00	
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00	
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00	
Software Refresh					
Description	Full Description	Nomenclature	APC	Price	
ENH: RADIO SOFTWARE REFRESH XTS1500	-	Q880AD	430	\$95.00	
System Enhancement					
Description	Full Description	Nomenclature	APC	Price	
ADD: AUDIBLE CHANNEL SELECTION	-	Q446AE	430	\$127.00	
ENH: ADP PRIVACY	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AF	430	\$95.00	
Service Options					
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ADD: LINK LAYER RADIO AUTHENTICATION	-	I1345AK	430	\$127.00	
XTS1500 IMBE CD ROM	-	Q164BK	430	\$0.00	
ENH: REBAND UPGRADE TO XTS1500	-	QA00281AA	430	\$506.00	
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00	
Accessories					
Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$112.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
Battery Maintenance Systems					
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$60.00	
Charger					
Description	Full Description	Nomenclature	APC	Price	
IMPRES CHARGER	-	WPLN4111AR	785	\$182.00	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
Replacement Kits					
Description	Full Description	Nomenclature	APC	Price	
ADVD SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00	
ADVD SYSTEM KEY/BUTTON REPLACEMENT	-	DVN4049	362	\$200.00	
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers. Please view compatible radios above.	DVN4181	362	\$200.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
CPS R14.00.00 ASTRO 25 PORTABLE	-	RVN4181AH	371	\$265.00	
FIRMWARE RADIO 3600 TRUNKING XTS 1500	-	DVN4040	430	\$1.45	
2-WIRE EARBUD, 116CM CORD BLACK	-	NNTN8298A	742	\$50.00	
BMS ADAPTER FOR XTS2500 BATTERY	-	PMLN5423A	785	\$165.00	
RADIO FIRMWARE XTS 1500	-	DVN4027	430	\$1.45	
RADIO FIRMWARE P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4029	430	\$1.45	
FLASHPORT KIT 9600 D TRUNKING XTS 1500	-	DVN4030	430	\$1.45	
FLASHPORT KIT 3600 A/D TRUNKING XTS 1500	-	DVN4031	430	\$1.45	
FLASHPORT KIT 3600 ANALOG SMARTZONE XTS 1500	-	DVN4032	430	\$1.45	
FLASHPORT KIT P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4033	430	\$1.45	

**ASTRO® Digital XTS 2500
FLASHport® Aftermarket Upgrades**

Models					
Description	Full Description	Nomenclature	APC	Price	
DIGITAL 9600 BAUD TRUNKING PACKAGE	Model 1.5, II and III	T6810	430	\$0.00	
DIGITAL AND ANALOG LIMITED 3600 BAUD TRUNKING PACKAGE	Model 1.5, II, III	T6811	430	\$0.00	
ANALOG 3600 TRUNKING XTS 2500	Model 1.5, II, III	T6992	430	\$0.00	
PROJECT 25 CONVENTIONAL XTS 2500	Model 1.5, II, III	T6993	430	\$0.00	
ANALOG & DIGITAL LIMITED 3600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7025	430	\$0.00	
DIGITAL 9600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7026	430	\$0.00	
ANALOG 3600 TRUNKING XTS2500 MODEL I	-	T7031	430	\$0.00	
P25 CONVENTIONAL XTS 2500 MODEL I	-	T7032	430	\$0.00	
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: SOFTWARE ANALOG 3600 BAUD	Compatible with T6992 and T7031. Refresh of 3600 Analog Baud Trunking Package.	Q443AC	430	\$83.00	
ENH: SOFTWARE ANALOG 3600 BAUD	Compatible with T6993. Upgrade from P25 Conventional to 3600 Analog Software Package.	Q443AD	430	\$253.00	
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6811 and T7025. Upgrade from 3600 Analog/Digital baud to 9600 Digital baud	Q574AC	430	\$380.00	
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade from 3600 Analog Trunking to 9600 Digital	Q574AE	430	\$651.00	
ENH: TRUNKING 9600 BAUD FLSPHPT	COMPATIBLE with T6993 and T7032. Software Package INCLUDES: 9600 Baud, Wide Area SmartZone, OmniLink, and ASTRO Digital CAI.	Q574AM	430	\$778.00	
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT	-	Q575AB	430	\$380.00	
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT REFRESH	-	Q575AC	430	\$83.00	
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade 3600 Analog to 3600 Analog/Digital Trunking.	Q575AE	430	\$525.00	
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6993 and T7032. Upgrade from P25 Conventional to 3600 Analog/Digital Trunking.	Q575AF	430	\$778.00	
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	-	Q811AB	430	\$83.00	
ENH: 3600/9600 INTEROPERABILITY FLASHPORT	COMPATIBLE with Q574 9600 Trunking only.	Q883AC	430	\$633.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	

Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$127.00
ENH: ENH: TRUNKED REMOTE MONITOR	-	H43AW	430	\$110.00
ADD: FIREGROUND ACCOUNTABILITY SW	Digital/Conventional Only This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AD	430	\$317.00
ENH: PACKET DATA UPG FOR XTS PT	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AN	430	\$253.00
Software Refresh				
ENH: RADIO SOFTWARE REF XTS2500	The Q860 CAN NOT be ordered with anything else. Its a refresh option only.	Q880AC	430	\$95.00
Algorithm Options				
ENH: TACTICAL OTAR	Tactical OTAR is not compatible with DVRs QA00631.	H04AS	430	\$633.00
ADD: MULTIKEY	-	H869BT	430	\$418.00
Programming				
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$215.00
Software Encryption				
ENH: ADP SOFTWARE DSP BASED CRYPTO	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AC	430	\$95.00
UNDEFINED				
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AL	430	\$127.00
ENH: REBAND UPGRADE XTS2500	-	QA00275AA	430	\$506.00

**ASTRO® Digital XTS 5000
FLASHport® Aftermarket Upgrades**
Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T6746	430	\$0.00
DIGITAL CONVENTIONAL	-	T6747	430	\$0.00
ANALOG SMARTNET	-	T6748	430	\$0.00
DIGITAL SMARTNET	-	T6749	430	\$0.00
ANALOG SMARTZONE	-	T6750	430	\$0.00
DIGITAL SMARTZONE	-	T6751	430	\$0.00

Options
Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO DIGITAL CAI OPTION	-	Q808AG	430	\$737.00
ENH: PACKET DATA FOR XTS5000	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AP	430	\$286.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO STW-STUNKILL	A keypad is required on the radio to reverse the Stun command in the field. If using a radio with a limited or no keypad, the radio will need to be hooked into a computer with CPS to reverse the Stun/Kill setting. This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625) to operate. Tactical Stun Kill is not compatible with DVRs QA00631.	H02	721	\$108.00
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AN	430	\$143.00
ENH: UPGRADE TO DIGITAL VSELP	Compatible with T5776, T5778 and T5780. ASTRO Digital VSELP Operation	Q243	332	\$700.00
ENH: UPGRADE EXISTING CONVENTIONAL	-	Q324AK	430	\$83.00
ENH: UPGRADE EXISTING SMARTNET	-	Q326AT	430	\$75.00
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	-	Q327BE	430	\$1,144.00
ENH: UPGRADE SMARTNET TO SMARTZONE	-	Q327BF	430	\$572.00
ENH: UPGRADE EXISTING SMARTZONE	-	Q327BG	430	\$83.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AS	430	\$286.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AN	430	\$143.00
ADD: DIGITAL ID DISPLAY	-	H14AM	430	\$108.00
ADD: TRUNKED RADIO TRACE AND REMOTE MONITOR	Cannot be used on P25.	H43BA	430	\$143.00
ADD: ONE TOUCH BUTTON	You can now do Private Call on 1.5 models and APX3000	H46AT	443	\$98.00
ADD: ENHANCED SMARTZONE OMNILINK	Includes SmartZone Omnilink (Q173)	Q173AV	430	\$286.00
ENH: PROJECT 25 9600 BAUD TRUNKING	-	Q361AM	430	\$429.00
ADD: FIREGROUND ACCOUNTABILITY SOFTWARE UPGRADE	Used for already fielded XTS5000s (FLASHport version). Please see ASTRO Digital XTS 5000 FLASHport Upgrade price page for upgrade models (link above). Please choose upgrade model with Digital Mode Configuration and ORDER this option.	Q445AB	430	\$358.00
ADD: ADP Flashport Upgrade	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AD	430	\$108.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO SOFTWARE REFRESH XTS5000	-	Q880AA	430	\$108.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	-	H869BN	430	\$472.00
ENH: MDC & ASTRO P25 OTAR WITH MULTIKEY	-	Q498AQ	430	\$1,058.00

Programming

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$215.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENH: SOFT ID FLASHPORT	-	Q352AK	430	\$0.00
ENH: ENH: OTACR CHL REASSIGNMENT UV	-	Q353AL	430	\$0.00

Accessories
Algorithm Kits

Description	Full Description	Nomenclature	APC	Price
ENCRYPTION KIT DVP XL	Includes both UCM Hardware Module & Software Encryption Algorithm	NTN9839	456	\$637.00

Battery

Description	Full Description	Nomenclature	APC	Price
BATTERY NICD, 1525 MAH	-	NTN8294BR	453	\$95.00

Battery Maintenance Systems
Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$13.00

Bluetooth, Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$325.00

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Headsets

Description	Full Description	Nomenclature	APC	Price
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	742	\$225.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Replacement Kits



MOTOROLA SOLUTIONS

Updated Pricing for contract 4400016317 as of January 2022

Description	Full Description	Nomenclature	APC	Price
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00
ADV'D SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
INTERFACE MODULE FOR BONEMIC	-	JMMN4064B	742	\$347.00
CLONING CABLE	-	RKN4108	261	\$370.00
XTVA CONSULE OPEN-FACE BNC	-	NTN1606F	272	\$1,208.00
TYPE 1 FLASHPORT	-	DVN4043	430	\$200.00

Zetron Model 30 Worldpatch

Description	Full Description	Nomenclature	APC	Price
ZETRON MODEL 30 WITH SELCALL (901-9540)	-	L3284	207	\$1,722.00
Options				
Cable(s)				
Description	Full Description	Nomenclature	APC	Price
ADD: QUANTAR/MTR2000 INTERFACE CABLE AND POWER SUPPLY	-	TT04097AA	207	\$727.00
ADD: ASTRO DIU3000 INTERFACE CABLE WITH NOTCH FILTER AND POWER SUPPLY	-	TT04096AA	207	\$799.00
Mounting Kits				
Description	Full Description	Nomenclature	APC	Price
ADD: 19 INCH RACK MOUNTING BRACKETS	-	TT04061AA	207	\$112.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
ADD: DEADBOLT LIGHTNING SURGE ARRESTOR	-	TT04066AA	207	\$438.00



Parent Contract Number: 6100039075
SAP/SRM Contract Number: 4400016317
Change Number: 8
Change Effective Date : 7/21/2022

Using Agency: All Using Agencies

Contract Title: Two-Way Radio Equipment & Services

Contract Period: Beginning January 1, 2017 and Ending December 31, 2022

Commodity Specialist: Raeden Hosler **Telephone:** 717-787-4103 **Email:** rhosler@pa.gov

CHANGE SUMMARY:

The price list has been updated for Motorola Solutions, Inc.

Please contact the Motorola Solutions, Inc. Account Manager, Mike Ciampagli, with any questions regarding products and pricing.

Mike Ciampaglia 410-303-9383 mike.ciampaglia@motorolasolutions.com

ALL OTHER TERMS AND CONDITIONS OF THIS AGREEMENT NOT CHANGED BY THIS CHANGE NOTICE REMAIN AS ORIGINALLY WRITTEN.

2-WAY RADIO ACCESSORIES
APX 3000 & APX 4000 Product Series Radios
2-Way Radio Accessories

Adapters		Description	Full Description	Nomenclature	APC	Price
Antennas - APX 3000		ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$70.25
Antennas - APX 4000		700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$48.50
Antennas - APX 4000		ANT,HLCL,136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136-174 MHz	NAR6593A	555	\$41.00
Antennas - APX 4000		UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380-520MHz	PMAE4065A	555	\$22.75
Antennas - APX 4000		UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$64.75
Antennas - APX 4000		700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$48.50
Antennas - APX 4000		ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$31.25
Antennas - APX 4000		UHF2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$64.75
Batteries		BATT IMP STD LI ION 1250M 1300T	ONLY compatible with APX 3000 series radios	NNTN8305AR	453	\$121.00
Battery Chargers		ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
Battery Chargers		WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75
Battery Chargers		INSERT, UNIVERSAL MUC	Only compatible with XTS Multi Unit Chargers	NNTN8170A	785	\$224.00
Battery Chargers		CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	PMPN4174A is a CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$82.00
Battery Chargers		INSERT, UNIVERSAL SUC	Only compatible with XTS Single Unit Chargers	NNTN8169A	453	\$45.00
Battery Chargers		US IMPRES SUC W/O LINEAR POWER SUPP	This is the charger base only. AC power supply must be purchased separately.	WPLN4243A	785	\$54.00
Battery Chargers		CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA	Simultaneously charges up to 6 batteries or devices with IMPRES(TM) extended service life algorithms. Includes one display to view battery information.	PMPN4284A	785	\$707.00
Battery Fleet Management		IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
Battery Fleet Management		FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Battery Fleet Management		CHARGR INTRFC UNTE GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
Bluetooth Mission Critical Wireless		ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$350.00
Bluetooth Mission Critical Wireless		ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$194.00
Bluetooth Mission Critical Wireless		WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$150.00
Bluetooth Mission Critical Wireless		Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y-adapter and retention hook	NNTN8385A	742	\$108.00
Bluetooth Mission Critical Wireless		COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip: (NNTN8457A)	NNTN8434A	742	\$556.00
Bluetooth Mission Critical Wireless Replacement Parts		EARTIPS, REPLACEMENT	Replacement eartips for NNTN8294A, NNTN8295A or NNTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.40
Bluetooth Mission Critical Wireless Replacement Parts		NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	187	\$32.50
Bluetooth Mission Critical Wireless Replacement Parts		PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
Bluetooth Mission Critical Wireless Replacement Parts		EARPIECE W/1/2" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$168.00
Bluetooth Mission Critical Wireless Replacement Parts		COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
Bluetooth Mission Critical Wireless Replacement Parts		WIRELESS POD ADAPTER FOR 3.5MM HEADPHONE WITH SPEAKER AND MIC PK OF 10 DISCREET EARPIECE KIT	Pack of 10 adapters	NNTN8737A	742	\$433.00
Bluetooth Mission Critical Wireless Replacement Parts		EARTIPS, BULK REPLACEMENT	Phonak Phonito Intra Ear Receiver	RLN4921	372	\$275.00
Bluetooth Mission Critical Wireless Replacement Parts		EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$31.75
Belt Clips		BELT CLIP 2"	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$13.00
Belt Clips		2.5-INCH BELT CLIP	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$14.00
Carrying Solutions - APX 3000		APX3000 COVERT CARRY HOLSTER	-	PMLN6327A	271	\$32.50
Carrying Solutions - APX 4000		APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	ONLY compatible with the APX 4000 one-knob configuration	PMLN6085A	271	\$64.75
Carrying Solutions - APX 4000		2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$16.75
Carrying Solutions - APX 4000		APX2000/4000 TWO-KNOB,SWIVEL,LEATHER CARRY CASE	ONLY compatible with the APX 4000 two-knob configuration	PMLN7182A	271	\$71.25
CommPort		COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
CommPort Replacement Items		BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$431.00
Headsets		CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$100.00
Headsets		IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk. FM Certified and UL Approved	PMLN5101A	742	\$271.00
Headsets		XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
Hearing Protection		AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
Hearing Protection		HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
Hearing Protection		HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-the-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00
Hearing Protection		AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
Hearing Protection		RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
Hearing Protection		AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA	TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN5135A	742	\$440.00

Description	Full Description	Nomenclature	APC	Price
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$386.00
Public Safety Microphones (PSMs) - APX 3000 ONLY				
Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$177.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$177.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$177.00
Remote Speaker Microphones (RSMs)				
Description	Full Description	Nomenclature	APC	Price
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4101B	372	\$356.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$351.00
AUDIO ACCESSORY,IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4103B	372	\$373.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$324.00
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$103.00
MISSION CRITICAL WIRELESS RSM W/ BATTERY AND CLIP	APX Wireless RSM: includes battery and clip. DOES NOT INCLUDE CHARGER	RLN6544A	372	\$270.00
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68), FM Approved	HMN4104B	372	\$490.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57), FM Approved and UL Approved	PMMN4065AL	372	\$115.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporting, Rugged (IP68), FM Approved	PMMN4083AL	372	\$135.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANC. EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button. FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$127.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55), FM Approved	PMMN4068AL	372	\$144.00
Remote Speaker Microphones (RSMs) Accessories and Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
BATT STD LION 1800T	Wireless RSM Battery, 1800mA Lilon	PMN4461A	453	\$68.25
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber ear tips	67009254001	742	\$10.75
CHR STD DUC EXT US/NA/JP/TAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$70.25
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$268.00
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$77.75
DISPLAY RSM GCAI, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$97.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$126.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
Surveillance Kits (Wired)				
Description	Full Description	Nomenclature	APC	Price
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter	ZMN6032	742	\$143.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6031	742	\$177.00
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	607	\$133.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6038	476	\$149.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$117.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
BATT STD LION 1800T	Wireless RSM Battery, 1800mA Lilon	PMN4461A	453	\$68.25
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$136.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$46.75
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00

Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$44.50
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$44.50
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$117.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6124A	742	\$192.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$44.50
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$136.00
1 WIRE RECEIVE ONLY SURVEILLANCE KIT WITH TRANSLUCENT TUBE, EXTRA LOUD	Compatible with APX 4000	RLN5313BXL	742	\$58.25
Surveillance (Wired) Accessory Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	607	\$133.00
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$126.00

APX 4000XH Radios
2-WAY RADIO ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
Antennas				
ANTENNA, WHIP,ANTENNA, WHIP,800-900MHZ	CSA APPROVED	PMAF4020A	555	\$48.50
Battery				
BATTERY PACK,LITHIUM ION,BATTERY PACK, IMPRES LIION CSA157 IP67 2050T	CSA APPROVED	NNTN8750A	453	\$246.00
Battery Charger Not CSA Approved				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75
ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	Display Module for IMPRES Multi-Unit Charger	RLN5382C	785	\$95.00
INSERT, UNIVERSAL MUC	-	NNTN8170A	785	\$224.00
INSERT, UNIVERSAL SUC	-	NNTN8169A	453	\$45.00

Carrying Solutions

Description	Full Description	Nomenclature	APC	Price
Audio Accessories				
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	CSA APPROVED	BDN6781	742	\$27.00
CSA157 TRBO NEXUS, 4 POLE	CSA APPROVED	NNTN8378A	742	\$405.00
DUAL MUFF CSA 157 HEADSET 24NRR	CSA APPROVED	NNTN8379A	742	\$456.00
DUAL MUFF CSA 157 HEADSET 26NRR	CSA APPROVED	NNTN8380A	742	\$556.00
HEAVY DUTY HEADSET PMLN5275C	CSA APPROVED	PMLN5275C	742	\$534.00
ATEX PTT ADAPTER, NEXUS 4 POLE	CSA APPROVED	PMLN6368A	742	\$286.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	CSA APPROVED	RLN4941A	742	\$76.75
RECEIVE NLY SURV KIT (BLACK) /NOISE	CSA APPROVED	RLN5313B	742	\$60.00
RECEIVE ONLY SURV KIT(BEIGE)/NOISE	CSA APPROVED	RLN5314B	742	\$54.00
RX ONLY HRDHAT MNT 3.5MM RT PLUG	CSA APPROVED	RMN4054B	742	\$204.00
MICROPHONE,IMPRES RSM, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporing (IP57). FM Approved and UL Approved	PMMN4065AL	372	\$115.00
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporing, Rugged (IP68). FM Approved	PMMN4083AL	372	\$135.00
MICROPHONE,IMPRES RSM, 3.5MM JACK, IP55	IMPRES RSM with NON-Threaded Audio Jack, Windporing (IP55). FM Approved	PMMN4069AL	372	\$144.00
AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES RSM, NOISE CANG, EMER	IMPRES RSM with NON-Threaded Audio Jack, Orange Button. FM Approved and UL Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4062AL	372	\$127.00
Remote Speaker Microphones (RSM)				
Description	Full Description	Nomenclature	APC	Price
MICROPHONE.SUBMERSIBLE REMOTE SPEAKER MIC	-	PMMN4040AL	372	\$95.00

APX 6000, 6000XE, 6000LI, 7000, 7000XE & SRX 2200 Product Series Radio
2-WAY RADIO ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
Antennas				
APX PSM 700/800MHZ ANTENNA	This antenna is tested and certified to work with the PSM on the APX 6000/XE/LI and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band): UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna	PMAF4002	372	\$13.00
UHFR2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$64.75
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$31.25
APX 7000 GPS STUBBY ANTENNA	This antenna is needed when a user has a Public Safety Microphone attached to the radio and still requires GPS capability. Attaches to the APX radio directly and is only used when the radio is operating in a single band configuration of UHF or 700/800 MHz.	NAG4000	555	\$19.50
UHF (380-520) GPS ANTENNA	UHF, GPS whip antenna. 380-520MHz	PMAE4065A	555	\$22.75
700/800- GPS ANTENNA	700/800 MHz whip antenna. 764-870 MHz	NAF5085A	555	\$48.50
UHF 1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$64.75
ANT.HLCL.136MHZ MIN,1.577GHZ M	VHF, GPS whip antenna. 136-174 MHz	NAR6593A	555	\$41.00
ANT VHF 7/800/GPS	Dual Band Antenna for VHF frequency range & 7/800 frequency range. Includes GPS. 200mm in length.	NAR6594A	555	\$81.00
ANTENNA, ANTENNA, WHIP,ANTENNA, WHIP,700-800MHZ	700-800 MHz Whip Antenna, supports GPS	PMAF4040A	555	\$37.00
Batteries				
Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION R IP68 2550T	-	PMNN4485	453	\$161.00
BATT IMPRES 2 LIION R IP68 3400T	-	PMNN4486	453	\$179.00
BATT IMPRES 2 LIION R IP68 5100T	-	PMNN4494	453	\$218.00
BATT IMPRES 2 LIION R IP68 4850T	-	PMNN4487	453	\$208.00
Batteries - DIV 1 HAZLOC CONFIGURED APX 6000, APX 6000XE, SRX 2200				
Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION TIA4950 R IP68 3100T	-	PMNN4547A	453	\$169.00
BATT IMPRES 2 LIION TIA4950 R IP68 4600T	-	PMNN4573A	453	\$240.00
Batteries - SRX 2200				
Description	Full Description	Nomenclature	APC	Price
ASSEMBLY,BATTERY,BATT R LI ION 2900M 3100T MILITARY BRN	-	NNTN8182B	453	\$158.00
Battery Chargers				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75
APX CHARGER INSERT ADAPTER FOR XTS SINGLE-UNIT CHARGER	Only 1 SUC insert will ship. Only work in Single Unit Chargers. Requires charger containing Software Version 3.4 or greater.	NNTN7687A	785	\$48.50
APX CHARGER INSERT ADAPTER FOR XTS MULTI-UNIT CHARGER	Six inserts will ship in one package. Only work in Multi Unit Chargers. Requires charger containing Software Version 3.4 or greater.	NNTN7686A	785	\$224.00
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,663.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US/JPN	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	NNTN8897A	785	\$1,188.00

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/VA-PLUG, ACC USB CHGR	-	NNTN8844A	785	\$1,420.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$170.00
Battery Chargers - SRX 2200				
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000LI, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,663.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US/JP/N	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	NNTN8897A	785	\$1,188.00
Battery Fleet Management				
CHGRGR INTRFC UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit , attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Bluetooth Mission Critical Wireless Note: requires QA00583 to be ordered in the APX radio in order to enable Bluetooth software				
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$194.00
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-To-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip. (NNTN8457A)	NNTN8434A	742	\$556.00
Y-ADAPTER FOR WRLS BLUETOOTH PTT POD	Wireless neckloop Y-adapter and retention hook	NNTN8385A	742	\$108.00
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$350.00
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$150.00
Bluetooth Mission Critical Wireless Replacement Parts				
WIRELESS POD ADAPTER FOR 3.5MM HEADPHONE WITH SPEAKER AND MIC PK OF 10	Pack of 10 adapters	NNTN8737A	742	\$433.00
DISCREET EARPIECE KIT	Phonak Phonilo Intra Ear Receiver	RLN4921	372	\$275.00
EARTIPS, REPLACEMENT	Replacement ear tips for NNTN8294A, NNTN8295A or NNTN8296A. Contains two ear tips in each size and one clip.	NNTN8299A	742	\$3.40
EARTIPS, BULK REPLACEMENT	Replacement ear tip kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$31.75
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	187	\$32.50
EARPIECE W/1/2" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$168.00
Belt Clips / Belt Loops / Radio Straps				
BELT WAIST BLK	1.75 inch Wide Leather Belt	420085599	271	\$21.50
CARRY ACCESSORY-BELT CLIP 2.5 INCH	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$13.00
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$16.75
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$16.75
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$16.75
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$24.75
Carrying Solutions - APX 6000				
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMN4547A TIA battery. Replacement for PMLN5657B.	PMLN7904A	271	\$85.25
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMN4547A TIA battery. Replacement for PMLN5658B.	PMLN7903A	271	\$72.25
UNIVERSAL HOLDER FOR STD MODELS	For APX leather case Standard model. Replacement for PMLN5709A.	PMLN7901A	271	\$34.50
UNIVERSAL HOLDER FOR XE MODELS	For APX leather case XE model. Replacement for PMLN5880A.	PMLN7902A	271	\$31.25
Carrying Solutions - APX 6000XE				
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMN4547A TIA battery. Replacement for PMLN5876A.	PMLN7905A	271	\$67.00
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMN4547A TIA battery. Replacement for PMLN5875A.	PMLN7906A	271	\$70.25
UNIVERSAL HOLDER FOR XE MODELS	For APX leather case XE model. Replacement for PMLN5880A.	PMLN7902A	271	\$31.25
Carrying Solutions - APX 7000				
CARRY ACCESSORY-CASE,APX7000 FIRE	This carry case is a special design requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY00022A01	271	\$60.50
Carrying Solutions - APX 7000XE				
CARRY ACCESSORY-CASE,APX7000 FIRE	This carry case is a special design requiring a Remote Speaker Microphone (RSM). The carry case strap secures the radio by strapping over the RSM connector	AY00022A01	271	\$60.50
APX7000XE UNIVERSAL CARRY HOLDER	This is the standard carry case for the Model 3.5 (Dual Display/Keypad) version of the APX7000XE radio.	PMLN6102A	271	\$31.25
CommPort				
CommPort Replacement Items				
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
Earpieces				
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk: Lightweight earpiece that picks up sound through bone conduction	PMLN5653A	742	\$431.00
Headsets				
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$100.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk. FM Certified and UL Approved	PMLN5101A	742	\$271.00
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4057	742	\$131.00
TACTICAL HARD-HAT MOUNT HEADSET, GRAY	TacticalPro Series Hard Hat Attached with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 22 dB	RMN4053	742	\$350.00
TACTICAL HEADBAND-STYLE HEADSET, GRAY	TacticalPro Series Over-The-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 26 dB	RMN4052	742	\$350.00
2-WAY HARD-HAT MOUNT HEADSET, BLACK	MT Series Hard Hat Attached with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 21 dB	RMN4051	742	\$299.00
Hearing Protection Heavy Duty Headsets by 3M Peltor				
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
HEADBAND HEADSET W/ NEXUS JACK	MT Series Over-the-Head Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	PMLN6088A	742	\$269.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
IN-LINE PTT ADAPTER, GCAI	PTT Nexus Adapter	PMLN6095A	742	\$386.00

AUDIO ACCESSORY-HEADSET,3M PELTOR TACTICALPRO 2-WAY COMMUNICATIONS HEA		TacticalPro Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 25 dB	RMN5135A	742	\$440.00
Public Safety Microphones (PSMs) - APX 6000 & 7000					
Description	Full Description	Nomenclature	APC	Price	
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$177.00	
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$177.00	
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$177.00	
Remote Speaker Microphones (RSMs) for SRX2200					
PMMN4062AL replaced with PMMN4136A that has multi mic adaptive noise suppression.					
Description	Full Description	Nomenclature	APC	Price	
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4135A	372	\$470.00	
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4136A	372	\$450.00	
IP68 REMOTE SPEAKER MICROPHONE 3.5MM,UL MICROPHONE,IMPRES RSM DELTA-T	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	PMMN4099B	372	\$145.00	
	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083AL	372	\$135.00	
Remote Speaker Microphones (RSMs) for APX 6000, APX 6000XE, APX 6000Li, APX 7000 and APX 7000XE					
PMMN4062AL replaced by PMMN4136A that has multi mic adaptive noise suppression.					
Description	Full Description	Nomenclature	APC	Price	
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4135A	372	\$470.00	
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	Compatible with APX6000, APX6000XE, SRX2200	PMMN4136A	372	\$450.00	
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JPTW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$324.00	
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00	
IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	Compatible with APX 6000, APX 6000XE, APX 7000, APX 7000XE and SRX 2200	PMMN4099B	372	\$145.00	
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$103.00	
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button, Rugged, Submersible (IP68)	NMN6271A	372	\$351.00	
MICROPHONE,IMPRES RSM DELTA-T	IMPRES RSM Windporting, Rugged (IP68). FM Approved	PMMN4083AL	372	\$135.00	
RSM Replacement Parts					
Description	Full Description	Nomenclature	APC	Price	
CHR STD TRVL EXT REGION	Wireless RSM Vehicular Charger	PMLN6716A	785	\$77.75	
BATT STD LIION 1800T	Wireless RSM Battery, 1800mAh Lilon	PMMN4461A	453	\$68.25	
CHR STD DUC EXT US/NA/JPTAIWAN	Wireless RSM Dual Unit Charger (desk charger), includes power supply	PMLN7120A	785	\$70.25	
DISPLAY RSM GCAL, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$97.25	
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$97.25	
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$189.00	
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber ear tips	67009254001	742	\$10.75	
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$126.00	
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00	
Surveillance Kits (Wired)					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00	
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00	
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$46.75	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$44.50	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00	
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige, FM Approved	PMLN6126A	742	\$44.50	
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter. *PR1500 requires NTN8613 adapter.	ZMN6031	742	\$177.00	
CMFRT EARPC W/MIC & PTT BLK	Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5312B	607	\$133.00	
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter. *PR1500 - requires NTN8613 adapter	ZMN6032	742	\$143.00	
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black, FM Approved	PMLN6125A	742	\$44.50	
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$136.00	
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$117.00	
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter. *PR1500 requires NNTN8613 adapter.	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$136.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6124A	742	\$192.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6123A	742	\$192.00
1 WIRE RECEIVE ONLY SURVEILLANCE KIT WITH TRANSLUCENT TUBE, EXTRA LOUD	Compatible with APX 6000XE, APX 7000XE	RLN5313BXL	742	\$58.25

Description	Full Description	Nomenclature	APC	Price
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB.	5080384F72	742	\$126.00

Tactical Kit
APX Vehicular Adaptor

Description	Full Description	Nomenclature	APC	Price
CHR IMPR VEH ADAPT INT	Compatible with APX 6000, APX 6000L, APX 6000XE and SRX 2200	NNTN8527A	785	\$1,663.00

For APX 8000 Radios
2-WAY RADIO ACCESSORIES

2-Way Radio Accessories

Description	Full Description	Nomenclature	APC	Price
APX 7000 GPS STUBBY ANTENNA	This antenna is needed when a user has a Public Safety Microphone attached to the radio and still requires GPS capability. Attaches to the APX radio directly and is only used when the radio is operating in a single band configuration of UHF or 700/800 MHz	NAG4000	555	\$19.50
UHF/R2 GPS STUBBY ANTENNA	UHF range 2, GPS stubby antenna. 450-520 MHz	FAF5260A	555	\$64.75
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz, GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$31.25
UHF1 GPS STUBBY ANTENNA	UHF range 1, GPS stubby antenna. 380-470 MHz	FAF5259A	555	\$64.75
APX PSM 700/800MHZ ANTENNA	This antenna is tested and certified to work with the PSM on the APX 6000/XE/Li and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in.. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band): UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna	PMAF4002	372	\$13.00
ANTENNA, ANTENNA, WHIP, ANTENNA, WHIP, 700-800MHZ	-	PMAF4040A	555	\$37.00
UHF (380-520) /7-800 GPS	-	PMAS4001A	555	\$33.50
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION R IP68 5100T	-	PMNN4494	453	\$218.00
BATT IMPRES 2 LIION R IP68 3400T	-	PMNN4486	453	\$179.00
BATT IMPRES 2 LIION R IP68 4850T	-	PMNN4487	453	\$208.00
BATT IMPRES 2 LIION R IP68 2550T	-	PMNN4485	453	\$161.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	NNTN8844A contains USA power cord. If needed please order one of the power cords listed below.	NNTN8844A	785	\$1,420.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$170.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFC UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

IMPRES Battery Fleet Management Software can be downloaded here.

Bluetooth Mission Critical Wireless

Note: requires Bluetooth option to be ordered in the APX radio

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$350.00
WIRELESS 2.0 COMMPORT IC MODULE	Mission Critical Wireless Push-To-Talk pod (POD ONLY)	NTN2571B	742	\$150.00
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$194.00

Bluetooth Mission Critical Wireless Replacement Parts

Description	Full Description	Nomenclature	APC	Price
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$31.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	187	\$32.50
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$168.00

Belt Clips / Belt Loops / Radio Straps

Description	Full Description	Nomenclature	APC	Price
BELT WAIST BLK	1.75 inch Wide Leather Belt	4200865599	271	\$21.50
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$16.75
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$16.75
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$16.75
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$24.75
CARRY ACCESSORY-BELT CLIP 2.5 INCH	2.5" Belt Clip is compatible with all APX subscribers except the APX4000 series	NNTN8266B	271	\$13.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. *(HT750, HT1250, HT1250?LS+ & HT1550?XLS - not compatible with UHF models)	HLN6602	271	\$41.00
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	Replacement for PMLN5657B	PMLN7904A	271	\$85.25
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	Replacement for PMLN5658B	PMLN7903A	271	\$72.25
UNIVERSAL HOLDER FOR STD MODELS	Replacement for PMLN5709A	PMLN7901A	271	\$34.50

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE LW HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$100.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4094	RMN4055B	742	\$110.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00

AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
RECEIVE-ONLY HARDHAT MOUNT HEADSET WITH 3.5MM THREADED PLUG	HT Series Listen Only Hard Hat Attached Headset with 3.5 threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4084.	RMN4057	742	\$131.00

Hearing Protection

Public Safety Microphones (PSMs)

Description	Full Description	Nomenclature	APC	Price
PSM IP55 WITH 3.5MM JACK RX 18IN	IMPRES Windporting Public Safety Microphone (18 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4059B	372	\$177.00
PSM IP55 WITH 3.5MM JACK RX 24IN	IMPRES Windporting Public Safety Microphone (24 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately. The only antenna currently qualified to work with UHFR1 PSM is PMAE4065A	PMMN4060B	372	\$177.00
PSM IP55 WITH 3.5MM JACK RX 30IN	IMPRES Windporting Public Safety Microphone (30 inch cable) with 3.5mm NON-Threaded Audio Jack, Volume Control, Orange Button. IP Rating IP55, FM Approved. PSM Antenna needs to be purchased separately	PMMN4061B	372	\$177.00
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz. GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$31.25
APX PSM 700/800MHZ ANTENNA	This antenna is tested and certified to work with the PSM on the APX 6000/XE/Li and APX 7000/XE radio for 700/800 MHz. If this antenna is used for any other purpose, possible coverage effects should be taken into consideration. Length: 3.54 in. When a PSM is attached to APX 7000 U1/78 or U2/78 (dual band): UHF frequencies- RF will not route to the PSM antenna port; RF will route to the radio's antenna. 7/800 frequencies- RF will route to the PSM antenna port; RF will not route to the radio's antenna	PMAF4002	372	\$13.00
UHF (390-520)/7-800 GPS	-	PMA54001A	555	\$33.50
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00
ANTENNA, ANTENNA, WHIP, ANTENNA, WHIP, 700-800MHZ	-	PMAF4040A	555	\$37.00

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
PLUS RSM NC IP54 THRD 3.5MM JACK RX	IMPRES RSM with 3.5mm Threaded and NON-Threaded Audio Jack and Orange Button. FM Approved. Noise Cancelling (IP54) NOT INTENDED FOR FIRE MARKETS	PMMN4084A	742	\$103.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION	IMPRES RSM with Dual microphone noise cancellation technology, Volume Control, 1-Programmable Button and Orange Button. Rugged, Submersible (IP68)	NMN6271A	372	\$351.00
IMPRES XP RSM FOR APX W/ DUAL MIC NOISE SUPPRESSION, 3.5MM THRD JACK	IMPRES RSM with Dual microphone noise cancellation technology, 3.5mm threaded jack, Volume Control, 1-Programmable Button and Orange Button (IP55)	NMN6274A	372	\$405.00
ACCESSORY KIT,APX WIRELESS RSM W/ DUC US/NA/JP/TW	APX Wireless RSM Kit: includes battery, clip, dual-unit charger (DUC), and power supply	RLN6554A	372	\$324.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$643.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137BLK	372	\$590.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00
ACCESSORY KIT, XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00

Remote Speaker Microphones (RSMs) Accessories and Replacement Parts

Description	Full Description	Nomenclature	APC	Price
DISPLAY RSM GCAJ, REPLACEABLE CABLE	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$97.25
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: Microphone Compatibility HMN4101, HMN4103, HMN4104. FM Approved	RMN5116A	742	\$268.00
RSM REPLACEMENT CABLE	Standard Temperature Replacement Cable for XE RSM (NNTN8203 series)	30009402001	372	\$97.25
RSM REPLACEMENT CABLE ASSEMBLY	Xtreme Temperature Replacement Cable for XE RSM (NNTN8203 and NNTN8575 series)	30009402002	372	\$189.00
REPLACEMENT RUBBER EARTIPS, CLEAR	-	5.0BE+103	742	\$32.25
IMPRES RSM REPL COIL CORD	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EAR TIP, CLEAR	Pack of 10 clear rubber eartips	67009254001	742	\$10.75
REPLACEMENT CLEAR ACOUSTIC TUBE	-	0105954U29	795	\$8.55
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. FM Approved	RLN6424B	742	\$80.00
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
RX ONLY EARPIECE W/TRANSLUCENT TUBE, LOUD VERSION	-	RLN6424BXL	742	\$130.00

Surveillance Kits (Wired)

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$136.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$117.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$44.50
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$117.00
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$44.50
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$136.00
ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$70.25

APX 8000XE Radios
2-WAY RADIO ACCESSORIES

2-Way Radio Accessories

Antennas

Description	Full Description	Nomenclature	APC	Price
ANT 1/4 WAVE 7/800 STUBBY	1/4 wave, 700/800 MHz. GPS stubby antenna. 764-870 MHz	NAR6595A	555	\$31.25
UHF (390-520)/7-800 GPS	-	PMA54001A	555	\$33.50
KIT, ANTENNA, ALL-BAND, 20CM	-	KT000026A01	555	\$108.00

UL DIV 2 Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 3400T	-	PMN4504	453	\$212.00
BATT IMPRES 2 LIION UL2054 DIV2 R IP68 4850T	-	PMN4505	453	\$243.00

Battery Chargers

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES 2, 6-DISP, NA/LA-PLUG, ACC USB CHGR	-	NNTN8844A	785	\$1,420.00
CHARGER, CHR IMP VEH EXT NA/EU KIT	-	NNTN7624C	785	\$510.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	-	NNTN8860A	785	\$170.00
CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 100-240VAC, US/NA PLUG	-	NNTN8863A	785	\$170.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFCE UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
NA FLEET MANAGEMENT LICENSE KEY	-	HKV/N4036A	785	\$489.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

IMPRES Battery Fleet Management Software can be downloaded here.

Bluetooth Mission Critical Wireless

Note: requires Bluetooth option to be ordered in the APX radio

Description	Full Description	Nomenclature	APC	Price
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$350.00
MC WIRELESS REMOTE CONTROL KEYFOB & US CHARGER	-	NNTN8442A	742	\$378.00
COVERT PACK-N-GO KIT	-	RLN6489A	742	\$756.00
COVERT PACK-N-GO KIT, ADVANCED	-	RLN6501A	742	\$1,188.00
1-WIRE EARBUD,29CM CORD,BLACK	-	NNTN8294A	742	\$43.25

Description	Full Description	Nomenclature	APC	Price
1-WIRE EARBUD,116CM CORD,BLACK	-	NNTN8295A	742	\$43.25
ACCY,KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces	NNTN8296A	742	\$194.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$56.25
Bluetooth Mission Critical Wireless Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
EARTIPS, BULK REPLACEMENT	Replacement ear tips kit for wireless ear buds. Contains: 20 Small ear buds, 20 Medium, 20 Large, and 10 clips	NNTN8361A	742	\$31.75
EARPIECE W/12" CABLE	Replacement cable for NTN2570C. FM Certified; MCW BT	NTN2572A	742	\$168.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$18.75
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
WIRELESS POD SWIVEL CLIP	-	PMLN6246A	742	\$4.85
PWR SUPPLY, SMPS, MICRO USB-NA	Replacement or spare micro-usb plug-in charger for wireless Push-To-Talk Pod	PMPN4027A	785	\$15.00
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	187	\$32.50
1.4V BATTERY - 6 PACK	-	RNN4005	453	\$15.75
Belt Clips / Belt Loops / Radio Straps				
Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$14.00
CARRY ACCESSORY-BELT CLIP 2.5 INCH	2.57 Belt Clip is compatible with all APX subscribers except the APX4000 series	NTN8266B	271	\$13.00
2.5" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.5 inches Leather Swivel Belt Loop	PMLN5407	271	\$16.75
2.75" REPLACEMENT SWIVEL BELT LOOP	Replacement 2.75 inches Leather Swivel Belt Loop	PMLN5408	271	\$16.75
3" REPLACEMENT SWIVEL BELT LOOP	Replacement 3 inches Leather Swivel Belt Loop	PMLN5409	271	\$16.75
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$24.75
BELT WAIST BLK	1.75 inch Wide Leather Belt	420086599	271	\$21.50
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25
CARRY ACCESSORY-BELT CLIP,KIT, BELT CLIP STUD (PACK OF 5)	-	NNTN8749A	372	\$81.00
Carry Solutions				
Description	Full Description	Nomenclature	APC	Price
APX6000 CC 2.75 SWL BL 4200MAH	-	PMLN5659B	271	\$80.00
APX6000 CC 3 FIX BL 4200MAH	-	PMLN5660B	271	\$74.50
APX6000 UNIVERSAL CARRY HOLDER	-	PMLN5709A	271	\$29.00
ACCESSORY KIT,MOLDED NYLON CARRY CASE W/SWIVEL	-	PMLN6802A	271	\$59.50
BREAKAWAY CHEST PACK	-	RLN4570A	271	\$58.50
CHESTPACK, UNIVERSAL	Chestpack with Radio Holder, Pen Holder and Velcro Secured Pocket. *(HT750, HT1250, HT1250?LS+ & HT1550?XLS - not compatible with UHF models)	HLN6602	271	\$41.00
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$54.00
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	APX leather carry case supporting PMMN4547A TIA battery. Replacement for PMLN5875A	PMLN7906A	271	\$70.25
LEATHER CARRY CASE WITH 3" FIXED BELT LOOP	APX leather carry case supporting PMMN4547A TIA battery. Replacement for PMLN5876A	PMLN7905A	271	\$67.00
UNIVERSAL HOLDER FOR XE MODELS	Replacement for PMLN5880A	PMLN7902A	271	\$31.25
Headsets				
Description	Full Description	Nomenclature	APC	Price
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. FM Certified	RMN5058A	742	\$100.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
RX ONLY HDBND HDST 3.5MM RT ANGLE P	HT Series Listen Only Over-The-Head Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN4055B	742	\$110.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79P	HT Series Listen Only Hard Hat Attached Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 23 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5133A	742	\$147.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset, Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
RX ONLY HRDHAT MNT 3.5MM RT ANGLE PLUG	HT Series Listen Only Over-The-Head Headset with 3.5 threaded connector. Noise Reduction Rating: 25 dB. APX radios require RSM: PMMN4084.	RMN4056B	742	\$131.00
AUDIO ACCESSORY-HEADSET,3M PELTOR HT SERIES LISTEN ONLY HEADSET HTM79B	HT Series Listen Only Neckband Headset with 3.5mm NON threaded connector. Noise Reduction Rating: 24 dB. APX radios require RSM: PMMN4062, PMMN4069 or PMMN4084	RMN5132A	742	\$147.00
Hearing Protection				
Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75
Remote Speaker Microphones (RSMs)				
Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,XVE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITH KNOB	-	PMMN4132A	372	\$665.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MICROPHONE, BLACK WITH KNOB	-	PMMN4132ABLK	372	\$665.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$643.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00
Remote Speaker Microphone Replacement Parts				
Surveillance Kits (Wired)				
Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. FM Approved	PMLN6130A	742	\$136.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. FM Approved	PMLN6125A	742	\$44.50
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. FM Approved	PMLN6126A	742	\$44.50
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. FM Approved	PMLN6127A	742	\$117.00
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. FM Approved	PMLN6128A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. FM Approved	PMLN6129A	742	\$136.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	RLN5313B	742	\$60.00
Surveillance (Wired) Accessory Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$22.25
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$22.25
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$22.25
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$22.25
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$22.25
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$22.25
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$48.75
Tactical Kit				
Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,TACTICAL BOOMLESS TEMPLE TRANSDUCER	-	PMLN6766A	742	\$407.00
ACCESSORY KIT,TACTICAL GCAI PTT INTERFACE MODULE	-	PMLN6827A	742	\$253.00
ACCESSORY KIT,TACTICAL REMOTE PTT BODY SWITCH	-	PMLN6767A	742	\$197.00
ACCESSORY KIT,TACTICAL EAR MICROPHONE	-	PMLN6829A	742	\$351.00
ACCESSORY KIT,TACTICAL REMOTE PTT RING SWITCH	-	PMLN6830A	742	\$56.25

APX NEXT ACCESSORIES

2-Way Radio Accessories

Antennas					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, STUBBY,STUBBY 65MM (760-870 MHZ)	-	AN000296A01	555	\$32.50	
ANTENNA, WHIP,WHIP, ALL BAND	-	AN000297A01	555	\$119.00	
ANTENNA, WHIP,7/800 WHIP, 16CM	-	AN000392A01	555	\$48.50	
ANTENNA, WHIP,UHF WHIP, 14CM	-	AN000393A01	555	\$48.50	
Batteries					
Description	Full Description	Nomenclature	APC	Price	
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T	-	NNTN9089A	453	\$264.00	
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2	-	NNTN9090A	453	\$297.00	
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T	-	NNTN9216A	453	\$226.00	
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2	-	NNTN9217A	453	\$259.00	
Battery Chargers					
Description	Full Description	Nomenclature	APC	Price	
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CA/LA PLUG, ACC-CHARGER	-	NNTN9115A	414	\$1,420.00	
INSERT RADIO NEXT G2I PERFORMANCE MUC	-	NNTN9212A	796	\$54.00	
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	-	NNTN9199A	785	\$170.00	

Audio Accessories

XV RSM PMMN4145A is replaced by XVP830 RSM PMMN4136 or XVP850 RSM PMMN4135A if channel control required

Description	Full Description	Nomenclature	APC	Price	
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00	
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00	
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00	
IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$117.00	
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00	
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00	
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	607	\$133.00	
Belt Clips / Belt Loops					
Description	Full Description	Nomenclature	APC	Price	
3" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5409	271	\$16.75	
2.5" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5407	271	\$16.75	
2.75" REPLACEMENT SWIVEL BELT LOOP	-	PMLN5408	271	\$16.75	
CARRY ACCESSORY-BELT CLIP 2.5 INCH	-	NTN8266B	271	\$13.00	
3" BELT CLIP	-	PMLN7965A	271	\$12.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	
APX NEXT CLASSIC HOLSTER	-	PMLN7947A	271	\$37.75	
APX NEXT HYBRID LEATHER HOLSTER, STANDARD BATTERY	-	PMLN7948A	271	\$91.75	
APX NEXT HYBRID LEATHER HOLSTER, HIGH CAP BATTERY	-	PMLN7964A	271	\$91.75	

APX NEXT XE ACCESSORIES

2-Way Radio Accessories

Antennas					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, STUBBY,STUBBY 65MM (760-870 MHZ)	-	AN000296A01	555	\$32.50	
ANTENNA, WHIP,WHIP, ALL BAND	-	AN000297A01	555	\$119.00	
ANTENNA, WHIP,7/800 WHIP, 16CM	-	AN000392A01	555	\$48.50	
ANTENNA, WHIP,UHF WHIP, 14CM	-	AN000393A01	555	\$48.50	
ANTENNA, STUBBY,UHF1 (STUBBY ANTENNA) (380-470MHZ)(9CM)	-	AN000369B01	555	\$32.50	
ANTENNA, STUBBY,UHF2 (STUBBY ANTENNA) (450-527MHZ)(9 CM)	-	AN000369B02	555	\$32.50	
Antenna Colored Bands					
Description	Full Description	Nomenclature	APC	Price	
GRAY ANTENNA ID BAND (PACK OF 10)	Grey band for base of all-band antenna (pack of ten)	32012144001	555	\$7.00	
YELLOW ANTENNA ID BAND (PACK OF 10)	Yellow band for base of all-band antenna (pack of ten)	32012144002	555	\$7.00	
GREEN ANTENNA ID BAND (PACK OF 10)	Green band for base of all-band antenna (pack of ten)	32012144003	555	\$7.00	
BLUE ANTENNA ID BAND (PACK OF 10)	Blue band for base of all-band antenna (pack of ten)	32012144004	555	\$7.00	
PURPLE ANTENNA ID BAND (PACK OF 10)	Purple band for base of all-band antenna (pack of ten)	32012144005	555	\$7.00	
Batteries					
Description	Full Description	Nomenclature	APC	Price	
BATTERY PACK,IMPRES GEN2, LIION, IP68, 5650T, UL2054 DIV 2	-	NNTN9090A	453	\$297.00	
BATTERY PACK,IMPRES GEN2, LIION,IP68, 4400T, UL2054 DIV 2	-	NNTN9217A	453	\$259.00	
Chargers					
Description	Full Description	Nomenclature	APC	Price	
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CA/LA PLUG, ACC-CHARGER	-	NNTN9115A	414	\$1,420.00	
INSERT RADIO NEXT G2I PERFORMANCE MUC	-	NNTN9212A	796	\$54.00	
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	-	NNTN9199A	785	\$170.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	
CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$54.00	
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00	
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00	
CARRY ACCESSORY-BELT CLIP 2.5 INCH	-	NTN8266B	271	\$13.00	
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25	
3" BELT CLIP	-	PMLN7965A	271	\$12.00	
ACCESSORY KIT ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25	
CARRY ACCESSORY-HOLSTER,APX NEXT XE CLASSIC HOLSTER	APX NEXT M4.5 XE Classic Holster	PMLN8208A	271	\$37.75	
CARRY ACCESSORY-HOLSTER,APX NEXT XE LEATHER CARRY CASE	APX NEXT M4.5 XE Boston Leather Carry Case Standard Battery	PMLN8209A	271	\$81.00	
AUDIO					
Description	Full Description	Nomenclature	APC	Price	
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00	
IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$117.00	
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00	
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00	
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	607	\$133.00	
RSMs					
Description	Full Description	Nomenclature	APC	Price	
ACCESSORY KIT,XVE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITH KNOB	XVE500 Remote Speaker Microphone, High Impact Green with Knob	PMMN4132A	372	\$665.00	
ACCESSORY KIT,XVE500 REMOTE SPEAKER MICROPHONE, BLACK WITH KNOB	XVE500 Remote Speaker Microphone, Black with Knob	PMMN4132ABLK	372	\$665.00	
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$643.00	
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00	

APX NEXT XN ACCESSORIES

UNIQUE APX NEXT XN ACCESSORIES					
Description	Full Description	Nomenclature	APC	Price	
BATTERY PACK, BATT IMPRES 2 LIION UL DIV2 IP68 3400T	-	PMMN4812A	453	\$299.00	
XVN500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITHOUT KNOB	-	PMMN4138A	372	\$775.00	
ACCESSORY KIT,APX NEXT XN LEATHER CARRY CASE	-	PMLN8328A	271	\$124.00	
APX NEXT XN MSI 12-PIN INTERFACE-TO-10-PIN RFDC ADAPTER	-	PMKN4262A	742	\$265.00	

Battery Chargers
NOT FOR USE WITH XN IN HAZARD ZONE BUT CAN BE USED IN NON-HAZARD ZONE

Description	Full Description	Nomenclature	APC	Price
CHARGER, MULTI-UNIT, IMPRES G2, 6-DISP, US/NA/CA/LA PLUG, ACC-CHARGER	-	NNTN9115A	414	\$1,420.00
INSERT RADIO NEXT G2I PERFORMANCE MUC	-	NNTN9212A	796	\$54.00
IMPRES 2 SUC, 3.0A, 120VAC, TYPE A PLUG, NA	-	NNTN9199A	785	\$170.00

Audio Accessories
NOT FOR USE WITH XN IN HAZARD ZONE BUT CAN BE USED IN NON-HAZARD ZONE

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black, FM Approved	PMLN6127A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00
RECEIVE-ONLY FOAM EARBUDD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
XV REMOTE SPEAKER MICROPHONE	Xtreme Voice (XV) RSM delivers the clearest and loudest audio communications	PMMN4123A	372	\$435.00
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00
CMFRT EARPC W/MIC & PTT BLK	-	RLN5312B	607	\$133.00
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	-	RLN4941BXL	742	\$91.75
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$643.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00
AUDIO ACCESSORY, XVP850 REMOTE SPEAKER MICROPHONE, WITH CHANNEL KNOB	-	PMMN4135A	372	\$470.00
ACCESSORY KIT,XVP830 REMOTE SPEAKER MICROPHONE, NO CHANNEL KNOB	-	PMMN4136A	372	\$450.00

Carry Solutions
NOT FOR USE WITH XN IN HAZARD ZONE BUT CAN BE USED IN NON-HAZARD ZONE

Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-STRAP,XL, WITH BUTTON BACK HOLDER	-	AY000229A01	271	\$54.00
CARRY ACCESSORY-STRAP,WITH BUTTON BACK HOLDER	-	AY000223A01	271	\$50.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25

REMOTE SPEAKER MIC
NOT FOR USE WITH XN IN HAZARD ZONE BUT CAN BE USED IN NON-HAZARD ZONE

Description	Full Description	Nomenclature	APC	Price
APX XE500 REMOTE SPEAKER MIC, BLACK, NO CHANNEL KNOB	-	PMMN4107ABLK	372	\$550.00
XE500 REMOTE SPEAKER MICROPHONE W/O CH CTRL	-	PMMN4107A	372	\$550.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITH KNOB	-	PMMN4132A	372	\$665.00
ACCESSORY KIT,XVE500 REMOTE SPEAKER MICROPHONE, BLACK WITH KNOB	-	PMMN4132ABLK	372	\$665.00
XVE500 REMOTE SPEAKER MICROPHONE, HIGH IMPACT GREEN, NO CHANNEL KNOB	-	PMMN4137A	372	\$643.00
XVE500 REMOTE SPEAKER MICROPHONE, BLACK, NO CHANNEL KNOB	-	PMMN4137ABLK	372	\$590.00
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black, FM Approved	PMLN6127A	742	\$117.00

SURVEILLANCE KITS
NOT FOR USE WITH XN IN HAZARD ZONE BUT CAN BE USED IN NON-HAZARD ZONE

Description	Full Description	Nomenclature	APC	Price
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black, FM Approved	PMLN6127A	742	\$117.00

ACE3600
REMOTE TERMINAL UNIT

MODELS

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	85	\$1,260.00
Expansion Frame :				
ACE3600 EXPANSION CPU, POWER SUPPLY AND MOUNTING	-	F7510	85	\$945.00
CPU Modules :				
ACE3600 IP GATEWAY CPU4600	ACE3600 IP Gateway firmware loaded on the CPU module with on board RS-232 port , RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7507	85	\$4,725.00
ACE3600 CPU3680	CPU module only with on board RS-232 port , RS-232/485 port, 10/100 Mbps Ethernet port, and 2 USB host ports. Up to two optional plug-in ports.	F7508	85	\$1,313.00
ACE3600 MID TIER CPU, 3640	CPU module only with on board RS-232 port , RS-232/485 port and 10/100 Mbps Ethernet port. Up to two optional plug-in ports.	F7502	85	\$1,050.00

OPTIONS

Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 ANALOG CONVENTIONAL	-	VA00198	275	\$1,890.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$389.00
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00159	275	\$389.00
ADD: ASTRO 25 ANALOG TRUNKING	-	VA00199	275	\$1,890.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,310.00
ADD: MOTOTRBO ANALOG CONVENTIONAL	-	VA00194	275	\$389.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,310.00

Description	Full Description	Nomenclature	APC	Price
ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$525.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$525.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$525.00
ADD: VHF MOBILE RADIO	-	VA00160	275	\$525.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
ADD: HT750/GP320/GP328 /PRO5150 INST. KIT	Includes radio modem plug-in.	V154	85	\$270.00
ADD: XTL5000/2500 ANALOG INSTALLATION KIT	Includes radio modem plug-in.	V157	85	\$250.00
ADD: CDM750 INSTALLATION KIT	-	V143	85	\$289.00
ADD: CM200/CM140/EM200/GM3188 INSTALLATION KIT	Includes radio modem plug-in.	V148	85	\$289.00
APX6500 DIGITAL INSTALLATION KIT	-	VA00125	85	\$315.00
XPR4350/DM3400/XIR M8220/DGM4100 RADIO INSTALLATION KIT	RTU must have CPU 3680 for this option.	V682	85	\$190.00
ADD: XPR 5000 ANALOG ACE 3600 INSTALLATION KIT	-	VA00596	85	\$324.00
ADD: ACE3600 XTS 2500 INSTALLATION KIT	Includes Brackets, cables and mounting H/W This Option is orderable only with the F7509. This option must be ordered with a Metal chassis or housing option.	V156	85	\$260.00
RS-485 JUNCTION BOX	Includes one FKN8427 cable; order additional cables as V440 from MOSCAD Accessories. Incompatible with V184 and all Modem options unless a rack mount option is available and also ordered (refer to the Product Planner for assistance).	V186	85	\$158.00

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 ANALOG ACE 3600 INSTALLATION KIT	-	VA00587	275	\$441.00
ADD: XPR 5000 CONNECT PLUS ACE 3600 INSTALLATION KIT	-	VA00591	275	\$215.00
ADD: XPR 5000 DIGITAL ACE 3600 INSTALLATION KIT	-	VA00589	85	\$252.00

Frames

Description	Full Description	Nomenclature	APC	Price
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19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	85	\$137.00
ADD: 5 I/O SLOTS FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V105	85	\$195.00
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	85	\$405.00
ADD: ACE3600 REDUNDANCY	Includes frame, redundant CPU3680, space for 4 I/O modules and space for a redundant power supply. If redundant power supply is required, order V275.	VA00433	85	\$1,785.00
ADD: 3 I/O SLOTS FRAME	Fits all chassis and housing sizes. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V103	85	\$79.00
ADD: 7 I/O SLOT FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V107	85	\$342.00
2 I/O SLOTS FRM	-	V102	85	\$58.00

Chassis & Housings

Description	Full Description	Nomenclature	APC	Price
28 X 36 CM METAL CHASSIS	Compatible with 2 I/O Slots (V102) frame only. Fits mobile radio with 6.5 AH battery. If portable radio is used, either 10 AH or 6.5 AH battery will fit.	V229	85	\$76.00
ADD: EXPANDED 19 CHAS	-	V269	85	\$242.00
ADD: HOUSING TAMPER SWITCH	-	V224	85	\$95.00
ADD: 38 X 38 CM METAL CHASSIS	Fits to 6.5 Ah battery.	V214	85	\$58.00
ADD: 50X50 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis. Fits to 6.5 Ah and 10Ah battery. Not includes padlock.	VA00405	85	\$1,008.00
ADD: 50X50 CM PAINTED METAL HOUSING	Includes a metal chassis and fits either the 6.5 Ah or the 10Ah battery. It does not include a padlock.	V228	85	\$474.00
ADD: CHASSIS FOR 19" RACK MTG 0, 3, 5, 8 I/O FRM	Metal backplane required for mounting on 19 in. rack. Compatible with V103 and V105 slots frame. Mounting brackets (V051) should be ordered separately.	V120AG	85	\$147.00
ADD: 48 X 48 CM METAL CHASSIS	Fits to 6.5 AH or 10AH battery.	V056	85	\$105.00
ADD: 40X40 CM PAINTED METAL HOUSING	Includes a metal chassis. Fits to 6.5 Ah battery.	V276	85	\$460.00
ADD: CHASSIS FOR 19" RACK MTG	Metal backplane required for mounting on 19 in. rack. Compatible with V107 and VA00433 I/O slots frame. Mounting brackets (V051) should be ordered separately.	V120	85	\$147.00
ADD: 40X40 HOUSING W/ PADLOCK ACCESSORY	Includes a metal chassis and fits the 6.5 Ah battery. It does not include a padlock.	VA00406	85	\$952.00

Input/Output Modules

Description	Full Description	Nomenclature	APC	Price
ADD: 16AI +/-5 V	-	V742	85	\$709.00
ADD: 4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0-10 V output. Require I/O slots and frame.	V118	85	\$520.00
12 DO ML RELAY 120-230V MODULE	-	VA00332	85	\$441.00
ADD: 4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output.. All AI channels are +/- 20 mA. Require I/O slots and frame.	V562	85	\$935.00
ADD: 8 DO EE RELAY 2A	-	V508	85	\$273.00
ADD: 8AI +/-5 V	-	V741	85	\$510.00
OPTN,ACCY,ADD: 16 DO EE RLY 2A SBO	-	VA00347	85	\$420.00
ADD: 4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	V460	85	\$909.00
ADD: 16 DO ML RELAY 2A	-	V516	85	\$378.00
16 DI 120-230V MODULE	-	VA00331	85	\$310.00
ADD: 8 AI +/-20 MA	-	V318	85	\$552.00
ADD: 8DO EE 2 FORM A SBO	-	VA00343	85	\$331.00
ADD: 16 DI FAST 24V	-	V265	85	\$210.00
ADD: 16AI +/-20 MA	-	V463	85	\$762.00
ADD: 16 DI FAST 24V IEC TP2	16DI 24V DC per IEC 61131-2 Type 2	V117	85	\$210.00
ADD: 16DI 4DO EE 4AI +/-20MA	-	V245	85	\$468.00
ADD: 24V FLOATING POWER SUPPLY	-	V260	85	\$79.00
ADD: 16DI 4DO ML 4AI +/-20MA	-	V453	85	\$468.00
ADD: 32 DI FAST 24V IEC TP2	32DI 24V DC per IEC 61131-2 Type 2	V959	85	\$315.00
12 DO EE RELAY 120-230V MODULE	-	VA00348	85	\$426.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	85	\$24.00
ADD: 32 DO / DI FET	-	V481	85	\$384.00
ADD: 16 DO EE RELAY 2A	-	V481	85	\$384.00
ADD: 8 DO ML RELAY 2A	-	V616	85	\$363.00
ADD: 8 DO ML RELAY 2A	-	V314	85	\$284.00
ADD: 32 DI FAST 24V	-	V379	85	\$352.00
ADD: 32 DI FAST 48V	-	V474	85	\$315.00
ADD: 16 DO / DI FET	-	V480	85	\$263.00

Terminal Blocks and Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 40 PIN TB HOLDER KIT	Connector kit for cable. Fits 32DI, 32DO/DI, 16AI, 16DO , Mixed I/O, 8AI/4AO, and 8DO-SBO.	V153	85	\$40.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	3 meter numbered cable with connector. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V202	85	\$182.00
30 PIN TERMINAL BLOCK HOLDER KIT	Connector kit for cable. Fits High Voltage I/O modules VA00331, VA00348, and VA00332.	V203	85	\$37.00
ADD: 40 WIRE CABLE W/ TB HOLDER 3 M	3 meter numbered cable with connector. Fits 32DI, 32DO/DI, 16AI, 16DO , Mxed I/O, 8AI/4AO, and 8DO-SBO.	V358	85	\$171.00
ADD: 20 PIN TB HOLDER KIT	Connector kit for cable. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V158	85	\$33.00
ADD: 20 WIRE CABLE W/ TB HOLDER 3 M	3 meter color-coded cable with connector. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V253	85	\$111.00

Power Supply & Batteries

Description	Full Description	Nomenclature	APC	Price
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	85	\$301.00
DC PS 18-72V PS W/ BAT CHGR	-	V367	85	\$427.00
OPTN,CHGR,ADD: AC PWR PS 100-240 V W/ BAT CHGR	-	V261	85	\$435.00
ADD: 6.5 AH BACKUP BATTERY	Fits all metal chassis and housing.	V114	85	\$180.00
ADD: DC POWER SUPPLY 18-72V	-	V251	85	\$370.00
OPTN,POWER SUPPLY ASSEMBLY,ADD: AC PWR SPLY 100-240 V W/O CHGR	-	V346	85	\$375.00
ADD: 12V DC PS LOW-TIER	This Option will allow an external 12V P/S to be connected through the CPU to the back plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	V149	85	(\$116.00)

CPU

Description	Full Description	Nomenclature	APC	Price
ADD: PLUG-IN RS-232 PORT	-	V184	85	\$111.00
ADD: PLUG-IN 4 MB SRAM	Adds 4Meg user SRAM. One per RTU/CPU.	V447	85	\$155.00
ACE3600 IP GATEWAY CPU4600	The CPU4600 adds IP Gateway functionality. Two optional plug-in ports are still available.	V449	85	\$3,990.00
ADD: ACE3600 CPU3680	The CPU3680 adds two USB host ports and increased memory capacity to the CPU3640. Two optional plug-in ports are still available.	V448	85	\$289.00
ADD: PLUG-IN ETHERNET 10M PORT	-	V204	85	\$111.00
PLUGIN RADIO PORT	Provided with conventional and analog trunking models or radio installation kit	VA00362	85	\$111.00
ADD: PLUG-IN RS 485 PORT	-	V440	85	\$111.00
ADD: PLUG-IN ETHERNET 10/100 M PORT	Fits only to port PH1.	V212	85	\$111.00

CPU and Power Supply Redundancy

Description	Full Description	Nomenclature	APC	Price
ADD: SEC. CPU PLUG-IN 4 MB SRAM	Provides the same functionality as the V447, but installed on the redundant CPU.	V444	85	\$147.00
ADD: SEC. CPU PLUG-IN RADIO PORT	Provides the same functionality as the VA00362, but installed on the redundant CPU.	VA00364	85	\$111.00
ADD: SEC. CPU PLUG-IN ETHERNET 10/100 M PORT	Provides the same functionality as the V202, but installed on the redundant CPU.	V215	85	\$111.00
ADD: SEC. CPU PLUG-IN ETHERNET 10M PORT	Provides the same functionality as the V204, but installed on the redundant CPU.	V205	85	\$111.00
ADD: SECONDARY DC PS 10.5-15.5V	-	V275	85	\$365.00
ADD: SEC. CPU PLUG-IN RS-232 PORT	Provides the same functionality as the V184, but installed on the redundant CPU.	V185	85	\$111.00
ADD: SEC. CPU PLUG-IN RS 485 PORT	Provides the same functionality as the V440, but installed on the redundant CPU.	V441	85	\$111.00

I/O Expansion LAN Switch

Description	Full Description	Nomenclature	APC	Price
ADD: ACE3600 EXPANSION LAN SWITCH MODULE	Required when more than 1 expansion frame is connected to an RTU. Occupies one I/O slot on the main RTU. Includes a 60 cm LAN cable (FKN8561) for connecting the LAN switch to the main CPU. Requires the 3640 CPU on the main RTU.	VA00226	85	\$462.00
I/O Expansion Frame				
Description	Full Description	Nomenclature	APC	Price
ADD: LAN CABLE 3 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V666	85	\$28.00
ADD: LAN CABLE 60 CM	Can be used for connecting the LAN switch to the main CPU or for connecting the expansion frame to the LAN switch.	V529	85	\$21.00
ADD:DC 10.5-15.5V	This option removes the power supply that is standard with the Expansion Frame (F7510) and adds the power supply that is standard with the ACE3600 RTU. Use this option if A) the current draw from the Expansion racks + the current draw from the main RTU exceed the capacity of the main RTU power supply, or if B) a power source local to the expansion rack will be used. Please see System Planner for details.	V274	85	\$0.00
ADD: LAN CROSS CABLE 3 METER	Crossed LAN cable for connecting an expansion frame directly to the main CPU. Not compatible with the LAN switch.	V665	85	\$21.00
ADD: LAN CABLE 2 METER	LAN cable for connecting an expansion frame to the expansion LAN switch.	V648	85	\$21.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
OPTION,TEST REPORT	May be ordered with any of the main RTU models and also with the Expansion Frame. V99 provides printed report of the factory test.	V99	85	\$11.00
ADD: BLANK MODULE	Fits to I/O slots.	V20	85	\$24.00
ADD: ACT MODULE FOR ACE3600	-	V155	85	\$630.00
Software and Software Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires DNP capability. License is included with the RTU.	V283	214	\$105.00
ADD: IEC870-5-101 LICENSE	One required for each RTU or FIU that uses this protocol driver.	V242	85	\$105.00
ADD: 3 RD PARTY PROTOCOL LICENSE	One required for each RTU or FIU that uses the 3rd party protocol: ModBus, Allan Bradley.	V377	214	\$105.00
ADD: AGA LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is included with the RTU.	V284	214	\$105.00
Security Options				
Description	Full Description	Nomenclature	APC	Price
ADD: AEC3600 SECURITY ENABLE OPTION	-	VA00360	85	\$289.00
ACCESSORIES				
CPU				
Description	Full Description	Nomenclature	APC	Price
ADD-ON ETHERNET 10/100 M PORT	Kit includes screws and spacers.	FLN4104	85	\$121.00
ADD-ON RS 485 PORT	Kit includes screws and spacers.	FLN4107	85	\$121.00
ADD-ON RADIO PORT (GRI)	Kit includes screws and spacers.	FLN3696	85	\$121.00
ADD-ON ETHERNET 10M PORT	Kit includes screws and spacers.	FLN4106	85	\$121.00
HARD KIT	Screws and spacers for plug-in ports.	FHN6802	85	\$10.00
PLUG-IN 4 MB SRAM	Increases user SRAM from 4Meg to 8Meg. One per RTU/CPU.	FLN3818	85	\$158.00
ADD-ON RS-232 PORT	Kit includes screws and spacers.	FLN4105	85	\$121.00
Radio Installation Kits				
Description	Full Description	Nomenclature	APC	Price
ASSY ACCY.MTM800 INSTALLTION KIT	-	FLN4109	85	\$383.00
HT750/GP320/328/PRO5150 INSTALLATION KIT	-	FLN3637	85	\$412.00
APX6500 DIGITAL INSTALLATION KIT	-	FLN1072	85	\$382.00
APX6500 ANALOG INSTALLATION KIT FOR ACE3600	-	FLN0114A	85	\$460.00
XPR5350/80 CONNECT PLUS INSTALATION KIT FOR ACE 3600	-	FLN0113A	85	\$227.00
MARLIN CABLE ANTENNA MINI UHF	-	FKN8429	85	\$63.00
XPR5350/80 DIGITAL INSTALATION KIT FOR ACE3600	-	FLN4102A	85	\$275.00
MOTOTRBO ANALOG RADIO INSTLN KIT	-	FLN1059	85	\$369.00
CDM750 INSTALLATION KIT	-	FLN3638	85	\$329.00
CM/EM/GM ANTENNA CABLE N TYPE	-	FKN8430	85	\$67.00
XTL5000/2500 ANALOG INSTALLATION KIT	-	FLN3640	85	\$394.00
XTL5000/2500 DIGITAL INSTALLATION KIT	-	FLN3649	85	\$286.00
CM200/CM140/EM200/GM3188 INSTALLATION KIT	-	FLN3635	455	\$335.00
Input/Output Modules				
Description	Full Description	Nomenclature	APC	Price
ACE 3600 BLANK MODULE	-	FHN6972	85	\$27.00
16 AI +/-20MA	-	FLN3559	85	\$840.00
16 DI FAST 24V	-	FLN3552	85	\$231.00
16 AI +/-5V	-	FLN3561	85	\$735.00
16 DI FAST 24V IEC T2	-	FLN3547	85	\$231.00
16DI 4DO EE 4AI +/-20MA	-	FLN3572	85	\$483.00
32 DO / DI FET	-	FLN3554	85	\$403.00
12 DO EE RELAY 120-230V MODULE	-	FLN4052	85	\$447.00
16 DO EE RELAY 2A	-	FLN3537	85	\$381.00
4AO / 8AI +/- 20 MA MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 20 mA. Require I/O slots and frame.	FLN3816	85	\$956.00
32 DI FAST 24V IEC TP2	-	FLN3550	85	\$331.00
16 DO / DI FET	-	FLN3553	85	\$277.00
8 AI +/-20MA	-	FLN3566	85	\$573.00
4AO / 8AI +/- 5 V MODULE	Module with 4 AO and 8 AI channels. Each AO channel can be used as 0-20 mA or 0-10 V output. All AI channels are +/- 5 V. Require I/O slots and frame.	FLN3815	85	\$956.00
16 DI 120-230V MODULE	-	FLN4051	85	\$326.00
8 AI +/-5V	-	FLN3560	85	\$525.00
32 DI FAST 24V	-	FLN3548	85	\$370.00
8 DO ML RELAY 2A	-	FLN3538	85	\$299.00
4 AO MODULE	Module with 4 Analog Output can be used as 0-20 mA or 0-10 V output. Require I/O slots and frame.	FLN3817	85	\$546.00
8 DO EE RELAY 2A	-	FLN3605	85	\$287.00
16DI 4DO ML 4AI +/-20MA	-	FLN3573	85	\$483.00
8DO EE 2 FORM A SBO	-	FLN4146	85	\$347.00
16 DO ML RELAY 2A	-	FLN3539	85	\$420.00
12 DO ML RELAY 120-230V MODULE	-	FLN4053	85	\$457.00
Cables				
Description	Full Description	Nomenclature	APC	Price
30 PIN TERMINAL BLOCK HOLDER KIT	-	FTN7532	85	\$41.00
40 PIN TB HOLDER KIT	-	FTN7160	85	\$48.00
DATA CBL CPU TO RAD/ RS485	-	FKN8427	85	\$23.00
20 PIN TB HOLDER KIT	-	FTN7159	85	\$42.00
RS-485 JUNCTION BOX	-	FLN3641	85	\$179.00
40 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8466	85	\$187.00
30 WIRE CABLE W/ TERMINAL BLOCK HOLDER 3 METERS	-	FKN8557	85	\$198.00
ASSY.CBL.12V DC OPEN EXTN PWR CBL	-	FKN8523	85	\$19.00
20 WIRE CABLE W/ TB HOLDER 3 M	-	FKN8465	85	\$125.00
CABLE, TOOLBOX 3M W/ADAPTER EPP	-	FLN6457	214	\$48.00
I/O Expansion Frame				
Description	Full Description	Nomenclature	APC	Price
LAN CABLE 3 METER	-	FKN8563	85	\$30.00
LAN CROSS CABLE 3 METER	-	FKN8525	85	\$29.00
ACE3600 EXPANSION POWER SUPPLY	-	FPN1654	85	\$266.00
ACE3600 EXPANSION MODULE	CPU module used with the F7510; not compatible with the main RTU models.	FLN4075	85	\$767.00
LAN CABLE 2 METER	-	FKN8562	85	\$42.00
ACE3600 EXPANSION LAN SWITCH MODULE	-	FLN4078	85	\$486.00
LAN CABLE 60CM	-	FKN8561	85	\$24.00

EXP_PWR_SUPPLY EXT POWER CABLE		-	FKN8559	85	\$51.00
Motherboards, Enclosures, and Frames					
Description	Full Description	Nomenclature	APC	Price	
ACE3600 NO I/O SLOTS FRAME	-	FLN4125	85	\$231.00	
ACE3600 REDUNDANCY 4 I/O FRAME	-	FLN4699	85	\$447.00	
38 X 38 CM METAL CHASSIS	-	FHN6794	85	\$99.00	
METAL BASE FOR 0 I/O FRAME	-	FHN6816	85	\$69.00	
48 X 48 CM METAL CHASSIS	-	FHN6792	85	\$126.00	
HOUSING TAMPER SWITCH	-	FLN3697	85	\$105.00	
ACE3600 5 I/O SLOTS FRAME	-	FLN4122	85	\$315.00	
ADD: 40X40 METAL HOUSING NEMA 4& PAD LOCK	-	FHN6946	85	\$1,092.00	
TWO I/O SLOT FRAME	-	FLN4303	85	\$289.00	
ACE3600 8 I/O SLOTS FRAME	-	FLN4120	85	\$394.00	
50X50 CM PAINTED METAL HOUSING	-	FHN6870	85	\$513.00	
ADD: 50X50 METAL HOUSING NEMA 4& PAD LOCK	-	FHN6945	85	\$1,202.00	
2 SLOTS PLASTIC ENCLOSURE KIT	-	FLN4111	85	\$36.00	
EXPAND TO 19" FRAME METAL BACK	-	FHN7385	85	\$164.00	
EXPAND TO 19" FRAME METAL BACK	Suitable for use with 0, 3, and 5 I/O slots frame. Includes the frame for mounting in a 19 in. rack and also includes 1 set of mounting brackets.	FLN4304	85	\$327.00	
ACE 28X36CM METAL CHASSIS SFP	-	FLN4276	85	\$122.00	
ACE3600 3 I/O SLOTS FRAME	-	FLN4123	85	\$263.00	
ADD: 40X40 CM PAINTED METAL HOUSING	-	FHN6871	85	\$488.00	
ACE3600 7 I/O SLOTS FRAME	-	FLN4121	85	\$368.00	
METAL BASE FOR 5 I/O FRAME	-	FHN6815	85	\$90.00	
METAL BASE FOR 7 I/O FRAME	-	FHN6818	85	\$95.00	
3 SLOTS PLAS ENCL KIT	-	FLN4112	85	\$36.00	
METAL BASE FOR 3 I/O FRAME	-	FHN6817	85	\$98.00	
Battery & Power Supply					
Description	Full Description	Nomenclature	APC	Price	
DC PS 12V POWER CABLE	-	FKN8481	85	\$26.00	
BATTERY THERMISTOR CABLE	-	FKN8377	85	\$38.00	
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	85	\$116.00	
ASSY,P/S,AC PS 100-240 V W/O CHGR_MODULE	AC power supply module only, without battery charger.	FPN1641	85	\$693.00	
BATTERY POWER CABLE	Connects the battery to the power supply module. Fits 6.5Ah and 10Ah battery.	FKN8376	85	\$15.00	
BATTERY 6.5 AH	Battery mounting bracket (FHN6902) and battery power cable (FKN8376) must be ordered separately.	FTN7120	85	\$187.00	
P/S, 100-240VAC W/ CHGR MDL	AC power supply module only with battery charger.	FPN1903	85	\$749.00	
DC PS JUNCTION BOX	-	FHN6812	85	\$13.00	
AC P-S JUNCTION BOX	-	FTN7014	85	\$13.00	
MOUNTING BRACKET FOR 6.5 AH BATTERY	-	FHN6902	85	\$42.00	
XTL5000 ANLG DATA CBL	-	FKN8438	85	\$105.00	
DC POWER CABLE FOR DUAL PS	-	FKN8406	85	\$58.00	
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	85	\$84.00	
DC PS 18-72V W/O CHGR	-	FPN1646	454	\$725.00	
DC PS 18-72V W/ BATTERY CHARGER MODULE	18-72V DC power supply module only with battery charger.	FPN1904	85	\$749.00	
ASSY,P/S,AC PS 100-240 V W/ BAT CHGR KIT	-	FPN1644	85	\$786.00	
BATTERY 10 AH	Battery mounting bracket (FHN6901) and battery power cable (FKN8376) must be ordered separately.	FNN7898	85	\$312.00	
DC PS 18-72V PS W/ BAT CHGR	-	FPN1645	85	\$786.00	
DATA CPU USB TO MOTOTRBO RAD	-	FKN8644	85	\$84.00	
ASSY, PS BLANK MODULE FOR REDUNDANCY	-	FHN6861	85	\$30.00	
SECONDARY DC PS 10.5-15.5V	-	FPN1656	85	\$305.00	
XTL5000 DIG DATA CBL KIT	-	FKN8432	85	\$74.00	
ASSY,CBL,AC PWR CBL FOR 0 I/O SLT	-	FKN8492	85	\$28.00	
12V DC PS LOW-TIER	This Option will allow an external 12V P/S to be connected through the CPU to the back plane. The standard Power Supply unit will not be included. Not compatible with XTS2500 and HT/GP/Pro models.	FPN1652	85	\$231.00	
DC PS 18-72 V POWER CABLE	-	FKN8381	85	\$33.00	
ASSY, CBL, AC POWER CABLE FOR DUAL PS	-	FKN8407	85	\$58.00	
ASSY,P/S,AC PS 100-240 V W/O CHGR KIT	-	FPN1642	85	\$725.00	
MOUNTING BRACKET FOR 10 AH BATTERY	-	FHN6901	85	\$151.00	
AC PS POWER CABLE	-	FKN8382	85	\$34.00	
ACE3600 TO MOTOTRBO RADIO ANALOG CABLE	-	FKN8801A	85	\$84.00	
DC POWER SUPPLY 18-72V MODULE	18-72V DC power supply module only, without battery charger.	FPN1640	85	\$725.00	
DC POWER SUPPLY 12V (W/O TELKOOR)	-	FPN1643	85	\$375.00	
Radios and Modems					
Description	Full Description	Nomenclature	APC	Price	
APX6500 450-520MHZ (A+D)	-	FUE1251A	85	\$3,150.00	
XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	85	\$982.00	
APX6500 700/800 MHZ (A+D)	-	FUF1201A	85	\$3,150.00	
XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	85	\$982.00	
XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	85	\$982.00	
APX6500 136-174 MHZ (A+D)	-	FUD1041A	85	\$3,150.00	
APX6500 380-470 MHZ (A+D)	-	FUE1250A	85	\$3,150.00	
Miscellaneous					
Description	Full Description	Nomenclature	APC	Price	
ACT MODULE FOR ACE3600	Requires RTU with Chassis or housing.	FLN3851	85	\$646.00	
Security Options					
Description	Full Description	Nomenclature	APC	Price	
CD,SW,ACE3600 SECURED SYS TOOL SUITE VER. 18.50	-	FVN5973	85	\$830.00	
Software Licenses					
Description	Full Description	Nomenclature	APC	Price	
AGA 8 LICENSE	One required in every RTU or FIU that requires AGA8 capability. License is provided separately.	FRN5901	85	\$105.00	
IEC870-5-101 LICENSE	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FLN9504	85	\$105.00	
DNP-3 LICENSE MASTER/SALVE - RTU	One required in every RTU or FIU that requires IEC-5-101 capability. License is provided separately.	FRN5899	214	\$105.00	
3 RD PROTOCOL LICENSE	-	FRN5902	214	\$105.00	
ACE 1000 RTU					
ACE 1000 RTU Models					
Description	Full Description	Nomenclature	APC	Price	
MC IOT MAIN MODEL	-	F0016A	275	\$0.00	
ACE1000 Mandatory Options					
ACE 1000 RTU Options					
CPU Plug-in Board (Optional - VA00006 compatible with F0016A only, not compatible with F0026A and F5209A)					
Description	Full Description	Nomenclature	APC	Price	
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00	
ADD: MICROHARD N920 PLUG-IN BOARD	-	VA00144	275	\$210.00	
DIN Rail Installation Kit, Module Covers (Optional - Compatible with F0016A)					
Description	Full Description	Nomenclature	APC	Price	
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00	
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00	

I/O Modules (Order up to 2 modules)

Description	Full Description	Nomenclature	APC	Price
ADD: 12DI/8AI HW ONLY NO LIC	-	VA00150	275	\$595.00
ADD: 8DO/2AO HW ONLY NO LIC	-	VA00149	275	\$620.00
ADD:MIXED IO 7DI/6DO/1AO/3AI HW ONLY NO LIC	-	VA00599	275	\$640.00

If VA00150AA Ordered, Order an Equal Quantity of I/O Specification Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0 - 20MA DI/AI	-	VA00152	275	\$0.00
ADD: 0 - 5V DI/AI	-	VA00151	275	\$0.00

Continue to the Power Supply Options section below....

ACE 1100 FEP Model

Description	Full Description	Nomenclature	APC	Price
ACE 1100 - FEP MODULE	-	F0043	275	\$1,600.00

ACE 1100 FEP Options

ACE 1100 FEP Operation (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: ACE1000 FEP OPERATION	-	VA00154	275	\$0.00
ADD: 2XRS-232 PORT / AUX PLUG-IN BOARD	-	VA00006	275	\$175.00
ADD: MICROHARD N920 PLUG-IN BOARD	-	VA00144	275	\$210.00

CPU Plug-in Board is standard equipment/automatically included on F0043A

DIN Rail Installation Kit, Module Covers (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: WALL MOUNT INSTALLATION KIT	-	VA00148	275	\$50.00
ADD: FRONT CABLE COVERS	-	VA00147	275	\$10.00

Power Supply Options

Power Supply Options (Power Supplies are not available for the State of California. See ordering guide for details.)

Description	Full Description	Nomenclature	APC	Price
ADD: AC POWER SUPPLY 24V / 120W DC OUTPUT	-	VA00130	275	\$300.00
ADD: AC POWER SUPPLY UNIT 12V / 5A DC OUTPUT	-	VA00009	275	\$225.00
ADD:DC POWER CABLE	-	VA00155	275	\$50.00

Radio Options

Radio System Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOTRBO DIGITAL CONVENTIONAL	-	VA00159	275	\$389.00
ADD: MOTOTRBO CONNECT PLUS TRUNKING	-	VA00195	275	\$389.00
ADD: ASTRO 25 DIGITAL TRUNKING	-	VA00196	275	\$2,310.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	-	VA00197	275	\$2,310.00

Radio Platform Options (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: VHF MOBILE RADIO	-	VA00160	275	\$525.00
ADD: UHF R1 MOBILE RADIO	-	VA00161	275	\$525.00
ADD: UHF R2 MOBILE RADIO	-	VA00162	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	-	VA00201	275	\$525.00
ADD: 800/900MHZ MOBILE RADIO	-	VA00202	275	\$525.00

Radio Installation Kit Options

Radio Installation Kits (Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 DIGITAL INSTALLATION KIT	-	VA00588	275	\$275.00
ADD: XPR 5000 DIGITAL ACE 1000 INSTALLATION KIT	-	VA00590	275	\$160.00
ADD: XPR 5000 CONNECT PLUS ACE 1000 INSTALLATION KIT	-	VA00592	275	\$160.00

Software

Software License Options

Description	Full Description	Nomenclature	APC	Price
ADD: DNP3 MASTER LICENSE	-	VA00593	275	\$100.00
ADD: DNP3 SLAVE LICENSE	-	VA00594	275	\$100.00
ADD: CODESYS IEC 61131 LICENSE	-	VA00595	275	\$100.00

Accessories

Description	Full Description	Nomenclature	APC	Price
ADD:I/O MODULE EXTRACTOR TOOL	-	VA00153AA	275	\$10.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
TERMINAL BLOCK MALE 2 PIN 5 MM	-	FHN0063	275	\$10.00
MTM5200 INSTALLATION KIT	-	FLN0043	85	\$160.00
ACE1000 CABLE,BATTERY ELIMINATOR POWER	-	FKN8802A	85	\$30.00
GROUND CABLE	-	FKN0034	275	\$10.00
ACE1000 MICROHARD N920 PLUG-IN BOARD	-	FLN0109	275	\$210.00
TERMINAL BLOCK MALE 4 PIN 3.5MM	-	FHN0064	275	\$15.00
RS-232 DATA CABLE	-	FKN0022	275	\$55.00
DIN RAIL 26 CM	-	FHN0054	275	\$20.00
DIN RAIL STOPPER	-	FHN0057	275	\$15.00
MTM5200 DATA CABLE	-	FKN0027	275	\$50.00
APX4000 INSTALLATION KIT	-	FLN0042	275	\$300.00
MOBILE RADIO DC CABLE 10FT	-	FKN0036	275	\$30.00
RJ45 TO RJ45 EXTENSION CABLE 1500MM	-	FKN8803A	85	\$50.00
CPU PANEL COVER	-	FHN0058	275	\$10.00
TERMINAL BLOCK MALE 3 PIN 5 MM	-	FHN0062	275	\$10.00
APX3000/4000 DATA CABLE	-	FKN0025	275	\$95.00
DIN RAIL 45 CM	-	FHN0056	275	\$20.00
SD COVER	-	FHN0060	275	\$5.00
12DI/8AI MODULE +/- 20MA	-	FLN0050	275	\$650.00
AC POWER SUPPLY 12V/120W DC OUT	-	FLN0096	275	\$225.00
RJ50 I/O MODULE CABLE	-	FHN0065	275	\$15.00
DC POWER CABLE	-	FKN0033	275	\$75.00
AC POWER SUPPLY 24V/120W DC OUT	-	FLN0101	275	\$300.00
APX6500 INSTALLATION KIT	-	FLN0100	275	\$250.00
TERMINAL BLOCK CONNECTOR EXTARCTOR	-	FKN0024	275	\$10.00
RS-485 PORT 120 OHM TERMINATION CABLE	-	FKN0030	275	\$150.00
8DO/2AO MODULE +/- 20MA, 5V	-	FLN0052	275	\$650.00
APX 3000/4000 BATTERY ELIMINATOR BOARD	-	FLN1058	85	\$150.00
TERMINAL BLOCK MALE 10 PIN 5MM	-	FHN0061	275	\$40.00
XPR5350 INSTALLATION KIT	-	FLN0093	275	\$160.00
I/O MODULE CONNECTOR COVER	-	FHN0059	275	\$5.00
2XRS-232 PORT / AUX POWER PLUG-IN BOARD	-	FLN0048	275	\$250.00
12DI/8AI MODULE +/- 5V	-	FLN0051	275	\$650.00
XPR5350/80 CONNECT PLUS INSTALLATION KIT FOR ACE1000	-	FLN0115A	85	\$160.00
XPR 5350 USB CABLE	-	FKN0026	275	\$110.00
DATA CABLE FOR CONNECT PLUS	-	FKN0040A	85	\$116.00
MIXED IO CURRENT	-	FLN0116	275	\$750.00
APX6500 DATA CABLE	-	FKN0035	275	\$75.00

Radio Models

Description	Full Description	Nomenclature	APC	Price
XPR5350 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUD1040A	85	\$982.00
XPR5350 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUE1077A	85	\$982.00
XPR5380 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	-	FUF1200A	85	\$982.00

APX6500 136-174 MHZ (A+D)	-	FUD1041A	85	\$3,150.00
APX6500 380-470 MHZ (A+D)	-	FUE1250A	85	\$3,150.00
APX6500 450-520MHZ (A+D)	-	FUE1251A	85	\$3,150.00
APX6500 700/800 MHZ (A+D)	-	FUF1201A	85	\$3,150.00

ASTRO 25 Advanced Messaging Solution

Description	Full Description	Nomenclature	APC	Price
AMS SOFTWARE UPGRADES	-	T8161	68	\$0.00
ADD: TALK GROUP MESSAGING	Must order exact same quantity of CA03066AA AND T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher.	CA03066AA	68	\$500.00
ADD: LATEST AMS SERVER APP SW (MESSAGING)	-	CA03067AA	68	\$7,500.00
ADD: LATEST AMS SERVER APP SW (MESSAGING AND QUERY)	-	CA03068AA	68	\$15,000.00
ADD: LATEST MICROSOFT OS SERVER SW FOR AMS A1	-	CA03069AA	68	\$1,920.00
ADD: LATEST MICROSOFT OS SERVER SW FOR AMS A2	-	CA03070AA	68	\$2,694.00
ADD: LATEST MICROSOFT SQL SW FOR AMS A1	-	CA03072AA	68	\$4,445.00
ADD: LATEST MICROSOFT SQL SW FOR AMS A2	-	CA03073AA	68	\$8,895.00
ADD: LATEST SMART CLIENT APP SW	Requires upgrade to the latest AMS Server App Software to also be ordered. (cannot run latest Smart Client SW on an older AMS Server App SW release)	CA03071AA	68	\$780.00
WINDOWS 7 64B EMB MEDIA / LICENSE	-	DSWIN764EMB	708	\$235.00

Upgrades - A2 HA configuration:

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,AMS TALK GROUP MESSAGING -	Must order exact same quantity of T72869 that matches customers quantity of T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher	TT2869	68	\$500.00

Description	Full Description	Nomenclature	APC	Price
AMS SOFTWARE UPGRADES	-	T8161	68	\$0.00
ADD: LATEST SMART CLIENT APP SW	Requires upgrade to the latest AMS Server App Software to also be ordered. (cannot run latest Smart Client SW on an older AMS Server App SW release)	CA03071AA	68	\$780.00

Expansion

Description	Full Description	Nomenclature	APC	Price
ADVANCED MESSAGING SOLUTION (AMS) RADIO LICENSES	-	T8173	68	\$0.00
ADD: A1 RADIO LICENSE ACCESS TO AMS SERVICES MESSAGING ONLY	One time license fee for EACH Portable Radio that will have access to Messaging Service.	CA02797AA	68	\$60.00
ADD: A2 RADIO LICENSE ACCESS TO AMS SERVICES MESSAGING ONLY	One time license fee for EACH Portable Radio that will have access to Messaging Service.	CA02799AA	68	\$60.00
AMS SMART CLIENT EXPANSION	-	T8397	68	\$0.00
ADD: AMS R4.0 SMART CLIENT SW EXPANSION	-	CA03144AA	68	\$2,600.00
ADD: AMS R4.1 SMART CLIENT SW EXPANSION	-	CA03145AA	68	\$2,600.00

700 MHz Antennas

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D7-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D71	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 2 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D72NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 3 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-3 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D73	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 4 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D74NF	351	\$4,129.00
COLLINER OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D7	351	\$2,530.00
746-870 MHZ COLLINER OMNI 5.3 DBD 7-16 DIN FEMALE 5 DEGREE TILT	ALIVE PART#: ATC-GC7V40-D7-5 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40-D7-5.pdf	DSATCGC7V40D75	351	\$2,760.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WPI78.pdf	DSATCWPI78	351	\$345.00
COLLINER OMNI ANTENNA, 746-869 MHZ, 3DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V20.pdf	DSATCGC7V20D4	351	\$633.00
746-870 MHZ COLLINER OMNI 10.0 DBD, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V20.pdf	DSATCGC7V100D4	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 4.3-10 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D4NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 4.3-10 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D4-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D41	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 4.3-10 DIN FEMALE 2 DT NULL FILL	ALIVE PART#: ATC-GC7V100-D4-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D42NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 4.3-10 DIN FEMALE 3 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D4-3 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D43	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.0 DBD 4.3-10 DIN FEMALE 4 DT NULL FILL	ALIVE PART#: ATC-GC7V100-D4-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D44NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 5.5 DBD 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D4	351	\$2,530.00
746-870 MHZ COLLINER OMNI 5.3 DBD 4.3-10 DIN FEMALE 5 DEGREE TILT	ALIVE PART#: ATC-GC7V40-D4-5 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D45	351	\$2,760.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, 4.3-10 DIN FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-WPI78.pdf	DSATCWPI78D4	351	\$345.00
746-870 MHZ COLLINER OMNI 10.0 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7	351	\$4,129.00
746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D7-NF SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D7NF	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-2 SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D72	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-4 SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D74	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 4.3-10 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D4-NF SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D4NF	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 4.3-10 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-2 SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D42	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 4.3-10 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-4 SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D44	351	\$5,003.00
COLLINER OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE INVERT MOUN	ALIVE PART#: ATC-GC7V20-D7-INV SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V20-3.pdf	DSATCGC7V20D7INV	351	\$633.00
700/800 MHZ PUBLIC SAFETY PANEL	ALIVE PART#: ATC-GP7V35 SPEC SHEET LINK: https://alivetele.com.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GP7V35.pdf	DSATCGP7V35	351	\$748.00

ALIVE TELECOM - COMPARABLE TO SINCLAIR 412 AND 479 MODELS

Description	Full Description	Nomenclature	APC	Price
746-870 MHZ COLLINER OMNI 10.0 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D7-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-1 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D71	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 2 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-2-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D72NF	351	\$4,129.00
746-870 MHZ COLLINER OMNI 9.5 DBD 7-16 DIN FEMALE 4 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-4-NF SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D74NF	351	\$4,129.00

746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D7-NF SPEC SHEET LINK: https://alivelecom.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D7NF	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-2 SPEC SHEET LINK: https://alivelecom.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D72	351	\$5,003.00
746-870 MHZ COLLINER OMNI 11.0 DBD 7-16 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-4 SPEC SHEET LINK: https://alivelecom.nyc3.cdn.digitaloceanspaces.com/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D74	351	\$5,003.00

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/PI	DBSPECTRA PART#: DS7C03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36Ux.pdf	DSDS7C03P36UM	351	\$1,944.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/PI	DBSPECTRA PART#: DS7C06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux.pdf	DSDS7C06P36UM	351	\$3,048.00
764-869 MHZ 5.9DB GAIN OMNIDIRECTIONS, 2 DEGREE TILT, LOW PIM, PIP RAT	DBSPECTRA PART#: DS7C06P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2Mx.pdf	DSDS7C06P36U2M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/PI	DBSPECTRA PART#: DS7C06P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4Mx.pdf	DSDS7C06P36U4M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/PI	DBSPECTRA PART#: DS7C06P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6Mx.pdf	DSDS7C06P36U6M	351	\$3,335.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 4.3-10 F	DBSPECTRA PART#: DS7C09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36Ux.pdf	DSDS7C09P36UM	351	\$4,014.00
764-869MHZ 9 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 2 DEG D	DBSPECTRA PART#: DS7C09P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U2Mx.pdf	DSDS7C09P36U2M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 4 DEG DT	DBSPECTRA PART#: DS7C09P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U4Mx.pdf	DSDS7C09P36U4M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 6 DEG DT	DBSPECTRA PART#: DS7C09P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U6Mx.pdf	DSDS7C09P36U6M	351	\$4,301.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 4.3-10	DBSPECTRA PART#: DS7C10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36Ux.pdf	DSDS7C10P36UM	351	\$4,244.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 2 DEG D	DBSPECTRA PART#: DS7C10P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2Mx.pdf	DSDS7C10P36U2M	351	\$4,531.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/PI-P	DBSPECTRA PART#: DS7C10P36U3M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U3Mx.pdf	DSDS7C10P36U3M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U4Mx.pdf	DSDS7C10P36U4M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U6Mx.pdf	DSDS7C10P36U6M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 8 DEG D	DBSPECTRA PART#: DS7C10P36U8M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U8Mx.pdf	DSDS7C10P36U8M	351	\$4,531.00
764-869MHZ 10 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP, 10-DEG	DBSPECTRA PART#: DS7C10P36U10M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U10Mx.pdf	DSDS7C10P36U10M	351	\$4,531.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP	DBSPECTRA PART#: DS7C10P3U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U2Mx.pdf	DSDS7C10P3U2M	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP	DBSPECTRA PART#: DS7C10P3U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U4Mx.pdf	DSDS7C10P3U4M	351	\$4,708.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/PI-PIP	DBSPECTRA PART#: DS7C10P3U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U6Mx.pdf	DSDS7C10P3U6M	351	\$4,704.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-PIP, 4.3-10 F	DBSPECTRA PART#: DS7C12P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36Ux.pdf	DSDS7C12P36UM	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-PIP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U2Mx.pdf	DSDS7C12P36U2M	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-PIP, 4-DEG DT	DBSPECTRA PART#: DS7C12P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U4Mx.pdf	DSDS7C12P36U4M	351	\$5,175.00

DBSPECTRA MAGNUM TYPE ANTENNAS

Description	Full Description	Nomenclature	APC	Price
10DB 700/OMNI MAGNUM ANTENNA	DBSPECTRA# DS7M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M10P36Ux.pdf	DSDS7M10P36UD	351	\$7,252.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M11PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M11PDAUx.pdf	DSDS7M11PDAUD	351	\$7,993.00
764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	DBSPECTRA PART#: DS7M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12P36Ux.pdf	DSDS7M12P36UD	351	\$8,625.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	DBSPECTRA PART#: DS7M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12PH2Ux.pdf	DSDS7M12PH2UD	351	\$8,274.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN A-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M13PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M13PDAUx.pdf	DSDS7M13PDAUD	351	\$10,149.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 13 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M13PBDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M13PBDUx.pdf	DSDS7M13PBDUD	351	\$7,993.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN B-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PBDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PBDUx.pdf	DSDS7M14PBDUD	351	\$10,149.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, D-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M14PDDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PDDUx.pdf	DSDS7M14PDDUD	351	\$8,251.00
764-905 MHZ, OFFSET ANTENNA, MAGNUM, 14 DB GAIN, BI-DIRECTIONAL	DBSPECTRA PART#: DS7M14PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M14PH2Ux.pdf	DSDS7M14PH2UD	351	\$10,339.00
794-824 MHZ, OFFSET MAGNUM ANTENNA, A-PATTERN, 12.5 DBD GAIN, LOW-PIM/	DBSPECTRA PART#: DS7L13PAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7L13PAUx.pdf	DSDS7L13PAUD	351	\$9,488.00
794-824MHZ MAGNUM ANT,13.5 DBD,OMNI LOW PIM , H-PATTERN	DBSPECTRA PART#: DS7L14PHU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7L14PHUx.pdf	DSDS7L14PHUD	351	\$9,976.00

DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36Dx.pdf	DSDS7C03P36DD	351	\$3,163.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36Ux.pdf	DSDS7C03P36UD	457	\$1,944.00
764-869 MHZ, DUAL OMNIDIRECTIONAL ANTENNA, 6 DBD GAIN, LOW PIM/PI-PIP,	DBSPECTRA PART#: DS7C06P36D2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D2Dx.pdf	DSDS7C06P36D2D	351	\$4,589.00
764-869 MHZ, 6 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/PI-PIP,	DBSPECTRA PART#: DS7C06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D6Dx.pdf	DSDS7C06P36D6D	351	\$4,589.00
DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Dx.pdf	DSDS7C06P36DD	351	\$4,020.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Tx.pdf	DSDS7C06P36TD	351	\$5,261.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36Ux.pdf	DSDS7C06P36UD	351	\$3,048.00
764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH 2DT	DBSPECTRA PART#: DS7C06P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2Dx.pdf	DSDS7C06P36U2D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4Dx.pdf	DSDS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6Dx.pdf	DSDS7C06P36U6D	351	\$3,335.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, DIN	DBSPECTRA# DS7C08PPVU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVUx.pdf	DSDS7C08PPVUD	351	\$1,815.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2Dx.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4Dx.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPVU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU6Dx.pdf	DSDS7C08PPVU6D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, DIN	DBSPECTRA# DS7C08PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C08PPVUx.pdf	DSDS7C08PPVUD	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D1 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2D1x.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4Dx.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PI-PIP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C08PPVU6D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU6Dx.pdf	DSDS7C08PPVU6D	351	\$2,029.00

746-896MHZ BROADBAND DIRECTIONAL ANTENNA	DBSPECTRA# DS7G08Y60U-N SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7G08Y60U-N.pdf	DSDS7G08Y60UN	351	\$518.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP, DS7C09P36D-D, 764-869MHZ DUAL 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D-D.pdf	DSDS7C09P36D6D	351	\$5,808.00
764-869MHZ, 9DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA W/ 7/16 DIN	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-D.pdf	DSDS7C09P36U2D	351	\$5,377.00
DS7C09P36U-D, 764-869MHZ SINGLE 9DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-D.pdf	DSDS7C09P36U2D	351	\$4,301.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP, 764-869MHZ, 9DB GAIN OMNI ANTENNA	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-D.pdf	DSDS7C09P36U2D	351	\$4,013.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG DT	DBSPECTRA PART#: DS7C09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-D.pdf	DSDS7C09P36U2D	351	\$5,808.00
764-869MHZ SINGLE 10DB GAIN OMNI WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U-D.pdf	DSDS7C10P36U2D	351	\$4,244.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2D.pdf	DSDS7C10P36U2D	351	\$4,531.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS7C10P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U3D.pdf	DSDS7C10P36U3D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U4D.pdf	DSDS7C10P36U4D	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U8D.pdf	DSDS7C10P36U8D	351	\$4,531.00
764-869MHZ 10DB GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA.	DBSPECTRA PART#: DS7C10P36U8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U8D.pdf	DSDS7C10P36U8D	351	\$4,531.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P3U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U2D.pdf	DSDS7C10P3U2D	351	\$4,704.00
764-869MHZ, 10DB GAIN SINGLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C10P3U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U4D.pdf	DSDS7C10P3U4D	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	DBSPECTRA PART#: DS7C10P3U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U6D.pdf	DSDS7C10P3U6D	351	\$4,704.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU-D.pdf	DSDS7C10PPVU2D	351	\$3,022.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU2D.pdf	DSDS7C10PPVU2D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU4D.pdf	DSDS7C10PPVU4D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C10PPVU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU6D.pdf	DSDS7C10PPVU6D	351	\$3,326.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PART#: DS7C11PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPTU-D.pdf	DSDS7C11PPTU2D	351	\$3,134.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C11PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU-D.pdf	DSDS7C11PPYU2D	351	\$3,022.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C11PPYU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU2D.pdf	DSDS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C11PPYU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU4D.pdf	DSDS7C11PPYU4D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C11PPYU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU6D.pdf	DSDS7C11PPYU6D	351	\$3,326.00
746-869 MHZ, 12 DBD, DIRECTIONAL PANEL ANTENNA, DIN	DBSPECTRA# DS7A12P90U-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/800.pdf	DSDS7A12P90UD	351	\$2,959.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U-D.pdf	DSDS7C12P36U2D	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL, 11.5 DBD, LOW-PIM/HI-PIP, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U2D.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 4-DEG DT	DBSPECTRA PART#: DS7C12P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U4D.pdf	DSDS7C12P36U4D	351	\$5,175.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C12PPAU-D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C12PPAU-D.pdf	DSDS7C12PPAU2D	351	\$2,608.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU2D.pdf	DSDS7C12PPAU2D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU4D.pdf	DSDS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU2D.pdf	DSDS7C12PPVU2D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU4D.pdf	DSDS7C12PPVU4D	351	\$7,342.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAU6D.pdf	DSDS7C12PPAU6D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPVU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU6D.pdf	DSDS7C12PPVU6D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C12PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVU-D.pdf	DSDS7C12PPVU2D	351	\$6,797.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PIP, DIN	DBSPECTRA# DS7C13PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C13PPYU-D.pdf	DSDS7C13PPYU2D	351	\$6,797.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA# DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU-D.pdf	DSDS7C14PPTU2D	351	\$3,278.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	DBSPECTRA PART#: DS7C14PPTU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU2D.pdf	DSDS7C14PPTU2D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	DBSPECTRA PART#: DS7C14PPTU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU4D.pdf	DSDS7C14PPTU4D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	DBSPECTRA PART#: DS7C14PPTU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTU8D.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA# DS7C15PPAU-D SPEC SHEET LINK: TBD	DSDS7C15PPAU2D	351	\$4,313.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C15PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU2D.pdf	DSDS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C15PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU4D.pdf	DSDS7C15PPAU4D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C15PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAU6D.pdf	DSDS7C15PPAU6D	351	\$4,744.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C17PPAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU-D.pdf	DSDS7C17PPAU2D	351	\$9,639.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C17PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU2D.pdf	DSDS7C17PPAU2D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C17PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU4D.pdf	DSDS7C17PPAU4D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C17PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU6D.pdf	DSDS7C17PPAU6D	351	\$10,412.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PIP, DIN, 8-DEG DT	DBSPECTRA PART#: DS7C17PPAU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAU8D.pdf	DSDS7C17PPAU8D	351	\$10,412.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749612012P	351	\$2,632.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749612015P	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-11-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749618011P	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-14-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA749618014P	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-13-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA74966013P	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBPA74966015P	351	\$3,015.00

OMNI, CORPORATE COLLINER, 3DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-03-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80703P	351	\$2,563.00
OMNI, CORPORATE COLLINER, 6DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706P	351	\$3,051.00
OMNI, CORP COLLINER, 6DDBD, 746-870MHZ.3 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T3P	351	\$3,162.00
OMNI, CORP COLLINER, 6DDBD, 746-870MHZ.5 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T5P	351	\$3,162.00
OMNI, CORPORATE COLLINER, 8DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-08-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708P	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T1P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T2P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T3P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T4P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T5P	351	\$4,140.00
OMNI, CORPORATE COLLINER, 9DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709P	351	\$4,531.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T2P	351	\$4,705.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T3P	351	\$4,705.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T4P	351	\$4,705.00
OMNI, CORPORATE COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-10-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80710P	351	\$6,200.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T1P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T2P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T3P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T4P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-11-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T5P	351	\$6,633.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-12-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712P	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART#: CC807-12-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712T4P	351	\$6,891.00
OMNI, MEANDER COLLINER, 0DBD, 746-806MHZ, PIM RATED	RFI PART#: COL81-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$795.00
OMNI, MEANDER COLLINER, 9DBD, 746-806MHZ, PIM RATED	RFI PART#: COL81-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 796-824MHZ, PIM RATED	RFI PART#: COL81-824-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81824P	351	\$1,045.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED	RFI PART#: COL84-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84806P	351	\$845.00
OMNI, MEANDER COLLINER, 7DBD, 748-806MHZ, PIM RATED	RFI PART#: COL85-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85806P	351	\$899.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, CORPORATE COLLINER, 3 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART # - CC807-03 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80703	351	\$2,562.00
OMNI, CORPORATE COLLINER, 6 DBD, 746-870 MHZ, PIM & 25 KW PIP RATED	RFI PART # - CC807-06 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706	351	\$3,051.00
OMNI, CORP COLLINER, 6DDBD, 746-870MHZ.3 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T3	351	\$3,162.00
OMNI, CORP COLLINER, 6DDBD, 746-870MHZ.5 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-06-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80706T5	351	\$3,162.00
OMNI-DIRECTIONAL ANTENNA	RFI PART # - CC807-08 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1DEG DT, PIM, 25KW PIP RATED	RFI PART # - CC807-08-T1 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T1	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART # - CC807-08-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T2	351	\$4,140.00
OMNI CORPORATE COLLINER 8DBD 746-870MHZ 3 DEG DT PIM & 25KW PIP RATED	RFI PART # - CC807-08-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T3	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART # - CC807-08-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T4	351	\$4,140.00
8 DB GAIN OMNI, 5 DEG DT ANTENNA	RFI PART # - CC807-08-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80708T5	351	\$4,140.00
OMNI, CORPORATE COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART # - CC807-11 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711	351	\$6,201.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1DT, PIM, 25KW PIP RATED	RFI PART # - CC807-11-T1 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T1	351	\$6,632.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-11-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T2	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DB, 746-870MHZ, 3DEG DT, PIM, 25KW PIP RATED	RFI PART # - CC807-11-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T3	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-11-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T4	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DB, 746-870MHZ, 5DT, PIM & 25KW PIP RATED	RFI PART # - CC807-11-T5 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCC80711T5	351	\$6,632.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART # - CC807-12 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-12-T2 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712T2	351	\$6,891.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RAT	RFI PART # - CC807-12-T4 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2018/02/CC807-12-P-43021-1-.pdf	DSCC80712T4	351	\$6,891.00
OMNI, MEANDER COLLINER, 9 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL81-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL81806	351	\$1,045.00
OMNI, MEANDER COLLINER, 9 DBD, 796-824 MHZ, PIM RATED, 7/16 DIN	RFI PART # - COL81-824 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL81824	351	\$1,045.00
OMNI, MEANDER COLLINER, 0DBD, 746-806MHZ, PIM RATED, 7/16 DIN	RFI PART # - COL81-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81806	351	\$795.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED, 7/16 DIN	RFI PART # - COL84-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84806	351	\$845.00
OMNI, MEANDER COLLINER, 7 DBD, 748-806 MHZ, PIM RATED	RFI PART # - COL85-806 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL85806	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART#: YW09-7489 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00

YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART#: YW 15-6989 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
PIPE TO PIPE CLAMP, 2.5" TO 4.5" PIPE, 1 CLAMP	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP KIT, 2.5" TO 4.5" PIPE, 2 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$90.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-12 SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUC12	351	\$137.00

700 MHz CONTROL STATION ANTENNAS

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N -FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,374.00

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V40D7	351	\$2,530.00
OMNI ANTENNA, COLLILINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: TBD	DSATCGC7V20D7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART#: ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GD7VC.pdf	DSATCGD7VCNF	351	\$380.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-WPI78.pdf	DSATWPI78	351	\$805.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1	DSPLMKIT1	351	\$140.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
700 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS7B03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS7B03CS36UN	351	\$1,029.00
764-806 MHZ,DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS7B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS7B03CS36DN	351	\$1,961.00
764-806 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS7B00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B00CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS7B00CS36DN	351	\$1,093.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI PART#: SMD7-83-U SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-4-67.pdf	DSMMD783U	351	\$230.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	RFI PART#: COD8-7687 CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD87687	351	\$530.00

800 MHz Antennas

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNI ANTENNA, COLLILINEAR ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D7 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V20.pdf	DSATCGC7V20D7	351	\$633.00
746-870 MHZ COLLILINEAR OMNI 10.0 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V100-D7 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 9.5 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V100-D7-NF SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D7NF	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 1 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-1 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D71	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 2 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-2-NF SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D72NF	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 3 DEGREE TILT	ALIVE PART#: ATC-GC7V100-D7-3 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D73	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 9.5 DBD 7-16 DIN FEMALE 4 DEGREE TILT NULL	ALIVE PART#: ATC-GC7V100-D7-4-NF SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V100.pdf	DSATCGC7V100D74NF	351	\$4,129.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 7-16 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D7-NF SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D7NF	351	\$5,003.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-2 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D72	351	\$5,003.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 7-16 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D7-4 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D74	351	\$5,003.00
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V40.pdf	DSATCGC7V40D7	351	\$2,530.00
746-870 MHZ COLLILINEAR OMNI 5.3 DBD 7-16 DIN FEMALE 5 DEGREE TILT	ALIVE PART#: ATC-GC7V40-D7-5 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V40-D7-5.pdf	DSATCGC7V40D75	351	\$2,760.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-WPI78.pdf	DSATCWPI78	351	\$345.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE NULL FILL	ALIVE PART#: ATC-GC7V120-D4-NF SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D4NF	351	\$5,003.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE 2 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-2 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D42	351	\$5,003.00
746-870 MHZ COLLILINEAR OMNI 11.0 DBD 4.3-10 DIN FEMALE 4 DEGREE TILT	ALIVE PART#: ATC-GC7V120-D4-4 SPEC SHEET LINK: https://alivele.com/wp-content/uploads/ATC-GC7V120-1.pdf	DSATCGC7V120D44	351	\$5,003.00
POLE MOUNT KIT, 2"-4" DIAMETER PIPE	ALIVE PART#: PLMTKIT	DSPLMTKIT	351	\$110.00
POLE MOUNT KIT, 2"-4" DIAMETER PIPE	ALIVE PART#: PLMTKIT-1	DSPLMTKIT1	351	\$140.00

DBSPECTRA ANTENNAS WITH 4.3-10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
806-869 MHZ, SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN,LOW-PIM/HI-PI	DBSPECTRA PART#: DS8A10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS8A10P36U-M.pdf	DSDS8A10P36UM	351	\$4,244.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36U-M.pdf	DSDS7C03P36UM	351	\$1,944.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-M.pdf	DSDS7C06P36UM	351	\$3,048.00
764-869 MHZ 5.9DB GAIN OMNIDIRECTIONS, 2 DEGREE TILT, LOW PIM, PIP RAT	DBSPECTRA PART#: DS7C06P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2M.pdf	DSDS7C06P36U2M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C06P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4M.pdf	DSDS7C06P36U4M	351	\$3,335.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C06P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6M.pdf	DSDS7C06P36U6M	351	\$3,335.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 4.3-10 F	DBSPECTRA PART#: DS7C09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U-M.pdf	DSDS7C09P36UM	351	\$4,014.00

764-869MHZ 9 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 2 DEG D	DBSPECTRA PART#: DS7C09P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U2M.pdf	DSDS7C09P36U2M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 4 DEG DT	DBSPECTRA PART#: DS7C09P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U4M.pdf	DSDS7C09P36U4M	351	\$4,301.00
764-869MHZ 9DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 6 DEG DT	DBSPECTRA PART#: DS7C09P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36U6M.pdf	DSDS7C09P36U6M	351	\$4,301.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 4.3-10	DBSPECTRA PART#: DS7C10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U-M.pdf	DSDS7C10P36U-M	351	\$4,244.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 2 DEG D	DBSPECTRA PART#: DS7C10P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U2M.pdf	DSDS7C10P36U2M	351	\$4,531.00
764-869 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS7C10P36U3M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U3M.pdf	DSDS7C10P36U3M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 4 DEG D	DBSPECTRA PART#: DS7C10P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U4M.pdf	DSDS7C10P36U4M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 6 DEG D	DBSPECTRA PART#: DS7C10P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U6M.pdf	DSDS7C10P36U6M	351	\$4,531.00
764-869MHZ 10DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 8 DEG D	DBSPECTRA PART#: DS7C10P36U8M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U8M.pdf	DSDS7C10P36U8M	351	\$4,531.00
764-869MHZ 10 DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP, 10-DEG	DBSPECTRA PART#: DS7C10P36U10M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P36U10M.pdf	DSDS7C10P36U10M	351	\$4,531.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP	DBSPECTRA PART#: DS7C10P3U12M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U12M.pdf	DSDS7C10P3U12M	351	\$4,704.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP	DBSPECTRA PART#: DS7C10P3U14M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U14M.pdf	DSDS7C10P3U14M	351	\$4,708.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIMHI-PIP	DBSPECTRA PART#: DS7C10P3U16M SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U16M.pdf	DSDS7C10P3U16M	351	\$4,704.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/HI-PIP, 4.3-10 F	DBSPECTRA PART#: SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36Ux.pdf	DSDS7C12P36U-M	351	\$4,830.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIMHI-PIP, 2-DEG DT	DBSPECTRA PART#: SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36Ux.pdf	DSDS7C12P36U2M	351	\$5,175.00
764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIMHI-PIP, 4-DEG DT	DBSPECTRA PART#: SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36Ux.pdf	DSDS7C12P36U4M	351	\$5,175.00

DBSPECTRA MAGNUM ANTENNAS

Description	Full Description	Nomenclature	APC	Price
806-869MHZ, 10DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	DBSPECTRA# DS8M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M10P36U-D.pdf	DSDS8M10P36U-D	351	\$6,038.00
806-869 MHZ, OFFSET ANTENNA, MAGNUM, 11 DB GAIN, A-PATTERN, THIRD-ORDE	DBSPECTRA PART#: DS8M11PDAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M11PDAU-D.pdf	DSDS8M11PDAU-D	351	\$7,475.00
764-869MHZ MAGNUM-SERIES ANTENNA, 11.5 DBD LOW 3RD-ORDER PIM 700/800	DBSPECTRA PART#: DS7M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12P36U-D.pdf	DSDS7M12P36U-D	351	\$8,625.00
806-869MHZ, 12DBD GAIN, MAGNUM SERIES, LOW PIM, HI PIP ANT 7/16 DIN CO	DBSPECTRA# DS8M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12P36U-D.pdf	DSDS8M12P36U-D	351	\$8,625.00
806-869 MHZ, OFFSET ANTENNA, MAGNUM,12 DB GAIN, O-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS8M12P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12P36U3D.pdf	DSDS8M12P36U3D	351	\$9,315.00
764-805 MHZ, OFFSET ANTENNA, MAGNUM, 12 DB GAIN, BI-DIRECTIONAL H-PATT	DBSPECTRA PART#: DS7M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M12PH2U-D.pdf	DSDS7M12PH2U-D	351	\$8,274.00
MAGNUM H-PATTERN/12 DBD, 800 MHZ, -150 DBC THIRD ORDER PIM/HI-PIP	DBSPECTRA PART#: DS8M12PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M12PH2U-D.pdf	DSDS8M12PH2U-D	351	\$7,935.00
794-824 MHZ, OFFSET MAGNUM ANTENNA, A-PATTERN, 12.5 DBD GAIN, LOW-PIM/	DBSPECTRA PART#: DS7LM13PAU-D SPEC SHEET LINK: 794-824 MHz, Offset Magnum Antenna, A-Pattern, 12.5 dBd Gain, Low-PIM/HI-PIP, DIN	DSDS7LM13PAU-D	351	\$9,488.00
806-869 MHZ 16E BI-DIR MAGNUM ANT W/ 7/16 DIN CONNECTOR	DBSPECTRA PART#: DS8M14PH2U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M14PH2U-D.pdf	DSDS8M14PH2U-D	351	\$9,488.00
794-824MHZ MAGNUM ANT,13.5 DBD,OMNI LOW PIM, H-PATTERN	DBSPECTRA PART#: DS7LM14PHU-D SPEC SHEET LINK: 794-824 MHz, Single Magnum Antenna, 13.5 dBd Gain, H-Pattern, Low-PIM/HI-PIP, 7/16 DIN Female	DSDS7LM14PHU-D	351	\$9,976.00
764-805 MHZ, OFFSET ANTENNA,MAGNUM, 15 DB GAIN D-PATTERN, THIRD-ORDER	DBSPECTRA PART#: DS7M15PDUDU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7M15PDUDU-D.pdf	DSDS7M15PDUDU-D	351	\$10,339.00
806-869 MHZ, SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN,LOW-PIM/	DBSPECTRA PART#: DS8A10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8A10P36U-D.pdf	DSDS8A10P36U-D	351	\$4,244.00
806-869 MHZ, SINGLE MAGNUM ANTENNA, 10 DBD GAIN, H-PATTERN, LOW-PIM/HI	DBSPECTRA PART#: DS8M10PH3U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M10PH3U-D.pdf	DSDS8M10PH3U-D	351	\$6,825.00
806-869 MHZ, SINGLE MAGNUM ANTENNA, 10 DBD GAIN, H-PATTERN, LOW-PIM/HI	DBSPECTRA PART#: DS8M10PH3U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M10PH3U3D.pdf	DSDS8M10PH3U3D	351	\$7,257.00
806-869 MHZ, 800 MHZ OFFSET MAGNUM ANTENNA, H-PATTERN, 10 DBD GAIN, 2	DBSPECTRA PART#: DS8M10PH3U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS8M10PH3U2D.pdf	DSDS8M10PH3U2D	351	\$7,257.00

DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
ANTENNA,DUAL 3DBD,OMNI,LOW-PIM	DBSPECTRA PART#: DS7C03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36D-D.pdf	DSDS7C03P36D-D	351	\$3,163.00
764-869 MHZ, TRIPLE ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS7C03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36T-D.pdf	DSDS7C03P36T-D	351	\$3,623.00
764-869MHZ SINGLE 3DB GAIN OMNI WITH DIN CONNECTOR, LOW PIM AND PIP	DBSPECTRA PART#: DS7C03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C03P36U-D.pdf	DSDS7C03P36U-D	457	\$1,944.00
764-869 MHZ, DUAL OMNIDIRECTIONAL ANTENNA, 6 DBD GAIN, LOW PIM/HI-PIP,	DBSPECTRA PART#: DS7C06P36D2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D2D.pdf	DSDS7C06P36D2D	351	\$4,589.00
764-869 MHZ, 6 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP,	DBSPECTRA PART#: DS7C06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D6D.pdf	DSDS7C06P36D6D	351	\$4,589.00
DS7C06P36D-D, 764-869MHZ DUAL 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36D-D.pdf	DSDS7C06P36D-D	351	\$4,020.00
764-869MHZ, 5.9DB GAIN TRIPLE LOW PIM AND PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS7C06P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36T-D.pdf	DSDS7C06P36T-D	351	\$5,261.00
DS7C06P36U-D, 764-869MHZ SINGLE 6DB GAIN OMNI WITH DIN	DBSPECTRA PART#: DS7C06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U-D.pdf	DSDS7C06P36U-D	351	\$3,048.00
764-869MHZ, 6DBD OMNI DIRECTIONAL LOW PIM, PIP RATED WITH 2DT	DBSPECTRA PART#: DS7C06P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U2D.pdf	DSDS7C06P36U2D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 4 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U4D.pdf	DSDS7C06P36U4D	351	\$3,335.00
764-869MHZ 6DB GAIN OMNI ANTENNA WITH 6 DEGREE DOWNTILT, LOW PIM	DBSPECTRA PART#: DS7C06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C06P36U6D.pdf	DSDS7C06P36U6D	351	\$3,335.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPVU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU2D.pdf	DSDS7C08PPVU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPVU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPVU4D.pdf	DSDS7C08PPVU4D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C08PPYU2D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPYU2D.pdf	DSDS7C08PPYU2D	351	\$2,029.00
764-869 MHZ 8 DB GAIN 4' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C08PPYU4D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS7C08PPYU4D.pdf	DSDS7C08PPYU4D	351	\$2,029.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP,	DBSPECTRA PART#: DS7C09P36D2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D2D.pdf	DSDS7C09P36D2D	351	\$5,808.00
764-869 MHZ, 9 DBD GAIN, DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/HI-PIP,	DBSPECTRA PART#: DS7C09P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C09P36D6D.pdf	DSDS7C09P36D6D	351	\$5,808.00
764-869MHZ 10DB GAIN INVERTED ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP	DBSPECTRA PART#: DS7C10P3U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10P3U6D.pdf	DSDS7C10P3U6D	351	\$4,704.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, DIN	DBSPECTRA PART#: DS7C10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU-D.pdf	DSDS7C10PPVU-D	351	\$3,022.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C10PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU2D.pdf	DSDS7C10PPVU2D	351	\$3,326.00
764-869 MHZ 10 DB GAIN 8' PANEL LOW-PIM/PIP, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C10PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C10PPVU4D.pdf	DSDS7C10PPVU4D	351	\$3,326.00
764-869 MHZ, 11 DBD GAIN, 700/800 MHZ SINGLE DIRECTIONAL PANEL ANTENNA	DBSPECTRA PART#: DS7C11PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPTU-D.pdf	DSDS7C11PPTU-D	351	\$3,134.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C11PPYU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU2D.pdf	DSDS7C11PPYU2D	351	\$3,326.00
764-869 MHZ 11 DB GAIN 8' PANEL LOW-PIM/PIP, OFFSET, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C11PPYU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C11PPYU4D.pdf	DSDS7C11PPYU4D	351	\$3,326.00
764-869MHZ SINGLE 11.5DB GAIN SINGLE WITH DIN CONNECTOR,	DBSPECTRA PART#: DS7C12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36U-D.pdf	DSDS7C12P36U-D	351	\$4,830.00

764-869MHZ ANTENNA, OMNIDIRECTIONAL 11.5 DBD, LOW-PIM/PI-P, 2-DEG DT	DBSPECTRA PART#: DS7C12P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12P36UxUd.pdf	DSDS7C12P36U2D	351	\$5,175.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PI-P, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAUxUd.pdf	DSDS7C12PPAU2D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PI-P, DIN, 4-DEG DT	DBSPECTRA PARTS#: DS7C12PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAUxUd.pdf	DSDS7C12PPAU4D	351	\$2,919.00
764-869 MHZ 8 DB GAIN 4' PANEL ADJ GAIN, LOW-PIM/PI-P, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPAUxUd.pdf	DSDS7C12PPAU6D	351	\$2,919.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PI-P, BI-DIR, DIN, 2-DEG DT	DBSPECTRA PART#: DS7C12PPVU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxUd.pdf	DSDS7C12PPVU2D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PI-P, BI-DIR, DIN, 4-DEG DT	DBSPECTRA PART#: DS7C12PPVU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxUd.pdf	DSDS7C12PPVU4D	351	\$7,342.00
764-869 MHZ 12 DB GAIN 18' PANEL LOW-PIM/PI-P, BI-DIR, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C12PPVU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C12PPVUxUd.pdf	DSDS7C12PPVU6D	351	\$7,342.00
764-869 MHZ 13 DB GAIN 18' PANEL LOW-PIM/PI-P, DIN	DBSPECTRA PART#: DS7C13PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C13PPYUxUd.pdf	DSDS7C13PPYU-D	351	\$6,797.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 2 DG TILT	DBSPECTRA PART#: DS7C14PPTU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxUd.pdf	DSDS7C14PPTU2D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 4 DG TILT	DBSPECTRA PART#: DS7C14PPTU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxUd.pdf	DSDS7C14PPTU4D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 6 DG TILT	DBSPECTRA PART#: DS7C14PPTU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxUd.pdf	DSDS7C14PPTU6D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN 8 DG TILT	DBSPECTRA PART#: DS7C14PPTU8D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxUd.pdf	DSDS7C14PPTU8D	351	\$3,540.00
764-869 MHZ 120 DEGREE 14 DB GAIN PANEL DIN	DBSPECTRA PARTS#: DS7C14PPTU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C14PPTUxUd.pdf	DSDS7C14PPTU-D	351	\$3,278.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PI-P, DIN, 2-DEG DT	DBSPECTRA PARTS#: DS7C15PPAU2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxUd.pdf	DSDS7C15PPAU2D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PI-P, DIN, 4-DEG DT	DBSPECTRA PARTS#: DS7C15PPAU4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxUd.pdf	DSDS7C15PPAU4D	351	\$4,744.00
764-869 MHZ 15 DB GAIN 8' PANEL ADJ GAIN LOW-PIM/PI-P, DIN, 6-DEG DT	DBSPECTRA PARTS#: DS7C15PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C15PPAUxUd.pdf	DSDS7C15PPAU6D	351	\$4,744.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PI-P, DIN	DBSPECTRA PART#: DS7C17PPAU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAUxUd.pdf	DSDS7C17PPAU-D	351	\$9,639.00
764-869 MHZ 17 DB GAIN 18' PANEL ADJ GAIN LOW-PIM/PI-P, DIN, 6-DEG DT	DBSPECTRA PART#: DS7C17PPAU6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS7C17PPAUxUd.pdf	DSDS7C17PPAU6D	351	\$10,412.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749612012P	351	\$2,632.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749612015P	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-11-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749618011P	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-14-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP4749618014P	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-13-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP474966013P	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP474966015P	351	\$3,015.00
OMNI, CORPORATE COLLINER, 3DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-03-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80703P	351	\$2,563.00
OMNI, CORPORATE COLLINER, 6DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706P	351	\$3,051.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 3 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T3P	351	\$3,162.00
OMNI, CORP COLLINER, 6DBD, 746-870MHZ, 5 DEG DT PIM & 25KW PIP RATED	RFI PART#: CC807-06-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80706T5P	351	\$3,162.00
OMNI, CORPORATE COLLINER, 8DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-08-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708P	351	\$3,987.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T1P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T2P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T3P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T4P	351	\$4,140.00
OMNI, CORP COLLINER, 8DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-08-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80708T5P	351	\$4,140.00
OMNI, CORPORATE COLLINER, 9DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709P	351	\$4,531.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T2P	351	\$4,705.00
OMNI, CORP COLLINER, 9DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-09-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80709T4P	351	\$4,705.00
OMNI, CORPORATE COLLINER, 10.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-11-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711P	351	\$6,200.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 1DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T1-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T1P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 2DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T2-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T2P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 3DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T3P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T4P	351	\$6,633.00
OMNI, CORP COLLINER, 10.5DBD, 746-870MHZ, 5DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-11-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80711T5P	351	\$6,633.00
OMNI, CORPORATE COLLINER, 11.5DBD, 746-870MHZ, PIM & 25KW PIP RATED	RFI PART#: CC807-12-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712P	351	\$6,572.00
OMNI, CORP COLLINER, 11.5DBD, 746-870MHZ, 4DEG DT, PIM & 25KW PIP RATED	RFI PART#: CC807-12-T4-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC80712T4P	351	\$6,891.00
OMNI, MEANDER COLLINER, 0DBD, 746-806MHZ, PIM RATED	RFI PART#: COL81-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81806P	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 806-870MHZ, PIM RATED	RFI PART#: COL81-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81870P	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 850-930MHZ, PIM RATED	RFI PART#: COL81-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL81930P	351	\$795.00
OMNI, MEANDER COLLINER, 9DBD, 748-806MHZ, PIM RATED	RFI PART#: COL811-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811806P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 796-824MHZ, PIM RATED	RFI PART#: COL811-824-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811824P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 806-870MHZ, PIM RATED	RFI PART#: COL811-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811870P	351	\$1,045.00
OMNI, MEANDER COLLINER, 9DBD, 850-930MHZ, PIM RATED	RFI PART#: COL811-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811930P	351	\$1,045.00
OMNI, MEANDER COLLINER, 5DBD, 746-806MHZ, PIM RATED	RFI PART#: COL84-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84806P	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 806-870MHZ, PIM RATED	RFI PART#: COL84-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84870P	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 850-930MHZ, PIM RATED	RFI PART#: COL84-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL84930P	351	\$845.00
OMNI, MEANDER COLLINER, 7DBD, 748-806MHZ, PIM RATED	RFI PART#: COL85-806-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85806P	351	\$899.00
OMNI, MEANDER COLLINER, 7DBD, 806-870MHZ, PIM RATED	RFI PART#: COL85-870-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85870P	351	\$899.00
OMNI, MEANDER COLLINER, 7DBD, 850-930MHZ, PIM RATED	RFI PART#: COL85-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL85930P	351	\$899.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBP4749612015	351	\$3,015.00

PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS INCLUDED SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS INCLUDED SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS INCLUDED SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS INCLUDED SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, MEANDER COLLINER, 9DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL811-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811870	351	\$1,045.00
OMNI, MEANDER COLLINER, 9 DBD, 850-930 MHZ, PIM RATED	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf https://www.rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811930	351	\$1,045.00
OMNI, MEANDER COLLINER, 0DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL81-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81870	351	\$795.00
OMNI, MEANDER COLLINER, 0DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL81-930 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL81930	351	\$795.00
OMNI, MEANDER COLLINER, 5DBD, 806-870MHZ, PIM RATED, 7/16 DIN	RFI# COL84-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84870	351	\$845.00
OMNI, MEANDER COLLINER, 5DBD, 850-930MHZ, PIM RATED, 7/16 DIN	RFI# COL84-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2017/08/COL81-84-41248-9.pdf	DSCOL84930	351	\$845.00
OMNI, MEANDER COLLINER, 7 DBD, 806-870 MHZ, PIM RATED	RFI# COL85-870 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL85870	351	\$899.00
OMNI, MEANDER COLLINER, 7 DBD, 850-930 MHZ, PIM RATED	RFI# COL85-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://www.rfi-motorola.com/wp-content/uploads/2015/02/COL85-811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL85930	351	\$899.00
YAGI 3 ELEMENT, 6DBD, 540-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
YAGI, 11 DBD, 746-896 MHZ N-FEMALE	RFI PART#: YW09-7489 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/YW09-7489_41135-1_US_Released-7-March-13.pdf	DSYW097489	351	\$288.00
YAGI, 13DBD, 698-890MHZ, N FEMALE	RFI PART#: YW15-6989 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/05/YW15-6989-US-Updated-Spec-Sheet.pdf	DSYW156989	351	\$310.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
PIPE TO PIPE CLAMP, 2.5" TO 4.5" PIPE, 1 CLAMP	RFI PART#: UC-114 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC13	351	\$205.00
PIPE TO PIPE CLAMP KIT, 2.5" TO 4.5" PIPE, 2 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$90.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfiwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12 SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612012	351	\$2,632.00
ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-12	DSUC12	351	\$137.00

800 MHz CONTROL STATION ANTENNAS

STI-CO TRI BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N -FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,374.00
ALIVE TELECOM PARTS				
COLLINEAR OMNI ANTENNA, 746-869 MHZ, 3DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATCG7V40D7	351	\$2,530.00
OMNI ANTENNA, COLLINER ARRAY, 746-870 MHZ, 3 DBD, 7-16 DIN FEMALE	ALIVE PART#: ATC-GC7V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATCG7V20D7	351	\$633.00
DIRECTIONAL DIPOLE ANTENNA, SINGLE DIPOLE, LOW PIM, PIP RATED, N FEMAL	ALIVE PART#: ATC-GD7VC-NF NOTE: Mount Part Number DSPLMTKIT Required, ordered separately	DSATCGD7VCNF	351	\$380.00
PANEL ANTENNA, 746-870 MHZ, 7 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-WPI78 SPEC SHEET LINK: https://www.alivetele.com/wp-content/uploads/ATC-WPI78.pdf	DSATWPI78	351	\$805.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, 800-870 MHZ	AMPHENOL PART#: CXL 800-1. Order brackets separately. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/523-cx-800-1	DSCXL8001	351	\$162.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cx-900-1lw?generate=1	DSCXL9001LWH	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/l. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cx-900-1lw	DSCXL9001LWL	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-950 MHZ	AMPHENOL PART#: CXL 900-1LW/m. BRACKETS INCLUDED SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cx-900-1lw	DSCXL9001LWM	351	\$187.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
800 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS8A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS8A03CS36UN	351	\$1,006.00
700 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA PART#: DS7B03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS7B03CS36UN	351	\$1,029.00
806-869 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS8A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS8A03CS36DN	351	\$1,938.00
806-869 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS8A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B00CS36DN_DS8A00CS36DN_DS9A00CS36DN.pdf	DSDS8A00CS36DN	351	\$1,093.00
CONTROL STATION ANT 806MHZ-869MHZ	DBSPECTRA PART#: DS8A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A00CS36UN_DS8A03CS36UN_DS9A00CS36UN_DS9A03CS36UN.pdf	DSDS8A00CS36UN	351	\$794.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 763-870 MHZ	RFI# COD8-7687 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD87687	351	\$530.00
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 190 DEG BW, 746-870 MHZ, PIM RATED	RFI# SMD7-83-U CLAMPS INCLUDED SPEC SHEET LINK: https://www.rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-4-67.pdf	DSMSD783U	351	\$230.00

900 MHz Antennas

**AMPHENOL PROCOM PARTS
 DBSPECTRA MAGNUM ANTENNAS**

Description	Full Description	Nomenclature	APC	Price
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10DB 900/OMNI MAGNUM ANTENNA	DBSPECTRA# DS9M10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9M10P36Ux.pdf	DSDS9M10P36U	351	\$6,979.00
12DB 900/OMNI MAGNUM ANTENNA	DBSPECTRA# DS9M12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9M12P36Ux.pdf	DSDS9M12P36U	351	\$8,625.00

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
890-960MHZ ANTENNA, OMNIDIRECTIONAL 3DBD SINGLE, LOW-PIM/HI-PIP, 4.3-1	DBSPECTRA PART#: DS9A03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A03P36Ux.pdf	DSDS9A03P36UM	351	\$1,605.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,4.3-1	DBSPECTRA PART#: DS9A06P36U3M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36U3x.pdf	DSDS9A06P36U3M	351	\$3,335.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,4.3-1	DBSPECTRA PART#: DS9A06P36U6M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36U6x.pdf	DSDS9A06P36U6M	351	\$3,335.00
890-960 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS9A06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36Ux.pdf	DSDS9A06P36UM	351	\$2,639.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP, 4.3-1	DBSPECTRA PART#: DS9A06P36UM SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36Ux.pdf	DSDS9A06P36UM	351	\$3,335.00
890-960 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS9A09P36U2M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36U2x.pdf	DSDS9A09P36U2M	351	\$4,301.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/HI-PIP, 4.3-	DBSPECTRA PART#: DS9A09P36U4M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36U4x.pdf	DSDS9A09P36U4M	351	\$4,301.00
890-960 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/HI-PI	DBSPECTRA PART#: DS9A09P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36Ux.pdf	DSDS9A09P36UM	351	\$4,014.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-PIP, 4.3	DBSPECTRA PART#: DS9A10P36U3M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10P36U3x.pdf	DSDS9A10P36U3M	351	\$4,531.00
890-960 MHZ, SINGLE ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS9A10P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10P36Ux.pdf	DSDS9A10P36UM	351	\$4,830.00
890-960MHZ, ANTENNA, OMNIDIRECTIONAL, 12 DB GAIN, LOW-PIM/HI-PIP, 4.3-	DBSPECTRA PART#: DS9A12P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A12P36U-D.pdf	DSDS9A12P36UM	351	\$4,830.00

DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
890-960MHZ, 3DBD GAIN DUAL OMNI ANT, LOW PIM, HI PIP RATED ANT	DBSPECTRA PART#: DS9A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A03P36Dx.pdf	DSDS9A03P36DD	351	\$3,163.00
890-960MHZ, 3DBD GAIN SINGLE OMNI ANT, LOW PIM, HI PIP RATED ANT	DBSPECTRA PART#: DS9A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A03P36Ux.pdf	DSDS9A03P36UD	351	\$1,605.00
ANTENNA,DUAL,6DBD,LOW PIM/DIN	DBSPECTRA PART#: DS9A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36Dx.pdf	DSDS9A06P36DD	351	\$4,244.00
890-960MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 3 DEG DT	DBSPECTRA PART#: DS9A06P36D3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36D3x.pdf	DSDS9A06P36D3D	351	\$4,589.00
890-960MHZ, 6DB GAIN DUAL FEED ANTENNA W/ 6 D TILT, LOW PIM & PIP RATED	DBSPECTRA PART#: DS9A06P36D6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36D6x.pdf	DSDS9A06P36D6D	351	\$4,589.00
890-960MHZ,5.8 DB GAIN SINGLEFEED OMNI	DBSPECTRA PART#: DS9A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36Ux.pdf	DSDS9A06P36UD	351	\$2,639.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,DIN,	DBSPECTRA PART#: DS9A06P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36U3x.pdf	DSDS9A06P36U3D	351	\$3,335.00
890-960MHZ, 6DB GAIN SINGLE FEED ANTENNA W/6DT LOW PIM & PIP RATED	DBSPECTRA PART#: DS9A06P36U6D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36U6x.pdf	DSDS9A06P36U6D	351	\$3,335.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,DIN,	DBSPECTRA PART#: DS9A06P36UxD SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36Ux.pdf	DSDS9A06P36UxD	351	\$3,335.00
890-960MHZ TRIPLE FEED, 6DB GAIN WITH 3DT, 7/16 DIN CONNECTOR	DBSPECTRA PART#: DS9A06P36T3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A06P36T3x.pdf	DSDS9A06P36T3D	351	\$5,078.00
890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI-PIP, DI	DBSPECTRA PART#: DS9A08PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A08PPVUx.pdf	DSDS9A08PPVUD	351	\$1,815.00
890-960 MHZ, ANTENNA, SLIMLINE, 8DB GAIN, 4' PANEL, LOW-PIM/HI-PIP, DI	DBSPECTRA PART#: DS9A08PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A08PPYUx.pdf	DSDS9A08PPYUD	351	\$1,815.00
890-960MHZ, 9DB GAIN OMNI ANTENNA W/ 2 DEG DT, LOW PIM, HIGH PIP,	DBSPECTRA PART#: DS9A09P36U2D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36U2x.pdf	DSDS9A09P36U2D	351	\$4,301.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/HI-PIP, DIN,	DBSPECTRA PART#: DS9A09P36U4D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36U4x.pdf	DSDS9A09P36U4D	351	\$4,301.00
890-960MHZ, 9DBD GAIN OMNI, LOW PIM, HI PIP RATED ANTENNA WITH 7/16	DBSPECTRA PART#: DS9A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A09P36Ux.pdf	DSDS9A09P36UD	351	\$4,014.00
LOW PIM/ PIP RATED, 9.5DB GAIN OMNI FIBERGLASS ANTENNA,	DBSPECTRA PART#: DS9A10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10P36Ux.pdf	DSDS9A10P36UD	351	\$4,830.00
890-960 MHZ, ANTENNA, OMNIDIRECTIONAL, 10 DB GAIN, LOW-PIM/HI-PIP, DIN	DBSPECTRA PART#: DS9A10P36U3D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10P36U3x.pdf	DSDS9A10P36U3D	351	\$4,531.00
890-960 MHZ, ANTENNA, SLIMLINE, 10DB GAIN, 8' PANEL, LOW-PIM/HI-PIP, D	DBSPECTRA PART#: DS9A10PPVU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A10PPVUx.pdf	DSDS9A10PPVUD	351	\$3,022.00
890-960 MHZ, ANTENNA, SLIMLINE, 11 DB GAIN, 8' PANEL, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS9A11PPYU-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A11PPYUx.pdf	DSDS9A11PPYUD	351	\$3,022.00
890-960MHZ OMNIDIRECTIONAL, LOW PIM, 11.5DB GAIN DIN	DBSPECTRA# DS9A12P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A12P36U-D.pdf	DSDS9A12P36UD	351	\$4,830.00
890-960MHZ SINGLE-BAND PANEL ANTENNA, 120 DEGREE, 11.7 DBD,	DBSPECTRA PART#: DS9A12PP12SD SPEC SHEET LINK: www.dbspectra.com/specifications/DS9A12PP12SD.pdf	DSDS9A12PP12SD	351	\$5,031.00
896-941 MHZ, X-POLE DIRECTIONAL PANEL ANTENNA, 14 DBD GAIN, LOW-PIM/HI	DBSPECTRA PART#: DS9B14PP6X-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS9B14PP6Xx.pdf	DSDS9B14PP6XD	351	\$2,271.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 10DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-12-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP749612012P	351	\$2,632.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-120-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP749612015P	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-11-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP749618011P	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-180-14-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP749618014P	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-13-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP74966013P	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART#: BPA7496-60-15-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSBP74966015P	351	\$3,015.00
OMNI, MEANDER COLLINER, 9DBD, 850-930MHZ, PIM RATED	RFI PART#: COL811-930-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL811930P	351	\$1,045.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
PANEL ANTENNA, 13DBD, 746-960MHZ, 120DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-120-15 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749612015	351	\$3,015.00
PANEL ANTENNA, 9DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-11 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-12.pdf	DSBPA749618011	351	\$2,632.00
PANEL ANTENNA, 12DBD, 746-960MHZ, 180DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-180-14 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA749618014	351	\$3,015.00
PANEL ANTENNA, 11DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-13 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966013	351	\$2,360.00
PANEL ANTENNA, 13DBD, 746-960MHZ, 60DEG, PIM & 25KW PIP RATED	RFI PART # - BPA7496-60-15 CLAMPS NOT INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2017/08/BPA7496-15.pdf	DSBPA74966015	351	\$3,015.00
OMNI, MEANDER COLLINER, 9 DBD, 850-930 MHZ, PIM RATED	RFI PART # - COL811-930 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL811_Series_US_41528-1_Released-13-Sept-131.pdf	DSCOL811930	351	\$1,045.00
YAGI ARRAY HORIZ STACK, VERT POL, 16 DBD, 890-960MHZ, WITH CLAMPS & BR	RFI PART NUMBER#: YBA820-94BK SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi700800/YB800/P-40809-17%20YB815%20Series.pdf	DSYBA82094BK	351	\$1,441.00
YAGI 3 ELEMENT, 6DBD, 500-1000MHZ, CUSTOM TUNED, 5%BW	RFI PART#: YB803-99 SPEC SHEET LINK: http://www.rfiwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi700800/YB800/YB803_82-YB803-99.pdf	DSYB80399	351	\$298.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
PIPE TO PIPE CLAMP, 2.5" TO 4.5" PIPE, 1 CLAMP	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP KIT, 2.5" TO 4.5" PIPE, 2 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00

ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$90.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00

900 MHz CONTROL STATION ANTENNAS

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 824-894 MHZ	AMPHENOL PART#: CXL 900-1LW/L BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWL	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 870-950 MHZ	AMPHENOL PART#: CXL 900-1LW/m BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWM	351	\$187.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 890-960 MHZ	AMPHENOL PART#: CXL 900-1LW/h Brackets included. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/539-cxl-900-1lw	DSCXL9001LWH	351	\$187.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
900 CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DSA03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_SP7C00CS36UN_SP7C03CS36UN.pdf	DSDS9A03CS36UN	351	\$1,006.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS9A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A03CS36DN_DS9A03CS36DN.pdf	DSDS9A03CS36DN	351	\$1,938.00
890-960 MHZ, DUAL CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS9A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36DN_DS8A00CS36DN_DS9A00CS36DN.pdf	DSDS9A00CS36DN	351	\$1,093.00
890-960MHZ UNITY GAIN CONTROL STATION ANTENNA	DBSPECTRA PART#: DS9A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS7B03CS36UN_DS8A03CS36UN_DS9A03CS36UN_DS9A00CS36UN_DS9A03CS36UN.pdf	DSDS9A00CS36UN	351	\$794.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 850-960 MHZ	RFI# COD8-8596 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/07/COD8-Series-P-43210-3.pdf	DSCOD88596	351	\$530.00

Mini Mag (TM) Antennas

Description	Full Description	Nomenclature	APC	Price
ANTENNA 800MHZ MINI MAGNET BLACK	824-895 MHz, Mini-UHF Connector, Black	RAF4036AMM	554	\$50.75

Antennas Parts

Models

Description	Full Description	Nomenclature	APC	Price
ANT TRANSIT DOME 148-160 MHZ	Antenna and Cable Kit. Power 150 Watts Max. Gain: Unity, VSWR: 1.5:1, Impedance: 50 Ohms, nominal	RRA4455	554	\$137.00

Antenna Option

Description	Full Description	Nomenclature	APC	Price
ANT TNK MT	Trunk lp mount, Mini UHF, 17 ft. cable.	0180355A88	554	\$34.25

UHF Band Antennas

ALIVE TELECOM PARTS

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS
DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
380-410MHZ OMNIDIRECTIONAL 2.9 DBD GAIN, LOW-PIM, DAS RATED ANTENNA	DBSPECTRA PART#: DS3A03L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03L36U-D.pdf	DSDS3A03L36UD	351	\$1,640.00
380-410 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS3A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36D-D.pdf	DSDS3A03P36DD	351	\$3,433.00
380-410 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	DBSPECTRA PART#: DS3A03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36T-D.pdf	DSDS3A03P36TD	351	\$3,939.00
3 DB GAIN TRIPLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36TD-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36TD-D.pdf	DSDS3A03P36TDD	351	\$4,399.00
ANTENNA - 380-410MHZ, 3DB GAIN SINGLE OMNI, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UD	351	\$1,833.00
3 DB GAIN SINGLE DUAL ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36D-D.pdf	DSDS3A03P36DD	351	\$3,663.00
3 DB GAIN SINGLE OMNI ANTENNA (380-410 MHZ) WITH SIX DEGREES	DBSPECTRA PART#: DS3A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03P36U-D.pdf	DSDS3A03P36UD	351	\$2,006.00
380-410MHZ, 6DB GAIN DUAL FEED OMNI DIRECTIONAL, LOW PIM, HI PIP RATED	DBSPECTRA PART#: DS3A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36D-D.pdf	DSDS3A06P36DD	351	\$4,253.00
SINGLE 6 DB GAIN OMNI , 380-410 MHZ, DIN CONNECTOR PIM & PIP RATED	DBSPECTRA PART#: DS3A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UD	351	\$3,128.00
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS3A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A06P36U-D.pdf	DSDS3A06P36UD	351	\$3,191.00
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, LOW PIM/HI-PIP, DIN	MSI PART#: DS3A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UD	351	\$5,031.00
380-410 MHZ, 9 DBD GAIN, UHF SINGLE OMNI ANTENNA, 3 DEGREE DOWN TILT,	MSI PART#: DS3A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A09P36U-D.pdf	DSDS3A09P36UD	351	\$5,319.00
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS,	DBSPECTRA PART#: DS3X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00L36U-D.pdf	DSDS3X00L36UD	351	\$1,121.00
380-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS3X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00P36U-D.pdf	DSDS3X00P36UD	351	\$1,317.00
406-430 MHZ, UHF DUAL ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI-P	DBSPECTRA PART#: DS4A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36D-D.pdf	DSDS4A03P36DD	351	\$3,433.00
UHF DUAL ANTENNA, OMNI, LOW PIM, HI-PIP, 3DB, BEAM TILT 6 DEG	DBSPECTRA PART#: DS4A03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36D-D.pdf	DSDS4A03P36DD	351	\$3,664.00
406-436 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS4A03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36U-D.pdf	DSDS4A03P36UD	351	\$1,833.00
406-430 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	DBSPECTRA PART#: DS4A03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A03P36T-D.pdf	DSDS4A03P36TD	351	\$4,135.00
406-420MHZ DUAL FEED OMNI ANTENNA,5.9DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36D-D.pdf	DSDS4A06P36DD	351	\$4,485.00
406-420MHZ OMNI ANTENNA, 6DB,LOW-PIM, HI PIP,7/16 DIN	DBSPECTRA PART#: DS4A06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A06P36U-D.pdf	DSDS4A06P36UD	351	\$2,615.00
380-410 MHZ, UHF SINGLE ANTENNA, OMNIDIRECTIONAL, 9 DB GAIN, LOW-PIM/H	DBSPECTRA PART#: DS4A09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4A09P36U-D.pdf	DSDS4A09P36UD	351	\$5,031.00
425-455 MHZ, UHF SINGLE OMNI DIRECTIONAL ANTENNA, 5.9 DBD, LOW-PIM/HI-	DBSPECTRA PART#: DS4B06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4B06P36U-D.pdf	DSDS4B06P36UD	351	\$3,128.00
480-512 MHZ,3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36D-D.pdf	DSDS4D03P36DD	351	\$3,433.00
480-512 MHZ,3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEGREE D	MSI PART#: DS4D03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D03P36U-D.pdf	DSDS4D03P36UD	351	\$1,833.00

480-512MHZ 6DB GAIN DUAL FEED OMNI ANT, LOW PIM, HI PIP ANT	DBSPECTRA PART#: DS4D06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36DxD.pdf	DS4D06P36DD	351	\$4,253.00
480-512 MHZ, 6 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA,	MSI PART#: DS4D06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4D06P36UxD.pdf	DS4D06P36UD	351	\$2,904.00
406-512MHZ, 6DB GAIN DIRECTIONAL PANEL ANTENNA, DIN	MSI PART#: DS4E06P18U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E06P18U-D.pdf	DS4E06P18UD	351	\$2,279.00
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 8 DBD , 7/16 DIN	DBSPECTRA# DS4E08P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E08P12U-D.pdf	DS4E08P12UD	351	\$2,361.00
406-512MHZ, DIRECTIONAL PANEL ANTENNA, 120 DEG, 10 DBD , 7/16 DIN	DBSPECTRA# DS4E10P12U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4E10P12U-D.pdf	DS4E10P12UD	351	\$2,979.00
450-470 MHZ, UNITY GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA, 0 DEG DT	DBSPECTRA PART#: DS4F00P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F00P36DxD.pdf	DS4F00P36DD	351	\$2,455.00
450-470 MHZ, 3 DBD GAIN, UHF DUAL OMNIDIRECTIONAL ANTENNA, LOW PIM/	DBSPECTRA PART#: DS4F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36D-D.pdf	DS4F03P36DD	351	\$3,663.00
DS4F03P36D-D: DUAL,3DB GAIN LOW PIM,PIP,DIN	DBSPECTRA# DS4F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36D-D.pdf	DS4F03P36DD	351	\$3,433.00
OMNI,3DB GAIN LOW PIM,DIN, 450-470 MHZ	DBSPECTRA# DS4F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DS4F03P36UD	351	\$2,134.00
450-470 MHZ, UHF TRIPLE ANTENNA, OMNIDIRECTIONAL, 3DB GAIN, LOW-PIM/HI	MSI PART#: DS4F03P36T-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36TxD.pdf	DS4F03P36TD	351	\$3,939.00
450-470 MHZ, 3 DBD GAIN, UHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/	DBSPECTRA PART#: DS4F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F03P36U-D.pdf	DS4F03P36UD	351	\$2,329.00
450-470MHZ DUAL FEED 5.9DB GAIN, LOW-PIM, PIP RATED ANT, DIN	DBSPECTRA# DS4F06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36D-(ID-D).pdf	DS4F06P36DD	351	\$4,169.00
ANTENNA,6DBD OMNI,LOW-PIM,DIN 450-470 MHZ	DBSPECTRA# DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-(IU-D).pdf	DS4F06P36UD	351	\$2,904.00
450-470MHZ 6DB GAIN ANTENNA, OMNIDIRECTIONAL, LOW-PIM/HI-PIP, 6 DEG D	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-(IU-D).pdf	DS4F06P36UD	351	\$3,191.00
450-470MHZ, DUAL FEED OMNI, INVERTED, 6DB GAIN, LOW PIM,HI PIP, 7/16 D	DBSPECTRA# DS4F06P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36D-(ID-D).pdf	DS4F06P36DD	351	\$4,554.00
450-470 MHZ, UHF INVERTED ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN LOW-PIM/	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-(IU-D).pdf	DS4F06P36UD	351	\$3,076.00
450-470MHZ 6DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP 3 DEG DT	DBSPECTRA PART#: DS4F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F06P36U-(IU-D).pdf	DS4F06P36UD	351	\$3,191.00
450-470 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, 8 DB GAIN,LOW-PIM/HI-PIP, D	DBSPECTRA PART#: DS4F08P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F08P36UxD.pdf	DS4F08P36UD	351	\$4,111.00
450-470MHZ, SINGLE FEED OMNI ,9DB GAIN, LOW PIM,HI PIP, 7/16 DIN	DBSPECTRA# DS4F09P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F09P36UxD.pdf	DS4F09P36UD	351	\$4,203.00
450-470 MHZ, UHF SINGLE OMNIDIRECTIONAL ANTENNA, 10 DBD GAIN, LOW PIM/	DBSPECTRA PART#: DS4F10P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4F10P36UxD.pdf	DS4F10P36UD	351	\$5,003.00
ANT 450-512MHZ, 5.8DB GAIN DIRECTIONAL PANEL, LOW-PIM/HI-PIP W DIN CON	MSI PART#: DS4K06PP18UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K06PP18UD.pdf	DS4K06PP18UD	351	\$2,616.00
ANTENNA, YAGI, 450-512 MHZ	DBSPECTRA# DS4K07Y85U-N SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K07Y85U-N.pdf	DS4K07Y85UN	351	\$518.00
450-512 MHZ,UHF ANTENNA-DIRECTIONAL PANEL, LOW PIM/HI-PIP, 9.7 DB GAIN	DBSPECTRA PART#: DS4K10PP65UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS4K10PP65UD.pdf	DS4K10PP65UD	351	\$3,105.00
UHF DUAL ANTENNA, LOW-PIM, HI-PIP, 0 DBD UNITY GAIN, 470-512MHZ	DBSPECTRA PART#: DS4T00P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4T00P36DxD.pdf	DS4T00P36DD	351	\$2,013.00
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LIGHT/DAS, LOW-	DBSPECTRA PART#: DS4X00L36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00L36UxD.pdf	DS4X00L36UD	351	\$1,121.00
450-512 MHZ, UHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS4X00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS4X00P36UxD.pdf	DS4X00P36UD	351	\$1,317.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, PIM RATED	RFI PART#: BA160-67-P SPEC SHEET LINK: TBD	DSBA16067P	351	\$6,220.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: BA160-67-T3-P SPEC SHEET LINK: TBD	DSBA16067T3P	351	\$6,220.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: BA160-67-T8-P SPEC SHEET LINK: TBD	DSBA16067T8P	351	\$6,549.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 330-420 MHZ, PIM RATED	RFI PART#: BA40-57-P SPEC SHEET LINK: TBD	DSBA4057P	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 400-520 MHZ, PIM RATED	RFI PART#: BA40-67-P SPEC SHEET LINK: TBD	DSBA4067P	351	\$2,158.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 330-420MHZ, PIM RATED	RFI PART#: BA4040-57-P SPEC SHEET LINK: TBD	DSBA404057P	351	\$3,240.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 400-520MHZ, PIM RATED	RFI PART#: BA4040-67-P SPEC SHEET LINK: TBD	DSBA404067P	351	\$3,240.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 330-420MHZ, PIM RATED	RFI PART#: BA80-57-P SPEC SHEET LINK: TBD	DSBA8057P	351	\$3,048.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 400-520MHZ, PIM RATED	RFI PART#: BA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8067P	351	\$2,919.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: BA80-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8067T3P	351	\$2,919.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, PIM RATED	RFI PART#: BA8080-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA808067P	351	\$5,458.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3D DT, PIM RATE	RFI PART#: BA8080-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA808067T3P	351	\$5,458.00
UHF PANEL ANTENNA 380-430MHZ, 12DBD, 65DEG, PIM RATED	RFI PART#: BPA3843-65-14-P CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-14-P-42181-1.pdf	DSBPA38436514P	351	\$2,724.00
UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	RFI PART#: BPA3843-65-8-P CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8-P-42286-3.pdf	DSBPA3843658P	351	\$1,743.00
OMNI, CORPORATE COLLINER, 6DBD, 380-430MHZ, PIM RATED	RFI PART#: CC380-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC38006P	351	\$3,386.00
OMNI, DUAL CORPORATE COLLINER, 2 X 3DBD, 380-420MHZ, PIM RATED	RFI PART#: CC380-33-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC38033P	351	\$3,457.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, PIM RATED	RFI PART#: CC450-06-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45006P	351	\$2,743.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, 3 DEG DT, PIM RATED	RFI PART#: CC450-06-T6-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45006T6P	351	\$2,880.00
OMNI, CORPORATE COLLINER, 6DBD, 450-520MHZ, 6 DEG DT, PIM RATED	RFI PART#: CC450-09-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009P	351	\$3,864.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, 3DEG DT, PIM RATED	RFI PART#: CC450-09-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009T3P	351	\$3,942.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, 6DEG DT, PIM RATED	RFI PART#: CC450-09-T6-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCC45009T6P	351	\$3,942.00
OMNI, MEANDER COLLINER, 0DBD, 380-400MHZ, PIM RATED	RFI PART#: COL41-58-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4158P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 400-420MHZ, PIM RATED	RFI PART#: COL41-65-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4165P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 450-470MHZ, PIM RATED	RFI PART#: COL41-70-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4170P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 470-490MHZ, PIM RATED	RFI PART#: COL41-71-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4171P	351	\$1,125.00
OMNI, MEANDER COLLINER, 0DBD, 490-520MHZ, PIM RATED	RFI PART#: COL41-72-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL4172P	351	\$1,125.00
OMNI, MEANDER COLLINER, 9DBD, 380-400MHZ, PIM RATED	RFI PART#: COL410-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410400P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 400-420MHZ, PIM RATED	RFI PART#: COL410-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410420P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 410-430MHZ, PIM RATED	RFI PART#: COL410-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410430P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 450-470MHZ, PIM RATED	RFI PART#: COL410-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410470P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 470-490MHZ, PIM RATED	RFI PART#: COL410-490-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410490P	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 490-520MHZ, PIM RATED	RFI PART#: COL410-520-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL410520P	351	\$2,018.00
OMNI, MEANDER COLLINER, 5DBD, 380-400MHZ, PIM RATED	RFI PART#: COL43-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43400P	351	\$852.00
OMNI, MEANDER COLLINER, 5DBD, 400-420MHZ, PIM RATED	RFI PART#: COL43-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43420P	351	\$852.00

OMNI, MEANDER COLLINER, 5DBD, 410-430MHZ, PIM RATED	RFI PART#: COL43-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC12 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43430P	351	\$852.00
OMNI, MEANDER COLLINER, 5DBD, 450-470MHZ, PIM RATED	RFI PART#: COL43-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43470P	351	\$852.00
OMNI, MEANDER COLLINER, 5 DBD, 490-520MHZ, PIM RATED	RFI PART#: COL43-520-PCLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL43520P	351	\$852.00
OMNI, MEANDER COLLINER, 7DBD, 380-400MHZ, PIM RATED	RFI PART#: COL45-400-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45400P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 400-420MHZ, PIM RATED	RFI PART#: COL45-420-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45420P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 410-430MHZ, PIM RATED	RFI PART#: COL45-430-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45430P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 450-470MHZ, PIM RATED	RFI PART#: COL45-470-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45470P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 470-490MHZ, PIM RATED	RFI PART#: COL45-490-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45490P	351	\$1,165.00
OMNI, MEANDER COLLINER, 7DBD, 490-520MHZ, PIM RATED	RFI PART#: COL45-520-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL45520P	351	\$1,165.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 64DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA10-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA1067P	351	\$1,541.00
DIRECTIONAL DIPOLE ARRAY, 9DBD, 71DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA20-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA2067P	351	\$2,908.00
DIRECTIONAL DIPOLE ARRAY, 11DBD, 60DEG BW, 406-512MHZ, PIM RATED	RFI PART#: CSA40-67-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA4067P	351	\$3,952.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5DBD, 400-520MHZ, PIM RATED	RFI PART#: EA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA4067P	351	\$2,200.00
ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 400-520MHZ, PIM RATED	RFI PART#: EA400-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA40067P	351	\$2,760.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 400-520MHZ, PIM RATED	RFI PART#: EA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8067P	351	\$2,681.00
DIRECTIONAL DIPOLE ARRAY, 5DBD, 121DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA10-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA1067P	351	\$1,117.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 132DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA20-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA2067P	351	\$2,355.00
DIRECTIONAL DIPOLE ARRAY, 9DBD, 135DEG BW, 406-512MHZ, PIM RATED	RFI PART#: FSA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA4067P	351	\$3,093.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	RFI PART#: IA04040-41-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSIA040404167P	351	\$8,865.00
OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 330-420MHZ, PIM RATED	RFI PART#: OA20-57-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2057P	351	\$1,552.00
OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 400-520MHZ, PIM RATED	RFI PART#: OA20-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2067P	351	\$1,551.00
OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 400-520, PIM RATED	RFI PART#: OA2020-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA202067P	351	\$2,570.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 330-420MHZ, PIM RATED	RFI PART#: OA40-57-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4057P	351	\$2,127.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, PIM RATED	RFI PART#: OA40-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067P	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: OA40-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067T3P	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 5DEG DT, PIM RATED	RFI PART#: OA40-67-T5-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4067T5P	351	\$2,108.00
OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2X9DBD, 400-520MHZ, PIM RATED	RFI PART#: OA400-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA40067P	351	\$3,797.00
OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, PIM RATED	RFI PART#: OA80-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA8067P	351	\$4,451.00
OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI PART#: OA80-67-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA8067T3P	351	\$4,451.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI PART#: BA160-67-DIN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf It is important to be certain that this file is from a trustworthy source. Would you like to open this file? ----- OK Cancel -----	DSBA16067DIN	351	\$6,219.00
OMNI, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, 3 DEG DT, PIM RATED	RFI#BA160-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA16067DINT3	351	\$6,220.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 330-420MHZ, PIM RATED	RFI PART#: BA400-67-DIN SPEC SHEET LINK: TBD	DSBA40067DIN	351	\$3,240.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3 DBD, 400-520 MHZ, PIM RATED	RFI#BA400-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/Sales-Aid-400-520MHz2.pdf	DSBA40067DIN	351	\$3,240.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 330-420 MHZ, PIM RATED	RFI#BA40-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA4057DIN	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 400-520 MHZ, PIM RATED	RFI# BA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA4067DIN	351	\$2,158.00
OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 330-420 MHZ, PIM RATED	RFI# BA80-57-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-8_BA_Series-UHF-330-420-MHz-40.pdf	DSBA8057DIN	351	\$3,048.00
OMNI, EXPOSED DIPOLE ARRAY, 6 DBD, 400-520 MHZ, PIM RATED	RFI# BA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DIN	351	\$2,918.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520MHZ, 3DEG DT, PIM RA	RFI# BA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA8067DINT3	351	\$2,919.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 6DBD, 400-520 MHZ, PIM RATED	RFI# BA8080-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA808067DIN	351	\$5,458.00
ANTENNA-DUAL, OMNI EXPOSED DIPOLE 400-520MHZ 3 DEG DT 6/6 DBD	RFI# BA8080-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-2_ba-series_uhf-40.pdf	DSBA808067DINT3	351	\$5,458.00
OMNI, CORPORATE COLLINER, 6DBD, 380-430MHZ, PIM RATED	RFI# CC380-06 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/P-42438-4-CC-380-Series.pdf	DSCC38006	351	\$3,386.00
OMNI DUALCORPORATE COLLINER 2X3 DBD, 380-420MHZ PIM RATED	RFI# CC380-33 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC380_US_41334-3_Released-30-April-131.pdf	DSCC38033	351	\$3,457.00
OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATED	RFI# CC450-06 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006	351	\$2,743.00
ANTENNA SYSTEM,OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATE	RFI# CC450-06-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T3	351	\$2,880.00
ANTENNA SYSTEM,OMNI, CORPORATE COLLINER, 5 DBD, 450-520 MHZ, PIM RATE	RFI# CC450-06-T6 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45006T6	351	\$2,880.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520MHZ, PIM RATED	RFI# CC450-09 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009	351	\$3,864.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520M 3DT, PIM RATED	RFI# CC450-09-T3 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T3	351	\$3,942.00
OMNI, CORPORATE COLLINER, 8.5DBD, 450-520M 6DT, PIM RATED	RFI# CC450-09-T6 FOR CLAMPS ORDER DSUC1143 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC450_Series_US_P-42444-11.pdf	DSCC45009T6	351	\$3,942.00
OMNI, MEANDER COLLINER, 9DBD, 380-400MHZ, PIM RATED	RFI# COL410-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41058	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 400-420MHZ, PIM RATED	RFI# COL410-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41065	351	\$2,018.00
OMNI, MEANDER COLLINER, 9DBD, 410-430MHZ, PIM RATED	RFI# COL410-66 FOR CLAMPS USE DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41066	351	\$2,018.00
OMNI, MEANDER COLLINER, 9 DBD, 450-470 MHZ, PIM RATED	RFI# COL410-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41070	351	\$2,018.00
OMNI, MEANDER COLLINER, 9 DBD, 470-490 MHZ, PIM RATED	RFI# COL410-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41071	351	\$2,018.00
OMNI, MEANDER COLLINER, 9 DBD, 490-520 MHZ, PIM RATED	RFI# COL410-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCOL41072	351	\$2,018.00
OMNI, MEANDER COLLINER, 0DBD, 380-400MHZ, PIM RATED	RFI# COL41-58 FOR CLAMPS ORDER DSUC12 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4158	351	\$1,215.00
OMNI, MEANDER COLLINER, 0DBD, 400-420MHZ, PIM RATED	RFI# COL41-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4165	351	\$1,125.00
OMNI, MEANDER COLLINER, 0 DBD, 450-470 MHZ, PIM RATED	RFI# COL41-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4170	351	\$1,125.00
OMNI, MEANDER COLLINER, 0 DBD, 470-490 MHZ, PIM RATED	RFI# COL41-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4171	351	\$1,125.00

OMNI, MEANDER COLLINEAR, 0DBD, 490-520MHZ, PIM RATED	RFI# COL41-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL41_Series_P-41536-2.pdf	DSCOL4172	351	\$1,125.00
OMNI, MEANDER COLLINEAR, 5DBD, 380-400MHZ, PIM RATED	RFI# COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4358	351	\$852.00
OMNI, MEANDER COLLINEAR, 5DBD, 400-420MHZ, PIM RATED	RFI# COL43-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4365	351	\$852.00
OMNI, MEANDER COLLINEAR, 5DBD, 410-430MHZ, PIM RATED	RFI# COL43-66 FOR CLAMPS ORDER COL43-66 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4366	351	\$852.00
OMNI, MEANDER COLLINEAR, 5 DBD, 450-470 MHZ, PIM RATED	RFI#COL43-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4370	351	\$852.00
OMNI, MEANDER COLLINEAR, 5 DBD, 490-520MHZ, PIM RATED	RFI# COL43-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL43-41716-2.pdf	DSCOL4372	351	\$852.00
UHF MEANDER COLLINEAR, OMNI, 6.3DBD, 380-400MHZ DIN CONNECTOR	RFI# COL45-58 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4558	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 400-420 MHZ, PIM RATED	RFI# COL45-65 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4565	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7DBD, 410-430MHZ, PIM RATED	RFI# COL45-66 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4566	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 450-470MHZ PIM RATED	RFI# COL45-70 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4570	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 470-490MHZ PIM RATED	RFI# COL45-71 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4571	351	\$1,165.00
OMNI, MEANDER COLLINEAR, 7 DBD, 490-520 MHZ, PIM RATED	RFI# COL45-72 FOR CLAMPS ORDER DSUC12 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL45-41248-4.pdf	DSCOL4572	351	\$1,165.00
VERTICAL COLLINEAR ANTENNA, 3DBD GAIN, 380-530MHZ, 4%BW	RFI PART#: COL7 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/COL7_SPEC_SHEET_LINK.pdf	DSCOL7	351	\$602.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 70 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA10-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA1067DIN	351	\$1,541.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA20-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA2067DIN	351	\$2,907.00
DIRECTIONAL DIPOLE ARRAY, 11 DBD, 60 DEG BW, 406-512 MHZ, PIM RATED	RFI# CSA40-67-DIN CLAMPS INCLUDED SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-7_CSA-Series-UHF.pdf	DSCSA4067DIN	351	\$3,952.00
UHF ELLIPTICAL DIPOLE, BI-DIRECTINAL PAT, 2X 5 DBD ARRAY, 400-520MHZ ANTENNA	RFI# EA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA404067DIN	351	\$2,760.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD, 400-520 MHZ, PIM RATED	RFI# EA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-40.pdf	DSEA4067DIN	351	\$2,200.00
DIRECTIONAL DIPOLE ARRAY 5DBD, 130 DEG BW, 406-512MHZ, PIM RATED	RFI# EA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-3_ea-series_uhf-80.pdf	DSEA8067DIN	351	\$2,681.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 130 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA10-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA1067DIN	351	\$1,117.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 132 DEG BW, 406-512 MHZ, PIM RATED	RFI# FSA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA2067DIN	351	\$2,355.00
UHF OFFSET DIPOLE, 2X 5 DBD ARRAYS, 400-520 MHZ	RFI# FSA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40945-8_FSA-Series-UHF.pdf	DSFSA4067DIN	351	\$3,093.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 330-420 MHZ, PIM RATED	RFI# OA2020-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - http://www.rfwireless.com.au/media/downloads/pdfs/multiple_array_combinations.pdf	DSOA202067DIN	351	\$2,571.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 400-520 MHZ, PIM RATED	RFI# OA20-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-4_oa-series_uhf420MHz-40.pdf	DSOA2067DIN	351	\$1,554.00
UHF OFFSET DIPOLE, 2X 9 DBD ARRAYS, 400-520 MHZ	RFI# OA4040-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA404067DIN	351	\$3,797.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 330-420 MHZ, PIM RATED	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEETS LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA4067DIN	351	\$2,127.00
OFFSET, EXPOSED DIPOLE ARRAY, 9 DBD, 400-520 MHZ, PIM RATED	RFI# OA40-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA4067DIN	351	\$2,108.00
CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED	RFI PART#: OA40-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA4067DINT3	351	\$1,650.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 5DEG DT, PIM RATED	RFI PART#: OA40-67-DIN-T8 CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA4067DINT5	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: OA40-67-DIN-T8 CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA4040-67-DIN-40.pdf	DSOA4067DINT8	351	\$2,108.00
OFFSET, EXPOSED DIPOLE ARRAY, 11 DBD, 400-520 MHZ, PIM RATED	RFI# OA80-67-DIN FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA8040-67-DIN-40.pdf	DSOA8067DIN	351	\$4,451.00
OFFSET, EXPOSED DIPOLE ARRAY, 11DBD, 400-520MHZ, 3DEG DT, PIM RATED	RFI# OA80-67-DIN-T3 FOR CLAMPS ORDER DSUC1142 SPEC SHEET LINK - https://rfi-motorola.com/wp-content/uploads/2015/02/40942-2_OA8040-67-DIN-40.pdf	DSOA8067DINT3	351	\$4,451.00
STABILIZER ARM FOR COL45/410 ANTENNA SERIES	RFI PART#: COLBRACE-65 SPEC SHEET LINK: TBD	DSCOLBRACE65	351	\$570.00
YAGI ANTENNA, 2 ELEMENT, 3DBD GAIN, 300-600MHZ 5% BW	RFI PART#: YB02-99 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0299	351	\$238.00
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
PIPE TO PIPE CLAMP, 2.5" TO 4.5" PIPE, 1 CLAMP	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 4.5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP KIT, 2.5" TO 4.5" PIPE, 2 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$90.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
YAGI 3 ELEMENT, 6DBD, 350-600MHZ, 5%BW, N FEMALE	RFI PART#: YB03-99 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/yb02-99-yb03-99.pdf	DSYB0399	351	\$298.00
YAGI ELEMENT 9 DBD 450-480 MHZ N FEMALE	RFI PART#: YB61 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/04/YB6-series-UHF-9dBd.pdf	DSYB61	351	\$224.00
UHF PANEL ANTENNA 380-430MHZ, 6DBD, 65DEG, PIM RATED	DBSPECTRA PART#: BPA3843-65-8 APPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8_P-42286-3.pdf	DSBPA3843658	351	\$1,743.00
YAGI, 16 ELEMENT, 12DBD, 470-490MHZ, WITH CLAMP & BRACE KIT	RFI PART#: RDA16-71BK SPEC SHEET LINK: TBD	DSRDA1671BK	351	\$409.00
YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 480-520MHZ, N FEMALE	RFI PART#: RDA6-62 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/BPA3843-65-8_P-42286-3.pdf	DSRDA662	351	\$295.00
ANTENNA SYSTEM, YAGI RUGGEDIZED 6 ELEMENT, 9DBD, 330-600MHZ, CUSTOM TUN	RFI PART#: RDA6-99 MUST PROVIDE CENTER FREQUENCY SPEC SHEET LINK: TBD	DSRDA699	351	\$358.00
YAGI 6 ELEMENT, 9 DBD, 470-500MHZ	RFI PART#: YB6-500 SPEC SHEET LINK: TBD	DSYB6500	351	\$255.00

UHF CONTROL STATION ANTENNAS

STI-CO TRI BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N -FEMALE CONNECTOR	STI-CO PART #: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,374.00

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
COLLINEAR OMNI ANTENNA, 3 DBD, LOW PIM, PIP RATED, 7/16 DIN FEMALE	ALIVE PART#: ATC-GC4V40-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-GC4V40.pdf	DSATCGC4V0D7	351	\$1,150.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT	DSPLMKIT	351	\$110.00
PANEL ANTENNA, 450-512 MHZ, 6 DBD, N-FEMALE, MOUNT INCLUDED	ALIVE PART#: ATC-4165 SPEC SHEET LINK: https://aliveatele.com/wp-content/uploads/ATC-4165-2.pdf	DSATC4165	351	\$345.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
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OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 380-430 MHZ	AMPHENOL PART#: CXL70-1LW/L BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl70-1lw	DSCXL701LWL	351	\$152.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 460-510 MHZ	AMPHENOL PART#: CXL70-1LW/HS BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl70-1lw	DSCXL701LWHS	351	\$152.00
COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	AMPHENOL PART#: CXL 270C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/446-cxl270c?generate=1	DSCXL270C	351	\$545.00
OMNIDIRECTIONAL BASE STATION ANTENNA, 0 DBD GAIN, STURDY, 420-470 MHZ	AMPHENOL PART#: CXL 70-1LW/H SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/568-cxl70-1lw?generate=1	DSCXL701LWH	351	\$152.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4C00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4C00CS36UN_DS4X00CS36UN_N.pdf	DSDS4C00CS36UN	351	\$1,006.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4C03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4C03CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4C03CS36UN	351	\$1,811.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS3A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A00CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS3A00CS36UN	351	\$1,122.00
380-410MHZ, UHF CONTROL STATION ANT 3 DBD GAIN, N-TYPE CONNECTOR	DBSPECTRA# DS3A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS3A03CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS3A03CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4A00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4A00CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4A00CS36UN	351	\$1,121.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4A03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4A03CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4A03CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS4D00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4D00CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4D00CS36UN	351	\$1,926.00
UHF CONTROL STATION ANTENNA, 3 DBD	DBSPECTRA# DS4D03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4D03CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4D03CS36UN	351	\$1,926.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS3A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS3A03CS36DN	351	\$2,859.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4A03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4A03CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4A03CS36DN	351	\$2,858.00
425-455MHZ 3 DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS4B03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4B03CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4B03CS36DN	351	\$2,858.00
UHF CS ANTENNA 2.9DBD	DBSPECTRA PART#: DS4C03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A00CS36UN_DS4C03CS36DN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS4C03CS36DN	351	\$2,858.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4D03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4D03CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4D03CS36DN	351	\$2,858.00
440-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, 3 DBD, N	DBSPECTRA PART#: DS4H03CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3A03CS36DN_DS4H03CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4H03CS36DN	351	\$2,858.00
340-470 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3X00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS3X00CS36DN	351	\$1,949.00
380-410 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS3A00CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS3A00CS36DN	351	\$1,903.00
406-436 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4A00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4A00CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4A00CS36DN	351	\$1,903.00
450-482 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4C00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4C00CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4C00CS36DN	351	\$1,903.00
480-512 MHZ, DUAL UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS4D00CS36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36DN_DS4D00CS36DN_DS4X00CS36DN_DS4X00CS36DN.pdf	DSDS4D00CS36DN	351	\$1,903.00
380-470 MHZ, SINGLE UHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS3X00CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36UN_DS3X00CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS3X00CS36UN	351	\$1,248.00
380-470 MHZ, SINGLE UHF CONTROL STATION ANTENNA, 3 DB GAIN, N	DBSPECTRA PART#: DS3X03CS36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS3X00CS36UN_DS3X03CS36UN_DS4X00CS36UN_DS4X00CS36UN_N.pdf	DSDS3X03CS36UN	351	\$2,053.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
SIDE MOUNTED EXPOSED DIPOLE, 0 DBD, 220 DEG BW, 400-520 MHZ	RFI# SMD4-67-U CLAMPS INCLUDED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/40942-12_SMDSeries_030908-7-83.pdf	DSDDM467U	351	\$243.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 450-520 MHZ	RFI# COD4-4552 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2018/05/COD4-4047-4552-P-43214-1.pdf	DSCOD44552	351	\$518.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 400-470 MHZ	RFI# COD4-4047 FOR CLAMPS ORDER DSUC12 IF REQUIRED SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2017/08/COD4-4047.pdf	DSCOD44047	351	\$517.00
VERTICAL ENCLOSED DIPOLE ANTENNA, UNITY GAIN, 380-470 MHZ	RFI PART#: COD4-3847 SPEC SHEET LINK: https://drive.google.com/file/d/1HMj5RHx2CTLcp31Wf5S6mew6XwctU/view	DSCOD43847	351	\$518.00

VHF BAND ANTENNAS

ALIVE TELECOM PARTS

Description	Full Description	Nomenclature	APC	Price
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D7	351	\$2,128.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT1 NOTE: Includes 2 Clamp Sets	DSPLMKIT	351	\$110.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: PLMKIT-1 NOTE: Includes 3 Clamp Sets	DSPLMKIT1	351	\$140.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GC1V20-2-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V202D7	351	\$978.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V2C-D7 NOTE: Mount Part Number DSPLMTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V2C.pdf	DSATCGD1V2CD7	351	\$1,265.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V4C-D7 NOTE: Mount Part Number DSPLMTKIT1 Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V4C.pdf	DSATCGD1V4CD7	351	\$2,415.00
EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V40-B-D7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V40-B-2.pdf	DSATCGD1V40BD7	351	\$2,530.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V20-2-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V202D4	351	\$978.00
COLLINEAR OMNI ANTENNA, 156-166 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-1-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V40-1.pdf	DSATCGC1V401D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 162-174 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-2-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V40-2.pdf	DSATCGC1V402D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 130-140 MHZ, 4.1 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-3-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V40-3.pdf	DSATCGC1V403D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 140-150 MHZ, 4.1 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-4-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V40-4.pdf	DSATCGC1V404D4	351	\$1,840.00
COLLINEAR OMNI ANTENNA, 150-160 MHZ, 5.2 DBD, 4.3-10 DIN FEMALE CON	ALIVE PART#: ATC-GC1V40-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V40.pdf	DSATCGC1V40D4	457	\$1,840.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 5DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V2C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V2C.pdf	DSATCGD1V2CD4	351	\$1,265.00
EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 5 DBD, 138-174 MHZ, 4.3-10 DIN	ALIVE PART#: ATC-GD1V2D-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V2D.pdf	DSATCGD1V2DD4	351	\$2,070.00
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D4	351	\$2,128.00
EXPOSED DIPOLE ANTENNA, CARDIOID, 9DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V4C-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V4C.pdf	DSATCGD1V4CD4	351	\$2,415.00
EXPOSED DIPOLE ANTENNA, OFFSET PATTERN, 8 DBD, 138-174 MHZ, 4.3-10 DIN	ALIVE PART#: ATC-GD1V4D-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V4D.pdf	DSATCGD1V4DD4	351	\$4,600.00
EXPOSED DIPOLE ANTENNA, OMNI, 6DBD, 138-174 MHZ, 4.3-10 DIN FEMALE	ALIVE PART#: ATC-GD1V40-D4 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V40.pdf	DSATCGD1V40D4	351	\$4,830.00
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 5.0DBD	ALIVE PART#: ATC-GP1V1C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-5dbd	DSATCGP1V1CD7	351	\$1,725.00

137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 8.0DBD	ALIVE PART#: ATC-GP1V2C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-8dbd	DSATCGP1V2CD7	351	\$3,450.00
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD	ALIVE PART#: ATC-GP1V4C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4CD7	351	\$6,900.00
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD 8 DEGREE TILT	ALIVE PART#: ATC-GP1V4C-8-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4C8D7	351	\$7,245.00

RFI ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, PIM RATED	RFI PART#: BA40-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4041P	351	\$2,961.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: BA40-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4041T3P	351	\$2,961.00
OMNI, DUAL EXPOSED DIPOLE ARRAY, 2 X 3DBD, 136-174MHZ, PIM RATED	RFI PART#: BA4040-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA404041P	351	\$5,477.00
OMNI, EXPOSED DIPOLE ARRAY, 9DBD, 400-520MHZ, 8DEG DT, PIM RATED	RFI PART#: BA40404040-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA4040404067P	351	\$7,516.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, PIM RATED	RFI PART#: BA80-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSBA8041P	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, PIM RATED	RFI PART#: BA80-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED, TAILORED MODEL NO SPEC SHEET AVAILABLE SPEC SHEET LINK: TBD	DSBA8041T3P	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, 8DEG DT, PIM RATED	RFI PART#: BA80-41-T8-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED, TAILORED MODEL NO SPEC SHEET AVAILABLE SPEC SHEET LINK: TBD	DSBA8041T8P	351	\$6,381.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 130-140MHZ, PIM RATED	RFI PART#: COL51-140-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51140P	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 140-150MHZ, PIM RATED	RFI PART#: COL51-150-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51150P	351	\$2,233.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 150-160MHZ, PIM RATED	RFI PART#: COL51-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51160P	351	\$2,233.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI PART#: COL51-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL51174P	351	\$2,233.00
OMNI, MEANDER COLLINEAR, 4DBD, 130-140MHZ, PIM RATED	RFI PART#: COL53-140-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53140P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 140-150MHZ, PIM RATED	RFI PART#: COL53-150-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53150P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 150-160MHZ, PIM RATED	RFI PART#: COL53-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53160P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 156-166MHZ, PIM RATED	RFI PART#: COL53-166-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53166P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4DBD, 160-174MHZ, PIM RATED	RFI PART#: COL53-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL53174P	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 6DBD, 145-155MHZ, PIM RATED	RFI PART#: COL54-155-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54155P	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6DBD, 150-160MHZ, PIM RATED	RFI PART#: COL54-160-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54160P	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6DBD, 156-166MHZ, PIM RATED	RFI PART#: COL54-166-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54166P	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6DBD, 162-174MHZ, PIM RATED	RFI PART#: COL54-174-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1143 IF REQUIRED SPEC SHEET LINK: TBD	DSCOL54174P	351	\$2,454.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 64DEG BW, 148-174MHZ, PIM RATED	RFI PART#: CSA10-41-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA1041P	351	\$2,511.00
DIRECTIONAL DIPOLE ARRAY, 9DBD, 62DEG BW, 148-174MHZ, PIM RATED	RFI PART#: CSA20-41-P CLAMPS INCLUDED SPEC SHEET LINK: TBD	DSCSA2041P	351	\$4,553.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 5DBD, 136-174MHZ, PIM RATED	RFI PART#: EA40-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA4041P	351	\$2,873.00
ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 136-174MHZ, PIM RATED	RFI PART#: EA4040-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA404041P	351	\$5,725.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, PIM RATED	RFI PART#: EA80-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8041P	351	\$6,199.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: EA80-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSEA8041T3P	351	\$6,199.00
DIRECTIONAL DIPOLE ARRAY, 5DBD, 106DEG BW, 146-174MHZ, PIM RATED	RFI PART#: FSA10-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA1041P	351	\$1,648.00
DIRECTIONAL DIPOLE ARRAY, 7DBD, 108DEG BW, 146-174MHZ, PIM RATED	RFI PART#: FSA20-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSFSA2041P	351	\$3,633.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	RFI PART#: IA404040-41-67-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSIA4040404167P	351	\$8,865.00
OFFSET, EXPOSED DIPOLE ARRAY, 5DBD, 136-174MHZ, PIM RATED	RFI PART#: OA20-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA2041P	351	\$2,413.00
OFFSET, DUAL EXPOSED DIPOLE ARRAY, 2 X 5DBD, 136-174MHZ, PIM RATED	RFI PART#: OA2040-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA204041P	351	\$4,888.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, PIM RATED	RFI PART#: OA40-41-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4041P	351	\$6,268.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: OA40-41-T3-P CLAMPS NOT INCLUDED, ORDER KIT DSUC1142 IF REQUIRED SPEC SHEET LINK: TBD	DSOA4041T3P	351	\$6,268.00

RFI ANTENNAS

Description	Full Description	Nomenclature	APC	Price
OMNI QUAD EXPOSED DIPOLE ARRAY, 4 X 3 DBD, 400-520 MHZ, PIM RATED	RFI# BA40404040-67-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/12/BA-UHF-high-BA40404040-40945-1.pdf	DSBA4040404067DIN	351	\$7,516.00
DUAL OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA4040-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/141407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA404041DIN	351	\$5,477.00
OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED	RFI# BA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/141407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA4041DIN	351	\$2,984.00
VHF EXPOSED DIPOLE, OMNI, 6 DBD, 136-174 MHZ	RFI# BA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/141407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DIN	351	\$6,381.00
ANTENNA, SINGLE OMNI, EXPOSED DIPOLE, 136-174 MHZ, 6/6 DBD GAIN	RFI# BA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/141407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA8041DINT3	351	\$6,381.00
VERTICAL COLLINEAR ANTENNA, 4.5DBD GAIN, 144-175MHZ, 4%BW	RFI PART#: COL4 SPEC SHEET LINK: spec sheet link	DSCOL4	351	\$1,036.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 130-140MHZ, PIM RATED	RFI# COL51-140 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51140	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 140-150MHZ, PIM RATED	RFI# COL51-150 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51150	351	\$2,234.00
OMNI, RUGGED MENDER COLLINEAR, 0 DBD, 150-160 MHZ, PIM RATED	RFI# COL51-160 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51160	351	\$2,234.00
OMNI, RUGGED MEANDER COLLINEAR, 0DBD, 162-174MHZ, PIM RATED	RFI# COL51-174 FOR CLAMPS ORDER DSUC12 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2016/01/COL51_Series.pdf	DSCOL51174	351	\$2,234.00
OMNI, MEANDER COLLINEAR, 4 DBD, 130-140 MHZ, PIM RATED	RFI# COL53-140 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53140	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4 DBD, 140-150 MHZ, PIM RATED	RFI# COL53-150 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53150	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 4 DBD, 150-160 MHZ, PIM RATED	RFI# COL53-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53160	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 4DBD, 156-166MHZ, PIM RATED	RFI# COL53-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53166	351	\$2,369.00
OMNI, MEANDER COLLINEAR, 4 DBD, 160-174 MHZ, PIM RATED	RFI# COL53-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL53_Series_US_41248-1_Released-4-March-13.pdf	DSCOL53174	351	\$2,370.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 145-155 MHZ, PIM RATED	RFI# COL54-155 FOR CLAMPS ORDER DSUC1143 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54155	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 150-160 MHZ, PIM RATED	RFI# COL54-160 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54160	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6.0 DBD, 156-166 MHZ, PIM RATED	RFI# COL54-166 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54166	351	\$2,454.00
OMNI, MEANDER COLLINEAR, 6 DBD, 162-174 MHZ, PIM RATED	RFI# COL54-174 FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/COL54-Series.pdf	DSCOL54174	351	\$2,454.00

DIRECTIONAL DIPOLE ARRAY, 7DBD, 64 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA10-41-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA1041DIN	351	\$2,510.00
DIRECTIONAL DIPOLE ARRAY, 9 DBD, 62 DEG BW, 148-174 MHZ, PIM RATED	RFI# CSA20-41-DIN FOR CLAMPS ORDER DSUC1143 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSCSA2041DIN	351	\$4,553.00
ANTENNA SYSTEM,ELLIPTICAL, DUAL EXPOSED DIPOLE ARRAY 2X5 DBD, 136-174 VHF ELLIPTICAL DIPOLE, BI-DIRECT. PATTERN, 5DBD, 136-174MHZ	RFI# EA4040-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA404041DIN	351	\$5,112.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8 DBD 136-174 MHZ, PIM RATED	RFI# EA80-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA4041DIN	351	\$2,426.00
ELLIPTICAL, EXPOSED DIPOLE ARRAY, 8DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# IS EA80-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/01/40942-7_ea-series_vhf.pdf	DSEA8041DINT3	351	\$5,769.00
DIRECTIONAL DIPOLE ARRAY, 5 DBD, 106 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA10-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA1041DIN	351	\$1,647.00
DIRECTIONAL DIPOLE ARRAY 7DBD, 108 DEG BW, 148-174 MHZ, PIM RATED	RFI# FSA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSFSA2041DIN	351	\$3,633.00
OFFSET, EXPOSED DIPOLE ARRAY, 2 X 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA2020-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheets link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA202041DIN	351	\$3,982.00
OFFSET, EXPOSED DIPOLE ARRAY, 5 DBD, 136-174 MHZ, PIM RATED	RFI# OA20-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA2041DIN	351	\$1,891.00
VHF OFFSET DIPOLE, 9 DBD, 136-174 MHZ	RFI# OA40-41-DIN FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DIN	351	\$6,268.00
OFFSET, EXPOSED DIPOLE ARRAY, 9DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI# OA40-41-DIN-T3 FOR CLAMPS ORDER DSUC1142 spec sheet link - https://rfi-motorola.com/wp-content/uploads/2015/02/CC807_US_41334-1_Released-7-March-13.pdf	DSOA4041DINT3	351	\$6,268.00
SIDE MOUNTED EXPOSED DIPOLE, 0DBD, 175 DEG BW, 148-174 MHZ	RFI PART#: SMD20-41 SPEC SHEET LINK: spec sheet link	DSM202041	351	\$678.00
ANTENNA SYSTEM,SIDE MOUNTED EXPOSED DIPOLE, 0DBD,228 DEG BW,130-150 MH	RFI PART#: SMD20-36 SPEC SHEET LINK: spec sheet link	DSM2036	351	\$664.00
OMNI, SINGLE BOOM ARRAY, 148-174 / 400-520MHZ, 3DBD VHF / 2 X 3DBD UHF	RFI PART#: IA404040-41-67-DIN SPEC SHEET LINK: spec sheet link	DSIA4040404167DIN	351	\$8,865.00
ANTENNA SYSTEM,YAGI, 2 ELEMENT 4 DBD, 100-250 MHZ, 6 MHZ BW, N FEMALE	RFI PART#: YH02D SPEC SHEET LINK: TBD	DSYH02D	351	\$368.00
YAGI, 3 ELEMENT 6 DBD, 100-250 MHZ, 9 MHZ BW, N FEMALE	RFI PART#: YH03 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH03	351	\$729.00
YAGI, 4 ELEMENT, 7DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH04 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH04	351	\$812.00
YAGI, 6 ELEMENT, 9DBD, 100-250MHZ, 8MHZ BW, N FEMALE	RFI PART#: YH06 SPEC SHEET LINK: http://www.rfwireless.com.au/media/wysiwyg/wireless/base_antennas/Yagi/VHF%20Yagi/P-40798-56%20-%20YH%26YL%20Yagis.pdf	DSYH06	351	\$1,085.00
STABILIZER ARM FOR COL53/54 ANTENNA SERIES	RFI PART#: COLBRACE-76 SPEC SHEET LINK: TBD	DSCOLBRACE76	351	\$570.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: UB1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUB1	351	\$16.50
ANTENNA CLAMPS, KIT OF 1 FOR .75 IN TO 3.0 IN OD	RFI PART#: UC-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC1	351	\$69.00
PIPE TO PIPE CLAMP, 2.5" TO 4.5" PIPE, 1 CLAMP	RFI PART#: UC-114 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC114	351	\$99.00
PIPE TO PIPE CLAMP, 1.5" TO 5" PIPE, SET OF 2 CLAMPS	RFI PART#: UC-1142 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1142	351	\$194.00
PIPE TO PIPE CLAMP KIT, 2.5" TO 4.5" PIPE, 2 CLAMPS	RFI PART#: UC-1143 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/UC-114_datasheet-std-conversions.pdf	DSUC1143	351	\$293.00
ANT CLAMPS, KIT OF 3 FOR .75 IN TO 3.0 IN OD FOR ANT LONGER THAN 15 FT	RFI PART#: UC-13 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUC13	351	\$205.00
ANTENNA CLAMP, RIGHT ANGLE MOUNT, .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-1 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR1	351	\$45.00
ANTENNA CLAMP KIT RIGHT ANGLE MOUNT .75 INCH - 3.0 INCH, GALVANIZED	RFI PART#: UCR-2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/Antenna-Mount-Clamps-UC1-UCR1-UB1.pdf	DSUCR2	351	\$90.00
LIGHT DUTY RIGHT ANGLE ANTENNA CLAMP, GALVANIZED	RFI PART#: UNV SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/antenna_clamps.pdf	DSUNV	351	\$24.00
OMNI, EXPOSED DIPOLE ARRAY, 6DBD, 136-174MHZ, 8DEG DT, PIM RATED	RFI PART#: BA80-41-DIN-T8 SPEC SHEET LINK: TBD	DSBA8041DINT8	351	\$6,381.00
OMNI, EXPOSED DIPOLE ARRAY, 3DBD, 136-174MHZ, 3DEG DT, PIM RATED	RFI PART#: DSB4041DINT3 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/41407-1_BA-SERIES_VHF_Released-21-May-13.pdf	DSBA4041DINT3	351	\$2,984.00

DBSPECTRA ANTENNAS WITH 4.3.10 CONNECTORS

Description	Full Description	Nomenclature	APC	Price
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E00P36Ux.pdf	DSDS1E00P36UM	351	\$2,082.00
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E03P36Ux.pdf	DSDS1E03P36UM	351	\$3,565.00
138-150 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, LOW PIM/H	DBSPECTRA PART#: DS1E06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E06P36Ux.pdf	DSDS1E06P36UM	351	\$4,830.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F00P36Ux.pdf	DSDS1F00P36UM	351	\$1,980.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36Ux.pdf	DSDS1F03P36UM	351	\$3,450.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36Ux.pdf	DSDS1F06P36UM	351	\$4,692.00
160-174 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1G00P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G00P36Ux.pdf	DSDS1G00P36UM	351	\$1,837.00
160-174 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1G03P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G03P36Ux.pdf	DSDS1G03P36UM	351	\$3,335.00
160-174 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEG DOW	DBSPECTRA PART#: DS1G06P36U-M SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G06P36Ux.pdf	DSDS1G06P36UM	351	\$4,577.00

DBSPECTRA ANTENNAS

Description	Full Description	Nomenclature	APC	Price
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E00P36Ux.pdf	DSDS1E00P36UD	351	\$2,082.00
138-150 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 3 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1E03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E03P36Ux.pdf	DSDS1E03P36UD	351	\$3,565.00
ANTENNA 140-150MHZ, OMN, PIM/PIP	DBSPECTRA PART#: DS1E06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1E06P36Ux.pdf	DSDS1E06P36UD	351	\$4,830.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, UNITY GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F00P36Ux.pdf	DSDS1F00P36UD	351	\$1,980.00
ANTENNA, OMNI, PIM/PIP, 2.9DBD DUAL	DBSPECTRA PART#: DS1F03P36D-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36Dx.pdf	DSDS1F03P36DD	351	\$5,146.00
150-164MHZ 3DB GAIN OMNI FIBERGLASS, LOW PIM, HI PIP ANT W/ 7/16 DIN C	DBSPECTRA PART#: DS1F03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F03P36Ux.pdf	DSDS1F03P36UD	351	\$3,450.00
150-164 MHZ, VHF ANTENNA, OMNIDIRECTIONAL, 6 DB GAIN, LOW-PIM/HI-PIP,	DBSPECTRA PART#: DS1F06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36Ux.pdf	DSDS1F06P36UD	351	\$4,692.00
150-164 MHZ, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 5.5 DBD GAIN, LOW-PIM	DBSPECTRA PART#: DS1F06P36UD SPEC SHEET LINK: www.dbspectra.com/specifications/DS1F06P36Ux.pdf	DSDS1F06P36UD	351	\$4,980.00
160-174MHZ UNITY GAIN ANTENNA, LOW PIM, HI PIP ANT W/ 7/16 DIN CONNECT	DBSPECTRA PART#: DS1G00P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G00P36Ux.pdf	DSDS1G00P36UD	351	\$1,837.00
160-174MHZ 3DB GAIN OMNI ANTENNA, LOW PIM, HI PIP RATED DIN CONNECTOR	DBSPECTRA PART#: DS1G03P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G03P36Ux.pdf	DSDS1G03P36UD	351	\$3,335.00
160-174 MHZ, 6 DBD GAIN, VHF SINGLE OMNIDIRECTIONAL ANTENNA, 0 DEG DOW	DBSPECTRA PART#: DS1G06P36U-D SPEC SHEET LINK: www.dbspectra.com/specifications/DS1G06P36Ux.pdf	DSDS1G06P36UD	351	\$4,577.00

VHF CONTROL STATION ANTENNAS

STI CO TRI-BAND ANTENNA

Description	Full Description	Nomenclature	APC	Price
INTEROPERABLE ANTENNA ONLY, 106-1550MHZ N -FEMALE CONNECTOR	STI-CO PART#: IOAK-DC-ANT-N	DSIOAKDCANTN	291	\$1,374.00
COLLINEAR OMNI ANTENNA, 160-174 MHZ, 2.5 DBD, 7-16 DIN FEMALE CONNECT	ALIVE PART#: ATC-GD1V20-D-7 SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GC1V20-2-2.pdf	DSATCGC1V20D7	351	\$978.00
EXPOSED DIPOLE ANTENNA, OMNI, 3DBD, 138-174 MHZ, 7-16 DIN FEMALE	ALIVE PART#: ATC-GD1V20-D7 NOTE: Mount Part Number DSPMLTKIT Required, ordered separately SPEC SHEET LINK: https://alivetele.com/wp-content/uploads/ATC-GD1V20.pdf	DSATCGD1V20D7	351	\$2,128.00

Description	ALIVE PART#: PLMKIT NOTE:	DSPLMKIT	351	\$110.00
ANTENNA POLE MOUNT KIT	ALIVE PART#: PLMKIT-1 NOTE:	DSPLMKIT1	351	\$140.00
POLE MOUNT KIT, 3 CLAMP SETS, POLE TO POLE MOUNTING	ALIVE PART#: ATC-GP1V1C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-5dbd	DSATCGP1V1CD7	351	\$1,725.00
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 5.0DBD	ALIVE PART#: ATC-GP1V2C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-8dbd	DSATCGP1V2CD7	351	\$3,450.00
137- 174 MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD	ALIVE PART#: ATC-GP1V4C-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4CD7	351	\$6,900.00
137- 174MHZ VHF EXPOSED DIPOLE WITH BACKPLANE 11.0DBD 8 DEGREE TILT	ALIVE PART#: ATC-GP1V4C-8-D7 SPEC SHEET LINK: https://alivetele.com/product/136-174mhz-vhf-back-panel-directional-exposed-dipole-antenna-11dbd	DSATCGP1V4C8D7	351	\$7,245.00

AMPHENOL PROCOM PARTS

Description	Full Description	Nomenclature	APC	Price
1 DIPOLE ANT, 2.0 DBD GAIN MOUNTED ON CONDUCTIVE POLE/MAST (0 DBD FREE	AMPHENOL PART#: S.1-380-470. BRACKETS ORDERED SEPARATELY. SPEC SHHET LINK: https://www.amphenolprocom.com/products/base-station-antennas/2397-s-1-380-470	DSS1380470	351	\$205.00
GROUND PLANE OMNI ANTENNA, 0 DBD GAIN, 40-70 MHZ	AMPHENOL PART#: GP40. BRACKETS INCLUDED. SPEC SHHET LINK: https://www.amphenolprocom.com/products/base-station-antennas/404-gp-40	DSGP40	351	\$259.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 139-147 MHZ	AMPHENOL PART#: CXL 2-3LW/s SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cx-2-3lw?generate=1	DSCXL23LWS	351	\$467.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-175MHZ	AMPHENOL PART#: CXL 2-2C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/471-cx-2-2c?generate=1	DSCXL22C	351	\$403.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 153-162 MHZ	AMPHENOL PART#: CXL 2-3LW/m. BRACKETS INCLUDED. SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cx-2-3lw	DSCXL23LWM	351	\$552.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 155-175MHZ	AMPHENOL PART#: CXL 2-1LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cx-2?generate=1	DSCXL21LWH	351	\$240.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 146-165MHZ	AMPHENOL PART#: CXL 2-1LW/l SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cx-2?generate=1	DSCXL21LWL	351	\$240.00
VHF OMNIDIRECTIONAL BASE STATION ANTENNA 0 DBD GAIN, 136-156MHZ	AMPHENOL PART#: CXL 2-1LW/s SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/473-cx-2?generate=1	DSCXL21LWS	351	\$240.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 162-175 MHZ	AMPHENOL PART#: CXL 2-3C/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cx-2-3c?generate=1	DSCXL23CH	351	\$707.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 144-157 MHZ	AMPHENOL PART#: CXL 2-3C/l SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cx-2-3c?generate=1	DSCXL23CL	351	\$707.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 153-166 MHZ	AMPHENOL PART#: CXL 2-3C/m SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cx-2-3c?generate=1	DSCXL23CM	351	\$952.00
COLLINEAR OMNI, 3 DBD, 13 MHZ BW, 137-150 MHZ	AMPHENOL PART#: CXL 2-3C/s SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/458-cx-2-3c?generate=1	DSCXL23CS	351	\$707.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 166-175 MHZ	AMPHENOL PART#: CXL 2-3LW/h SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cx-2-3lw?generate=1	DSCXL23LWH	351	\$467.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 158-167 MHZ	AMPHENOL PART#: CXL 2-3LW/hm SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cx-2-3lw?generate=1	DSCXL23LWHM	351	\$467.00
COLLINEAR OMNI, 3 DBD, 9 MHZ BW, 146-154 MHZ	AMPHENOL PART#: CXL 2-3LW/l SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/453-cx-2-3lw?generate=1	DSCXL23LWL	351	\$467.00
COLLINEAR DUAL BAND OMNI, 0 DBD, 144-175 MHZ (8 MHZ BANDWIDTH)	AMPHENOL PART#: CXL 270C SPEC SHEET LINK: https://www.amphenolprocom.com/products/base-station-antennas/446-cx-2-70c?generate=1	DSCXL270C	351	\$545.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUAL VHF CONTROL STATION ANTENNA, UNITY	DBSPECTRA# DS1X00C36DN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1X00C36DN.pdf	DSDS1X00C36DN	351	\$2,168.00
118-138 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1C00C36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1C00C36UN_DS1D00C36UN_DS1X00C36UN.pdf	DSDS1C00C36UN	351	\$1,363.00
138-150 MHZ, SINGLE VHF CONTROL STATION ANTENNA, UNITY GAIN, N	DBSPECTRA PART#: DS1D00C36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1D00C36UN_DS1D00C36UN_DS1X00C36UN.pdf	DSDS1D00C36UN	351	\$1,363.00
148-174MHZ UNITY GAIN CONTROL STATION ANTENNA	DBSPECTRA PART#: DS1X00C36UN SPEC SHEET LINK: www.dbspectra.com/specifications/DS1X00C36UN_DS1D00C36UN_DS1X00C36UN.pdf	DSDS1X00C36UN	351	\$1,237.00
138-150MHZ 3DB GAIN DUAL FEED CONTROL STATION ANT W/ N TYPE CON	DBSPECTRA PART#: DS1D03C36DN SPEC SHEET LINK: http://www.dbspectra.com/specifications/DS1D03C36DN.pdf	DSDS1D03C36DN	351	\$4,830.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
VHF CONTROL STATION ANTENNA, 2DBD, 138-166 MHZ, 50W, MM2 MOUNT	RFI PART#: CD29-138166-MVA2 SPEC SHEET LINK: TBD	DSCD29138166MVA2	351	\$164.00
VHF CONTROL STATION ANTENNA, 2DBD, 136-166 MHZ, 50W, MM2 MOUNT	RFI PART#: CD29-138166-MVA5 SPEC SHEET LINK: TBD	DSCD29138166MVA5	351	\$307.00
VHF MONOCONE 136-160 MHZ, N CONN	RFI PART#: BMV-136160 SPEC SHEET LINK: https://fi.motorola.com/wp-content/uploads/2019/06/P-43335-4-BMV-Series.pdf	DSBMV136160	351	\$1,272.00
VHF MONOCONE 148-174 MHZ, N CONN	RFI PART#: BMV-148174 SPEC SHEET LINK: https://fi.motorola.com/wp-content/uploads/2019/06/P-43335-4-BMV-Series.pdf	DSBMV148174	351	\$1,272.00

ASTRO® Digital APX 1500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX1500 UHF2	-	M36SS9PW1 N	466	\$1,858.00

2. Mounting (Required)

APX 1500 models require Dash Mount

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	-	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$42.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00

ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	**DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.** Corresponding Kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 dB 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$715.00
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	QA02756	471	\$1,727.00

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DYN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170	471	\$83.00

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

Description	Full Description	Nomenclature	APC	Price
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	Required when using more than one encryption algorithm or encryption key.	W969	466	\$95.00

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B.	G308	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6160A.	G303	656	\$55.00

Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

ASTRO® Digital APX 1500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX1500 ENHANCED 7/800 MHZ	Enhanced Model	M36URS9PW1B1N	466	\$1,858.00
APX1500 ENHANCED VHF	Enhanced Model	M36KSS9PW1B1N	466	\$1,858.00
APX1500 ENHANCED UHF R1	Enhanced Model	M36QSS9PW1B1N	466	\$1,858.00
APX1500 ENHANCED UHF R2 MOBILE	Enhanced Model	M36SSS9PW1B1N	466	\$1,858.00

2. Mounting (Required)

APX 1500 models require Dash Mount

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: KT000254A02	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

No Antenna Requested

Description	Full Description	Nomenclature	APC	Price
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	471	\$83.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	471	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV DBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	**DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.** Corresponding Kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

5: Operation Modes (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE P25 CONVENTIONAL	-	Q811	471	\$715.00
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	QA02756	471	\$1,727.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: One Touch/Status Msg	G683	G683	471	\$138.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$485.00
ENH: TRUNKED RADIO TRACE/REMOTE MO	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170	471	\$83.00
DEL: DELETE BLUETOOTH	-	QA05336	481	(\$100.00)

6. Feature Antennas (Must select one)

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$22.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Required)

Description	Full Description	Nomenclature	APC	Price
ENH: AES 256 SW ENCRYPTION	Requires digital operation. CAP Compliant Includes ADP. Multkey W969 required to use more than one key.	GA01574	466	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIKEY	Required when using more than one encryption algorithm or encryption key.	W969	466	\$95.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	Corresponding kit: HKN6163B.	G308	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	Corresponding kit: HKN6160A.	G303	656	\$55.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: MODEL III GCAI KEYPAD HANDSET	-	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding kit: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic.	G235	656	\$56.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

9: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station.	G142	656	\$0.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

10: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	GA00318	185	\$271.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$0.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: RADIO TRACE	-	G170AL	430	\$95.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$127.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AY	430	\$127.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$191.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$220.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	GA00982AB	430	\$165.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$83.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTIKEY	-	W969	466	\$95.00
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$190.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$110.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,177.00

ASTRO® Digital APX 4000XH™ Portable

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 4000XH 8/900 MHZ MODEL 3 PORTABLE	-	H51VCH9PW7 N	305	\$3,610.00

Options

3: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 9600 BAUD TRUNKING W/ INTEROPERABILITY	-	QA02812	426	\$2,277.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$650.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	This option provide P25 Trunking functionality when programmed in 9600 Trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,727.00
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,210.00

4: System Enhancement Software (Refer to ordering guide for help)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580	426	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	426	\$110.00
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

5: System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$220.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ENH: APX GPS ACTIVATION	Must have IV&D (Q947) enabled.	QA00782	426	\$165.00
ENHANCEMENT LEVEL 1	Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the entry tier to go to a mid tier level.	QA01770	426	\$220.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also Do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$83.00
ENH: One Touch/Status Msg	-	H46	426	\$83.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$110.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$28.00

6: Algorithm Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	426	\$363.00

7: Antenna (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	-	H122	426	\$26.00
ALT: ANTENNA, WHIP, 700-800MHZ	-	QA07978	426	\$35.00

8: Battery (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	Deletes standard battery, NNTN8750. Deleting the battery removes CSA certification.	H207	426	(\$17.00)

9: Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BELT CLIP	Deletes belt clip PMLN6086.	H301	426	(\$10.00)

10: Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX4000XH PROGRAMING CABLE	-	Q157	426	\$83.00

11: Programming (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	-	Q53	426	\$165.00

12: Service Options (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00

13: Manual (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE APX4000XH USER GUIDE CD	-	H88	470	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

14: Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	426	\$0.00

15: Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

**ASTRO® Digital APX 4500
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8009	430	\$0.00
ANALOG 3600 TRUNKING	-	T8010	430	\$0.00
DIGITAL CONVENTIONAL	-	T8011	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T8012	430	\$0.00
Radio Management Delivery				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
Operation Mode Upgrades				
Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	GA00893AA	430	\$443.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000AB	430	\$190.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering and DVRS PSU. Available with VRX only. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$316.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631. Incompatible with GA00631.	QA00631AC	430	\$127.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$190.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$150.00
ENH: MLTST VOTNG SCAN-SPECTRA	Requires Digital Operation.	G387AE	430	\$253.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires P25 9600 Trunking	GA01767AJ	430	\$127.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital Operation.	G445AB	430	\$190.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DYN4046A).	G996AW	430	\$127.00
ENH: RADIO TRACE	Requires W20, W22, W872, G892, GA00221. Some older revisions are not compatible.	G170AL	430	\$95.00
ADD:SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$165.00
ENH: UPGRADE TO TDMA	Requires P25 9600 Trunking	GA00580AC	430	\$569.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna.	GA09001AB	430	\$380.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	Requires a WiFi/BT antenna	QA00583AE	430	\$190.00
Advanced System Key				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The software key (QA01749) is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00

Multikey

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION	Required when DES Encryptions, or when AES and DVP are ordered together.	W969BL	430	\$417.00

ASTRO® Digital APX 6500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6500 ENHANCED 7/800 MHZ	Enhanced Model	M25UR59PW1B1N	527	\$3,253.00
APX6500 ENHANCED VHF	Enhanced Model	M25KS59PW1B1N	527	\$3,253.00
APX6500 ENHANCED UHF R1	Enhanced Model	M25QS59PW1B1N	527	\$3,253.00
APX6500 ENHANCED UHF R2 MOBILE	Enhanced Model	M25SS59PW1B1N	527	\$3,253.00

2. Mounting (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	Required for Motorcycle Operation.	G67	656	\$327.00

Motorcycle Mounting (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00
ADD:REMOTE MOUNT MOTORCYCLE	Requires G138 (Motorcycle)	G67BA	656	\$440.00

Trunnion Screws (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD : LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01	GA01693	471	\$11.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: KT000254A02	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SERCURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	If you plan to use this model with an O2/O5/E5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	656	\$0.00

Dual Control Head (Optional)

Description	Full Description	Nomenclature	APC	Price

ADD: APX DUAL-CONTRL HD HARDWARE	Requires ether O2, O5, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00
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4. RF Antenna (Required)

**No Antenna Requested
7/800 Antennas**

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013 Incompatible with motorcycle operation.	G174	656	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014. Incompatible with motorcycle operation.	G175	656	\$83.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit number: HAF4015. Requires motorcycle operation (G138)	G335	656	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017 Incompatible with motorcycle operation.	W484	656	\$47.00
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: HAF4018 Requires motorcycle operation (G138)	G174	656	\$47.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021.	G792	656	\$83.00
ALT: 1/4 WV DBDB ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

Dual Radio Operation Options

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 CH, or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$715.00

Dual Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO STACKABLE MP TRUNNION KIT	Corresponding kit: HLN7045B	GA01115	527	\$327.00

5: Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$330.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00

5D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00

5E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00
ENH: SW ASTRO READY (ANALOG)	-	G241	656	\$0.00

System Enhancement Options (Optional)

The following options are optional and will provide additional capabilities, if required.

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Allows mobile to host A DVR, Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR. Requires depot to change a mobile from a MSU to PSU. Requires depot to change a mobile from a PSU to MSU or MSU to PSU. Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION		QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA00982	656	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H02	481	\$83.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00580	656	\$495.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more details.	GA01771	527	\$220.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$330.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00
ADD: SMARTCONNECT	Requires either or Wi-Fi or Data Modem Tethering. Separate SVC part number must be ordered separately to activate service.	GA01630	681	\$0.00
DEL: DELETE BLUETOOTH	-	QA05336	481	(\$100.00)
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$138.00
ADD: MOBILE IMPACT DETECTION	Triggers Emergency when Impact or Roll over is detected	GA01843	681	\$165.00

6. Feature Antennas (Must select one)

Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$110.00
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A02 Requires Motorcycle (G138)	GA00250	681	\$110.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: GPS ANTENNA MTCL	Corresponding kit: HAG4001. Requires Motorcycle (G138).	GA00269	656	\$83.00

GPS Antenna Adaptor

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$22.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Required Selection)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTKEY	Not compatible with ADP-Only. Requires AES. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$385.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTKEY (G298)	GA01620	656	\$165.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration. Corresponding kit: HKN6164 (actual cable length is 128 ft)	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD:BUZZER 110MA APX	Corresponding Kit: HLN6953	B116	656	\$53.00
ADD: GCAl EXTENSION CABLE 2 FT	For use with 07_09 Control Heads and GCAl style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Hom Ring/Horn Transfer' or Horn/Lights Park/Kill and Hom 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on 09 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the 03, 07 and 09 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCEIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and GCAl connection.	GA00260	656	\$17.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, GCAl WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAl KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAl	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAl MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswitch PTT. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN7278	G235	656	\$56.00
ADD: STD PALM MICROPHONE APEX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle operation.	W22	656	\$79.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00

Emergency

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$398.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$116.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Requires O3 CH. Corresponding kit: H1882A.	GA00812	656	\$116.00

10: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding Kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.20HM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00
ADD: AUXILIARY SPEAKER MOTORCYCLE	Corresponding kit: HSN6003. Must select for motorcycle operation.	B18	656	\$66.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Incompatible with O3 control head or motorcycle.	W591	656	\$182.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$28.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

11: Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00

Programming and Data Cables

(Please see CPS PART NUMBER GUIDE for cable descriptions)

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

ASTRO® Digital APX 6500 Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6500 UHF R2 MID POWER	-	M25SSS9PW1 N	527	\$2,896.00

2. Mounting (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation. O3 Dash mount is identical to remote mount minus the 17' extension cable PMLN4958A	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	G67 is required for Motorcycle Configuration. G67 FOR Motorcycle Remote Mount is \$400 DUP.	G67	656	\$327.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires a O2, O5, E5, or O7 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. Corresponding kit: HPN4007	G91	656	\$296.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00

O3 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

E5 Control Head Option

Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00

O7 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX NO O2/O7/ CH NEEDED MTCL	If you plan to use this model with an O2/O5/E5/O7 Control Head but already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	656	\$0.00

Dual Control Head (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2/O5/E5/O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00

4. RF Antenna (Required)

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	656	\$83.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021.	G792	656	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00

UHF R2

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00

ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ASSEMBLY ANTENNA ASSEMBLY ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 dB 470-494 MHz	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00

Dual Radio Operation Options

Description	Full Description	Nomenclature	APC	Price
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack-mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88).	GA01117	656	\$715.00

Dual Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: DUAL RADIO STACKABLE MP TRUNNION	Comprised of HLN7045A and HKN6249A	GA01115	656	\$327.00

5: Operation Mode (Must Select One)

5A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: P25 TRUNKING SOFTWARE APX	Required when ordering Smartzone Operation (G51) & Digital Operation (G806). Smartzone Omnilink (G173) is included with this option.	G361	656	\$330.00

5B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00

5C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Not compatible with G241.	G806	656	\$567.00
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00

5D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX6500	Not compatible with G48.	G51	527	\$1,320.00
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00

5E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION APX6500	Not compatible with G51.	G48	527	\$550.00
ENH: SW ASTRO READY (ANALOG)	Not compatible with G806 or with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation (G806).	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount (G67).	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking (G361).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital Operation (G806) for Conventional only capabilities and G361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital Operation (G806), IV&D (W947), and GPS (GA00229).	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation (G806). This feature allows for voting of the Conventional Channels only.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking (G361).	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation.	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 9600 Trunking (G361). There is no Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking (G361).	GA00982	656	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H02	481	\$83.00
ADD: TDMA OPERATION APX	Requires P25 9600 Trunking (G361).	GA00590	656	\$495.00
ENH: ENHANCEMENT LEVEL 2	Please reference the Enhancement Level Reference Guide for more details.	GA01771	527	\$220.00

6. Feature Antennas (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Requires AES. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD:TACTICAL OTAR APX	Requires digital (G806) and IV&D (W947).	H04	656	\$385.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$165.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00

ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	For dual control head configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual control head configuration. Corresponding kit: HKN6164 (actual cable length is 128 ft)	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD:BUZZER 110MA APX	Corresponding Kit: HLN6953	B116	656	\$55.00
ADD: GC&I EXTENSION CABLE 2 FT	For use with 07, 09 Control Heads and GC&I style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on 09 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the 03, 07 and 09 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCEIVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and GC&I connection.	GA00260	656	\$19.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GC&I WATER RESISTANT	Corresponding kit: HMN1089A	G892	656	\$79.00
ADD: MODEL III GC&I KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC GC&I	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GC&I MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: VISOR MIC REMOTE MOUNT	Requires G90 No Microphone Needed & G235 Footswth PTT. Kit Number: RMN5054.	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires W872 Visor Mic. Kit Number: GLN7278	G235	656	\$56.00

Emergency

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding Kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding Kit: H1836A	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding Kit: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding Kit: H1838A	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding Kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883	GA00814	656	\$116.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Requires O3 CH. Corresponding kit: H1882A.	GA00812	656	\$116.00

10: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding Kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation (W665)	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. NOT compatible with O3 control head or motorcycle.	W591	656	\$182.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	-	G657	656	\$28.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

11: Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH. PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

Programming and Data Cables

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH. PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

ASTRO® Digital APX 6500Li Mobile Subscriber

1. Main Model (Must Select One)

2. Mounting (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$296.00

3A Control Head Software (Required)

3B Control Head Options (Must select one)

O2 Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00

E5 Control Head Option

No Control Head Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX NO O2/O7 CH NEEDED MTCL	Requires remote mounting option (G67 or G655)	G88	656	\$0.00

4. RF Antenna (Required)

No Antenna Requested

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014.	G175	656	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017.	W484	656	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022A.	G301	656	\$64.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	656	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010.	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013.	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ASSEMBLY ANTENNA ASSEMBLY. ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB.	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004.	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 dB 470-494 MHZ	Corresponding kit: RAE4015ARM	GA00652	656	\$90.00

5. Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,727.00
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	Q443	755	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	Q811	426	\$650.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$495.00

6. Feature Antennas (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey (Optional. Can only select one)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ADD: TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$385.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00

ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$83.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00
ADD: GCAI EXTENSION CABLE 2 FT	Requires GCAI style Mic. Corresponding Kit PMKN4093A.	GA00589	656	\$33.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Corresponding Kit: HKN6196B	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Requires URC-Transceiver Cable	GA00259	656	\$275.00
ADD: CABLE URC TO TRANSCEIVER	Requires Universal Relay Controller	GA00260	656	\$17.00

9: Microphones (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, GCAI WATER RESISTANT	Not compatible with control station operation. Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$56.00

Emergency (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message				
Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00

10: Speakers (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary Wildcard				
Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00

Amplifier				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00

ASTRO® Digital APX 6500Li Enhanced Mobile Subscriber

1. Main Model (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
APX6500 ENHANCED 7/800 MHZ	Enhanced Model	M25UR59PW1BN	527	\$3,253.00
APX6500 ENHANCED VHF	Enhanced Model.	M25KSS9PW1BN	527	\$3,253.00
APX6500 ENHANCED UHF R1	Enhanced Model.	M25QSS9PW1BN	527	\$3,253.00
APX6500 ENHANCED UHF R2 MOBILE	Enhanced Model	M25SS9PW1BN	527	\$3,253.00

2. Mounting (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Required for Control Station Operation.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	-	G67	656	\$327.00

Trunnion Screws (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: LEGACY TRUNNION SCREW KIT	Corresponding kit: KT000053A01 Requires remote mount	GA01693	471	\$11.00

Control Station Operation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	Requires an O2, O5 or E5 Control Head. Requires Dash Mount (G66) Some microphones are not compatible with Control Station Operation. Please read descriptions carefully.	W665	656	\$77.00
ADD: CNTRL STATION PWR SUPPLY	Corresponding kit: KT000254A02	G91	681	\$296.00

3A Control Head Software (Required)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B Control Head Options (Must select one)				
O2 Control Head Options				
Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00

E5 Control Head Option				
Description	Full Description	Nomenclature	APC	Price
ADD: APX E5 CONTROL HEAD	Shipping June 2020	GA01670	681	\$717.00

No Control Head Options				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE NO CONTROL HEAD	If you already have a control head and don't require it, select G88. Requires remote mount option (G67).	G88	681	\$0.00

4. RF Antenna (Required)				
No Antenna Requested				
Description	Full Description	Nomenclature	APC	Price

ADD: NO RF ANTENNA NEEDED			G89	656	\$0.00
7/800 Antennas					
Description	Full Description	Nomenclature	APC	Price	
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	656	\$47.00	
ADD: ANT 1/4 WAVE 762-870 MHZ	Corresponding kit: HAF4016	G335	656	\$15.00	
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	656	\$83.00	
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	656	\$42.00	

VHF Antennas					
Description	Full Description	Nomenclature	APC	Price	
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	656	\$15.00	
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	656	\$15.00	
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00	
ADD:1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	656	\$15.00	
1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	656	\$70.00	
ADD:VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	656	\$83.00	
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	656	\$53.00	

UHF R1 Antennas					
Description	Full Description	Nomenclature	APC	Price	
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010.	G427	656	\$61.00	
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00	
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB.	G430	656	\$121.00	
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$28.00	
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00	
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00	
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013.	G431	656	\$64.00	
ADD: ANT 2DB WIDEBAND 380-520 MHZ	Corresponding kit: HAE6031	GA00505	656	\$55.00	

5: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price	
ENH: 3600 OR 9600 TRUNKING BAUD SIN	Provides for Digital and P25 Trunking.	QA02756	426	\$1,727.00	
ENH: LI ANALOG 3600 TRUNKING	Provides for Analog Trunking	QA443	755	\$1,210.00	
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00	
ENH: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional.	QB11	426	\$650.00	

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price	
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation.	GA09000	656	\$165.00	
ADD: DVRS MSU ACTIVATION	Allows mobile to host A DVR. Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR Requires depot to change a mobile from a MSU to PSU	GA00631	656	\$275.00	
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00	
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00	
ADD: FPP & CLONE APX	-	G53	656	\$165.00	
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00	
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS.	GA09012	471	\$165.00	
ADD: TRUNKED ONE TOUCH BUTTON APX	-	G683	656	\$138.00	
ADD: DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Incompatible with DVRS MSU (GA00631). Provides for aftermarket cable: KT000247A01. For MG90 operation, must order KT000259A01 on a separate line.	GA09011	681	\$110.00	
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00	
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00	
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital Operation	G445	571	\$150.00	
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00	
ENH: ENH: RADIO TRACE	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	656	\$83.00	
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00	
ADD: TDMA OPERATION APX	Requires P25 Digital Trunking	GA00580	656	\$495.00	

6. Feature Antennas (Must select one)
Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price	
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN000163A01	GA00250	681	\$110.00	
ADD: NO GPS/WI-FI ANTENNA NEEDED	-	GA01606AA	681	\$0.00	

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price	
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00	
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00	
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00	
ADD: NO GPS ANTENNA NEEDED	-	GA00235	656	\$0.00	

GPS Antenna Adaptors (Optional)

Description	Full Description	Nomenclature	APC	Price	
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04.	GA01576	986	\$22.00	

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price	
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00	
ADD: NO WI-FI ANTENNA NEEDED	-	GA01607AA	681	\$0.00	

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the correct system owner ID in the supplemental data. If an incorrect ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00	

Encryption Algorithms (Optional)

Description	Full Description	Nomenclature	APC	Price	
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00	
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00	
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00	
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00	

Multikey (Optional. Can only select one)

Description	Full Description	Nomenclature	APC	Price	
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00	
ADD:TACTICAL OTAR APX	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H04	656	\$385.00	

7. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price	
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00	
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00	
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00	
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00	
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00	
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00	
DEL: NO REMOTE CABLE NEEDED	-	GA00179	500	\$0.00	

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either horns or lights, not both.	W116	656	\$83.00
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00
ADD:BUZZER 110MA APX	Corresponding kit: HLB6953	B116	656	\$55.00

8: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Not compatible with control station operation. Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAI KEYPAD HANDSET	Not compatible with Control Station. Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6562	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Not compatible with Remote Mount. Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD:HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Corresponding Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Kit Number: GLN7278	G235	656	\$56.00
ADD: PUSHBUTTON PTT	-	GA00304	656	\$62.00
ADD: NO MICROPHONE NEEDED	-	G90	656	\$0.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry & Status/Message

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$594.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00

9: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary Wildcard

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

10: Service (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$233.00

Control Station Tray and Power Supply

Description	Full Description	Nomenclature	APC	Price
MOBILE DESK TRAY	-	HLN6042	706	\$77.00

Customer Programming Software

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

Programming and Data Cables

Description	Full Description	Nomenclature	APC	Price
CABLE KIT 20' DATA	RS232 Data Interface Cable - REMOTE	HKN6161	476	\$50.00
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

**ASTRO® Digital APX 6500
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7694	430	\$0.00
DIGITAL CONVENTIONAL	-	T7695	430	\$0.00
ANALOG SMARTZONE	-	T7696	430	\$0.00
DIGITAL SMARTZONE	-	T7697	430	\$0.00
TDMA	-	T7698	430	\$0.00

Online Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AE	430	\$651.00
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking, G347. Compatible with T8422, T8423, T8424 models.	G173AN	430	\$253.00
ENH: ASTRO P25 TRUNKING SOFTWARE	Includes G173 (Omnalink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AK	430	\$380.00

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE TO TDMA ENH: UPGRADE TO SMARTZONE	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered. Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	GA00580AC G347AS	430 430	\$569.00 \$1,012.00
Dual Radio Operation				
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the O7 control head. Does not include the cables needed to complete the solution.	GA01058	430	\$715.00
Systems Enhancement Options				
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$190.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modern Tethering. Requires Remote Mount and P25 Digital Trunking.	GA00631AB	430	\$316.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631.	QA00631AC	430	\$127.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$190.00
ENH: FPP & CLONE APX		G53AM	430	\$165.00
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00
ENH: RADIO TRACE		G170AL	430	\$95.00
ENH: MULTICAST VOTING SCAN	Requires Digital Operation.	G387AF	430	\$253.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires P25 9600 Trunking	GA01767AJ	430	\$127.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital	G445AB	430	\$190.00
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$127.00
ADD: TRUNKED ONE TOUCH BUTTON		G683AF	430	\$150.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 2		GA01771AE	430	\$253.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: RF PRE-AMPLIFIER		W12DR	430	\$83.00
ADD: WIFI CAPABILITY	Requires the purchase of a WiFi antenna	GA09001AB	430	\$380.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	Requires a WiFiBT antenna	QA00583AE	430	\$190.00
Advanced System Key				
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
Multikey				
ENH: MULTIKEY OPERATION		W969BL	430	\$417.00
ADD: TACTICAL OTAR	includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AX	430	\$443.00
ENH: ASTRO 25 OTAR W/ MULTIKEY		G298AV	430	\$936.00
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00

**ASTRO® Digital APX 6500LI
FLASHport® Aftermarket Upgrades**

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7894	430	\$0.00
ANALOG 3600 TRUNKING	-	T7895	430	\$0.00
9600 OR 3600 DIGITAL TRUNKING	-	T7897	430	\$0.00
DIGITAL CONVENTIONAL	-	T7896	430	\$0.00

Operation Upgrade Options

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	GA00893AA	430	\$443.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: TRUNKED ONE TOUCH BUTTON		G683AF	430	\$150.00
ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AY	430	\$127.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT		QA00631AC	430	\$127.00
ENH: RADIO TRACE		G170AL	430	\$95.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$190.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
ADD: DVRS MSU ACTIVATION APX MOBILE		GA00631AB	430	\$316.00
ADD: DIGITAL TONE SIGNALING		GA09000AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545. Mutually exclusive with DVRS MSU (GA00631).	GA09011AB	430	\$127.00
ADD: MOT VML DATA MODEM TETHERING	Requires Remote Mount (G67). Includes GA01545.	GA01545AC	430	\$32.00
ADD: RF PRE-AMPLIFIER		W12DR	430	\$83.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP		G445AB	430	\$190.00
ENH: FPP & CLONE APX		G53AM	430	\$165.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY OPERATION		W969BL	430	\$417.00

Online Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY		UA00063AA	430	\$0.00

**ASTRO® Digital APX 7000/APX 7000XE
FLASHport® Aftermarket Upgrades**

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7549	430	\$0.00
ANALOG SMARTNET	-	T7551	430	\$0.00
DIGITAL SMARTNET	-	T7552	430	\$0.00

DIGITAL SMARTZONE	-	T7553	430	\$0.00
DIGITAL CONVENTIONAL	-	T7550	430	\$0.00
ANALOG SMARTZONE	-	T7554	430	\$0.00
TDMA	-	T7627	430	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE DUAL BAND OPERATION	-	QA00579AB	430	\$1,265.00

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AK	430	\$651.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	Compatible with T7549 and T7550	Q327BH	430	\$1,012.00
ENH: UPGRADE CONVENTIONAL TO SMARTNET	-	Q326AU	430	\$633.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OMNILINK (NON-P25)	-	Q173AY	430	\$253.00
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00

Description	Full Description	Nomenclature	APC	Price
ENH: P25 9600 BAUD TRUNKING	Includes Q173	Q361AP	430	\$380.00

Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	Requires Q808 (Digital), Q327 (Smartzone), Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AB	430	\$569.00

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7551 and T7552	Q327BJ	430	\$506.00

Description	Full Description	Nomenclature	APC	Price
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q847) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHPORT order is required to fix the error.	QA01648AC	430	\$6.00

Description	Full Description	Nomenclature	APC	Price
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanasaps with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00

Description	Full Description	Nomenclature	APC	Price
ENH: APX GPS ACTIVATION	Requires IV&D (Q847)	QA00782AB	430	\$190.00

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947BB	430	\$316.00

Description	Full Description	Nomenclature	APC	Price
ADD: EXTREME NOISE REDUCTION	-	QA01833AG	430	\$32.00

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$127.00

Description	Full Description	Nomenclature	APC	Price
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$938.00
ENH: MULTIKEY	-	H869BX	430	\$417.00

Description	Full Description	Nomenclature	APC	Price
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$190.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 4500 Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX4500 900MHZ	-	M22WRS9PW1 N	471	\$1,858.00
APX4500 UHF R2	-	M22SS9PW1 N	471	\$1,858.00

2. Mounting (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$327.00
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: HPN4007	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	681	\$0.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

900 MHz Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 900MHZ ANT 3DB LRT 14'	Corresponding kit: RRA4935A	B925	471	\$47.00
ADD: 900MHZ ANT 3DB LRT 22'	RAF4003ARM	B926	471	\$83.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 3BD ANT 136-174MHZ	Corresponding kit: HAD4022	G301	471	\$42.00
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00

ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV BDBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4004	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00

UHF R2 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4004	G428	656	\$55.00
ADD: ASSEMBLY ANTENNA ASSEMBLY ADD: 5DB GAIN ANT 494-512 MHZ	Corresponding kit: RAE4016ARB	G486	656	\$64.00
ADD: ANT 1/4 WAVE 470-512 MHZ	Corresponding kit: HAE4004	G490	656	\$15.00
ADD: ANT 3 DB ROOF TOP 470-495 MHZ	Corresponding kit: HAE4012	G493	656	\$36.00
ADD: ANT 3 DB ROOF TOP 494-512 MHZ	Corresponding kit: HAE4013	G494	656	\$36.00
ADD: ANT LOW PROFILE 450-512 MHZ	Corresponding kit: HAE6016	G510	656	\$55.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00
ADD: ANT ROOF TOP 5 dB 470-494 MHz	Corresponding kit: RAE4015ARM.	GA00652	656	\$90.00

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,727.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$715.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,210.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Requires remote mount. Requires depot to change to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires P25 Digital Trunking. If you are connecting your radio directly to a DVR then order GA00631. Incompatible with GA00631.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires Digital, IV&D, and GPS	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00

6. Feature Antennas (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: GPS ANTENNA	Corresponding kit: HAG4000	GA00226	656	\$83.00
ADD: GPS ANTENNA GLASS MT	Corresponding kit: PMAN4001	GA00270	656	\$36.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must Select one)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC,GCAI WATER RESISTANT	Corresponding kit: HMN1089	G892	656	\$79.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00

Description	Full Description	Nomenclature	APC	Price
ADD: HANDSET/HANGUP MIC ARMORED CABLE	Armored Cable, No Toggle Switch Accessory Kit: HKN1018	W874	656	\$300.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: HANDSET/HANGUP MIC	Not compatible with Control Station. Coiled Cable with Toggle Switch Accessory Kit: HLN1457A	G874	656	\$285.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN7278	G235	656	\$56.00

Direct Mode Entry & Status/Message

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$594.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00

10: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
ENH: ENABLE RF MODEM	The APX mobiles do not support Site Lens or System Watch. Therefore, the APX RF Modem function does not support the legacy System Watch or Site Lens applications. The APX RF Modem supports Conventional or 9600 Trunking only. Enabling the RF Modem in conventional mode allows provisioned APX portables to pass accountability data through the portable option Q445.	G319	656	\$0.00

Documentation

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00
ADD: DATA LINK MANAGER	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	471	\$0.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

10: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

MOTOROLA SIREN

Description	Full Description	Nomenclature	APC	Price
ADD: SIREN TO RADIO CABLE (21-PIN D WHELEN/MOTOROLA SIREN)	Spare parts part number: DDN1833	TT05900AA	571	\$70.00
	Siren AMP- box only spare part: DDN1542 If you need the siren speaker as well, use DDN1784A	TT2592	571	\$618.00

**Adapters
Control Station Tray and Power Supply
Programming and Data Cables**

Description	Full Description	Nomenclature	APC	Price
CABLE CH, PROGRAMMING,USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25

ASTRO® Digital APX 4500 Enhanced Mobile Subscriber

1. Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX4500 ENHANCED 7/800 MHZ	Enhanced Model	M22URS9PW1BN	471	\$2,036.00
APX4500 ENHANCED VHF	Enhanced Model	M22KSS9PW1BN	471	\$2,036.00
APX4500 ENHANCED UHF R1	Enhanced Model	M22OSS9PW1BN	471	\$2,036.00
APX4500 ENHANCED UHF R2 MOBILE	Enhanced Model	M22SS9PW1BN	471	\$2,036.00

2. Mounting (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT O2 WWM	Required for Control Station Operation.	G66	471	\$138.00
ADD: REMOTE MOUNT O2 WWM	-	G67	656	\$327.00

Control Station Operation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION POWER SUPPLY	Corresponding kit: KT000254A02	G91	656	\$296.00
ADD: CONTROL STATION OPERATION	-	W665	656	\$77.00

3A Control Head Software (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00

3B O2 Control Head Options (Must select either O2, or No Control Head)

Description	Full Description	Nomenclature	APC	Price
ADD: IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
ADD: APX MOBILE NO CONTROL HEAD	Requires remote mount.	G88	681	\$0.00
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00

4. RF Antenna (Required)

7/800 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3DB LOW-PROFILE 762-870	Corresponding kit: HAF4013	G174	471	\$47.00
ADD: ANT 1/4 WAVE 762-870MHZ	Corresponding kit: HAF4016	G335	471	\$15.00
ADD: ANT 3DB ELEVATED FEED 762-870	Corresponding kit: HAF4014	G175	471	\$83.00
ALT: ANT 3DB GAIN 762-870MHZ	Corresponding kit: HAF4017	W484	471	\$42.00

VHF Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: 1/4 WAVE WHIP ROOF TOP 136-144	Corresponding kit: HAD4006	G296	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 144-150.8	Corresponding kit: HAD4007	G297	471	\$15.00
ADD: 1/4 WAVE ROOF TOP 150.8-162	Corresponding kit: HAD4008	G299	656	\$21.00
ADD: 1/4 WAVE ROOF TOP ANT VHF	Corresponding kit: HAD4009	G300	471	\$15.00
ADD: 1/4 WAVE BROADBAND ANT 146-174	Corresponding kit: HAD4017	G629	471	\$70.00
ADD: VHF ANT WIDEBAND 136-174 MHZ	Corresponding kit: HAD4021	G792	471	\$83.00
ALT: 1/4 WV DBBD ANT 136-162 MHZ	Corresponding kit: HAD4016	W652	471	\$53.00

UHF R1 Antennas

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 3.5DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6010	G427	656	\$61.00
ADD: ANT 5.0DB 380-420 MHZ MAXRAD	Corresponding kit: HAE6011	G429	656	\$68.00

Description	Full Description	Nomenclature	APC	Price
ADD: ANT 5.0DB 445-470 MHZ	Corresponding kit: RAE4014ARB	G430	656	\$121.00
ADD: ANT 1/4 WAVE WHIP 380-420 MHZ	Corresponding kit: HAE6012. **DESIGN MODIFICATIONS ARE BEING MADE TO THIS ANTENNA. THE NEW DESIGN INCLUDES TITANIUM BLACK PLATING, TEARDROP TOP, AND GOLD BUTTON PLATING.**	G425	656	\$28.00
ADD: ANT 1/4 WAVE WHIP 450-470 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE4003.	G426	656	\$28.00
ADD: ANT 3.5DB 450-470 MHZ	Corresponding kit: HAE4011	G428	656	\$55.00
ADD: ANT WIDEBAND 380-470 MHZ MAXRA	Corresponding kit: HAE6013	G431	656	\$64.00
ADD: ANT 2DB WIDEBAND 380-520 MHZ	TEMPORARY: Not compatible with U2-7/800 Bandsplit. Corresponding kit: HAE6031	GA00505	656	\$55.00

5: Software Packages (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	Provides for Digital and P25 Trunking.	QA02756	471	\$1,727.00
ADD: SOFTWARE ANALOG 3600 BAUD	Provides for Analog Trunking	Q443	471	\$1,210.00
ADD: SOFTWARE P25 CONVENTIONAL	Provides for Digital Conventional	Q811	471	\$715.00
ADD: ANALOG CONVENTIONAL	Provides for Analog Conventional	QA02829	471	\$440.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	Requires P25 Digital Trunking	GA00580	471	\$495.00
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000	656	\$165.00
ADD: DVRS MSU ACTIVATION	Incompatible with Data Modem Tethering and DVRS PSU. Requires Remote Mount. Requires Depot to change to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399	656	\$165.00
ADD: GROUP SERVICES	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOENCING	Requires Digital, IV&D, and GPS	GA09012	471	\$165.00
ADD: DATA MODEM TETHERING	Please reference MN00349A01 APX Data Tethering Guide for requirements and connectivity options.	GA09011	681	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Digital Operation.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires P25 9600 Trunking	GA01767	527	\$110.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Requires Digital	G445	571	\$150.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ENH: TRUNKED RADIO TRACE/REMOTE MO	Requires W20, W22, W872, G892, or GA00221. Some older revisions are not compatible.	G170	471	\$83.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	Requires P25 9600 Trunking	GA00982	656	\$165.00
ADD: One Touch/Status Msg		G683	471	\$138.00
ADD: WI-FI CAPABILITY	Compatible with Enhanced (BN) models only. Requires a Wi-Fi antenna. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using Wi-Fi is desired.	GA09001	681	\$330.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	Requires GA09001 (Wi-Fi)	GA09007	681	\$0.00
DEL: DELETE BLUETOOTH		QA05336	481	(\$100.00)
ADD: MOBILE IMPACT DETECTION	Triggers Emergency when Impact or Roll over is detected	GA01843	681	\$165.00
ENH: ENHANCEMENT LEVEL 1		GA01770	471	\$220.00

6. Feature Antennas (Must select one)

Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding kit: AN00163A01	GA00250	681	\$110.00
GPS Antennas (Must select one if single function GPS is required)				
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kits: CB000091A04, & PMAN4010	GA01305	656	\$66.00
ADD: GPS ANTENNA	Requires GA01576. Corresponding kit: HAG4000	GA00226	656	\$83.00

GPS Antenna Adaptors

Description	Full Description	Nomenclature	APC	Price
ADD: SMA TO QMA ADAPTER	Requires GA01305, or GA00226. Corresponding kit: CB000091A04. Corresponding kit: CB000091A04	GA01576	986	\$22.00

Wi-Fi Antennas (Must select one if single function Wi-Fi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT 2.4/5 GHZ	Corresponding kit: PMAN5101 Requires Wi-Fi (GA09001).	GA01579AB	681	\$77.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

7. Encryption Algorithms (Must select one)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	Actual length 128 ft. Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00
ADD: RS232 DATA INTFC CBL DASH	6 FT RS232 DATA CABLE Corresponding kit: HKN6160A.	G303	656	\$55.00
ADD: RS232 DATA INTFC CBL TRK	20 FT RS232 DATA CABLE Corresponding kit: HKN6161A.	G304	656	\$55.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: KEY LOCK MOUNT APX	Requires Remote Mount	W81	471	\$36.00

9: Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC, GCAI WATER RESISTANT	Corresponding kit: HMN1089	G820	656	\$79.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W92	471	\$188.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: CONTROL STATION DESK GCAI MIC	Requires Control Station, DEK, and Dash Mount. Corresponding Kit: RMN5070	W382	656	\$186.00

Description	Full Description	Nomenclature	APC	Price
ADD: GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00
ADD: VISOR MIC REMOTE MOUNT	Requires PTT Option. Incompatible with Control Station. Kit Number: RMN5054	W872	656	\$33.00
ADD: GOOSENECK PTT	Requires Visor Mic. Corresponding kit: HMN1087A	G233	656	\$62.00
ADD: PTT FOOTSWITCH	Requires Visor Mic. Corresponding kit: GLN7278	G235	656	\$56.00

Direct Mode Entry & Status/Message

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	Corresponding kit: H1835	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	Corresponding kit: H1836	W614	656	\$396.00
ADD: 24 MODE DIRECT ENTRY	Corresponding kit: H1837	W615	656	\$594.00
ADD: STATUS/MESSAGE 16	Corresponding kit: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A	GA00814	656	\$116.00
ADD: STATUS/MESSAGE 8	Corresponding kit: H1838	W355	656	\$523.00

10: Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Remote Mount Required. Corresponding kit: HLN1196.	W591	656	\$182.00

Amplifier (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Documentation

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Section D:	G799	656	\$11.00
ADD: APX MOBILE USER GUIDE	User Guide CD. PDFs of User Guides can be found on the page.	G657	656	\$28.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

11: Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G24	185	\$145.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AC	185	\$303.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$271.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AC	185	\$439.00

APX KITS

SECTION 1: Kits to Convert Your Existing Control Head from Dash Mount to Remote Mount, or Remote Mount to Dash Mount

O2 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O2 DM TO RM	APX 8500 MP Models Only	H1920	656	\$358.00
8500 O2 RM TO DM	APX 8500 MP Models Only	H1923	656	\$176.00
O2 DASH TO O2 REMOTE MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	H1877	656	\$358.00
O2 REMOTE TO O2 DASH MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	H1879	656	\$175.00
8500 ENH O2 DM TO O2 RM MP RETROFIT KIT	Enhanced "BN" APX 4500 and APX 6500 Models Only	H1938	681	\$358.00
8500 ENH O2 RM TO O2 DM MP RETROFIT KIT	Enhanced "BN" APX 4500 and APX 6500 Models Only	H1937	681	\$176.00

O3 Control Head Conversion Requirements

Description	Full Description	Nomenclature	APC	Price
O3 ACCESSORY CABLE	Required to convert an O3 Control Head from Dash Mount to Remote Mount	PMLN4959A	362	\$149.00

E5 Conversion Kits

Available for APX 8500 and APX 6500/LI Models Only

Description	Full Description	Nomenclature	APC	Price
8500 E5 DM TO RM	APX 8500 MP Models Only	H1934	681	\$358.00
8500 E5 RM TO DM	APX 8500 MP Models Only	H1933	681	\$176.00
8500 ENH E5 RM TO E5 DM MP RETROFIT KIT	Enhanced APX 6500 "BN" Models Only	H1935	681	\$176.00
8500 ENH E5 DM TO E5 RM MP RETROFIT KIT	Enhanced APX 6500 "BN" Models Only	H1936	681	\$358.00
E5 DM TO E5 RM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1932	681	\$358.00
E5 RM TO E5 DM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1931	681	\$175.00

O5 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O5 DM TO RM	APX 8500 MP Models Only	H1921	656	\$358.00
8500 O5 RM TO DM	APX 8500 MP Models Only	H1924	656	\$176.00
O5 RM TO O5 DM MIDPWR NOCH	Classic "AN" APX 6500 and 7500 Models Only	H1848	656	\$175.00
O5 DM TO O5 RM MP RETROFIT KIT	Classic "AN" APX 6500 and APX 7500 Models Only	H1853D	500	\$358.00
8500 ENH O5 DM TO O5 RM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1940	681	\$358.00
8500 ENH O5 RM TO O5 DM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1939	681	\$176.00

O7 Conversion Kits

Description	Full Description	Nomenclature	APC	Price
8500 O7 DM TO RM	APX 8500 MP Models Only	H1922	656	\$358.00
8500 O7 RM TO DM	APX 8500 MP Models Only	H1925	656	\$176.00
O7 DASH TO O7 REMOTE MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	H1878	656	\$358.00
O7 REMOTE TO O7 DASH MOUNT	Classic "AN" APX 6500 and 7500 Models Only	H1880	656	\$175.00
8500 ENH O7 DM TO O7 RM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1942	681	\$358.00
8500 ENH O7 RM TO O7 DM MP RETROFIT KIT	Enhanced "BN" APX 6500 Models Only	H1941	681	\$176.00

SECTION 2: Are Models used to add a new control head (Please order all required options, "No...." is a valid choice).

O2 Control Head

Description	Full Description	Nomenclature	APC	Price
O2 CH	APX 4500, 6500, 7500 and 8500 Models	H1900	656	\$541.00
O2 GRN CH	APX 4500, 6500, 7500 and 8500 Models	H1901	656	\$580.00

O2 Mounting Options

Description	Full Description	Nomenclature	APC	Price
ADD: O2 REMOTE CHIB	APX 4500, 6500 7500 and 8500 Models	GA01276	656	\$138.00
ADD: 8500 O2 DM	APX 8500 MP Models Only	GA01583	656	\$176.00
ADD: O2 DASH MOUNT	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	GA01283	656	\$138.00
ADD: 6500 ENH O2 DM	Enhanced "BN" APX 4500 and APX 6500 Models Only	GA01773	681	\$138.00

O3 Control Head Main Model

Description	Full Description	Nomenclature	APC	Price
O3 CH	APX 6500, 7500 and 8500 Models Only	H1902	656	\$1,041.00
O3 LS CH	APX 6500, 7500 and 8500 Models Only Has Light & Siren key pad printing to help facilitate integrated controls.	H1903	656	\$1,096.00

O3 Control Head Mounting Options

Description	Full Description	Nomenclature	APC	Price
ADD: O3 DASH OR NO MOUNT	-	GA01284	656	\$0.00

ADD: O3 REMOTE MOUNT	-	GA01300	656	\$138.00
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E5 Control Head Main Models

Description	Full Description	Nomenclature	APC	Price
E5 CH	APX 6500 7500 and APX 8500 Models Only	H1930	681	\$717.00

E5 Control Head Mounting Options

Description	Full Description	Nomenclature	APC	Price
ADD: E5 REMOTE CHIB	APX 6500, 7500 and 8500 Models Only	GA01755AA	681	\$138.00
ADD: 8500 E5 DM	APX 8500 MP Models Only	GA01756AA	681	\$176.00
ADD: E5 DASH MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	GA01754AA	681	\$138.00
ADD: 6500 ENH E5 DM	Enhanced APX "BN" 4500 and APX 6500 Models Only	GA01757AA	681	\$138.00

O7 Control Head Main Model

Description	Full Description	Nomenclature	APC	Price
O7 LS CH	APX 6500, 7500 and 8500 Models Only Model has Light & Siren key pad printing to help facilitate integrated controls	H1906	656	\$750.00
O7 CH	APX 6500, 7500 and 8500 Models Only	H1905	656	\$695.00

O7 Control Head Mounting Options

Description	Full Description	Nomenclature	APC	Price
ADD: O7 REMOTE CHIB	APX 6500, 7500 and 8500 Models Only	GA01278	656	\$138.00
ADD: 8500 O7 DM	APX 8500 MP Models Only	GA01585	656	\$176.00
ADD: O7 DASH MOUNT	Classic "AN" APX 6500 and APX 7500 Models Only	GA01286	656	\$138.00
ADD: 6500 ENH O7 DM	Enhanced "BN" APX 4500 and APX 6500 Models Only	GA01774	681	\$138.00

Power Cable Options

Description	Full Description	Nomenclature	APC	Price
ADD: NO PWR CBL	Satisfies Power cable ordering requirement	GA01301	656	\$0.00
ADD: PWR CBL MP RADIO DASH	Corresponding kit: HKN4191	GA01288	656	\$17.00
ADD: PWR CBL MP RADIO REMOTE	Corresponding kit: HKN4192	GA01289	656	\$39.00
ADD: PWR CBL HP RADIO REMOTE	-	GA01287	656	\$39.00

Accessory Cable

Description	Full Description	Nomenclature	APC	Price
ADD: NO ACCESSORY CABLE	Satisfies accessory cable ordering requirement	GA01297	656	\$0.00
ADD: O3 ACCESSORY CABLE	Corresponding kit: PMLN4959	GA01295	656	\$99.00
ADD: ACCESSORY CABLE	Corresponding kit: HKN6863	GA01296	656	\$33.00

Microphone

Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Satisfies Microphone ordering requirement.	G90	656	\$0.00
ADD: KEYPAD MIC GCAI	Corresponding kit: HMN4079	W20	471	\$198.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090	W22	471	\$79.00

Speaker

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031.	B18	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: NO SPEAKER NEEDED	Satisfies Speaker ordering requirement	G142	656	\$0.00

TIB Options

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE TIB	Satisfies TIB ordering requirement for remote mount	GA01282	656	\$0.00
ADD: 8500 MP TIB	APX 8500 MP Models Only	GA01586	656	\$193.00
ADD: APX MP REMOTE TIB	Classic "AN" APX 4500, 6500 and APX 7500 Models Only	GA01281	656	\$193.00
ADD: 6500 ENH MP TIB	Enhanced APX 4500 and APX 6500 "BN" Models Only	GA01775	656	\$193.00

CAN Cable Selection

Description	Full Description	Nomenclature	APC	Price
ADD: NO REMOTE CABLE NEEDED	Satisfies CAN cable ordering requirement	GA00179	656	\$0.00
ADD: CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Corresponding kit: HKN6169	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD: CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD: REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	***For Dual/Tri/Quad configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual, tri, or quad control radio*** Corresponding kit: HKN6164	G582	656	\$72.00

APX Personnel Accountability

Accountability Server - Hardware

Description	Full Description	Nomenclature	APC	Price
CEN SERVER	-	T8399	877	\$15,000.00
SOFTWARE,VMWARE VSPHERE 6.X FDN 2 CPU SW	-	DVN4359	877	\$0.00

For Conventional Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA MIXED MODE CONVENTIONAL SYSTEM LICENSE	-	TT3031	708	\$100.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00

For Trunked Personnel Accountability users:

Description	Full Description	Nomenclature	APC	Price
APAA PC CLIENT LICENSES	-	TT3028	708	\$5,490.00
APAA SERVER SOFTWARE LICENSE	-	TT3029	708	\$24,705.00
APAA EASYSTAFF RADIO ACCESS LICENSE	-	TT3030	708	\$92.00
INFORMATION ASSURANCE LICENSE FOR APAA SERVER	-	TT3108	708	\$18,300.00
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Device Management Service

DMS-Advanced APX Portables or Mobiles: New RM Customer

Description	Model	APC	List Price- One time charge	List Price Per Year Per Device
BASE MODEL: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$32.00
APX DMS TRAINING VIRTUAL (1 SEAT)	PSV01S01987A	943	\$1,500	
APX DMS TRAINING MSI SITE (1 SEAT)	PSV01S01988A	943	\$1,500	
APX DMS TRAINING CUST SITE (12 SEATS)	PSV01S01989A	943	\$18,000	
DMS ONSITE SETUP	LSV01S02013A	209	\$30,000	
OPTION 1: ASTRO DMS ADVANCED HOSTING	LSV01S01033A	700		\$0
OPTION 2: ASTRO DMS ON-PREM	LSV03S02047A	700		\$0

DMS-Advanced APX Portables or Mobiles: Current RM Customer

Description	Model	APC	List Price-One time charge	List Price Per Year Per Device
BASE MODEL: Includes Radio Management licensing & Tech Support	LSV01S01034A	700		\$15.00
APX DMS TRAINING VIRTUAL (1 SEAT)	PSV01S01987A	943	\$1,500	
APX DMS TRAINING MSI SITE (1 SEAT)	PSV01S01988A	943	\$1,500	
APX DMS TRAINING CUST SITE (12 SEATS)	PSV01S01989A	943	\$18,000	
DMS ONSITE SETUP	LSV01S02013A	209	\$30,000	
OPTION 1: ASTRO DMS ADVANCED HOSTING	LSV01S01033A	700		\$0
Option 2: ASTRO DMS ON-PREM	LSV03S02047A	700		\$0

DMS-FAST TRACK Advanced APX Portables or Mobiles: New RM Customer

License Software Model	Description	Intent for SDS	Price	QTY
HKVN4646A	APX DEVICE MANAGEMENT LICENSES	LICENSES	\$0	Number of Devices
HKVN4511A	APX DEVICE MANAGEMENT SUBSCRIPTION	SUBSCRIPTION	\$0	1

Hardware for Advanced Packages:

Description	Full Description	Nomenclature	APC	Price
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,848.00

Server

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT WINDOWS SERVER	Recommended for Medium-sized Radio Fleets. 1 TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER3	571	\$9,601.00
RACK MOUNT WINDOWS SERVER	Recommended for Large Radio Fleets. 2TB SAS Solid State System Drive, Dual NIC, Supports RAID 5, 2x8GB 1Rx4 PC4-2133P-R Kit, redundant Pwr Supply.	DSSUBSERVER4	571	\$9,464.00

Job Processors

Description	Full Description	Nomenclature	APC	Price
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DVD-RW/USB Kit	DSSUBSERVER1	571	\$6,181.00
RACK MOUNT WINDOWS SERVER	2.4GHz 8-core 1P 16GB-R P440ar 500W PS Base SAS Server, DL360 GEN9 E5-2630V3 KIT, 8GB 1Rx4 PC4-2133P-R KIT, DVD-RW/USB Kit	DSSUBSERVER2	571	\$7,836.00

Radio Management Clients / Device Programmers

Description	Full Description	Nomenclature	APC	Price
WINDOWS DESKTOP	-	DSSUBDESKTOP	571	\$1,848.00
WINDOWS LAPTOP	-	DSSUBLAPTOP	571	\$1,156.00

DMS-Premier APX Portables or Mobiles

Description	Model	APC	List Price-per device per month	List Price Per device Per year
BASE MODEL: Premier 3 yr See above for inclusions	MSV01S00843A	700	\$24.00	\$864.00

**ASTRO® Digital APX 900™ Portable Series
2-WAY RADIO ACCESSORIES**

Antennas

Description	Full Description	Nomenclature	APC	Price
VHF STUBBY ANTENNA 11CM(136-147MHZ)	UL Approved	PMAD4093A	555	\$12.00
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved	PMAD4088B	555	\$23.25
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved	PMAD4094A	555	\$12.00
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved	PMAD4095A	555	\$12.00
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved	PMAE4022B	555	\$11.00
UHF STUBBY ANT (420-445MHZ) 4.5CM	-	PMAE4094B	555	\$13.00
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved	PMAE4100A	555	\$31.25
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved	PMAE4102A	837	\$29.00
ANTENNA, STUBBY,700/800 MHZ 9CM	UL Approved	PMAF4022A	555	\$31.25
ANTENNA COAXIAL WHIP 896-941 MHZ	UL Approved	NAF5088B	555	\$38.50
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	-	NAF5080	555	\$13.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$142.00
BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$125.00
BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00
BATT IMPRES LIION TIA4950 HE DENS IP68 2900T	UL Approved	PMNN4489A	453	\$180.00
BATT IMPRES LIION LOW VOLT IP68 3000T	-	PMNN4493A	453	\$142.00
BATT IMPRES LIION IP68 2100T	-	PMNN4491B	453	\$110.00

Chargers

Description	Full Description	Nomenclature	APC	Price
VEHICULAR CHARGER	-	NNTN7616D	785	\$451.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
CHARGR INTRFCE UNIT GEN1 IMPRES SUC	Single-Unit Charger Interface Unit, attaches to an APX IMPRES single-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to the IMPRES Battery Fleet Management.	NNTN8045A	129	\$75.00
ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$103.00
CHARGER DESKTOP MULTI-UNIT IMPRES 2 1 DISPLAY EXT PS 100-240VAC US/NA	-	PMPN4284A	785	\$707.00
CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	CEC compliant charger replacing WPLN4232A	PMPN4174A	785	\$82.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00

Battery Fleet Management

Description	Full Description	Nomenclature	APC	Price
NA FLEET MANAGEMENT LICENSE KEY	-	HKVN4036A	785	\$489.00

Programming Cables

Description	Full Description	Nomenclature	APC	Price
PORTABLE PROGRAMMING CABLE	Used to program the radio with Customer Programming Software and Tuner Software	PMKN4012B	261	\$84.75
PROGRAMMING, TEST & ALIGNMENT CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible with ALL APX Portable Radios (APX7000/6000/4000/LI/3000)	PMKN4013C	261	\$104.00
CABLE, DATA,APX900 CLONING CABLE	-	PMKN4197A	837	\$77.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2"	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN4651A	271	\$13.00
2.5 INCH SWIVEL BELT LOOP	-	PMLN5610A	271	\$13.25
3.0 INCH SWIVEL BELT LOOP	-	PMLN5611A	271	\$13.25
HARD LEATHER CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5838A	271	\$55.00
HARD LEATHER CARRY CASE WITH 3 IN SWIVEL BELT LOOP - FULL KEYPAD	-	PMLN5840A	271	\$67.00
NYLON CARRY CASE WITH 3 IN FIXED BELT LOOP - FULL KEYPAD	-	PMLN5844A	271	\$28.00
2.5-INCH BELT CLIP	Compatible with NNTN8128, NNTN8129, PMNN4424, PMNN4448 batteries only	PMLN7008A	271	\$14.00
HARD LEATHER CARRY CASE WITH 2.5 IN SWIVEL BELT LOOP - FKP	-	PMLN5842A	271	\$64.75

Dust Cover

Description	Full Description	Nomenclature	APC	Price
DUST COVER ASSEMBLY	-	15012157001	362	\$18.25

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE EARSET - D-SHELL	UL Approved	PMLN5096A	742	\$63.50
IMPRES TEMPLE TRANSDUCER	IMPRES Temple Transducer with boom microphone and inline push-to-talk	PMLN5101A	742	\$271.00
CORE ULTRA-LITE HEADSET	UL Approved	PMLN5102A	742	\$88.50
HEAVY DUTY HEADSET PMLN5275C	UL Approved	PMLN5275C	742	\$534.00

Description	Full Description	Nomenclature	APC	Price
CORE L/W HEADSET	Lightweight Over-the-Head Headset single muff with in-line push-to-talk and boom mic. UL Approved	RMN5058A	742	\$100.00
Bluetooth Accessories				
Description	Full Description	Nomenclature	APC	Price
1-WIRE EARBUD 29CM CORD.BLACK	-	NNTN8294A	742	\$43.25
1-WIRE EARBUD,116CM CORD.BLACK	-	NNTN8295A	742	\$43.25
ACCY.KIT,EAR PIECE,2W SHORT CORD,BL	This covert kit includes 2 sets of two-wire earbud headphones (1 black and 1 white), a single-wire black earbud headphone and a 3.5mm adapter that allows the user to plug in any consumer off-the-shelf headphones. A Mission Critical Wireless Push-To-Talk pod (NTN2571) must be ordered separately to power the earpieces.	NNTN8296A	742	\$194.00
1-WIRE SURVEILLANCE KIT FOR OCW/MCW	-	PMLN7052A	742	\$56.25
FLEXIBLE-FIT SWIVEL EARPIECE W/ BOOM MIC, MULTIPACK	-	PMLN7203A	607	\$44.25
MOTOTRBO BLUETOOTH ACCESSORY KIT W/NA POWER SUPPLY	-	RLN6500A	742	\$107.00
ASSY,ACCY.WIRELESS ACCY KIT, STD PR	-	NNTN8127B	742	\$140.00
XBT HEADSET HB, HEAVY DUTY HEADSET, BT	XBT COTS (Commercial Off-The-Shelf Bluetooth) Wireless Headset. Headband Style. ONLY COMPATIBLE WITH THE APX MODELS WITH FULL KEYPAD	RLN6491A	742	\$699.00
COMPLETELY DISCREET WRLS SURVEILLANCE KIT	Kit includes: Wireless Neckloop Y-adapter and retention hook (NNTN8385), Completely Discreet Earpiece Kit (RLN4922), Mission Critical Wireless Push-to-Talk pod (NTN2571). Optional item not included: Neckloop Retention Clip (NNTN8457A)	NNTN8434A	742	\$556.00
ASSEMBLY,ACCESSORY,WRLSS ACCY KIT, STD PAIR, 12 IN CBL	-	NNTN8125C	742	\$258.00
Bluetooth Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
EARPIECE W/12" CABLE	Replacement cable for NTN2570C	NTN2572A	742	\$168.00
COMMPORT MAINTENANCE KIT	Earpiece Maintenance Kit. Includes 10 silicone ear tubes, 10 microphone seal strips and 2 foam windscreens for Over-the-Ear earpiece	NTN8821	115	\$49.75
COMMPORT EAR STRAP (PACK OF 10)	-	NTN8988A	115	\$18.75
COMMPORT EAR TUBES (PACK OF 10)	-	RLN5037	115	\$40.00
Remote Speaker Microphones (RSMs)				
Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	IMPRES RSM with NON-Threaded Audio Jack, Orange Button, Noise Cancelling (IP54). NOT INTENDED FOR FIRE MARKETS. UL Approved	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	IMPRES RSM with Volume Toggle Switch, Orange Button and 1-Programmable Button, Windporting (IP57). UL Approved	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	IMPRES RSM with NON-Threaded Audio Jack, Windporting (IP55)	PMMN4069A	372	\$133.00
IMPRES RSM NO DSPLY W JACK, NO CHNL	IMPRES RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged, Submersible (IP68).	HMN4101B	372	\$356.00
AUDIO ACCESSORY,IMPRES RSM DSPLY W JACK, NO CHNL	IMPRES Display RSM with Audio Jack, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4103B	372	\$373.00
IMPRES RSM DSPLY W JACK, W CHNL	IMPRES Display RSM with Audio Jack, Channel Selector, Volume Control, 2-Programmable Buttons and Orange Button. Windporting, Rugged and Submersible (IP68).	HMN4104B	372	\$490.00
Earpieces and Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved	RLN4941A	742	\$76.75
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved	AARLN4885	742	\$27.75
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75
BONE CONDUCTION EAR MIC	IMPRES Ear Microphone System with Programmable Button and Large Push-to-Talk. Lightweight earpiece that picks up sound through bone conduction.	PMLN5653A	742	\$431.00
EAR RCVR W/COIL CBL8.3.5MM PLUG	UL Approved	WADN4190B	742	\$44.25
RX/TX BOOMLESS TEMPLE TRANSDUC	Temple Transducer Headset will ONLY work with: HMN4101, HMN4103, HMN4104.	RMN5116A	742	\$268.00
RX ONLY EARPIECE W/TRANSLUCENT TUBE	Compatible with HMN4104, HMN4103 and HMN4101 Remote Speaker Mics ONLY. UL Approved	RLN6424B	742	\$80.00
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$48.75
D-SHELL RX ONLY EARPIECE (3.5MM)	-	PMLN4620B	607	\$21.25
DISPLAY RSM EXT CABLE	UL Approved	PKMN4107A	372	\$57.25
DRSM INTERFACE CABLE NEXUS M-4	-	PKMN4110A	372	\$57.25
DRSM INTERFACE CABLE HIROSE F-	-	PKMN4112A	372	\$57.25
DISPLAY RSM CCAI, REPLACEMENT CABLE	-	PKMN4113A	372	\$57.25
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Replacement Coil Cord Kit for HMN4104, HMN4103 and HMN4101	3075336B17	372	\$97.25
IMPRES RSM REPL COIL CORD	Noise Reduction Rating = 26dB	5080384F72	742	\$126.00
REC ONLY EARPIECE W/TRANSLUCET TUBE, LOUD VERSION	Replacement Coil Cord Kit for PMMN4062, PMMN4065, PMMN4069, PMMN4083 and PMMN4099	RLN6075	372	\$85.00
		RLN4941AXL	742	\$85.00
Surveillance Accessories and Replacement Parts				
Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6668	742	\$135.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6669	742	\$127.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6670	742	\$150.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6729	742	\$123.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	BDN6730	742	\$146.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	BDN6731	742	\$127.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter.	BDN6732	742	\$150.00
1 WIRE SURVEILLANCE KIT-BLACK	1-Wire Receive-only earpiece, black. UL Approved	PMLN6125A	742	\$44.50
1 WIRE SURVEILLANCE KIT-BIEGE	1-Wire Receive-only earpiece, beige. UL Approved	PMLN6126A	742	\$44.50
IMPRES 2 WIRE SURVEILLANCE-BGE	IMPRES 2-Wire Surveillance Kit, programmable button, beige. UL Approved	PMLN6128A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, beige. UL Approved	PMLN6130A	742	\$136.00
IMPRES 2 WIRE SURVEILLANCE -BLK	IMPRES 2-Wire Surveillance Kit, programmable button, black. UL Approved	PMLN6127A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BLK	IMPRES 2-Wire Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6129A	742	\$136.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, black. UL Approved	PMLN6123A	742	\$192.00
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,296.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,296.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	Pack of 10 units	NNTN8457A	187	\$32.50
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$78.75
1.4V BATTERY - 6 PACK	-	RNN4005	453	\$15.75
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$48.75
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	Noise Reduction Rating = 26dB	5080384F72	742	\$126.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75
SMALL CUSTOM EARPIECE, RIGHT EAR	-	RLN4760	742	\$22.25
MEDIUM CUSTOM EARPIECE, RIGHT EAR	-	RLN4761	742	\$22.25
LARGE CUSTOM EARPIECE, RIGHT EAR	-	RLN4762	742	\$22.25
SMALL CUSTOM EARPIECE, LEFT EAR	-	RLN4763	742	\$22.25
MEDIUM CUSTOM EARPIECE, LEFT EAR	-	RLN4764	742	\$22.25
LARGE CUSTOM EARPIECE, LEFT EAR	-	RLN4765	742	\$22.25
AUDIO ACCY ADPT 3.5MM W/PTT	-	BDN6783B	742	\$120.00
ADAPTER,APX SURVEILLANCE KEYLOAD ADAPTER	-	NNTN7869B	742	\$70.25

2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD SPKR MIC W XLOAD EARPIECE	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require NNTN7869 Hirose Adapter.	ZMN6038	476	\$149.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	3-Wire Surveillance Kit, with Extra Loud Earpiece, Beige, Hirose Connector. *APX series require require NNTN7869 Hirose Adapter	ZMN6039	742	\$190.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	2-Wire Surveillance Kit, Beige, Hirose Connector. Requires NNTN7869 Hirose Adapter.	ZMN6032	742	\$143.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	3-Wire Surveillance Kit, Beige, Hirose Connector. *APX series require requires NNTN7869 Hirose Adapter	ZMN6031	742	\$177.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required.	BDN6726	742	\$44.50
IMPRES 3 WIRE W/ TRANS TUBE-BGE	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	BDN6727	742	\$46.75
RECEIVE NLY SURV KIT (BLACK) /NOISE	IMPRES 3-Wire Surveillance Kit with translucent tube, programmable button, beige, UL Approved	PMLN6124A	742	\$192.00
	1-Wire Receive-Only Surveillance Kit with Translucent Tube, Black, 3.5mm Threaded. *APX series require BDN6783 adapter	RLNS313B	742	\$60.00

ASTRO® Digital APX 900™ Portable Series

Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 900 7/800 MHZ MODEL 2 PORTABLE	-	H92UCF9PW6 N	837	\$1,898.00
APX 900 7/800 MHZ MODEL 3 PORTABLE	-	H92UCH9PW7 N	837	\$2,142.00
APX 900 900 MHZ MODEL 2	-	H92WCF9PW6 N	837	\$1,898.00
APX 900 900 MHZ MODEL 3	-	H92WCH9PW7 N	837	\$2,142.00
APX 900 VHF MODEL 2 PORTABLE	-	H92KDF9PW6 N	837	\$1,898.00
APX 900 VHF MODEL 3 PORTABLE	-	H92KDH9PW7 N	837	\$2,142.00
APX 900 UHF1 MODEL 2 PORTABLE	-	H92QDF9PW6 N	837	\$1,898.00
APX 900 UHF1 MODEL 3 PORTABLE	-	H92QDH9PW7 N	837	\$2,142.00
APX 900 UHF2 MODEL 2 PORTABLE	-	H92SDF9PW6 N	837	\$1,898.00
APX 900 UHF2 MODEL 3 PORTABLE	-	H92SDH9PW7 N	837	\$2,142.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,177.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$385.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01648. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Options (Optional)

All APX 900 Radios ship P25 "clear" with QA05751 unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D (Q947). Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking (QA04096). A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	426	\$495.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: MULTIKEY	-	H869	837	\$83.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required.	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature (requires digital).	QA09008	655	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation (QA04096)	QA01767	426	\$110.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ENH: CONVENTIONAL VOTE SCAN	-	Q387AT	430	\$253.00
ENH: AES 256 SW ENCRYPTION	P25 CAP Compliant option. Includes ADP. AES Encryption can NOT be field upgraded. Highly recommended to be purchased up front if needed.	QA06653	837	\$358.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00

Antenna Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (PMAF4022A)	This option will delete the standard antenna (NAF5080) and add 1/4 wave 7/800 stubby antenna (PMAF4022)	H122	837	\$10.00
ALT: VHF STUBBY ANTENNA (136-147MHZ) (PMAD4093A)	This option will delete the standard antenna (PMAD4088) and add 136-147 MHz stubby antenna (PMAD4093)	QA06786	837	\$10.00
ALT: VHF STUBBY ANTENNA (147-160MHZ) (PMAD4094A)	This option will delete the standard antenna (PMAD4088) and add 147-160 MHz stubby antenna (PMAD4094)	QA06787	837	\$10.00
ALT: VHF STUBBY ANTENNA (160-174MHZ) (PMAD4095A)	This option will delete the standard antenna (PMAD4088) and add 160-174 MHz stubby antenna (PMAD4095)	QA06788	837	\$10.00
ALT: UHF1 STUBBY ANTENNA (380-480 MHZ) (PMAE4100)	This option will delete the standard antenna (PMAE4022) and add 380-470 MHz stubby antenna (PMAE4100)	QA06796	837	\$10.00
ALT: UHF2 STUBBY ANTENNA (450-520 MHZ) (PMAE4102)	This option will delete the standard antenna (PMAE4094) and add 450-527 MHz stubby antenna (PMAE4102)	QA06797	837	\$10.00
ALT: UHF2 WHIP ANTENNA (450-520 MHZ) (PMAE4094)	This option will delete the standard antenna (PMAF4022) and adds 450-527 MHz antenna (PMAE4049)	QA06795	837	\$10.00
DEL: DELETE STANDARD ANTENNA (NAF5080)	Deletes standard antenna: NAF5080 (7/800 MHz), NAF5088 (900 MHz), PMAD4088 (VHF), PMAE4022 (UHF)	H112LW	837	(\$10.00)

Battery Selection (Optional)

The APX 900 ships standard with an IMPRES Li-Ion 2100 mAh battery (PMNN4491)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRESS LI-ION 3000MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion 3000 MAH (PMNN4493)	QA06765	837	\$94.00
ALT: IMPRESS LI-ION TIA 2900MAH	This option will delete the standard battery (PMNN4491) and add IMPRES Li-Ion TIA 2900 MAH (PMNN4489)	QA06766	837	\$110.00
DEL: DELETE BATTERY (PMNN4491)	Deletes standard battery (PMNN4491)	H207	837	(\$47.00)

Belt Clip Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	This option deletes the standard belt clip (PMLN4651) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	Deletes standard belt clip (PMLN4651)	H301	426	(\$10.00)

Data Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software (PMKN4013C)	Q157	655	\$83.00

Service Package Selection (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00

ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$194.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORT	-	QA00205	837	\$0.00
ADD: CDROM USER GUIDE	-	H88CE	837	\$28.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	837	\$0.00

Packaging Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	-	H842	837	\$0.00

**ASTRO® Digital APX 900
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
P25 CONVENTIONAL	-	T8523	430	\$0.00
P25 TRUNKING	-	T8524	430	\$0.00

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	-	QA00580AE	430	\$569.00
ENH: P25 DIGITAL CONVENTIONAL TO P25 DIGITAL TRUNKING FLP	-	QA03216AG	837	\$792.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	-	G996AX	430	\$127.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$127.00
ADD: ENHANCED DATA	-	QA03399AB	430	\$190.00
ADD: GROUP SERVICES FLP	-	QA09008	430	\$190.00
ENH: APX GPS ACTIVATION	-	QA00782	426	\$165.00
ENH: MULTIKEY	-	H869CC	430	\$417.00
ADD: MISSION CRITICAL GEOFENCING FLP	-	QA09012AB	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00

Misc

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

**ASTRO® Digital APX 900™ Portable Series
UL Approved Accessories**

Batteries

Description	Full Description	Nomenclature	APC	Price
BATT IMPRES LIION T144950 HE DENS IP68 2900T	UL Approved with APX 900	PMNN4499A	453	\$180.00

Antennas

Description	Full Description	Nomenclature	APC	Price
VHF WIDEBAND ANTENNA (136-174MHZ)	UL Approved with APX 900	PMAD4088B	555	\$23.25
VHF STUBBY ANTENNA 11CM(136-147MHZ)	UL Approved with APX 900	PMAD4093A	555	\$12.00
VHF STUBBY ANTENNA 11CM(147-160MHZ)	UL Approved with APX 900	PMAD4094A	555	\$12.00
VHF STUBBY ANTENNA 11CM(160-174MHZ)	UL Approved with APX 900	PMAD4095A	555	\$12.00
DMR UHF WHIP ANTENNA(403-470MHZ)	UL Approved with APX 900	PMAE4022B	555	\$11.00
ANTENNA, STUBBY,UHF (380-470 MHZ) 9CM	UL Approved with APX 900	PMAE4100A	555	\$31.25
ANTENNA, STUBBY,UHF(450-527 MHZ) 9CM	UL Approved with APX 900	PMAE4102A	837	\$29.00
ANTENNA 1/2 WAVE 7" WHIP 700/800 MHZ	UL Approved with APX 900	NAF5080	555	\$13.00

Headsets

Description	Full Description	Nomenclature	APC	Price
HEAVY DUTY HEADSET PMLN5275C	UL Approved with APX 900	PMLN5275C	742	\$534.00
CORE L/W HEADSET	UL Approved with APX 900	RMN5058A	742	\$100.00
CORE ULTRA-LITE HEADSET	UL Approved with APX 900	PMLN5102A	742	\$88.50

Remote Speaker Microphones (RSMs)

Description	Full Description	Nomenclature	APC	Price
IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	UL Approved with APX 900	PMMN4062A	372	\$129.00
APX IMPRES RSM W/VOL, IP57	UL Approved with APX 900	PMMN4065A	372	\$107.00
IMPRES RSM, 3.5MM AUDIO JACK	UL Approved with APX 900	PMMN4069A	372	\$133.00

Surveillance Kits

Description	Full Description	Nomenclature	APC	Price
IMPRES 3 WIRE W/TRANS TUBE-BLK	UL Approved with APX 900	PMLN6123A	742	\$192.00
IMPRES 3 WIRE W/TRANS TUBE-BGE	UL Approved with APX 900	PMLN6124A	742	\$192.00
IMPRES 2 WIRE SURVEILLANCE -BLK	UL Approved with APX 900	PMLN6127A	742	\$117.00
IMPRES 2 WIRE SURVEILLANCE-BGE	UL Approved with APX 900	PMLN6128A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BLK	UL Approved with APX 900	PMLN6129A	742	\$136.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	UL Approved with APX 900	PMLN6130A	742	\$136.00
RECEIVE NLY SURV KIT (BLACK) /NOISE	UL Approved with APX 900	RLN5313B	742	\$60.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
1 WIRE SURVEILLANCE KIT-BLACK	UL Approved with APX 900	PMLN6125A	742	\$44.50
1 WIRE SURVEILLANCE KIT-BIEGE	UL Approved with APX 900	PMLN6126A	742	\$44.50
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN4941A	742	\$76.75
EAR RCVR W/COIL CBL&3.5MM PLUG	UL Approved with APX 900	WADN4190B	742	\$44.25
RX ONLY EARPIECE W/TRANSLUCENT TUBE	UL Approved with APX 900	RLN6424B	742	\$80.00
CORE EARSET - D-SHELL	UL Approved with APX 900	PMLN5096B	607	\$68.75
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	UL Approved with APX 900	AARLN4885	742	\$27.75

Misc

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCY ADPT 3.5MM W/PTT	UL Approved with APX 900	BDN6783B	742	\$120.00

ASTRO® Digital APX 1000 FLASHport® Aftermarket Upgrades

Models	Description	Full Description	Nomenclature	APC	Price
	P25 CONVENTIONAL	-	T8279	430	\$0.00
	P25 TRUNKING	-	T8280	430	\$0.00
Operation Mode	Description	Full Description	Nomenclature	APC	Price
	ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
	ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
System Enhancement Options	Description	Full Description	Nomenclature	APC	Price
	ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
	ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
	ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
	ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
	ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can nolonger order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
	ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
	ENH: MULTIKEY	-	H869CC	430	\$417.00
	ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
	ADD: MISSION CRITICAL GEOFENCING FLP	-	QA09012AB	430	\$190.00
	ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767AV	430	\$127.00
Misc	Description	Full Description	Nomenclature	APC	Price
	ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 1000™ Portable Series 2-WAY RADIO ACCESSORIES

Antennas	Description	Full Description	Nomenclature	APC	Price
	700/800- GPS ANTENNA	-	NAF5085A	555	\$48.50
	UHF (380-520) GPS ANTENNA	-	PMAE4065A	555	\$22.75
	ANT.HLCL.136MHZ MIN.1.577GHZ M	-	NAR6593A	555	\$41.00
	ANT 1/4 WAVE 7/800 STUBBY	-	NAR6595A	555	\$31.25
	UHF1 GPS STUBBY ANTENNA	-	FAF5259A	555	\$64.75
	UHF2 GPS STUBBY ANTENNA	-	FAF5260A	555	\$64.75
Batteries	Description	Full Description	Nomenclature	APC	Price
	BATTERY PACK, MAH,BATT IMP STD IP67 LIION2700M2800T	-	PMNN4448AR	453	\$125.00
	BATT IMP LI ION 2300M 2350T	-	PMNN4424AR	453	\$142.00
	BATT IMP STD LI ION 1900M 2000T	-	NNTN8128BR	453	\$117.00
Chargers	Description	Full Description	Nomenclature	APC	Price
	CHGR DESKTOP SINGLE UNIT IMPRES, US/NA	-	PMPN4174A	785	\$82.00
	ACCESSORY.ACCESSORY.CHARGER.IMPRES MUC - US/NA PLUG	-	WPLN4212B	785	\$495.00
	ASSEMBLY, CHARGER, MOTOTRBO TRAVEL	-	NNTN8525A	785	\$103.00
	ACCESSORY IMPRES CHARGER DISPLAY SALES MODULE (CDM)	-	RLN5382C	785	\$95.00
	WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	-	NLN7967	785	\$22.75
	INSERT, UNIVERSAL MUC	-	NNTN8170A	785	\$224.00
	INSERT, UNIVERSAL SUC	-	NNTN8169A	453	\$45.00
Battery Fleet Management	Description	Full Description	Nomenclature	APC	Price
	IMPRES BATTERY DATA READER	-	NNTN7392	785	\$250.00
	NA FLEET MANAGEMENT LICENSE KEY	-	HKV/N4036A	785	\$489.00
	FLEET MANAGEMENT CHGRG INTERFACE UNIT	-	NNTN7677A	291	\$159.00
	CHGRG INTRFCE UNT GEN1 IMPRES SUC	-	NNTN8045A	129	\$75.00
Programming Cables	Description	Full Description	Nomenclature	APC	Price
	PROGRAMMING, TEST & ALIGNMENT CABLE	-	PMKN4013C	261	\$104.00
Carry Solutions	Description	Full Description	Nomenclature	APC	Price
	APX2000/4000 ONE-KNOB, SWIVEL, LEATHER CARRY CASE	-	PMLN6085A	271	\$64.75
	2.75" SWL D-STUD BELT LOOP	-	PMLN7229A	271	\$22.75
	BELT CLIP 2"	-	PMLN4651A	271	\$13.00
	2.5-INCH BELT CLIP	-	PMLN7008A	271	\$14.00
Remote Speaker Microphones (RSMs)	Description	Full Description	Nomenclature	APC	Price
	IMPRES RSM, NOISE CANC. EMERGENCY BUTTON 3.5MM JACK IP54	-	PMMN4062A	372	\$129.00
	APX IMPRES RSM W/VOL, IP57	-	PMMN4065A	372	\$107.00
	IMPRES RSM, 3.5MM AUDIO JACK	-	PMMN4069A	372	\$133.00
Remote Speaker Microphone Accessories and Replacement Parts	Description	Full Description	Nomenclature	APC	Price
	RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75
	REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$62.75
	RECEIVE-ONLY FOAM EARBU D WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
	ACCESSORY KIT EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
	ACCESSORY KIT EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
	ACCESSORY KIT EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75
	REC ONLY EARPIECE W/TRANSLUCENT TUBE	-	PMLN7560A	742	\$62.75
	D-SHELL RX-ONLY EARPIECE (3.5MM)	-	PMLN4620B	607	\$21.25
	EAR RCVR W/COIL CBL.3.5MM PLUG	-	WADN4190B	742	\$44.25
	RX/TX BOOMLESS TEMPLE TRANSDUC	-	RMN5116A	742	\$268.00
	RX ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN6424B	742	\$80.00
	FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$126.00
	REPLACEMENT RUBBER EARTIPS, CLEAR	-	5.08E+103	742	\$32.25
	DISPLAY RSM EXT CABLE	-	PMKN4107A	372	\$57.25
	DRSM INTERFACE CABLE NEXUS M-4	-	PMKN4112A	372	\$57.25
	DRSM INTERFACE CABLE HIROSE F-	-	PMKN4113A	372	\$57.25
	DISPLAY RSM GCAI, REPLACEABLE CABLE	-	3075336B17	372	\$97.25
	IMPRES RSM REPL COIL CORD	-	RLN6075	372	\$85.00
Ear Microphones	Description	Full Description	Nomenclature	APC	Price
	BONE CONDUCTION EAR MIC	-	PMLN5653A	742	\$431.00

EARGUARD	-	1.80E+30	742	\$49.50
EARHOLDER SMALL BLK	-	0180358B32	742	\$20.00
EARHOLDER MEDIUM BLK	-	0180358B33	742	\$19.00
EARHOLDER LARGE BLK	-	0180358B34	271	\$20.00
EARHOLDER MEDIUM CLR	-	0180358B36	742	\$20.00
EARHOLDER LARGE CLR	-	0180358B37	742	\$20.00

Surveillance Kits

Description	Full Description	Nomenclature	APC	Price
1 WIRE SURVEILLANCE KIT-BLACK	-	PMLN6125A	742	\$44.50
1 WIRE SURVEILLANCE KIT-BIEGE	-	PMLN6126A	742	\$44.50
IMPRES 2 WIRE SURVEILLANCE -BLK	-	PMLN6127A	742	\$117.00
IMPRES 2 WIRE SURVEILLANCE-BGE	-	PMLN6128A	742	\$117.00
IMPRES 2 WIRE W/TRANS TUBE BLK	-	PMLN6129A	742	\$136.00
IMPRES 2 WIRE W/TRANS TUBE BEIGE	-	PMLN6130A	742	\$136.00
IMPRES 3 WIRE W/ TRANS TUBE-BLK	-	PMLN6123A	742	\$192.00
IMPRES 3 WIRE W/ TRANS TUBE-BGE	-	PMLN6124A	742	\$192.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED - EXTRA LOUD	-	ZMN6038	476	\$149.00
SPKR MIC W XLOAD EARPIECE	-	ZMN6039	742	\$190.00
3-WIRE SURVEILLANCE KIT WITH MICROPHONE & PTT COMBINED, BEIGE	-	ZMN6031	742	\$177.00
2-WIRE SURVEILLANCE KIT WITH MICROPHONE AND PTT COMBINED	-	ZMN6032	742	\$143.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	-	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6726	742	\$44.50
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	-	BDN6727	742	\$46.75
RECEIVE ONLY EARPIECE, BEIGE W/EXTENDED WEAR COMFORT EARPIECE(NTN8371)	-	RLN5314	742	\$54.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	-	BDN6729	742	\$123.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	-	BDN6669	742	\$127.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	-	BDN6731	742	\$127.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	-	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	-	BDN6730	742	\$146.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	-	BDN6670	742	\$150.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	-	BDN6732	742	\$150.00

Surveillance Kits Replacement Parts

Description	Full Description	Nomenclature	APC	Price
PHONITO NANO EARPIECE - BEIGE	-	GMLN5261A	607	\$1,296.00
PHONITO NANO EARPIECE - BROWN	-	GMLN5262A	607	\$1,296.00
EARWAX GUARDS 5 PACK	-	RLN4919	742	\$15.75
NECKLOOP RETENTION HOOK, BULK REPLACEMENT	-	NNTN8457A	187	\$32.50
DISCREET EARPIECE KIT	-	RLN4921	372	\$275.00
NECKLOOP FOR DISCREET EARPIECE KIT	-	RLN4920A	372	\$78.75
1.4V BATTERY - 6 PACK	-	RNN4005	453	\$15.75
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
REPLACEMENT EAR TIPS, CLEAR-50/PAK	-	RLN6282A	742	\$48.75
FOAM EARPLUGS (PACK OF 50) - FOR USE WITH NTN8370	-	5080384F72	742	\$126.00
SURVEILLANCE LOW NOISE KIT	-	RLN5886A	742	\$20.00
SURVEILLANCE HIGH NOISE KIT	-	RLN5887A	742	\$32.00
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75

Headsets

Description	Full Description	Nomenclature	APC	Price
CORE EARSET - D-SHELL	-	PMLN5096A	742	\$63.50
CORE ULTRA-LITE HEADSET	-	PMLN5102A	742	\$88.50
HEAVY DUTY HEADSET	-	PMLN5275A	742	\$485.00
NEXT GEN BTH HEADSET GCAI	-	PMLN6852A	742	\$356.00
AUDIO ACCESSORY-HEADSET,NEXT GEN BTH HEADSET GCAI TIA4950	-	PMLN6853	742	\$478.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI)	-	PMLN7466A	742	\$356.00
AUDIO ACCESSORY-HEADSET,HEADSET,NEXT GEN OTH HVY-DTY (GCAI) TIA4950	-	PMLN7467A	619	\$478.00
IMPRES TEMPLE TRANSDUCER	-	PMLN5101A	742	\$271.00

Hearing Protection

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,EP7-SM SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6511A	742	\$30.75
ACCESSORY KIT,EP7-M SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6512A	742	\$30.75
ACCESSORY KIT,EP7-LG SONIC DEFENDERS ULTRA EARPLUGS	-	RLN6513A	742	\$30.75

ASTRO® Digital APX 1000™ Portable Series UHF Band

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 1000 UHF R1 MODEL 1.5 PORTABLE	-	H84QDD9PW5 N	837	\$1,391.00
APX 1000 UHF R1 MODEL 2 PORTABLE	-	H84QDF9PW6 N	837	\$1,597.00
APX 1000 UHF R1 MODEL 3 PORTABLE	-	H84QDH9PW7 N	837	\$1,803.00
APX 1000 UHF R2 MODEL 1.5 PORTABLE	-	H84SDD9PW5 N	837	\$1,391.00
APX 1000 UHF R2 MODEL 2 PORTABLE	-	H84SDF9PW6 N	837	\$1,597.00
APX 1000 UHF R2 MODEL 3 PORTABLE	-	H84SDH9PW7 N	837	\$1,803.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING	-	QA04096	837	\$1,177.00
ENH: P25 CONVENTIONAL	-	QA04097	837	\$385.00

3: System Enhancement Software (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	-	QA01648	655	\$6.00

4: System Enhancement Options (Not Required)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580	426	\$495.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: MULTKEY	-	H869	837	\$83.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking operation.	QA01767	426	\$110.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00

5: Algorithm

Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00

6: Antenna

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard antenna. 7/800-NAF5085, VHF-NAR6593, UHFR1/R2-PMAE4065.	H112	426	(\$10.00)
ALT: UHFR2 GPS STUBBY ANTENNA (FAF5260)	-	QA02017	426	\$61.00
7: Battery				
Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LHION 2350MAH (PMNN4424)	Kit(PMNN4424) Non-FM & Non-UL	QA02749	426	\$94.00
ALT: IMPRES LHION 2800MAH (PMNN4448)	This Battery Option does NOT provide UL or FM Compliance	QA04146	837	\$110.00
DEL: DELETE BATTERY	-	H207	426	(\$47.00)
8: Belt Clip (s)				
Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	-	H301	426	(\$10.00)
9: Data Cable (s)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
10: Service Options				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00045	185	\$194.00
11: Manual				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE APX1000 CD-ROM	-	H88	837	\$28.00
12: Test Results				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00
13: RFID Enabled Volume Knob				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	Compatible with APX4000/APX2000/APX1000. Portable radio volume knob with embedded RFID tag making it easier to track assets. When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio. AFTERMARKET purchase through Parts department for fielded radios as follows:	QA04526	426	\$28.00

**ASTRO® Digital APX 1500
FLASHport® Aftermarket Upgrades**

Description	Full Description	Nomenclature	APC	Price
SOFTWARE ANALOG 3600 BAUD	-	T8289	430	\$0.00
SOFTWARE P25 CONVENTIONAL	-	T8290	430	\$0.00
SW P25 TRUNKING	-	T8291	430	\$0.00
ANALOG CONVENTIONAL	-	T8288	430	\$0.00
3600 OR 9600 TRUNKING BAUD SINGLE SYSTEM	-	T8292	430	\$0.00
Options				
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AC	430	\$569.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKED ONE TOUCH BUTTON	-	G683AF	430	\$150.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: RADIO TRACE	-	G170AL	430	\$95.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AX	430	\$316.00
ADD: APX 6500 LINK LAYER AUTH FLASHPORT	Requires G361.	GA01767AJ	430	\$127.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AY	430	\$127.00
ENH: APX GPS ACTIVATION	Requires W947.	GA00229AC	430	\$190.00
Software				
Description	Full Description	Nomenclature	APC	Price
ADD: FPP (FED) & CLONE	-	GA00243AB	430	\$191.00
ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ENH: ENHANCEMENT LEVEL 1	-	GA01770AC	430	\$253.00
ADD: MULTICAST VOTING SCAN	-	G387	471	\$220.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AA	430	\$1,607.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AC	430	\$1,290.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	-	GA00982AB	430	\$165.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	GA00894AB	430	\$721.00

ADD: RF PRE-AMPLIFIER	-	W12DR	430	\$83.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	GA00892AA	430	\$1,012.00
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: MULTIKEY	-	W969	466	\$95.00
ADD: APX GEOFENCE MOB FLP	-	GA01202AB	430	\$190.00
ADD: DVRS PSU ACTIVATION APX MOBILE FLASHPORT	-	QA00631AD	430	\$110.00
ENH: ANALOG 3600 TRUNKING TO 9600 AND 3600 TRUNKING WITH INTEROP	-	GA00895AB	430	\$1,177.00

ASTRO® Digital APX 3000 FLASHport® Aftermarket Upgrades

Models		Description	Full Description	Nomenclature	APC	Price
		DIGITAL CONVENTIONAL	-	T7991	430	\$0.00
		9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7992	430	\$0.00
		TDMA	-	T7993	430	\$0.00
		9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T7997	430	\$0.00

Options		Description	Full Description	Nomenclature	APC	Price
		ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00

System Enhancement Software		Description	Full Description	Nomenclature	APC	Price
		ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRS QA00631.	H02AH	430	\$95.00
		ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
		ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
		ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
		ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
		ADD: APX GEOFENCE PORT FPL	Requires QA00782(GPS), and QA03399 (ENHANCED DATA).	QA04447AB	430	\$190.00

Systems Enhancement Options		Description	Full Description	Nomenclature	APC	Price
		ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
		ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00
		ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
		ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
		ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
		ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
		ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
		ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
		ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
		ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
		ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00

Algorithm Options		Description	Full Description	Nomenclature	APC	Price
		ADD: MULTIKEY AND OTAR	-	H868BM	430	\$936.00
		ENH: MULTIKEY	-	H869CC	430	\$417.00
		ENH: TACTICAL REKEY	Requires IV&D (Q947). Includes MULTIKEY. Tactical OTAR is not compatible with DVRS QA00631.	H04AW	430	\$443.00
		ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$936.00

UNDEFINED		Description	Full Description	Nomenclature	APC	Price
		ENH: ENHANCEMENT LEVEL 1	-	QA01770AC	430	\$253.00
		REMOVAL OF SINGLE SYSTEM TRIGGER (QA02811)	-	QA03217AA	430	\$0.00
		ADD: BASIC DEVICE COLLABORATION SOF	-	QA03176AJ	430	\$190.00
		ENH: DIGITAL CONVENTIONAL TO 9600 AND 3600 TRUNKING WITH INTEROP	-	QA03015AF	430	\$1,923.00
		ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 3000™ Portable Radio

Main Model (Must Select One)		Description	Full Description	Nomenclature	APC	Price
		APX COVERT 7/800 MHZ MODEL 1 PORTABLE	-	H59LCD9PW4 N	536	\$3,229.00
		APX COVERT VHF MHZ MODEL 1 PORTABLE	-	H59KGD9PW4 N	536	\$3,229.00
		APX COVERT UHF/R1 MHZ MODEL 1 PORTABLE	-	H59QDD9PW4 N	536	\$3,229.00
		APX COVERT UHF/R2 MHZ MODEL 1 PORTABLE	-	H59SDD9PW4 N	536	\$3,229.00

Operation Mode (Must Select One)		Description	Full Description	Nomenclature	APC	Price
		ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00580AH: TMDA Operation, QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02591	536	\$2,822.00
		ENH: ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	Includes H38BZ: SmartZone Operation, Q361AY: P25 9600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02592	536	\$2,592.00
		ENH: SOFTWARE TRUNKING 9600 BAUD OR 3600 BAUD	Includes H38BZ: SmartZone Operation, Q02811AF: P25 9600 or 3600 Baud Trunking, Q806BV: ASTRO Digital CAI Operation, Q173BM: SmartZone OmniLink (Non-P25), QA00583AJ: BlueTooth, Q387BF Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key	QA02756	536	\$2,042.00
		ENH: ENH: SOFTWARE P25 CONVENTIONAL	Includes H35CA: Conventional Operation, Q806BV: ASTRO Digital CAI Operation, QA00583AJ: BlueTooth, Q387BF: Multicast Voting, H43BM: Trunked Radio Trace/ Remote Monitor	QA02593	536	\$1,282.00

System Enhancement Software		Description	Full Description	Nomenclature	APC	Price
		ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The hardware key QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Options (Optional)		Description	Full Description	Nomenclature	APC	Price
		ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996	536	\$110.00
		ENH: ONE TOUCH/STATUS MSG	-	H46	536	\$83.00

ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947	536	\$275.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	536	\$110.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770	536	\$220.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$110.00
ENH: TACTICAL RADIO / STUNKILL	Tactical Stun Kill is not compatible with DVRS QA00631. Requires an encryption. Incompatible with ADP-only.	H02	536	\$83.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: ENHANCED DATA	Requires Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361)	QA03399	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: GROUP SERVICES	-	QA09008	655	\$165.00

Algorithm Selection (Required)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Requires digital (Q806), IV&D, and an encryption (not including ADP-only).	H797	536	\$536.00
ADD: TACTICAL REKEY WITH MULTIKEY	Required when using more than one encryption algorithm or encryption key	H04	536	\$365.00
ENH: MULTIKEY	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	H869	536	\$363.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Not compatible with ADP-Only. Includes multikey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q15	536	\$879.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	Q498	536	\$814.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q625	536	\$659.00
ENH: AES ENCRYPTION AND ADP	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q629	536	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	-	QA05751	655	\$0.00

Antenna Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800 MHz FLEXIBLE ANTENNA	This option deletes the standard antenna (NAF5085) and replaces it with 7/800 MHz flexible dribble antenna (PMAF4006)	QA03192	536	\$44.00
ADD: VHF FLEXIBLE ANTENNA	This option deletes the standard antenna (NAR6593) and replaces it with 136-174 MHz flexible GPS dribble antenna (PMA04125)	QA03194	536	\$44.00
ALT: UHF/2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	536	\$61.00
ADD: UHF GPS FLEXIBLE ANTENNA	This option (QA02017AM) deletes the standard antenna (PMAE4065) and replaces it with 380-520 MHz GPS antenna (PMAE4080)	QA03193	536	\$44.00
ALT: UHF/2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AN) deletes the standard antenna (PMAE4065) and replaces it with 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	536	\$61.00

Battery Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: BATTERY	This option deletes the standard batteries (NNTN8305AR - qty 2)	H207	536	(\$47.00)
ALT: SLIM LI-ION IMPRES 2000MAH (NNTN8128)	This option deletes the standard batteries and holster (NNTN83505AR - qty2) and adds IMPRES Li-Ion 2000 mAh battery (NNTN8128BR)	QA03163	536	\$0.00
ALT: IMPRES LI-ION 2350MAH (PMNN4424)	This option deletes the standard batteries and holster (NNTN83505AR - qty2) and adds IMPRES Li-Ion 2350 mAh battery (PMNN4424AR)	QA02749	536	\$94.00
ALT: IMPRES LI-ION 2800MAH (PMNN4448)	-	QA02750	426	\$110.00

Belt Clip Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	-	Q698	536	\$13.00
APX3000 COVERT CARRY HOLSTER	APX3000 COVERT CARRY HOLSTER This compact carry holster is designed so you can securely and discreetly carry the APX 3000 Radio. It features a fixed carry clip that allows you to clip the radio to a belt.	PMLN6327A	271	\$32.50

Cable Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX PROGRAMMING CABLE	Includes programming, test and alignment cable (PMKN4013C) This is a GCAI cable at radio interface and USB connection at other end for computer programming. Please note that the PMKN4012A is NOT compatible with the APX 3000	Q157	536	\$83.00

Wired/Wireless Accessory Bundle Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MCW ACCESSORY BUNDLE PACK 1	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296), one Mission Critical Wireless push-to-talk pod (NNTN2571) and one Mission Critical Wireless Key Fob (PMLN6233)	QA03276	742	\$500.00
ADD: MCW ACCESSORY BUNDLE PACK 2	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and two Mission Critical Wireless push-to-talk pods (NNTN2571) to power the earbud headphones	QA03277	742	\$400.00
ADD: MCW ACCESSORY BUNDLE PACK 3	Includes one Mission Critical Wireless Covert Audio Accessory Kit (NNTN8296) and one Mission Critical Wireless push-to-talk pod (NNTN2571) to power the earbud headphones	QA03278	742	\$289.00
ALT: IMPRES 3-WIRE SURVEILLANCE KIT - BLACK	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124) and includes an IMPRES 3-wire surveillance kit in black (PMLN5111A)	QA03178	536	\$0.00
DEL: IMPRES 3_WIRE SURVEILLANCE KIT	This option deletes the standard beige IMPRES 3-wire surveillance kit (PMLN6124)	QA04448	591	(\$65.00)

Service Package Selection (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$194.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE CD APX3000 UG CDROM	-	H88	536	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Test Results Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	536	\$0.00

**ASTRO® Digital APX 4000
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7904	430	\$0.00
ANALOG 3600 TRUNKING	-	T7905	430	\$0.00
DIGITAL CONVENTIONAL	-	T7906	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7907	430	\$0.00
TDMA	-	T7909	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$721.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$443.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$1,012.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QAO1749. The HARDWARE KEY QAO1648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanpaps with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00
ADD: ENHANCED DATA	-	QA03399AB	430	\$190.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ENH: ENHANCEMENT LEVEL 1	-	QA01770AG	430	\$253.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ENH: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52AK	430	\$190.00
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ENH: TACTICAL RADIO SOFTWARE	-	H02AH	430	\$95.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947), includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$443.00
ENH: MULTIKEY	-	H869CC	430	\$417.00

MISC

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

ASTRO® Digital APX 4000™ Portable Series

Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 4000 7/800 MHZ MODEL 2 PORTABLE	-	H51UCF9PW6 N	426	\$2,332.00
APX 4000 7/800 MHZ MODEL 3 PORTABLE	-	H51UCH9PW7 N	426	\$2,841.00
APX 4000 900 MHZ MODEL 2 PORTABLE	-	H51WCF9PW6 N	426	\$2,332.00
APX 4000 900 MHZ MODEL 3 PORTABLE	-	H51WCH9PW7 N	426	\$2,841.00
APX 4000 VHF MHZ MODEL 2 PORTABLE	-	H51KDF9PW6 N	426	\$2,332.00
APX 4000 VHF MHZ MODEL 3 PORTABLE	-	H51KDH9PW7 N	426	\$2,841.00
APX 4000 UHF R1 MHZ MODEL 2 PORTABLE	-	H51ODF9PW6 N	426	\$2,332.00
APX 4000 UHF R1 MHZ MODEL 3 PORTABLE	-	H51ODH9PW7 N	426	\$2,841.00
APX 4000 UHF R2 MODEL 2 PORTABLE	-	H51SDF9PW6 N	426	\$2,332.00
APX 4000 UHF R2 MODEL 3 PORTABLE	-	H51SDH9PW7 N	426	\$2,841.00

Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ANALOG 3600 BAUD	-	Q443	426	\$1,210.00
ENH: SOFTWARE P25 CONVENTIONAL	-	Q811	426	\$650.00
ENH: 3600 OR 9600 TRUNKING BAUD SIN	This option provides P25 trunking functionality when programmed in 9600 trunking. When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	426	\$1,727.00
ENH: ANALOG CONVENTIONAL	-	QA02829	426	\$440.00

System Enhancement Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Compatible with P25 trunking and conventional operation. POP25 requires AES encryption for ASTRO conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming user must use Advanced System Key (DVN4046A).	G996	426	\$110.00
ADD: TDMA OPERATION	Requires P25 trunking. A software key (QA01749), hardware key (QA01648) or WACN Key (QA02018) is required. The hardware or WACN key will still require a DVN4046 to be purchased.	QA00580	426	\$495.00
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The software key is the default Advance System Key option that ships standard on all APX products. You cannot order software key (QA01749). The hardware key (QA01648) can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order hardware key (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	-	Q387	426	\$220.00
ENH: TRUNKED RADIO TRACE/ REMOTE MO	-	H43	426	\$83.00
ENH: One Touch/Status Msg	-	H46	426	\$83.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 trunking operation	QA01767	426	\$110.00
ENHANCEMENT LEVEL 1	-	QA01770	426	\$220.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: DVRS PSU ACTIVATION	-	QA00631	655	\$110.00
ADD: APX Personnel Accountability	-	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required	QA03399	656	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
EXTREME NOISE REDUCTION	-	QA01833	426	\$28.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782)	QA09012	426	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3 only	Q53	426	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with model 3 only	Q52	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	-	H02	481	\$83.00
ADD: GROUP SERVICES	-	QA09008	655	\$165.00

Encryption Algorithm Options (Optional)

Description	Full Description	Nomenclature	APC	Price
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ADD: TACTICAL REKEY WITH MULTIKEY	Requires IV&D (Q947). Incompatible with MDC/ASTRO P25 OTAR with Multikey (H869). Tactical OTAR is not compatible with DVRs (QA00631).	H04	426	\$385.00
ENH: MULTIKEY	-	H869	426	\$363.00
ENH: AES ENCRYPTION AND ADP	P25 CAP Compliant option. Includes ADP.	Q629	426	\$523.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00

Antenna Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ALT: 1/4- WAVE 7/800 STUBBY (NAR659)	This option deletes the standard 7/800 antenna (NAF5085) and adds 1/4 wave 7/800 stubby antenna (NAR659)	H122	426	\$26.00
ALT: UHF2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017A) deletes the standard UHF antenna (PMAE4065) and adds 380-470 MHz GPS stubby antenna (FAF5259)	QA02017	426	\$61.00
ALT: UHF2 GPS STUBBY ANTENNA (FAF5260)	This option (QA02017AL) deletes the standard UHF antenna (PMAE4065) and adds 470-520 MHz GPS stubby antenna (FAF5260)	QA02017	426	\$61.00
ALT: ANTENNA, WHIP, 700-800MHZ	This option deletes the standard 7/800 antenna (NAF5085) and adds 7/800 antenna (PMAF4040)	QA07978	426	\$35.00
DEL: DELETE STANDARD ANTENNA	This option deletes the standard antenna: 7/800 MHz (NAF5085), 900 MHz (PMAF4008), VHF (NAR6593), UHF (PMAE4065)	H112	426	(\$10.00)

Battery Selection (Optional)

The APX 4000 ships standard with an IMPRES Li-Ion 1900 mAh battery (NNTN8128)

Description	Full Description	Nomenclature	APC	Price
ALT: IMPRES LI-HON 2350MAH (PMNN4424)	This option deletes the standard battery (NNTN8128) and adds 2350 mAh Li-Ion battery (PMNN4424AR) *Not compatible with H499	QA02749	426	\$94.00
ALT: IMPRES LI-HON 2800MAH (PMNN4448)	This option deletes the standard battery (NNTN8128) and adds 2800 mAh Li-Ion battery (PMNN4448AR) *Not compatible with H499	QA02750	426	\$110.00
ALT: IMPRES LI-HON 2500MAH RUGGED UL (NNTN8560)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *Requires rugged option (H499) *UL Certified / Delta T	QA04934	411	\$55.00
ALT: IMPRES LI-HON 2500MAH UL/DELTA T BATTERY (NNTN8560A)	This option will delete the standard battery (NNTN8128) and add IMPRES 2500 mAh UL Battery (NNTN8560) *UL Certified / Non-Delta T	QA00582	411	\$143.00
DEL: DELETE BATTERY	This option deletes the standard battery (NNTN8128)	H207	426	(\$47.00)

Rugged Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	*Non-UL / Delta T requires H499 only *UL Certified / Delta T requires H499 AND QA04934	H499	411	\$275.00

Belt Clip Selection (Optional)

The APX 4000 ships standard with a 2" belt clip (PMLN4651)

Description	Full Description	Nomenclature	APC	Price
ADD: 2.5 INCH BELT CLIP	This option deletes the standard belt clip (PMLN4651A) and adds 2.5" belt clip (PMLN7008)	Q698	426	\$13.00
DEL: DELETE STANDARD BELT CLIP	This option deletes the standard belt clip (PMLN4651A)	H301	426	(\$10.00)

Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	Used to program and service the radio with Customer Programming Software and Tuner Software	Q157	655	\$83.00

Reflective Label (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: REFLECTIVE LABEL	-	QA04776	411	\$11.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	When option is ordered, RFID Volume knob will come in the box with the portable radio and other ordered accessories but RFID knob will not be assembled to the radio.	QA04526	426	\$28.00

Service Package Selection (Must Select One)

The APX 4000 ships standard with a 12 month warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$170.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SVC CANADA	-	HA00044	185	\$141.00
ADD: 5Y ESSENTIAL SVC CANADA	-	HA00045	185	\$194.00

Manual Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	-	QA00205	655	\$0.00
ADD: USER GUIDE APX4000/2000 CD-ROM	-	H88	426	\$28.00

Packaging Selection (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKAGING	APX4000 ships standard with bulk packaging. If you require single unit packaging please select this option.	H842	426	\$0.00

Test Results (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRI	-	H799	426	\$0.00

**ASTRO® Digital APX 6000
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7659	430	\$0.00
DIGITAL CONVENTIONAL	-	T7660	430	\$0.00
ANALOG SMARTZONE	-	T7663	430	\$0.00
DIGITAL SMARTZONE	-	T7664	430	\$0.00
TDMA	-	T7665	430	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AL	430	\$651.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00
ADD: SMARTZONE OMNILINK	-	Q173BD	430	\$253.00
ENH: UPGRADE CONVENTIONAL TO SMART	Compatible with T7659 and T7660.	Q327BK	430	\$1,012.00
ENH: P25 9600 BAUD TRUNKING	Includes SmartZone Omnilink (Q173)	Q361AT	430	\$380.00
ENH: TDMA OPERATION	Requires Q808/Q806 (Digital), Q327/H38 (Smartzone), and Q361 (P25) to be ordered. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580AE	430	\$569.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	430	\$0.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00

ENH: MULTICAST VOTING SCAN	-	Q387BA	430	\$253.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q847BE	430	\$316.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ENH: ENHANCEMENT LEVEL 2	-	QA01771AF	430	\$253.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX8000XE and APX6000XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000LI or APX6000XE and SRX2200 AN Models.	QA09001AC	430	\$380.00
ADD: Adaptive Noise Suppression	Adaptive Noise Suppression is only available for FLASHport upgrade on APX6000XE and SRX2200 BN Models. Adaptive Noise Suppression is not available for upgrade on any APX6000LI models, or on APX6000XE and SRX2200 AN Models.	QA09006	430	\$190.00
ADVANCED WACN KEY SUPP DATA	-	QA02018AB	430	\$6.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00

Algorithm Options		Description	Full Description	Nomenclature	APC	Price
		ENH: TACTICAL REKEY	Requires IV&D (Q947), includes MULTIKEY. Tactical OTAR is not compatible with DVRS QA00631.	H04AW	430	\$443.00
		ENH: MULTIKEY	-	H869CC	430	\$417.00
		ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$936.00
		ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00
Programming		Description	Full Description	Nomenclature	APC	Price
		ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
UNDEFINED		Description	Full Description	Nomenclature	APC	Price
		ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 6000 P25 Portable Radio P25 Phase 2 Single Band Capable

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H88UCD9PW5BN	481	\$2,200.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H88UCF9PW6BN	481	\$3,595.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H88UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H88GD9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H88GF9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H88GH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98ODD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98ODF9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98ODH9PW7BN	481	\$4,104.00
APX6000 UHF R2 MODEL 1.5 PORTABLE	-	H88SD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H88SDF9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H88SDH9PW7BN	481	\$4,104.00

Operation Modes (Mandatory)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	-	H38	481	\$1,320.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	481	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

2D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	IF AN INTRINSICALLY SAFE SOLUTION IS REQUIRED THEN PLEASE SEE THE 'UL' REPLACEMENT QA06305 & QA08304.	H499	481	\$165.00
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$28.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$28.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	481	\$110.00
ADD: TDMA OPERATION	For APX6000 and APX6000XE, QA00580 requires Q806, H38, Q361. If ordering an APX6000LI, QA00580 requires QA02756. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	481	\$495.00

ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q347) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$83.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 2.5 and 3.5. ONLY Orderable for only H98UCF9PW6BN, H98QDF9PW6BN, H98SDF9PW6BN, H98KGF9PW6BN, H98UCH9PW7BN, H98QDH9PW7BN, H98SDH9PW7BN, H98KH9PW7BN	H46	481	\$83.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Model 3.5 Radios only. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	481	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$220.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE.	QA01833	481	\$28.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression (Adaptive Audio Engine) is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: PSU CONV SCAN	-	HA00677AA	579	\$0.00

System Key Software					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00	

Algorithm Types (one must be selected)					
Description	Full Description	Nomenclature	APC	Price	
ENH: DVP-XL ENCRYPTION AND ADP	-	H797	481	\$536.00	
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	-	Q625	481	\$659.00	
ENH: AES ENCRYPTION AND ADP	-	Q629	481	\$523.00	
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$879.00	
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00	
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00	

Multikey Types (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ENH: MULTIKEY	Required when using more than one encryption algorithm or encryption key	H869	481	\$363.00	
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q347) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multkey. Tactical OTAR is not compatible with DVRS QA00631.	H04	481	\$385.00	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Not compatible with ADP-Only. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481	\$814.00	
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00	

Antenna (Optional)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE STANDARD ANTENNA	For APX6000/LI/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)	
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$20.00	
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$26.00	
ALT: UHF1R1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$26.00	
ALT: UHF2R2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$26.00	

Battery (Optional- Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00	
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	Requires H499 to be selected. This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07739	673	\$83.00	
ALT: BATT IMPRES 2 LIION TIA4950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07577	481	\$149.00	
ALT: BATT IMPRES 2 LIION TIA4950 R IP68 3100T	Requires H499 to be selected. This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07578	481	\$83.00	

Not Compatible if HAZLOC Certification is Required.					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE STANDARD BATTERY	-	H207	481	(\$30.00)	
ALT: LH-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00	
ALT: LH-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00	
ALT: LH-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00	

Cable (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00	

Belt Clips (Optional-Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	481	\$0.00	

ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$13.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE, CD, APX 7K/6K USER CDROM	-	H88	655	\$28.00
ADD: DATA LINK MANAGER APP CD - PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MCL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	481	\$11.00

**ASTRO® Digital APX 6000Li
FLASHport® Aftermarket Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
TDMA	-	T7813	430	\$0.00
9600 OR 3600 SINGLE SYSTEM DIGITAL TRUNKING	-	T7815	430	\$0.00
ANALOG CONVENTIONAL	-	T7816	430	\$0.00
ANALOG 3600 TRUNKING	-	T7817	430	\$0.00
DIGITAL CONVENTIONAL	-	T7818	430	\$0.00
Options				
Operation Mode				
Description	Full Description	Nomenclature	APC	Price
ENH: ANALOG CONVENTIONAL TO ANALOG 3600 TRUNKING	-	QA03214AA	430	\$1,012.00
ENH: ANALOG CONVENTIONAL TO DIGITAL CONVENTIONAL	-	QA03215AA	430	\$443.00
ENH: ANALOG CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AA	430	\$1,607.00
ENH: ANALOG 3600 TRUNKING TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AB	430	\$721.00
ENH: DIGITAL CONVENTIONAL TO 9600 OR 3600 DIGITAL TRUNKING	-	QA03216AC	430	\$1,290.00
System Enhancement Software				
Description	Full Description	Nomenclature	APC	Price
ENH: TDMA OPERATION	-	QA00580AE	430	\$569.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ENH: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AX	430	\$127.00
ENH:TRUNK RADIO TRACE/REM MONI	-	H43BH	430	\$95.00
ENH: ONE TOUCH BUTTON	-	H46BD	430	\$95.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947BE	430	\$316.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	-	QA00583AE	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AE	430	\$190.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL REKEY	Requires IV&D (Q947), includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AW	430	\$443.00
ENH: MULTIKEY	-	H869CC	430	\$417.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	-	Q53AK	430	\$190.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 6000Li P25 Portable Radio P25 Phase 2 Single Band Capable

Models				
1: Main Model (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$2,200.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,595.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98GD9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98GF9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98GH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98OD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98ODF9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98ODH9PW7BN	481	\$4,104.00
APX6000 UHFR2 MODEL 1.5 PORTABLE	-	H98SD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$4,104.00
APX 6000Li Operation Packages (Mandatory)				
Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
ADD: 9600 TRUNKING OR 3600 DIGITAL TRUNKING	When ordering trunking mode, you must select a QA01749 software key, QA01648 hardware key or a QA02018 WACN Key.	QA02756	755	\$1,727.00
ENH: LI DIGITAL CONVENTIONAL	-	Q811	755	\$715.00
ENH: LI ANALOG CONVENTIONAL	-	QA02829	755	\$440.00
ENH: LI ANALOG 3600 TRUNKING	-	Q443	755	\$1,210.00
RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00
System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$110.00
ADD: TDMA OPERATION	-	QA00580	481	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN	-	Q387	481	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$83.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$83.00
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Model 3.5 Radios only. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	481	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	Compatible with Model 3.5 Radios only.	Q52	481	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	Compatible with all APX6000 Radios. Comes standard on APX6000XE.	QA01833	481	\$28.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
System Key Software				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	-	QA01648	655	\$6.00
Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	-	H797	481	\$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	-	Q625	481	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
Multkey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	481	\$363.00
ADD: TACTICAL REKEY WITH MULTIKEY	This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multkey. Tactical OTAR is not compatible with DVRS QA00631.	H04	481	\$385.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	For APX6000/Li/XE, deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481	(\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)	GPS Antenna	QA00785	481	\$20.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)	7/800 Models Only	H122	481	\$26.00
ALT: UHF/R1 GPS STUBBY ANTENNA (FAF5259A)	UHF Range 1 Models Only	QA02017	481	\$26.00
ALT: UHF/R2 GPS STUBBY ANTENNA (FAF5260)	UHF Range 2 Models Only	QA02017	481	\$26.00
Battery (Optional- Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION TI44950 IP68 3100T STD	This option will delete the standard battery and replace it with LIION IMPRES 3100MAH (PMNN4547).	QA07577	481	\$149.00
ALT: LI-ION IMPRES 2 4500 MAH UL/CSA (NNTN8921A)	This option will delete the standard battery and replace it with LIION IMPRES 4500MAH (NNTN8921).	QA05575	655	\$165.00
Not Compatible if HAZLOC Certification is Required.				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD BATTERY	-	H207	481	(\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/ BASIC CARRY	-	H301CN	481	\$0.00
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00
ADD: BELT CLIP 3.0" (HLN6875)	Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in. Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481	\$13.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00

ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00	
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00	
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$378.00	
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00	
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00	
Documentation (Optional)					
	Description	Full Description	Nomenclature	APC	Price
ADD: USER GUIDE, CD, APX 7K/6K USER CDROM			H88	655	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES		Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT			H799	481	\$11.00

ASTRO® Digital APX 6000XE™ Portable Series

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX6000 7/800 MHZ MODEL 1.5 PORTABLE	-	H98UCD9PW5BN	481	\$2,200.00
APX6000 700/800 MODEL 2.5 PORTABLE	-	H98UCF9PW6BN	481	\$3,595.00
APX6000 700/800 MODEL 3.5 PORTABLE	-	H98UCH9PW7BN	481	\$4,104.00
APX6000 VHF MHZ MODEL 1.5 PORTABLE	-	H98GDD9PW5BN	481	\$3,213.00
APX6000 VHF MHZ MODEL 2.5 PORTABLE	-	H98GDF9PW6BN	481	\$3,595.00
APX6000 VHF MHZ MODEL 3.5 PORTABLE	-	H98GDH9PW7BN	481	\$4,104.00
APX6000 UHF R1 MODEL 1.5 PORTABLE	-	H98QDD9PW5BN	481	\$3,213.00
APX6000 UHF R1 MODEL 2.5 PORTABLE	-	H98QDF9PW6BN	481	\$3,595.00
APX6000 UHF R1 MODEL 3.5 PORTABLE	-	H98QDH9PW7BN	481	\$4,104.00
APX6000 UHF R2 MODEL 1.5 PORTABLE	-	H98SDD9PW5BN	481	\$3,213.00
APX6000 UHF R2 MODEL 2.5 PORTABLE	-	H98SDF9PW6BN	481	\$3,595.00
APX6000 UHF R2 MODEL 3.5 PORTABLE	-	H98SDH9PW7BN	481	\$4,104.00

2: XE Housing (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ENH: APX6000XE RUGGED RADIO	This option will pull in the XE (extreme) control top with larger knobs and a display for fire users. The carry cases are different for this radio so be sure to choose the right APX6000XE case if you do not want to use the plastic carry holder that ships std with the Model 2 and 3 radios. This option will also pull in a UL battery (PMNN4547) and will include radio UL certification. The QA02006 option includes Delta-T standard.	QA02006	756	\$880.00

Operation Modes (Must Select One)

3A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00
ADD: P25 9600 BAUD TRUNKING	Requires H38 and Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX 6000 digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	481	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00

3B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

3C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Requires either a H35, H37, or H38	Q806	481	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

3D: Analog Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	481	\$1,320.00

3E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	Requires either a H35, H37, or H38	Q241	481	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	481	\$550.00

Housing (Optional)

Description	Full Description	Nomenclature	APC	Price
ALT: PUBLIC SAFETY YELLOW HOUSING	APX6000 comes standard IP67 unless ordered with H499 Delta T option. APX6000XE comes Delta T standard.	H64	481	\$28.00
ALT: IMPACT GREEN HOUSING	APX6000 comes standard IP67 unless the H499 Delta-T option is ordered. APX6000XE comes standard Delta-T.	QA01427	481	\$28.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB		QA04526	655	\$28.00

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	481	\$110.00
ADD: TDMA OPERATION		QA00580	481	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	481	\$110.00
ADD: MULTICAST VOTING SCAN		Q387	481	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q847) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ENH: RADIO TRACE/ REMOTE MONITOR	Requires Q806 and either H37, H38, or H35.	H43	481	\$83.00
ENH: ONE TOUCH/STATUS MSG	Compatible on models 1.5, 2.5 and 3.5.	H46	481	\$83.00
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$190.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)		Q52	470	\$165.00

ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ENH: ENHANCEMENT LEVEL 2	Model 1.5 Radios require Enhanced Zone Bank to be ordered so additional channels can be accessed. Please reference the Enhancement Level Reference Guide for more details. This option allows for a few parameters (ZONES, CHANNELS, SYSTEMS PERSONALITIES, UCL ENTRIES, VOICE ANNOUNCEMENT, ENCRYPTION KEYS) on the mid tier to go to a high tier	QA01771	481	\$220.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1 and Model 1.5 from 96 to 1000. Zone Up/Zone Down, Zone Bank Up/Zone Bank Down will be unlocked with this option.	QA01768	481	\$83.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$165.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
System Key Software (Optional)				
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	Description	Full Description	Nomenclature	APC Price
			QA01648	655 \$6.00
Algorithm Types (Optional)				
	Description	Full Description	Nomenclature	APC Price
ENH: DVP-XL ENCRYPTION AND ADP			H797	481 \$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP			Q625	481 \$659.00
ENH: AES ENCRYPTION AND ADP		Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	481 \$523.00
ADD: AES/DES-XL-DES-OFB ENCRYPTION AND ADP		Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	481 \$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)		Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430 \$0.00
Multkey Types (Optional)				
	Description	Full Description	Nomenclature	APC Price
ENH: MULTIKEY			H869	481 \$363.00
ADD: TACTICAL REKEY WITH MULTIKEY		This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625), AES/DES (Q15) to operate. Incompatible with MDC/ASTRO P25 OTAR with Multkey. Tactical OTAR is not compatible with DVRS QA00631	H04	481 \$385.00
ENH: ASTRO 25 OTAR W/ MULTIKEY		Incompatible with the H04 option since Tactical OTAR is included with the Q498 option. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	481 \$814.00
ADD: MULTI SYSTEM OTAR		Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655 \$165.00
Antenna (Optional)				
	Description	Full Description	Nomenclature	APC Price
DEL: DELETE STANDARD ANTENNA		Deletes standard antenna. PMAF4040 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	481 (\$10.00)
ADD: GPS STUBBY ANTENNA (NAG4000)		GPS Antenna	QA00785	481 \$20.00
ALT: 1/4- WAVE 7/800 GPS STUBBY (NAR6595A)		Length: 3.93 in.	H122	481 \$26.00
ALT: UHF R1 GPS STUBBY ANTENNA (FAF5259A)		UHF R1 Models Only	QA02017	481 \$26.00
ALT: UHF R2 GPS STUBBY ANTENNA (FAF5260)		UHF R2 Models Only	QA02017	481 \$26.00
Battery (Optional - Can Only Select One)				
HAZLOC Approved				
	Description	Full Description	Nomenclature	APC Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH		This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673 \$182.00
Not Compatible if HAZLOC Certification is Required.				
	Description	Full Description	Nomenclature	APC Price
DEL: DELETE STANDARD BATTERY			H207	481 (\$30.00)
ALT: LI-ION IMPRES 2 IP68 3400 MAH		This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/LI & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562 \$110.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH		This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655 \$127.00
ALT: LI-ION IMPRES 2 IP68 5100MAH		This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655 \$149.00
Cable (Optional)				
	Description	Full Description	Nomenclature	APC Price
ADD: APX DATA CABLE		PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655 \$83.00
Belt Clips (Optional- Can Only Select One)				
	Description	Full Description	Nomenclature	APC Price
DEL: DELETE BELT CLIP/ BASIC CARRY			H301CN	481 \$0.00
ADD: APX6000XE BASIC CARRY HOLDER		This NEW APX6000XE carry holder will ship std on Model 2 and Model 3 radios.	QA00779	481 \$32.00
ADD: BELT CLIP 3.0" (HLN6875)		Replaces the standard 2.5 in. belt clip that ships with the Model 1.5 radio with a 3 in., Model 1.5 radios in 700/800 and VHF will ship standard with the 2.5 in. belt clip, and UHF radios will ship with the 3 in. belt clip.	QA01222	481 \$13.00
Packaging (Optional)				
	Description	Full Description	Nomenclature	APC Price
ADD: SINGLE UNIT PACKING			H842	481 \$0.00
Service Options (Must Select One)				
	Description	Full Description	Nomenclature	APC Price
ADD: 3Y ESSENTIAL SERVICE			Q58	185 \$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE			HA00022AC	185 \$313.00
ADD: 5Y ESSENTIAL SERVICE			Q887	185 \$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE			HA00025AH	185 \$482.00
ADD: 3Y ESSENTIAL SVC CANADA		Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386 \$170.00
ADD: 5Y ESSENTIAL SVC CANADA		Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185 \$233.00
Documentation (Optional)				
	Description	Full Description	Nomenclature	APC Price
ADD: USER GUIDE, CD, APX 7K/6K USER CDROM			H88	655 \$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES		Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MQL.	QA00205	655 \$0.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT			H799	481 \$11.00

**ASTRO® Digital APX 7500
FLASHport® Aftermarket Upgrades**

Models	Description	Full Description	Nomenclature	APC	Price
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	ANALOG CONVENTIONAL	-	T7558	430	\$0.00
	DIGITAL CONVENTIONAL	-	T7559	430	\$0.00
	ANALOG SMARTNET	-	T7560	430	\$0.00
	DIGITAL SMARTNET	-	T7561	430	\$0.00
	DIGITAL SMARTZONE	-	T7562	430	\$0.00
	ANALOG SMARTZONE	-	T7563	430	\$0.00
	TDMA	-	T7656	430	\$0.00
Options					
Operating					
	Description	Full Description	Nomenclature	APC	Price
	ENH: ENABLE MULTIBAND	-	GA00579AB	430	\$759.00
Operation Mode					
	Description	Full Description	Nomenclature	APC	Price
	ADD: ASTRO DIGITAL CAI OPERATION	-	G808AD	430	\$651.00
System Enhancement Software					
	Description	Full Description	Nomenclature	APC	Price
	ADD: SMARTZONE OMNILINK	-	G173	430	\$253.00
	ENH: UPGRADE TO SMARTNET MOBILE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartnet.	G346	430	\$633.00
	ENH: UPGRADE TO SMARTZONE	Compatible with T7558 and T7559. Upgrades mobile from Conventional to Smartzone.	G347AP	430	\$1,012.00
	ENH: UPGRADE SMARTNET TO SMARTZONE	Compatible with T7560 and T7561. Upgrades mobile from Smartnet to Smartzone.	G347AR	430	\$506.00
	ENH: ASTRO P25 TRUNK SOFTWARE	includes G/Q173 (Omnalink)	G361AJ	430	\$380.00
	ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AB	430	\$569.00
	ADD: DVRS MSU ACTIVATION APX MOBILE	-	GA00631AB	430	\$316.00
	ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/GA09012)	GA09012AB	430	\$190.00
Systems Enhancement Options					
	Description	Full Description	Nomenclature	APC	Price
	ENH: MLTCAST VOTING SCAN-SPECTRA	-	G387AE	430	\$253.00
	ENH: OVER THE AIR PROVISIONING	POP25 requires AES encryption for ASTRO Conventional operation. Must have IV&D (G947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AW	430	\$127.00
	ENH: APX GPS ACTIVATION	Requires W947.	GA00229AB	430	\$190.00
	ENH: EXTENDED DISPATCH APX CONSOLETTTE	This option enables the extended dispatch functionality on Conventional Channels ONLY.	GA00469AB	430	\$633.00
	ADD: P25 LINK LAYER AUTHENTICATION	Requires G361.	GA01767AH	430	\$127.00
	ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
	ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	-	QA01648AC	430	\$6.00
	ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
	ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
	ADD: ASTRO 25 INTEGRATED VOICE & DATA	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	W947AW	430	\$316.00
	ADD: THIRD PARTY DATA MODEM TETHERING	-	GA09011AB	430	\$127.00
Software					
	Description	Full Description	Nomenclature	APC	Price
	ADD: DIGITAL TONE SIGNALING	-	GA09000AB	430	\$190.00
	ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09000AB	430	\$190.00
UNDEFINED					
	Description	Full Description	Nomenclature	APC	Price
	ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$83.00
Algorithm Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: ENCRYPTION P25 AND MDC OTAR	-	G298AU	430	\$936.00
	ENH: MULTI KEY OPERATION	-	W969BJ	430	\$417.00
	ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00
UNDEFINED					
	Description	Full Description	Nomenclature	APC	Price
	ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	-	G445AB	430	\$190.00
	ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
	ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00
	ENH: APX DUAL RADIO SOFTWARE FLP	-	GA01058	430	\$715.00

ASTRO® Digital APX Consolette

Models					
	Description	Full Description	Nomenclature	APC	Price
	ALL BAND CONSOLETTTE	APX ALL BAND CONSOLETTTE	L37TSS9PW1 N	681	\$9,551.00
	APX CONSOLETTTE 900	-	L22WRS9PW1 N	761	\$5,410.00

Delete Band Options

	Description	Full Description	Nomenclature	APC	Price
	DEL: DELETE 7/800MHZ BAND	Delete 7/800 MHz Band	GA05507	681	(\$800.00)
	DEL: DELETE VHF BAND	Delete VHF Band	GA05508	681	(\$800.00)
	DEL: DELETE UHF BAND	Delete UHF Band	GA05509	681	(\$800.00)

All-Band Antenna					
	Description	Full Description	Nomenclature	APC	Price
	ADD: ALL BAND MOBILE ANTENNA (7/8/V/U)	-	GA01513	681	\$95.00

Operation Mode (Must Select One)

Digital Trunking (SN/SZ P25 Phase I Interop)					
	Description	Full Description	Nomenclature	APC	Price
	ENH: P25 TRUNKING SOFTWARE APX	When ordering this option G51 & G806 MUST be ordered. G173 is included at 'NO CHARGE'.	G361	656	\$330.00
	ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
	ADD: ASTRO DIGITAL CAI OPERATION	Astro Digital CAI Operation	G806	656	\$567.00

Digital Trunking (SN/SZ)					
	Description	Full Description	Nomenclature	APC	Price
	ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
	ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00
	ADD: ASTRO DIGITAL CAI OPERATION	Astro Digital CAI Operation	G806	656	\$567.00

Digital Conventional P25					
	Description	Full Description	Nomenclature	APC	Price
	ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
	ADD: ASTRO DIGITAL CAI OPERATION	Astro Digital CAI Operation	G806	656	\$567.00

Analog Trunking					
	Description	Full Description	Nomenclature	APC	Price
	ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
	ENH: SW ASTRO READY (ANALOG)	NOT COMPATIBLE with Encryption Algorithm W969, W793, W797, G625, G298, G851, or G843 when combined with a Trunking Software Option.	G241	656	\$0.00

Systems Enhancements Options (Optional)					
	Description	Full Description	Nomenclature	APC	Price
	ADD: MLITCAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$220.00

ENH: OVER THE AIR PROVISIONING	Compatible with P25 Trunking OR ASTRO Conventional only; There is NO Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A). Single unit POP25 with batch programming for trunking configuration coming in future.	G996	656	\$110.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$495.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Mobile Personal Accountability SW	G445	571	\$150.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
APX MOBILE RADIO AUTHENTICATION	APX Mobile Radio Authentication	GA01767	656	\$110.00
ADD: DIGITAL TONE SIGNALING	Digital Tone Signaling	GA09000	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and a encryption (not including ADP-only).	H02	481	\$83.00
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
ADD: WI-FI CAPABILITY CONSOLETTTE	-	GA09001	681	\$385.00
ADD: SMARTCONNECT	Requires WiFi GA09001	GA01630	681	\$0.00
Advance System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00
Operation Mode (Must Select One)				
Digital Trunking (SN/SZ P25 Phase I Interop)				
Description	Full Description	Nomenclature	APC	Price
ENH: P25 TRUNKING SOFTWARE APX	When ordering this option G51 & G806 MUST be ordered. G173 is included at NO CHARGE.	G361	656	\$330.00
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
Digital Trunking (SN/SZ)				
Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
ADD: SMARTZONE OMNILINK	Automatic Zoning Across Zones, Zone Registration, Trespass Protection, Over the Air Site Alias, 32 Preferred Sites, FastStart and AllStart Call Setup.	G173	656	\$220.00
Digital Conventional P25				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
Analog Trunking				
Description	Full Description	Nomenclature	APC	Price
ENH: SMARTZONE OPERATION APX	SmartZone Operation	G51	656	\$1,650.00
Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
Systems Enhancements Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTICAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$220.00
ENH: OVER THE AIR PROVISIONING	Compatible with P25 Trunking OR ASTRO Conventional only; There is NO Analog Functionality for this feature. To do in field POP25 programming must use Advanced System Key (DVN4046A). Single unit POP25 with batch programming for trunking configuration coming in future.	G996	656	\$110.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$495.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW	Mobile Personal Accountability SW	G445	571	\$150.00
ADD: WI-FI CAPABILITY CONSOLETTTE	-	GA09001	681	\$385.00
ADD: OUT OF THE BOX WI-FI PROVISIONING	-	GA09007	681	\$0.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
APX MOBILE RADIO AUTHENTICATION	APX Mobile Radio Authentication	GA01767	656	\$110.00
ADD: DIGITAL TONE SIGNALING	Digital Tone Signaling	GA09000	656	\$165.00
ADD: FPP & CLONE APX	FPP & Clone APX	G53	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and a encryption (not including ADP-only).	H02	481	\$83.00
Advance System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00
Encryption Algorithms (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION AND ADP	Analog 25 KHz Only supported in radios shipped past June 1, 2010.	W797	656	\$536.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	G851 is NOT compatible with G843 and G625. W969 Multi-key required for use of more than 1 key. Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010. AES and DES-OFB Operation Require Digital (G806).	G851	656	\$879.00
ADD: AES ENCRYPTION APX AND ADP	Requires P25 operation.	G843	656	\$523.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Analog Secure (DES and DVP) supported in radios shipped past June 1, 2010.	G625	656	\$659.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	-	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	NO ADP FOR P25 CAP	QA05751	655	\$0.00
MULTIKEY (OPTIONAL)				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	REQUIRED when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multi-key (W969)and Trunking OTAR. Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$165.00
Multikey (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	REQUIRED when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multi-key (W969)and Trunking OTAR. Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	G298	656	\$814.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	656	\$165.00
PreAmp				
Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00
Desktop Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: LIMITED FRONT PANEL W/CLOCK/VU	LIMITED FRONT PANEL W/CLOCK/VU	L998	761	\$528.00
ADD: FULL FP W/E5/KEYPAD/CLOCK/VU	L999AG - FULL FP W/ E5/KEYPAD/CLOCK/VU	L999	761	\$868.00
Manual				
Description	Full Description	Nomenclature	APC	Price
ADD: NO USER/INSTALL CD NEEDED	NO USER/INSTALL CD NEEDED	GA00237	656	\$0.00
ADD: DATA LINK MANAGER APP CD- MOBILES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: CONTROL STATION DESK GCAI MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00

Power Cord(s)

Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD BS 1363 PLUG-UK	AC Line Cord BS 1363 PLUG-UK	CA01600	761	\$0.00
ADD: AC LINE CORD US	AC Line Cord US	CA01598	761	\$0.00
ADD: AC LINE CORD AS3112 PLUG-AUSTI	AC Line Cord AS3112 PLUG-AUSTI	CA01602	761	\$0.00
ADD: DC CORD	DC Cord	CA01942	761	\$61.00
ADD: AC LINE CORD CEE7/16 PLUG-EURO	AC Line Cord CEE7/16 PLUG-EURO	CA01599	761	\$0.00

Test Results

Description	Full Description	Nomenclature	APC	Price
ADD: PRINTED TEST RESULTS APEX	Printed Test Results APEX	G799	656	\$11.00

Accessories

Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE CH. PROGRAMMING.USB	HKN6184C - Used to program the radio with Customer Programming Software and Tuner Software. Compatible with APX mobile radios.	HKN6184C	261	\$57.25
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	-	GA00250	681	\$110.00

MOUNT RACKS

Description	Full Description	Nomenclature	APC	Price
APX CONSOLETTTE RACK MOUNT KIT	APX Consolette Rack Mount Kit	HKN6233C	761	\$200.00
APX CONSOLETTTE WALL MOUNT BRACKET KIT	APX Consolette Wall Mount Bracket Kit	HKN6243A	761	\$60.00
5FT GCAI EXTENSION CABLE	5FT GCAI Extension Cable	RKN4167A	706	\$47.50

MULTIPLEXER

Description	Full Description	Nomenclature	APC	Price
MULTIPLEXER QMA APX CONSOLETTTE	PURPOSE OF MULTIPLEXER: THIS DEVICE WILL ALLOW THE "SPLITTING" OF MULTIBAND FREQUENCY COMING OUT OF THE APX8500 CONSOLETTTE TO BE USED WITH EXISTING ANTENNAS THAT ARE ALREADY IN PLACE. THIS WILL ALLOW CUSTOMERS THE OPTION TO RE-USE THEIR EXISTING SINGLE/DUAL BAND ANTENNAS INSTEAD OF HAVING TO ORDER AND INSTALL NEW MULTIBAND ANTENNAS.	H1926	681	\$319.00

SOFTWARE & SERVICES

Service Options & Warranty

Description	Full Description	Nomenclature	APC	Price
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$335.00
ADD: 3Y ESSENTIAL SERVICE	The Essential Service is a prepaid service that includes coverage for internal and external components damaged due to a manufacturer's defect.	G78	185	\$176.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AD	185	\$531.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Essential service with Accidental Damage includes device repair under Essential services, plus coverage for accidental damage to the device.	GA00249AB	185	\$344.00
ADD: STD WARRANTY - NO ESSENTIAL	Provides no extended repair coverage after the standard warranty period expires	GA05100	185	\$0.00
ADD: 5Y ESSENTIAL SVC CANADA	-	GA00317	185	\$281.00
ADD: 3Y ESSENTIAL SVC CAN DEALER	-	GA01271	185	\$157.00
ADD: 5Y ESSENTIAL SVC CAN DEALER	-	GA01272	185	\$222.00
ADD: 3Y ESSENTIAL SVC CANADA	-	GA00314	185	\$194.00

APX™ 8000 P25 All-Band Portable Radio

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW6 N	579	\$7,108.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW7 N	579	\$7,475.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr). Will provide "APX 8000R" nameplate. If a UL Div 2 Battery is required, please order QA07571 or QA07573.	H499	655	\$165.00
ALT:APX 8000 HOUSING GREEN	APX8000XE Housing Green	QA01427	579	\$28.00
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	DEL: DELETE 7/800 MHZ BAND	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	DEL: DELETE VHF BAND	QA05508AA	579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Now requires a pin # not a dongle.	Q53	655	\$165.00

ADD: MISSION CRITICAL GEOFENCING		Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES		Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability		This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA		Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL		Tactical Stun Kill Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary's. Not compatible with DVR MSU QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY		Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING		Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING		Requires QA09001 (WIFI)	QA09011	681	\$110.00
ADD: SMARTCONNECT		Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: BASIC DEVICE COLLABORATION SOFTWARE		Enables collaboration with LEX.	QA03176	655	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING		-	QA00982	656	\$165.00
ADD: MANDOWN OPERATION		-	QA01843	655	\$165.00
ADD: DIGITAL TONE SIGNALING		-	QA09000	656	\$165.00
ADD: APX GEOFENCE PORTABLE		-	QA04447	655	\$150.00
ADD: PSU CONV SCAN		-	HA00677AA	579	\$0.00
System Key Software (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00	
Algorithm Types(Required)					
Description	Full Description	Nomenclature	APC	Price	
ENH: DVP-XL ENCRYPTION AND ADP	Multkey is required for use of more than one key. Includes ADP. To be P25 CAP Compliant, must be ordered with AES.	H797	655	\$536.00	
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP	Q625	655	\$659.00	
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00	
ENH: AES/DES, DES-XL, DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms. Includes ADP	Q15	655	\$879.00	
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00	
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00	
Multkey Types (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ENH: MULTIKEY	Required when purchasing more than one encryption algorithm or encryption key? "Requires MultKey".	H869	655	\$363.00	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00	
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00	
Antenna (Optional)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/W/U) antenna (AN000342A01)	H112LT	579	\$0.00	
Battery (Optional- Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE BATTERY	The option will delete the Li-Ion IMPRES 2 3400mAh (PMNN4486) standard battery for APX 8000 and APX7000/L. The option will delete the IMPRES LION 3400mAh standard battery (PMNN4504) for APX 8000XE.	H207EY	655	\$0.00	
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00	
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRESS 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00	
ADD: BATT IMPRES 2 LIION TIA4950 IP68	ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00	
UL Div 2 Batteries (Optional- Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
ALT: BATT IMPRES 2 LIION DIV2 3400	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504).	QA05594	579	\$143.00	
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00	
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 3400	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 3400 MAH (PMNN4504). Requires H499.	QA07571	579	\$50.00	
ALT: RUGGED DIV2 BATT IMPRES 2 LIION 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505). Requires H499.	QA07573	579	\$83.00	
Cable (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00	
Belt Clips (Optional-Can Only Select One)					
Description	Full Description	Nomenclature	APC	Price	
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)	
ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00	
Packaging (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00	
Service Options (Must Select One)					
Description	Full Description	Nomenclature	APC	Price	
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00	
ENH: 3 YEAR SERVICE FROM THE START COMPREHENSIVE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AE	185	\$326.00	
ENH: 5 YEAR SERVICE FROM THE START LITE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887AY	185	\$224.00	
ENH: SFS COMPREHENSIVE 5 YR	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AK	185	\$504.00	
Carry Solutions					
Description	Full Description	Nomenclature	APC	Price	

ALT: BASIC CARRY HOLDER (PMLN7901)	This carry holder equipped with a 2.5 in. belt clip ships standard with the Dual Display models. It is an alternative to the Belt Clip that ships standard with the Top Display model.	QA00779	481	\$32.00
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)

Documentation (Optional)

Online copies of User Guides can be found in the Resources Tab

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00

**ASTRO® Digital APX 8000/XE
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8549	430	\$0.00
DIGITAL CONVENTIONAL	-	T8550	147	\$0.00
DIGITAL SMARTZONE	-	T8553	430	\$0.00
ANALOG SMARTZONE	-	T8554	430	\$0.00
TDMA	-	T8627	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q808AK	430	\$651.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL RADIO SOFTWARE	Tactical Stun Kill is not compatible with DVRs QA00631.	H02AH	430	\$95.00
ENH: SMARTZONE OMNILINK (NON-P25)	-	Q173AY	430	\$253.00
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	Compatible with T7549 and T7550	Q327BH	430	\$1,012.00
ENH: P25 9600 BAUD TRUNKING	-	Q361AP	430	\$380.00
ENH: TDMA OPERATION	-	QA00580AB	430	\$569.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AT	430	\$127.00
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ADD: APX PERSONNEL ACCOUNTABILITY	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AF	430	\$190.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767AC	430	\$127.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ENH: WI-FI CAPABILITY FLP	Wi-Fi is only available for FLASHport upgrade on APX8000/XE and APX6000/XE and SRX2200 BN Models. Wi-Fi is not available for upgrade on APX6000UJ or APX6000/XE and SRX2200 AN Models.	QA09001AC	430	\$380.00
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: MISSION CRITICAL GEOENCING FLP	Requires GPS (FLQA00782).	QA09012AB	430	\$190.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanasaps with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ENH: APX GPS ACTIVATION	Requires IV&D (Q947)	QA00782AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011AB	430	\$127.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: PSU CONV SCAN FLASHPORT	-	HA00677AB	430	\$0.00

ADD Frequency Bands

Description	Full Description	Nomenclature	APC	Price
ENH: 7/800 MHZ BAND FLP	-	QA00569AL	430	\$1,100.00
ENH: VHF MHZ BAND FLP	-	QA00570AN	430	\$1,100.00
ENH: UHF MHZ BAND FLP	-	QA09002AC	430	\$1,100.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869BX	430	\$417.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498AX	430	\$936.00
ADD: MULTI SYSTEM OTAR FLASHPO	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	430	\$189.00

Programming

Description	Full Description	Nomenclature	APC	Price
ENH: FRONT PANEL PROGRAMMING & CLONING	Compatible with model 3.5 radios only	Q53	430	\$190.00

Software License

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

APX™ 8000H P25 All-Band Portable Radio

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$7,940.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$8,306.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK: DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2 m, 4 hr) testing. Will provide "APX 8000HR" nameplate.	H499	655	\$165.00

RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	DEL: DELETE 7/800 MHZ BAND	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	DEL: DELETE VHF BAND	QA05508AA	579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$220.00
ADD: DVRS PSU ACTIVATION	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q847) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	GA09011	681	\$110.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	-	QA01648	655	\$6.00

Algorithm Types(Required)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHZ Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES. Non-P25 CAP Compliant option.	H797	655	\$536.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP (Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES,DES-XL,DES-OFB AND ADP	Multikey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
ENH: MULTIKEY	-	H869	655	\$363.00

Antenna (Optional)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (AN000342A01)	H112LT	579	\$0.00
ADD: ALT ANTENNA	AN000342A01 Antenna, Whip, V U 7/800/GPS Antenna	QA08425	579	\$0.00

Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A).	QA07739	673	\$83.00
ADD: BATT IMPRES 2 LIION TIA4950 IP68	Requires H499 This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00

Belt Clips (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder, PMLN7901.	H301	655	(\$10.00)

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00

ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AH	185	\$482.00
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Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: APX8000H USER GUIDE	-	H88	673	\$28.00
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00

Carry Solutions

Description	Full Description	Nomenclature	APC	Price
LEATHER CARRY CASE WITH D-RINGS AND 2.75" SWIVEL BELT LOOP	-	PMLN7904A	271	\$85.25

APX™ 8000H with SRX Enhancement P25 All-Band Portable Radio

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TD9PW8 N	673	\$7,940.00
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TD9PW9 N	673	\$8,306.00

1B: SRX Enhancement Package (Must Select for APX 8000H with SRX Enhancement)

Description	Full Description	Nomenclature	APC	Price
ENH: SRX ENHANCEMENT PACKAGE	Provides for Radio Stun/Kill, Night Vision Goggle Profile, OTAP and the Coyote Brown Housing. Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary."	QA02590	673	\$633.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order GA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgment of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399	656	\$165.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001)	GA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	-	QA01648	655	\$6.00

Algorithm Types(Required)

Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHZ Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES. Non-P25 CAP Compliant option	H797	655	\$536.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	Multikey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES,DES-XL,DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multikey if you want to use both algorithms.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multikey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
Antenna (Optional) ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
Cable (Optional) DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/N/U) antenna (AN000342A01)	H112LT	579	\$0.00
Belt Clips (Optional-Can Only Select One) ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
RFID Enabled Volume Knob (Optional) DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard carry holder. PMLN7901.	H301	655	(\$10.00)
Packaging (Optional) ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
Service Options (Must Select One) ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ENH: 3 YEAR SERVICE FROM THE START COMPREHENSIVE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AE	185	\$326.00
ENH: 5 YEAR SERVICE FROM THE START LITE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887AY	185	\$224.00
ENH: SFS COMPREHENSIVE 5 YR	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AK	185	\$504.00
Documentation (Optional) Online copies of User Guides can be found in the Resources Tab				
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

APX™ 8000HXE P25 All-Band Portable Radio

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000H ALL BAND PORTABLE MODEL 3.5	-	H91TGD9PW9 N	673	\$8,306.00
APX 8000H ALL BAND PORTABLE MODEL 2.5	-	H91TGD9PW8 N	673	\$7,940.00
APX 8000H ALL BAND PORTABLE MODEL 1.5	-	H91TGD9PW4 N	673	\$6,800.00

1B: XE Housing (Must Select for APX 8000HXE)

Description	Full Description	Nomenclature	APC	Price
ENH: APX8000HXE RUGGED RADIO	-	QA02006	673	\$880.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	DEL: DELETE 7/800 MHZ BAND	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	DEL: DELETE VHF BAND	QA05508AA	579	(\$800.00)

System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires P25 Trunking (Q361)	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNVTN7526A)to be purchased.	Q53	655	\$165.00

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRs QA00631. Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary"	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	QA09011	681	\$110.00
ADD: ENABLE INTERNAL GPS OPERATION	Must have IV&D (Q947) enabled. Radio requires GPS antenna (NAG4000) when Public Safety Microphone is attached. Please Note: Effective February 22nd, 2016 this model will ship standard with GPS Activation (QA00782).	QA00782	655	\$165.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
System Key Software (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00
Algorithm Types (Required)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797	655	\$536.00
ENH: DES,DES-XL,DES-OFB ENCRYPTION AND ADP	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only) Non-P25 CAP Compliant option. Includes ADP.	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES,DES-XL,DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00
Multkey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ENH: MULTKEY		H869	655	\$363.00
Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (AN000342A01)	H112LT	579	\$0.00
Battery (Optional- Can Only Select One)				
HAZLOC Approved				
Description	Full Description	Nomenclature	APC	Price
ADD: BATT IMPRES 2 LIION TIA4950 IP68	This option will delete the standard battery and replace it with TIA4950 BATT IMPRES 2 LIION 4600MAH (PMNN4573A)	QA07576	673	\$182.00
Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
Belt Clips (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the XE carry holder, PMLN7954.	H301	655	(\$10.00)
RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB		QA04526	655	\$28.00
Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING		H842	481	\$0.00
Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE		Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE		HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE		HA00025AH	185	\$482.00
Documentation (Optional)				
Online copies of User Guides can be found in the Resources Tab				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT		H799	579	\$11.00
ADD: APX8000H USER GUIDE		H88	673	\$28.00
Carry Cases				
Description	Full Description	Nomenclature	APC	Price
CARRY ACCESSORY-CASE,APX8000HXE LEATHER CARRY CASE		PMLN7955A	271	\$70.25

APX™ 8000XE P25 All-Band Portable Radio

Models

1A: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5		H91TD9P9W5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5		H91TD9P9W6 N	579	\$7,108.00
APX 8000 ALL BAND PORTABLE MODEL 3.5		H91TD9P9W7 N	579	\$7,475.00

1B: XE Housing (Must Select for APX 8000XE)

Description	Full Description	Nomenclature	APC	Price
ENH: APX8000XE RUGGED RADIO		QA02006	581	\$880.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
2D: Analog Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
2E: Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
Options				
3: Housing (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00
4: Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)
DEL: DELETE 7/800 MHZ BAND	DEL: DELETE 7/800 MHZ BAND	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	DEL: DELETE VHF BAND	QA05508AA	579	(\$800.00)
5: RFID Enabled Volume Knob (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00
6: System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	-	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNT17526A) to be purchased.	Q53	655	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUN/KILL	Tactical Stun Kill is not compatible with DVRS QA00631. Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary"	H02	481	\$83.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (WIFI)	GA09011	681	\$110.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WIFI QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
7: Advanced System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00
8: Algorithm Types (Required)				
Description	Full Description	Nomenclature	APC	Price
ENH: DVP-XL ENCRYPTION AND ADP	-	H797	655	\$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	-	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	Q629	655	\$523.00
ENH: AES/DES-DES-XL-DES-OFB AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	Q15	655	\$879.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	Q667	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00
9: Multikey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
10: Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (AN000342A01)	H112LT	579	\$0.00
11: Battery (Optional)				
Division 2 Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRESS 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00
Not Compatible if Division 2 Certification is Required				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	655	\$0.00
12: Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
13: Belt Clips/Carry Holders (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)
14: Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
15: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00

ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AH	185	\$482.00

16: Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00

APX™ 8000XE P25 All-Band Portable Radio

Models

1A: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
APX 8000 ALL BAND PORTABLE MODEL 1.5	-	H91TG09PW5 N	579	\$6,863.00
APX 8000 ALL BAND PORTABLE MODEL 2.5	-	H91TG09PW6 N	579	\$7,108.00
APX 8000 ALL BAND PORTABLE MODEL 3.5	-	H91TG09PW7 N	579	\$7,475.00

1B: XE Housing (Must Select for APX 8000XE)

Description	Full Description	Nomenclature	APC	Price
ENH: APX8000XE RUGGED RADIO	-	QA02006	581	\$880.00

Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ P25 Phase I Interop)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361	655	\$330.00

2B: Digital Trunking (SN/SZ)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2C: Digital Conventional (P25)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806	579	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

2D: Analog Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38	655	\$1,650.00

2E: Analog Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241	579	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35	655	\$880.00

Options

3: Housing (Optional-Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
ALT:APX 8000 HOUSING YELLOW	-	H64	579	\$28.00
ALT:APX 8000 HOUSING GREEN	-	QA01427	579	\$28.00

4: Delete Frequency Bands (Optional. Can select a MAXIMUM of TWO)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE 7/800 MHZ BAND	-	QA05507AA	579	(\$800.00)
DEL: DELETE VHF BAND	-	QA05508AA	579	(\$800.00)
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands	QA05509AA	579	(\$800.00)

5: RFID Enabled Volume Knob (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID KNOB	-	QA04526	655	\$28.00

6: System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361)	QA01767	655	\$110.00
ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	QA00580	655	\$495.00
ADD: PROGRAMMING OVER P25 (OTAP)	Requires Digital and IV&D. Compatible with P25 Trunking and Conventional Operation. POP25 requires AES encryption for ASTRO Conventional operation. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	655	\$110.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387	655	\$220.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q347) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ADD: DVRS PSU ACTIVATION	Enables DVRS Enhanced PSU functionality on APX Mobile Radios. Requires Digital Operation. QA00631 is to be ordered for radios that are not connected directly to a DVR. If you are connecting your radio directly to a DVR then order QA00631.	QA00631	655	\$110.00
ADD: FRONT PANEL PROGRAMMING & CLONING	The APX radio can do FPP on a Trunking equipped radio only on conventional channels. Requires FPP HW dongle (NNTN7526A) to be purchased.	Q53	655	\$165.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	655	\$165.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ADD: DIGITAL TONE SIGNALING	-	QA09000	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: MANDOWN OPERATION	-	QA01843	655	\$165.00
ADD: APX Personnel Accountability	This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445	481	\$165.00
ENH: TACTICAL RADIO STW-STUNKILL	Tactical Stun Kill is not compatible with DVRS QA00631.	H02	481	\$83.00

ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: DATA MODEM TETHERING	Requires QA09001 (WiFi)	GA09011	681	\$110.00
7: Advanced System Key (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00
8: Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751	655	\$0.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHZ Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES .	H797	655	\$536.00
ENH: DES-DES-XL-DES-OFB ENCRYPTION AND ADP	(Analog 25 khz) / DES-OFB (Digital 12.5 khz Only)	Q625	655	\$659.00
ENH: AES ENCRYPTION AND ADP	-	Q629	655	\$523.00
ENH: AES/DES-DES-XL-DES-OFB AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms.	Q15	655	\$879.00
9: Multikey Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869	655	\$363.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR. Tactical OTAR can only be utilized when IV&D is purchased.	Q498	655	\$814.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
10: Antenna (Optional)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	Deletes the standard all-band (7/8/V/U) antenna (KT000026A01)	H112L	579	\$0.00
11: Battery (Optional)				
Division 2 Approved				
Description	Full Description	Nomenclature	APC	Price
ALT: BATT IMPRES 2 LIION DIV2 4850	This option will delete the standard battery and replace it with UL2054 DIV2 IMPRESS 2 LIION 4850 MAH (PMNN4505).	QA05595	579	\$160.00
Not Compatible if Division 2 Certification is Required				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BATTERY	The option will delete the standard battery (UL2054 DIV2 IMPRESS 2 LIION 3400 MAH PMNN4504).	H207EY	655	\$0.00
12: Cable (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00
13: Belt Clips/Carry Holders (Optional-Can Only Select One)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE BELT CLIP/BASIC CARRY HOLDER	This option deletes the standard belt clip that ships with the Top Display model, deletes the standard universal carry holder that ships with the Dual Display model.	H301	655	(\$10.00)
ALT: APX8000XE BASIC CARRY HOLDER	-	QA00779	579	\$32.00
14: Packaging (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842	481	\$0.00
15: Service Options (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	Q58	185	\$121.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00022AC	185	\$313.00
ADD: 5Y ESSENTIAL SERVICE	-	Q887	185	\$227.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	HA00025AH	185	\$482.00
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
16: Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	-	QA00205	579	\$0.00
ADD: USER GUIDE APX 4KXE/6KXE/7KXE CD-ROM	-	H88	591	\$28.00
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

ASTRO® Digital APX 8500 Mobile Subscriber

1. Main Model (Must Select One)				
Description	Full Description	Nomenclature	APC	Price
APX8500 ALL BAND HP MOBILE	APX 8500 HP only comes in remote mount. No mounting option is required.	M37TXS9PW1 N	681	\$6,677.00
APX8500 ALL BAND MP MOBILE	-	M37TSS9PW1 N	681	\$5,667.00
Delete Frequency Bands (Optional. Can select a Maximum of Two)				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE UHF BAND	Deletes both UHF R1 and UHF R2 frequency bands.	GA05509	681	(\$800.00)
DEL: DELETE VHF BAND	-	GA05508	681	(\$800.00)
DEL: DELETE 7/800MHZ BAND	-	GA05507	681	(\$800.00)
2. Mounting (Must Select Either Dash or Remote Mount for APX 8500 MP)				
Description	Full Description	Nomenclature	APC	Price
ADD: DASH MOUNT	Not available on APX 8500 HP. Required for Control Station Operation. An O3 Control Head ordered with a Dash Mount Configuration is the same as the O3 Remote Mount configuration, but it does not come with the 17ft extension cable, PMLN4958A.	G66	656	\$138.00
ADD: REMOTE MOUNT MID POWER	Not required for selection on APX 8500 HP. G138 is required for Motorcycle Configuration. Motorcycle Remote Mount Option is \$440 DUP.	G67	656	\$327.00
Motorcycle Mounting (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX MOTORCYCLE CH SFWR	Requires G67 (Remote Mount)	G138	656	\$0.00
Control Station Operation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: CONTROL STATION OPERATION	O3 not supported Requires Dash Mount (G66) HLN6042B	W665	656	\$77.00
ADD: CONTROL STATION POWER SUPPLY	Although the Power Supply is optional, it is needed for a full Control Station solution. The APX 8500 requires a higher capacity power supply KT000254A02.	G91	656	\$296.00
3A Control Head Software (Required)				
Description	Full Description	Nomenclature	APC	Price
ADD: APX CONTROL HEAD SOFTWARE	-	G444	656	\$0.00
3B Control Head Options (Must select one)				
O2 Control Head Options				
Description	Full Description	Nomenclature	APC	Price
ADD: APX O2 CONTROL HEAD	-	GA00804	656	\$541.00
ADD:IMPACT GREEN COLOR HOUSING (O2)	When ordered in conjunction with GA00804 you will get a green colored O2 housing.	G201	656	\$28.00
ADD: SCHOOL SECURITY ENHANCEMENT PACKAGE	Education O2 Emergency Push Button	GA01056	514	\$55.00
O3 Control Head Options				

Description	Full Description	Nomenclature	APC	Price
ADD: APX O3 HANDHELD CH	Requires No Microphone (G90). If Lights & Siren Keypad and Software is required, order GA00806.	G72	656	\$1,041.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00
E5 Control Head Option				
ADD: APX E5 CONTROL HEAD	-	GA01670	681	\$717.00
O7 Control Head Options				
ADD: APX O7 CONTROL HEAD.	If Lights & Siren Keypad and Software is required, order GA00806.	GA00805	656	\$695.00
ADD:CH SIREN & LIGHTS KEYPAD	Available on O3 (G72) and O7 (GA00805) Control Heads.	GA00806	656	\$55.00
No Control Head Options				
ADD: NO O3 CONTROL HEAD	If you plan to use this model with an O3 Control Head but already have a control head and don't require it, select GA00001. Requires remote mount (G67).	GA00001	656	\$0.00
ADD: APX MOBILE NO CONTROL HEAD	-	G88	681	\$0.00
Multi-Control Head Options				
ADD: APX DUAL-CONTRL HD HARDWARE	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 2 for microphones, speakers and CAN cables.	GA00092	656	\$627.00
ADD: APX TRI-CONTROL HARDWARE (O7 ARABIC)	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 3 for microphones, speakers and CAN cables.	GA00093	656	\$1,100.00
ADD: APX QUAD-CONTROL HARDWARE (O7 ARABIC)	Requires either O2, E5, O7 Control Head. Requires a remote mount configuration. Requires a selection of 4 for microphones, speakers and CAN cables.	GA00094	656	\$1,430.00
4. RF Antenna (Required)				
MULTIPLEXER QMA	Order on a separate line. Provides for EQ000103A02 that allows up to 3 QMA antenna connections.	H1919	681	\$275.00
Must Select One of the Following:				
No Antenna Requested				
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
All-Band Antenna				
ADD: ALL BAND MOBILE ANTENNA (7/8/V/U)	Corresponding kit: AN000131A02. Must be ordered separately if MSU GA00631 is ordered. Multiplexer sold separately as H1919	GA01513	681	\$85.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
Motorcycle Antenna Choices				
7/800				
ADD: ANT 3DB LOWPRO MCYC 762-870	Corresponding kit number: AN000197A11	G174	681	\$47.00
ADD: ANT 3DB MCYCLE 762-870MHZ	Corresponding kit number: AN000197A10	G335	681	\$15.00
ADD: NO RF ANTENNA NEEDED	-	G89	656	\$0.00
VHF				
ADD: ANT MTCL 1/4 WAVE WHIP 136-144	Corresponding kit number: AN000197A01 + AN000208A01	GA00510	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 144-150.8	Corresponding kit number: AN000197A02 + AN000208A01	GA00511	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 150.8-162	Corresponding kit number: AN000197A03 + AN000208A01	GA00512	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 162-174	Corresponding kit number: AN000197A04 + AN000208A01	GA00513	681	\$55.00
UHF Antennas				
ADD: ANT MTCL 1/4 WAVE 380-433MHZ	Corresponding kit number: AN000197A05 + AN000208A03	G210	681	\$32.00
ADD: ANT MTCL 1/4 WAVE WHIP 425-470	Corresponding kit number: AN000197A06 + AN000208A01	GA00506	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 450-482	Corresponding kit number: AN000197A07 + AN000208A01	GA00507	681	\$55.00
ADD: ANT MTCL 1/4 WAVE WHIP 482-512	Corresponding kit number: AN000197A08 + AN000208A01	GA00508	681	\$55.00
ADD: ANT MTCL LO PRO UNITY 450-512	Corresponding kit number: AN000197A09 + AN000208A03	GA00509	681	\$55.00
Dual Radio Operation Options				
ENH: DUAL RADIO OPERATION (PRIMARY RADIO)	The Primary radio must be ordered with an O7 or E5 CH. APX Dual Radio is not compatible with any other control head. The primary radio includes a short dual radio CAN cable (HKN6245) to connect both radios together. If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack mounted installations. If a different length is desired, the standard remote mount control head cables can also be used to connect both radios together.	GA01113	656	\$715.00
ENH: DUAL RADIO OPERATION (SECONDARY RADIO)	The secondary radio must be ordered with no control head (G88)	GA01117	656	\$715.00
Dual Radio Options				
ADD: DUAL RADIO STACKABLE MP TRUNNION	If the stack mount trunion is ordered, a right-angle version of this cable (HKN6249) will ship instead to facilitate stack mounted installations.	GA01115	656	\$327.00
5. Operation Mode (Must Select One)				
5A: Digital Trunking (SN/SZ P25 Phase I Interop)				
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,650.00
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
ENH: P25 TRUNKING SOFTWARE APX	Requires G51 & G806. Internally generate G173. APX digital radios require Advanced System Keys (ASK-DVN4046A) to be configured to operate on a trunking system.	G361	656	\$330.00
5B: Digital Trunking (SN/SZ)				
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,650.00
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
5C: Digital Conventional (P25)				
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
ENH: ASTRO DIGITAL CAI OP APX	Incompatible with G241.	G806	681	\$567.00
5D: Analog Trunking				
ENH: SMARTZONE OPERATION APX	-	G51	656	\$1,650.00
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
5E: Analog Conventional				
ENH: CONVENTIONAL OPERATION	Limited Conventional features-see matrix	G48	656	\$880.00
ENH: SOFTWARE ASTRO READY (ANALOG) APX	-	G241	681	\$0.00
System Enhancement Options (Optional)				
ADD: DVRS MSU ACTIVATION	Allows mobile to host A DVR, Requires Remote mount G67. Additional hardware may be needed to operate properly with a DVR Requires depot to change a mobile from a MSU to PSU	GA00631	656	\$275.00
ADD: DVRS PSU ACTIVATION	Requires depot to change a mobile from a PSU to MSU or MSU to PSU Please choose correctly Enables DVRS Enhanced PSU functionality on APX Mobile Radios. If you are connecting your mobile radio directly to a DVR to repeat then order GA00631 MSU.	QA00631	655	\$110.00
ADD: PSU CONV SCAN	Requires QA00631	HA00677AA	579	\$0.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IVAD (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399	656	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008	656	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (GA09012)	GA09012	471	\$165.00
ADD: MULTICAST VOTING SCAN	This feature allows for voting of the Conventional Channels ONLY.	G387	656	\$220.00
ADD: APX MOBILE RADIO AUTHENTICAT	Requires Trunking	GA01767	527	\$110.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996	656	\$110.00
ADD: TDMA OPERATION APX	When ordering an APX6500Li model this option requires QA02756 software package	GA00580	656	\$495.00

ADD: WI-FI CAPABILITY	Requires a WiFi antenna. GA09001 enables WiFi capability in the radio which supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (GA09007) if provisioning the radios out of the box using WiFi is desired. Note that GA09001-WiFi is not available as a flashport upgrade on Consolelets because it requires a special connector. You can take the radio to the Depot as they are able to switch out the connector and upgrade the radio.	GA09001	681	\$330.00
ADD: DATA MODEM TETHERING	Please reference MNO03449A01 APX Data Tethering Guide for requirements and connectivity options.	GA09011	681	\$110.00
ADD: APX8500 ETHERNET MP FACEPLATE	Radio will come with Blank face plate on internal option GA01786 if GA01787 is not added. Data tethering GA09011 is required to enable GA01787 hardware.	GA01787	681	\$275.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WiFi), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.	GA01630	681	\$0.00
ENH: TACTICAL RADIO STW-STUN/KILL	Requires digital (G806), IV&D, and an encryption (not including ADP-only).	H02	481	\$83.00
ADD: MOBILE IMPACT DETECTION	Triggers emergency when an impact or rollover is detected	GA01843	681	\$165.00
DEL: DELETE BLUETOOTH	-	QA05336	481	(\$100.00)

6. Feature Antennas

Multifunction Antennas (Must Select One in Multifunction is Selected)

Description	Full Description	Nomenclature	APC	Price
ADD: WIFI/GNSS FLEXIBLE CABLE LMR195	Corresponding Kit: Vehicle: AN000163A01 Motorcycle: AN000163A02	GA00250	681	\$110.00
ADD: NO GPS/WI-FI ANTENNA NEEDED	No feature antenna needed.	GA01606AA	681	\$0.00

GPS Antennas (Must select one if single function GPS is required)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT GNSS GLASSMOUNT LMR100	Corresponding kit: PMAN4109	GA01580AA	681	\$77.00
ADD: GPS/GNSS MAG MOUNT ANTENNA	Corresponding kit: PMAN4010 (antenna) & CB000091A04 (QMA to SMA adaptor)	GA01305	656	\$66.00
ADD: NO GPS ANTENNA NEEDED	No GPS Antenna Needed	GA00235	656	\$0.00

WiFi/BT Antennas (Must select one if single function WiFi is requested)

Description	Full Description	Nomenclature	APC	Price
ADD: COVERT WIFI GLASSMOUNT LMR195	Corresponding kit: PMAN5101	GA01579AA	681	\$77.00

Advanced System Key (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

7. Encryption Algorithms (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: AES ENCRYPTION APX AND ADP	Requires digital operation. P25 CAP Compliant option. Includes ADP.	G843	656	\$523.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. AES and DES-OFB Operation require digital operation. P25 CAP Compliant option. Includes ADP.	G851	656	\$879.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Multkey is required for use of more than one key. Non-P25 CAP Compliant option. Includes ADP.	G625	656	\$659.00
ADD: DVP-XL ENCRYPTION AND ADP	Includes ADP. Non-P25 CAP Compliant option.	W797	656	\$536.00
ADD: ADP ONLY (NON-P25 CAP COMPLIANT)	Provides for ADP ONLY, a Non-P25 CAP Compliant, non-FIPS compliant option. If another encryption is required, please order that option which will internally generate ADP.	G193	430	\$0.00
ADD: NO ADP FOR P25 CAP	Units shipped with QA05751 are not field-upgradable for encryption and any changes will require units to be sent to a depot. Further ordering changes are captured in the Encryption Algorithm and Multkey sections below. QA05751 is CAP a COM compliant option.	QA05751	655	\$0.00

Multkey (Optional)

All multkey options require an encryption algorithm selection.

Description	Full Description	Nomenclature	APC	Price
ADD: MULTIPLE KEY ENCRYPTION OPERATION	Required when using more than one encryption algorithm or encryption key.	W969	656	\$363.00
ENH: ASTRO 25 OTAR W/ MULTKEY	Not compatible with ADP-Only. Includes multkey, trunking OTAR, and Tactical OTAR. Tactical OTAR can only be utilized when IVSD is purchased. Requires AES.	G298	656	\$814.00
ADD: MULTI SYSTEM OTAR	Requires ASTRO 25 OTAR W/ MULTKEY (G298)	GA01620	656	\$165.00

8. Remote Mount Cables (17 FT STD)

Description	Full Description	Nomenclature	APC	Price
ADD:CBL REMOTE MOUNT 10 FEET	Corresponding kit: HKN6170	G618	656	\$11.00
ADD: REMOTE MOUNT CBL 17 FEET	Included at no charge with Single Control Head Remote Mount installations and High Power. Corresponding kit: HKN6169	G628	656	\$17.00
ADD: REMOTE MOUNT CBL 30 FEET	Corresponding kit: HKN6168	G610	656	\$28.00
ADD: REMOTE MOUNT CBL 50 FEET	Corresponding kit: HKN6167	G609	656	\$39.00
ADD:CBL REMOTE MOUNT 75 FEET	Corresponding kit: HKN6166A	G607	656	\$50.00
ADD:REMOTE MOUNT CBL 115 FEET	Corresponding kit: HKN6165	G879	656	\$61.00
ADD: REMOTE MOUNT CABLE 128 FT	***For Dual/Tri/Quad configurations, the total cable length may not be greater than 131 ft (40 meters). Therefore, this cable should not be used with a dual, tri, or quad control radio*** Corresponding kit: HKN6164	G582	656	\$72.00

Data/Programming Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: USB DATA INTFC CABLE-DASH	6 FT USB W/IGNITION SENSE Corresponding kit: HKN6163B. Can be used to program APX Mobile Radios.	G308	656	\$55.00
ADD:USB DATA INTFC CABLE-TRK	16.5 FT USB W/IGNITION SENSE Corresponding kit: HKN6172B. Can be used to program APX Mobile Radios.	G309	656	\$55.00

J600 Adapter (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: J600 ADAPTER CABLE	Accessory Kit: KT000247A01	GA01515	681	\$105.00

Cable Accessories (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EXTERNAL ALARM RELAY AND CABLE	For either HORN or LIGHTS. NOT both	W116	656	\$83.00
ADD: CABLE URC TO TRANSCIEVER	Connects Universal Relay Controller to APX Transceiver via a RJ45 and CGAI connection.	GA00260	656	\$17.00
ADD:REMOTE MOUNT VIP CBL APX	Park/Kill, Gunlock, 'Horn Ring/Horn Transfer' or Horn/Lights Park/Kill and Horn 'Ring/Horn Transfer' only available with Motorola Siren. Gunlock supported on O9 Control Head Only. CORRESPONDING KIT: (HKN6196B)	G322	656	\$39.00
ADD: UNIVERSAL RELAY CONTROLLER	Required to Control Vehicle Lights with the O3, O7 and O9 Control Heads.Requires URC Cable GA00260.	GA00259	656	\$275.00
ADD: GCAl EXTENSION CABLE 2 FT	For use with O7, O9 Control Heads and GCAl style Mic. KIT #PMKN4093A.	GA00589	656	\$33.00
ADD: KEY LOCK MOUNT APX	Remote Mount Mid Power Only.	W81	471	\$36.00

9. Microphones (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: HAND MIC GCAl WATER RESISTANT	Corresponding kit HMN1089A	G892	656	\$79.00
ADD: MODEL III GCAl KEYPAD HANDSET	Corresponding kit: HMN4097A	GA00221	656	\$325.00
ADD: NO MICROPHONE NEEDED	Select this option when ordering O3 Handheld Control Head (G72). If ordering with Motorcycle G138 the DB 25 connector on harness needs to be sealed to prevent corrosion.	G90	656	\$0.00
ADD: KEYPAD MIC GCAl	Corresponding kit: HMN4079	W20	471	\$198.00
ADD:GATEWAY RSM AND WIRELESS RSM	Corresponding kit: RLN6552	GA01439	656	\$431.00
ADD: GATEWAY RSM AND WIRELESS RSM WITH VEHICLE CHARGER	Includes 12V Vehicle Charger Corresponding kit: RLN6551	GA01354	656	\$550.00
ADD: CONTROL STATION DESK GCAl MIC	Dash Mount Required Corresponding Kit: RMN5070	W382	656	\$186.00
ADD:GATEWAY RSM	Corresponding kit: PMMN4097	GA01438	656	\$138.00
ADD: VISOR MIC REMOTE MOUNT	Requires No Microphone (G90), and PTT Option. Corresponding Kit Number: RMN5054.	W872	656	\$33.00
ADD: STD PALM MICROPHONE APX	Corresponding kit: HMN1090. Only microphone compatible with motorcycle operation.	W22	471	\$79.00
ADD: GOOSENECK PTT	Requires W872 Visor Mic. Kit Number: HMN1087A	G233	656	\$62.00

Emergency (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: EMERGENCY ID EXT. FOOTSWITCH	Corresponding kit: HLN5113.	W470	656	\$62.00
ADD: EXTERNAL EMERGENCY PUSHBUTTON	Corresponding kit: HLN5131	W688	656	\$62.00

Direct Mode Entry (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: 8 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration.	W599	656	\$198.00
ADD: 16 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1836A	W614	656	\$396.00

ADD: 24 MODE DIRECT ENTRY	NOT compatible with O3 or Motorcycle Control Heads or W269 Siren/PA or other DEK or Direct Mode Entry Selections. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1837A	W615	656	\$594.00
ADD: STATUS/MESSAGE 16	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1839A	W374	656	\$715.00
ADD: DEK FOR WHELEN SIREN W/ O3 CH ONLY	Corresponding kit: H1882A.	GA00812	656	\$116.00
ADD: DEK FOR WHELEN SIREN	Corresponding kit: H1883A.	GA00814	656	\$116.00
ADD: STATUS/MESSAGE 8	NOT compatible with O3 or Motorcycle Control Heads. Not compatible with Dash Mount configuration. Requires Remote Mount configuration. CORRESPONDING KIT: H1838A	W355	656	\$523.00

10. Speakers (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: SPKR 15W WATER RESISTANT	Corresponding kit: HSN4040	G831	656	\$66.00
ADD: SPKR 7.5W WATER RESISTANT	Corresponding kit: HSN4038	G832	656	\$67.00
ADD: AUXILIARY SPKR 7.5 WATT	Corresponding kit: HSN4031. Must select for motorcycle operation.	B18	656	\$66.00
ADD: AUXILIARY COVERT SPKR 10W APX	Corresponding Kit: HSN4042	GA01203	656	\$66.00
ADD: AUXILIARY SPKR 13W (3.2OHM)	Corresponding kit: HSN4032	W432	656	\$79.00
ADD: NO SPEAKER NEEDED	Required for Control Station Operation	G142	656	\$0.00

Auxiliary WILDCARD (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: AUXILIARY SWITCH PANEL	Corresponding kit: HLN1196. Remote Mount Required. Not compatible with O3 control head or motorcycle.	W591	656	\$182.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PREAMP	Option applies only to VHF & UHF radios.	W12	471	\$73.00

Motorcycle Enclosure

Description	Full Description	Nomenclature	APC	Price
ADD: WEATHER PROOF HOUSING ENCLOSURE BLACK	Kit number: HLN7022B	W15	656	\$1,320.00
ADD: NO MTRCYCLE ENCL NEEDED APX	-	W620	656	\$0.00

Documentation (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX MOBILE USER GUIDE	User guides can be viewed on motorolasolutions.com. The option will provide a CD kit.	G657	681	\$28.00
ADD: PRINTED TEST RESULTS APEX	-	G799	656	\$11.00

RFID (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: RFID LABEL	-	GA00268	656	\$28.00

11. Service Option (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SERVICE	-	G78	185	\$176.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00249AE	185	\$344.00
ADD: 5Y ESSENTIAL SERVICE	-	GA00318	185	\$352.00
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	-	GA00255AF	185	\$558.00

**ASTRO® Digital APX 8500
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T8422	430	\$0.00
DIGITAL CONVENTIONAL	-	T8423	430	\$0.00
ANALOG SMARTZONE	-	T8424	430	\$0.00
DIGITAL SMARTZONE	-	T8425	430	\$0.00
TDMA	-	T8426	430	\$0.00

Radio Management Delivery

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

Operation Mode Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Upgrades a unit from Analog (G241) to Digital (G806). Compatible with T8422 or T8424 models.	G808AD	430	\$651.00
ADD: SMARTZONE OMNILINK	To upgrade to P25 Trunking, G347. Compatible with T8422, T8423, T8424 models.	G173	430	\$253.00
ENH: ASTRO P25 TRUNK SOFTWARE	Includes G173 (Omnilink). Requires either a Digital Trunking T-Model, or a digital trunking upgrade.	G361AJ	430	\$380.00
ENH: UPGRADE TO TDMA	Requires G808 (Digital), G347 (Smartzone), G361 (P25) to be ordered.	GA00580AB	430	\$569.00
ENH: UPGRADE TO SMARTZONE	Upgrades a model from Conventional Operation (G48) to Trunking Operation (G51).	G347AP	430	\$1,012.00

Enable Bands

Description	Full Description	Nomenclature	APC	Price
ENH: ENABLE 7/800 FLP	-	GA00244AE	430	\$1,012.00
ENH: ENABLE VHF FLP	-	GA00306AE	430	\$1,012.00
ENH: UHF BANDS FLP	-	GA09002AA	430	\$1,012.00

Dual Radio Operation

Description	Full Description	Nomenclature	APC	Price
ENH: APX DUAL RADIO SOFTWARE FLP	Please Note: Dual Radio is only compatible with the OT control head. Does not include the cables needed to complete the solution.	GA01058	430	\$715.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIGITAL TONE SIGNALING	Requires Digital Operation	GA09000AB	430	\$190.00
ADD: DVRS MSU ACTIVATION APX MOBILE	Incompatible with Data Modem Tethering. Requires Remote Mount	GA00631AB	430	\$316.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	If you are connecting your radio directly to a DVR then order GA00631. To move from PSU to MSU requires Depot no flash is available.	QA00631AC	430	\$127.00
ADD: ENHANCED DATA	Requires P25 9600 Trunking	QA03399AB	430	\$190.00
ENH: FPP & CLONE APX	-	G53AM	430	\$165.00
ADD: GROUP SERVICES FLP	Offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires Digital for Conventional only capabilities and P25 Trunking for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature.	GA09008AB	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires Digital, IV&D, and GPS.	GA09012AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires Remote Mount. Incompatible with DVRS MSU. Provides for aftermarket cable: KT000247A01.	GA09011AB	430	\$127.00
ENH: MLTGST VOTNG SCAN-SPECTRA	Requires Digital Operation.	G387AE	430	\$253.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	GA01767AH	430	\$127.00
ADD: MOBILE PERSONAL ACCOUNTABILITY SW FLP	Requires Digital	G445AB	430	\$190.00
ENH: OVER THE AIR PROVISIONING	Requires P25 Digital Trunking. To do in field POP25 programming must use Advanced System Key (DVN4046A).	G996AW	430	\$127.00
ADD: SITE SELECTABLE ALERT FOR P25 PAGING FLP	Requires P25 9600 Trunking	GA00982AB	430	\$165.00
ENH: TACTICAL RADIO SOFTWARE	Requires Digital & IV&D. Requires Hardware Encryption. Requires DVN4046B.	H02AH	430	\$95.00
ADD: WI-FI CAPABILITY	Note that GA09001-WIFI is not available as a flashport upgrade on Console because it requires a special connector. You can take the radio to the Depot as they are able to switch out the connector and upgrade the radio. Note that GA09001-WIFI is not available as a flashport upgrade on Console because it requires a special connector. You can take the radio to the Depot as they are able to switch out the connector and upgrade the radio.	GA09001AB	430	\$380.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking G361, and Service offering SSV01S01663A. Requires either GA09001 (WIFI), or GA09011 (Data Modem Tethering). SmartConnect is incompatible with the DVRS MSU option in mobiles. SmartConnect can be ordered with DVRS PSUs but will not support seamless switching to broadband and will require users to do a manual mode change to a SmartConnect capable channel.	GA01630	430	\$0.00
ADD: MOBILE IMPACT DETECTION FLP	Triggers Emergency when impact or rollover is detected	GA01843AB	430	\$165.00
ADD: MISSION CRITICAL WIRELESS BLUETOOTH	Requires a WiFiBT antenna	QA00583AE	430	\$190.00

Advanced System Key

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLP	-	QA01648AC	430	\$6.00

Multikey

Description	Full Description	Nomenclature	APC	Price
ENH: MULTI KEY OPERATION	-	W9698J	430	\$417.00
ADD: ENCRYPTION P25 AND MDC OTAR	-	G298AU	430	\$936.00
ADD: TACTICAL OTAR	includes MULTIKEY. Tactical OTAR is not compatible with DVRs QA00631.	H04AX	430	\$443.00
ADD: MULTI SYSTEM OTAR FLASHPORT	Requires ASTRO 25 OTAR W/ MULTIKEY (G298)	GA01620	430	\$189.00

Amplifier

Description	Full Description	Nomenclature	APC	Price
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DN	430	\$83.00

APX NEXT Application Services

NOTE: Pricing shown is per month (i.e. Qty 12 = 12 months). Available choices are 12, 36 and 60 months.

Description	Full Description	Nomenclature	APC	Price
APX NEXT SMART PROG	SmartProgramming application service extension beyond the 1st year free trial.	SSV01S01407A	712	\$12.00
APX NEXT SMART CONNECT	SmartConnect application service extension beyond the 1st year free trial.	SSV01S01406A	712	\$12.00
APX NEXT SMART LOCATE	SmartLocate application service extension beyond the 1st year free trial.	SSV01S01476A	712	\$12.00
APX NEXT VIQI	VIQI Virtual Partner application service extension beyond the 1st year free trial.	SSV01S01408B	712	\$12.00

APX NEXT Flashport Upgrade

Software License Delivery (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

Models (Required)

Description	Full Description	Nomenclature	APC	Price
ANALOG SMARTZONE	-	T8675A	430	\$0.00
ANALOG CONVENTIONAL	-	T8672A	430	\$0.00
DIGITAL CONVENTIONAL	-	T8673A	430	\$0.00
DIGITAL SMARTZONE	-	T8674A	430	\$0.00
TDMA	-	T8676A	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: P25 9600 BAUD TRUNKING	-	Q361CF	430	\$380.00
ADD: ASTRO DIGITAL CAI OPTION	-	Q808AM	430	\$651.00
ENH: UPGRADE SMARTNET TO SMARTZONE	-	Q327BM	430	\$1,012.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: TDMA OPERATION	-	QA00580BB	430	\$570.00
ADD: SMARTZONE OMNILINK	-	Q173CF	430	\$253.00

System Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: MANDOWN OPERATION	-	QA01843AS	430	\$190.00
ADD: VIQI VC RADIO OPERATION	-	QA09028AB	430	\$127.00
ADD: P25 LINK LAYER AUTHENTICATION	-	QA01767BM	430	\$127.00
ADD: MULTICAST VOTING SCAN	-	Q387CC	430	\$253.00

ADD Frequency Bands

Description	Full Description	Nomenclature	APC	Price
ENH: VHF MHZ BAND FLP	-	QA00570AX	430	\$1,100.00
ENH: UHF MHZ BAND FLP	-	QA09002AE	430	\$1,100.00
ENH: 7/800 MHZ BAND FLP	-	QA00569AS	430	\$1,100.00
ADD: EXTEND RANGE TO 762-764 MHZ	-	QA07468AC	430	\$0.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869DC	430	\$418.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BP	430	\$936.00

APX NEXT™ All Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT; ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WiFi, GPS, BT, IP68	H55TG19PW8AN	437	\$8,241.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase I Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 48 months. Billing can be Annual or Uprunt.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00

APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67

Device Managed Services Training (Optional)				
Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

Antenna (Optional)				
APX NEXT ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.				
Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	450 - 520 MHz	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T	NNTN9089 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08510AA	437	\$176.00
ALT: BATTERY LI-ION IMPRES 2 IP68 4400T UL DIV 2	NNTN9217 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 4400mAh Battery	QA08520AA	437	\$154.00
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AA	437	\$198.00

Carry Accessory (Optional)				
Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN7947A APX NEXT PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AE	437	\$0.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5408A 2.75" SWIVEL BELT LOOP	QA00379AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5407A 2.5" SWIVEL BELT LOOP	QA00380AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5409A 3" SWIVEL BELT LOOP	QA07726AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5408A 2.75" SWIVEL BELT LOOP	QA07727AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5407A 2.5" SWIVEL BELT LOOP	QA07728AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5409A 3" SWIVEL BELT LOOP	QA07729AA	437	\$75.00

Packaging Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BR	437	\$0.00

Factory Configuration (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

APX NEXT™ Options

2. Operation Mode (Must Select One)

2A: Digital Trunking (SN/SZ Phase I Interop)				
Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: P25 9600 BAUD TRUNKING	MUST also order H38 & Q806. INCLUDED at 'NO Charge' Q173-OminLink. APX digital radios require Advanced System Keys (ASK- DVN4046A) to be configured to operate on a trunking system.	Q361CD	437	\$330.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00

2B: Digital Trunking (SNSZ)				
Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00

2C: Digital Conventional (P25)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	-	Q806CH	437	\$567.00
ADD: CONVENTIONAL OPERATION	-	H35DD	437	\$880.00

2D: Analog Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: SMARTZONE OPERATION	A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased.	H38DA	437	\$1,650.00
ADD: ANALOG OPERATION	-	Q241CB	437	\$0.00

2E: Analog Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG OPERATION	-	Q241CB	437	\$0.00
ADD: CONVENTIONAL OPERATION	-	H35DD	437	\$880.00

3. WiFi Connectivity (Required)

WiFi Capability and Out of Box Provisioning must be selected with APX NEXT family of radios.				
Description	Full Description	Nomenclature	APC	Price
ADD: WIFI CAPABILITY	The APX NEXT family of radios can be programmed only wirelessly. The APX NEXT, APX NEXT XE, and APX NEXT XN radios are enabled with LTE service. However, if LTE coverage is not available, the radios can use a preset default Wi-Fi SSID, to wirelessly download radio configurations and updates. • Includes Out of Box Provisioning over WiFi (QA09007)	QA09001AM	437	\$330.00

Encryption Algorithm Types (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	(Analog 25 kHz) / DES-OFB (Digital 12.5 kHz Only)	Q625BK	437	\$659.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25kHz Only) operations. ADP Privacy ships standard with Single Key. Multkey is required for multiple algorithms, such as ADP/AES or ADP/DES	H797DW	437	\$536.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	NOT compatible with Q629 or Q625. Must order multkey if you want to use both algorithms.	Q15AU	437	\$879.00
ADD: NO ADP FOR P25 CAP	Customers who require compliance with DHS Project 25 CAP Encryption Requirements and who requires a clear radio with no encryption enabled will need to select option QA05751. The radios will need to be sent to the Motorola Depot if Encryption is needed in the future.	QA05751AF	437	\$0.00

Submersible Selection (Optional)				
Description	Full Description	Nomenclature	APC	Price
ENH: SUBMERSIBLE (DELTA T)	MIL-STD Delta-T, IP68 (2m, 4hr)	H499KC	437	\$165.00

System Enhancement Options (Optional)				
Description	Full Description	Nomenclature	APC	Price

ADD: TDMA OPERATION	Requires Q806, H38, Q361. A SOFTWARE or HARDWARE KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking. HARDWARE KEY or WACN KEY will still REQUIRE a DVN4046 to be purchased	QA00580BA	437	\$495.00
ADD: VIQI VC RADIO OPERATION	Use ViQI Voice Control to operate the radio with voice commands. Change Channels and Zones, adjust Volume level, activate Audio Profiles, start/stop Scan, get Battery Level information.	QA09028AA	437	\$110.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399AK	437	\$165.00
ADD: MULTICAST VOTING SCAN	Requires Q806 (ASTRO DIGITAL CAI OPERATION)	Q387CB	437	\$220.00
ADD: MANDOWN OPERATION	If a user becomes incapacitated, and is lying down motionless, an automatic Man Down Emergency Alarm or Emergency Call will be sent out on the programmed talk group.	QA01843AR	437	\$165.00
ADD: DVRS PSU ACTIVATION	Extends Portable Subscriber Unit (PSU) coverage through a Digital Vehicular Repeater System (DVRS) connected to a High Power Mobile radio.	QA00631AL	437	\$110.00
ADD: APX PERSONNEL ACCOUNTABILITY	Using a Systems Definition, Inc. Ireground accountability application, incident commanders can easily identify who has responded to the incident, conduct roll-calls, identify a responder's Mayday alarm, issue an evacuation notification even monitor the battery levels of responder's radios or remotely change the radio to a different talkgroup.	Q445BC	437	\$165.00
ADD: DIGITAL TONE SIGNALING	Alert first responders to an incident by broadcasting a series of distinct, recognizable tones followed by a voice transmission from dispatch. Works on P25 conventional or trunked systems, providing digital Quick-Call II operation (identical in operation to the legacy analog version).	QA09000AG	437	\$165.00

APX NEXT™ Single Band

1. Main Model (Required) applicable to Single or Dual Band Configurations

Description	Full Description	Nomenclature	APC	Price
APX NEXT SINGLE BAND MODEL 4.5 PORTABLE	3.6" Touch Display, (7/800MHz, VHF, UHF), LTE, WIFI, GPS, BT, IP68	H45TG9PW8AN	142	\$6,641.00

1. a. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1. b. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND+	700/800MHz Secondary Band	QA00569AR	142	\$800.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$800.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$800.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - S/N/SZ P25 Phase I Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 48 months. Billing can be Annual or Upfront.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67

Device Managed Services Training (Optional)

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING TRAINING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

Antenna (Optional)

APX NEXT ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380-470MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	450-527MHz	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT ships standard with the LH-ION IMPRES 2 IP68 4400 mAh battery (NNTN9216). You may select an alternate battery from the list below.

NOTE: APX NEXT batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LH-ION IMPRES 2 IP68 5650T	NNTN9089 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08510AA	437	\$176.00
ALT: BATTERY LH-ION IMPRES 2 IP68 4400T UL DIV 2	NNTN9217 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 4400mAh Battery	QA08520AA	437	\$154.00
ALT: BATTERY LH-ION IMPRES 2 IP68 5650T UL DIV 2	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AA	437	\$198.00

Carry Accessory (Optional)

APX NEXT ships standard with the PLASTIC HOLSTER (PMLN7947A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN7947A APX NEXT PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AE	437	\$0.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5408A 2.75" SWIVEL BELT LOOP	QA00379AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5407A 2.5" SWIVEL BELT LOOP	QA00380AA	437	\$75.00
ALT: HARD LEATHER CARRY CASE STANDARD BATTERY 3 INCH BELT LOOP	Consists of: PMLN7948A HYBRID LEATHER CARRY CASE and PMLN5409A 3" SWIVEL BELT LOOP	QA07726AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.75 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5408A 2.75" SWIVEL BELT LOOP	QA07727AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 2.5 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5407A 2.5" SWIVEL BELT LOOP	QA07728AA	437	\$75.00
ALT: HARD LEATHER CARRY HOLDER HI-CAP BATTERY 3 INCH BELT LOOP	Consists of: PMLN7964A HYBRID LEATHER CARRY CASE FOR HIGH CAP BATTERY and PMLN5409A 3" SWIVEL BELT LOOP	QA07729AA	437	\$75.00

Packaging Selection (Optional)

APX NEXT ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in Individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BR	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799	579	\$11.00

APX NEXT™ XE All Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT; ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WiFi, GPS, BT, IP68	H55TG19PW8AN	437	\$8,241.00

1. a. XE Housing (Must Select QA02006 for APX NEXT XE)

Description	Full Description	Nomenclature	APC	Price
ADD: APX NEXT XE M4.5 RUGGED RADIO	-	QA02006AE	437	\$770.00
ALT: APX NEXT XE HOUSING GREEN	-	QA01427AK	437	\$28.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase 1 Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 48 months. Billing can be Annual or Upfront.

WARNING: Minimum of DMS Essential service contract is required to maintain access to RadioCentral programming tool after the initial 12 month promotional period.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67

Device Managed Services Training (Optional)

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	WARNING: Software System Key (QA01749) is the default selection for all APX radios. APX NEXT radios ordered with Software Keys (QA01749), can be programmed with either Software keys, Hardware keys or a combination of Software and Hardware keys. APX NEXT radios ordered with Hardware System Key (QA01648), can only be programmed when all Hardware keys are loaded into RadioCentral. Be certain that you are making the correct selection, based on the type of System Keys that your customer is using, as it CANNOT be changed in the field after the radios ship.	QA01648	655	\$6.00

Antenna (Optional)

APX NEXT XE ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	470 - 520 MHz (when used with APX NEXT XE)	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT XE ships standard with the LI-ION IMPRES 2 IP68 4400 mAh UL DIV 2 battery (NNTN9217).

You may select an alternate battery from the list below.

NOTE: APX NEXT / APX NEXT XE batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2 XE	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AB	437	\$154.00

Carry Accessory (Optional)

APX NEXT XE ships standard with the PLASTIC HOLSTER (PMLN8208A) with 2.5" BELT CLIP (NTN8266) You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN8208A APX NEXT XE PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AF	437	\$0.00
DEL: DELETE BELT CLIP/BASIC CARRY XE	This option deletes the APX NEXT XE carry holder, PMLN8208, and belt clip.	H301DJ	437	(\$10.00)

Packaging Selection (Optional)

APX NEXT XE ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in Individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BH	437	\$11.00

Application Services

Application Services 1st Year PROMOTION (Required)

Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs
APX NEXT SMART PROGRAMMING - PROMO+	SSV01P01407B	1 Year	-	\$75.00
APX NEXT SMART CONNECT - PROMO +	SSV01P01406A	1 Year	-	\$75.00
APX NEXT VIQI-PROMO+	SSV01P01408B	1 Year	-	\$75.00
APX NEXT SMART LOCATE - PROMO+	SSV01P01476A	1 Year	-	\$75.00
SMART LOCATE MAPPING TRIAL+ (for use with SmartLocate)	SSV01P01685B	1 Year	-	\$56.00
APX NEXT SMART MAPPINGPROMO+	SSV01P01902A	1 Year	-	\$75.00
APX NEXT SMART MESSAGING-PROMO+	SSV01P01901A	1 Year	-	\$75.00
Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs
APX NEXT APPLICATION BUNDLE PROMO DISCOUNT	H636AB	1 Year	-	(\$300.00)
SMART LOCATE MAPPING TRIAL PROMO DISCOUNT (only applies toward SmartLocate)	H638EA	1 Year	-	(\$56.00)

APX NEXT™ XE Single Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT SINGLE BAND MODEL 4.5 PORTABLE	3.6" Touch Display, (7/800MHz, VHF, UHF), LTE, WiFi, GPS, BT, IP68	H45GT9PW8AN	142	\$6,641.00

1. a. XE Housing (Must Select QA02006 for APX NEXT XE)

Description	Full Description	Nomenclature	APC	Price
ADD: APX NEXT XE M4.5 RUGGED RADIO	-	QA02006AE	437	\$770.00
ALT: APX NEXT XE HOUSING GREEN	-	QA01427AK	437	\$28.00

1. b. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1. c. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND+	700/800MHz Secondary Band	QA00569AR	142	\$800.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$800.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$800.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE	Includes: • DIGITAL TRUNKING - S/N/SZ P25 Phase 1 Interop (Q361, Q806; Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028) • SUBMERSIBLE DELTA-T (H499)	BD00001AA	437	\$3,106.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'conclerge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 24 months. Billing can be Annual or Upfront.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67
APX NEXT DMS PREMIER	Premier services provide a managed service experience with a tailored 'conclerge' approach that shifts responsibility for device management over to Motorola Solutions. Features include: • All Essential & Advanced features PLUS • On Demand Programming (Motorola performs initial device provisioning and firmware / configuration updates upon request) • Device Preventative Maintenance • Accidental Damage Repairs	MSV01S01416A	727	\$27.50

Description	Nomenclature	Duration	APC	Price
APX NXT DMS SMART INSIGHT DIAGNOSTIC-PROMO	LSV01P01903A	12 months	724	\$0
APX NXT DMS SMART INSIGHT USAGE-PROMO	LSV01P01904A	12 months	724	\$0
APX NXT DMS SMART INSIGHT BATTERY-PROMO	LSV01P01905A	12 months	724	\$0

Device Managed Services Training (Optional)

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

Antenna (Optional)

APX NEXT XE ships standard with the All-Band Flexible antenna (AN000297A01). You may select an alternate antenna from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: STUBBY 7-800MHZ 6CM ANTENNA	-	QA07710AA	437	\$0.00
DEL: DELETE STANDARD ANTENNA	-	H112MC	437	\$0.00
ALT: STUBBY UHF 1 380-470MHZ 9CM	380 - 470 MHz	QA08246AA	437	\$0.00
ALT: STUBBY UHF 2 450-527MHZ 9CM	470 - 520 MHz (when used with APX NEXT XE)	QA08247AA	437	\$0.00
ALT: 7/800 MHZ WHIP ANTENNA (762-870MHZ)	Whip Antenna 7/800 MHz (762-870MHz) 16 cm	QA08243AA	142	\$0.00
ALT: UHF WHIP ANTENNA (380-520MHZ)	Whip Antenna UHF (380-520MHz) 14 cm	QA08245AA	142	\$0.00

Battery Selection (Optional)

APX NEXT XE ships standard with the LI-ION IMPRES 2 IP68 4400 mAh UL DIV 2 battery (NNTN9217). You may select an alternate battery from the list below.

NOTE: APX NEXT / APX NEXT XE batteries are only compatible with NNTN9199 Single Unit Charger and NNTN9115 6-Slot Multi Unit Charger.

Description	Full Description	Nomenclature	APC	Price
ALT: BATTERY LI-ION IMPRES 2 IP68 5650T UL DIV 2 XE	NNTN9090 UL2054 DIV 2 IMPRES 2, Lilon, IP68, 5650mAh Battery	QA08530AB	437	\$154.00

Carry Accessory (Optional)

APX NEXT XE ships standard with the PLASTIC HOLSTER (PMLN8208A) with 2.5" BELT CLIP (NTN8266). You may select an alternate carry solution from the list below.

Description	Full Description	Nomenclature	APC	Price
ALT: PLASTIC CARRY HOLSTER WITH 3 INCH CLIP	Consists of: PMLN8208A APX NEXT XE PLASTIC HOLSTER and PMLN7965B 3" BELT CLIP	Q698AF	437	\$0.00
DEL: DELETE BELT CLIP/BASIC CARRY XE	This option deletes the APX NEXT XE carry holder, PMLN8208, and belt clip.	H301DJ	437	(\$10.00)

Packaging Selection (Optional)

APX NEXT XE ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in Individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING		H842BT	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT		H799BH	437	\$11.00

Application Services

Application Services 1st Year PROMOTION (Required)

Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs
APX NEXT SMART PROGRAMMING - PROMO+	SSV01P01407B	1 Year	-	\$75.00
APX NEXT SMART CONNECT - PROMO +	SSV01P01406A	1 Year	-	\$75.00
APX NEXT VIQI-PROMO+	SSV01P01408B	1 Year	-	\$75.00
APX NEXT SMART LOCATE - PROMO+	SSV01P01476A	1 Year	-	\$75.00
SMART LOCATE MAPPING TRIAL+ (for use with SmartLocate)	SSV01P01685B	1 Year	-	\$56.00
APX NEXT SMART MAPPING-PROMO+	SSV01P01902A	1 Year	-	\$75.00
APX NEXT SMART MESSAGING-PROMO+	SSV01P01901A	1 Year	-	\$75.00
Description	Nomenclature	Duration	Single App Service	Bundle of 4 App Svcs
APX NEXT APPLICATION BUNDLE PROMO DISCOUNT	H636AB	1 Year	-	(\$300.00)
SMART LOCATE MAPPING TRIAL PROMO DISCOUNT (only applies toward SmartLocate)	H638EA	1 Year	-	(\$56.00)

APX NEXT™ XN All Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT XN: ALL-BAND MODEL 4.5 PORTABLE	3.6" Touch Display, All Band (VHF, UHF, 7/800MHz), LTE, WIFI, GPS, BT, IP68	H55TGU9PW8AN	621	\$10,441.00

1a. Remote Speaker Microphone or 12-Pin GCAI Adapter (Required)

Description	Full Description	Nomenclature	APC	Price
XVN500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITHOUT KNOB	XVN500 REMOTE SPEAKER MIC IMPACT GREEN WITHOUT KNOB	PMMN4138A	372	\$775.00
APX NEXT XN MSI 12-PIN INTERFACE-TO-10-PIN RFDC ADAPTER	GCAI 12-PIN INTERFACE-TO-10-PIN RFDC ADAPTER	PMKN4262A	742	\$265.00

1b. Boston Leather Carry Case (PMLN8328)

Description	Full Description	Nomenclature	APC	Price
ADD: LEATHER CARRY CASE XN	PMLN8328A - APX NEXT XN BOSTON LEATHER CARRY CASE	QA08852AA	621	\$114.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional.

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE APX NEXT XN	Includes: • DIGITAL TRUNKING - S/N/SZ P25 Phase 1 Interop (Q361, Q806, Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VIQI VOICE CONTROL (QA09028)	BD00004AA	621	\$2,996.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKIY (Q498 and H869) • DES, DES-XL, DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 48 months. Billing can be Annual or Upfront.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67

Device Managed Services Training (Optional)

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

Packaging Selection (Optional)

APX NEXT XN ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING		H842BT	437	\$0.00

Factory Configuration (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: TEST RESULTS / RATED AUDIO PRINTOUT		H799	579	\$11.00

APX NEXT™ XN Single Band

1. Main Model (Required)

Description	Full Description	Nomenclature	APC	Price
APX NEXT XN; SINGLE BAND MODEL 4.5 PORTABLE	APX NEXT XN Single Band 3.6" Touch Display (7/800MHz, VHF, UHF), LTE, WiFi, GPS, BT, IP68	H4STGUPW8AN	671	\$8,841.00

1a. Remote Speaker Microphone or 12-Pin GCAI Adapter (Required)

Description	Full Description	Nomenclature	APC	Price
XV/N500 REMOTE SPEAKER MIC, HIGH IMPACT GREEN WITHOUT KNOB	XV/N500 REMOTE SPEAKER MIC IMPACT GREEN WITHOUT KNOB	PMMN4138A	372	\$775.00
APX NEXT XN MSI 12-PIN INTERFACE-TO-10-PIN RFDC ADAPTER	GCAI 12-PIN INTERFACE-TO-10-PIN RFDC ADAPTER	PMKN4262A	742	\$265.00

1b. Boston Leather Carry Case (PMLN8328)

Description	Full Description	Nomenclature	APC	Price
ADD: LEATHER CARRY CASE XN	PMLN8328A - APX NEXT XN BOSTON LEATHER CARRY CASE	QA08852AA	621	\$114.00

1c. Primary Band Selection (Required)

Primary band MUST be selected

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND	700/800MHz Primary Band	QA00569AP	142	\$0.00
ADD: VHF BAND	VHF Primary Band	QA00570AT	142	\$0.00
ADD: UHF BAND	UHF Primary band (380-520MHz)	QA00571AR	142	\$0.00

1d. Secondary Band Selection (Optional)

Select one of the secondary band options below for dual-band configurations

Description	Full Description	Nomenclature	APC	Price
ADD: 7/800MHZ BAND+	700/800MHz Secondary Band	QA00569AR	142	\$800.00
ADD: VHF BAND+	VHF Secondary Band	QA00570AW	142	\$800.00
ADD: UHF BAND+	UHF Secondary band (380-520MHz)	QA00571AS	142	\$800.00

2. Software Bundles (Required)

Core Trunking Bundle must be selected. Security, Operational, and Tactical bundles are optional

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BUNDLE APX NEXT XN	Includes: • DIGITAL TRUNKING - SN/SZ P25 Phase 1 Interop (Q361, Q806; Q173, H38) • TDMA OPERATION (QA00580) • AES ENCRYPTION (Q629) • WIFI CAPABILITY (QA09001) • OUT OF THE BOX WIFI PROVISIONING (QA09007) • ENHANCED DATA (QA03399) • MULTICAST VOTING SCAN (Q387) • VQI VOICE CONTROL (QA09028)	BD00004AA	621	\$2,996.00
ADD: SECURITY BUNDLE	Includes: • ASTRO 25 OTAR W/ MULTIKEY (Q498 and H869) • DES,DES-XL,DES-OFB ENCRYPTION (Q625) • P25 LINK LAYER AUTHENTICATION (QA01767) • DVP-XL ENCRYPTION (H797)	BD00010AA	437	\$1,023.00
ADD: OPERATIONAL BUNDLE	Includes: • DVRS PSU ACTIVATION (QA00631) • MANDOWN OPERATION (QA01843)	BD00015AA	437	\$207.00
ADD: TACTICAL BUNDLE	Includes: • PERSONNEL ACCOUNTABILITY (Q445) • DIGITAL TONE SIGNALING (QA09000)	BD00020AA	437	\$248.00

3. Device Managed Services 1st Year PROMOTION (Required)

Pricing listed is per Month (Qty 12 = 12 months). Must select quantity 12.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ADVANCED SERVICE-PROMO	As a promotion, the customer will receive DMS Advanced service benefits for the first 12 months at the price of DMS Essential.	LSV01P01414A	724	\$5.74

Device Managed Services (Optional)

Select coverage desired after the 12 month DMS promotion

Pricing listed is per Month (i.e. Qty 12 = 12 months). Can select 1 to 48 months. Billing can be Annual or Upfront.

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS ESSENTIAL	Essential services are designed for customers who want to limit their investment to basic hardware and software support. Features include: • Standard Hardware Repair • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01410A	723	\$4.50
APX NEXT DMS ESSENTIAL W ACC DMG	Essential services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01411A	723	\$15.33
APX NEXT DMS ESSENTIAL SW	Essential Software Only (NO Hardware Repair) services are designed for customers who want to limit their investment to basic software support. Features include: • Access to RadioCentral cloud-based tool with "one-at-a-time" device programming capabilities • Access to MyView portal with device service information • Device Software Maintenance • Technical Support	LSV01S01911A	723	\$1.00
APX NEXT DMS ADVANCED	Advanced services are ideal for customers who wish to remain self-maintained but want to receive the tools and training necessary to provision/program and maintain their devices. Features include: • Standard Hardware Repair • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01414A	724	\$6.75
APX NEXT DMS ADVANCED W ACC DMG	Advanced services + Comprehensive Hardware Repair of Accidentally Damaged radios	LSV01S01415A	724	\$17.58
APX NEXT DMS ADVANCED SW	Advanced Software Only (NO Hardware Repair) services are ideal for customers who wish to remain self-maintained on a tight budget. Features include: • RadioCentral cloud-based tool with batch programming capabilities • MyView portal with device service dashboards • Device Software Maintenance • Technical Support	LSV01S01912A	724	\$2.67

Device Managed Services Training (Optional)

Description	Full Description	Nomenclature	APC	Price
APX NEXT DMS TRAINING VIRTUAL (1 SEAT)	APX NEXT PROGRAMMING VIRTUAL ONLINE TRAINING (1 SEAT)	PSV01S01742A	943	\$1,700.00
APX NEXT DMS TRAINING MSI SITE (1 SEAT)	APX NEXT PROGRAMMING TRAINING AT MOTOROLA SOLUTIONS FACILITY (1 SEAT)	PSV01S01743A	943	\$1,700.00
APX NEXT DMS TRAINING CUST SITE (12 SEATS)	APX NEXT PROGRAMMING TRAINING AT CUSTOMER SITE (12 SEATS)	PSV01S01744A	943	\$19,200.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY		QA01648	655	\$6.00

Packaging Selection (Optional)

APX NEXT XN ships standard in Bulk (10 radios per box). Select H842 if you wish to have radios packaged in individual boxes.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE UNIT PACKING	-	H842BT	437	\$0.00
Factory Configuration (Optional)				
ADD: TEST RESULTS / RATED AUDIO PRINTOUT	-	H799BH	437	\$11.00

AIS - Artificial Intelligence Survey

Description	Full Description	Nomenclature	APC	Price
AIS Upgrade	-	FDKT00338		\$33,700
AIS Software	-	FSFW00077		\$30,000

**ASTRO® 25 Trunking
L NON-REDUNDANT/L REDUNDANT Core Upgrades**

CORE UPGRADE REQUIREMENTS

Required: Order the Core

Redundant or Non-Redundant Core

Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L Core Upgrade Configuration	-	SQM01SUM0240	425	\$0.00
ADD: ASTRO 7.14 UPGRADE KEY	-	CA02019AD	425	\$0.00

Step 2: Order Qty 4 Additional DAS HDs for L1 and L2 Cores

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.13 OEM TO 7.15 EMB	-	CA02666AA	382	\$12,800.00
ADD: L UPGRADE CONFIGURATION 7.13 TO 7.15	-	CA02700AA	425	\$130,000.00
ADD:MOSCAD NFM VIRTUAL APP UPGRADE 7.14 EMB TO 7.15 EMB	-	CA02665AA	382	\$12,800.00
ADD: TRUNKING DATA SW UPGRADE 7.15	-	CA01893AE	425	\$9,000.00
ADD: L UPGRADE CONFIGURATION 7.14 TO 7.15	-	CA02701AA	425	\$65,000.00
ADD: SECURITY BUNDLE UPGRADE 7.15	-	CA01895AE	425	\$2,000.00
ADD: RADIO AUTHENTICATION UPGRADE 7.15	-	CA01891AE	425	\$1,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
DAS - PROCESSOR MODULE	-	DLN6879	877	\$7,980.00
DVD DRIVE	-	DLN6866	280	\$136.00
FRU: DL380 G8p POWER SUPPLY	-	DLN6864	280	\$436.00
FRU: DL380p G8 HC NO DISK	Server used in non-redundant core configurations. One per L1 and M1.	DLN6863	280	\$19,500.00
FRU: DL380p G8 HC 300GB DISK	Used in redundant core configurations. Two per L2, M2, and M3 1st zone and 1 per M3 add-on zone.	DLN6822	280	\$20,000.00
SAS CABLE 1M	-	CKN6952	454	\$96.00
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
CPH 300 GB HARD DRIVE	-	DLN6844	280	\$411.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00

**ASTRO® 25 Trunking
L NON-REDUNDANT/ L REDUNDANT Core – A7.16 New & Expansion**

Required: Order the Core

Order the Supermodel

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options

Description	Full Description	Nomenclature	APC	Price
ADD: NON REDUNDANT CORE	-	CA02881AA	425	\$110,950.00
ADD: REDUNDANT CORE	Required: Order Rack or Cabinet	CA02882AA	425	\$229,575.00

Required: Order Rack or Cabinet

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Required for Expanding 7.16 systems only	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Required for Expanding 7.15 systems only

NOTE: L to M Migration is ordered on the M-Core 7.16 New Add-on page

Description	Full Description	Nomenclature	APC	Price
ADD: EXPAND 7.16 L CORE	Required for L1 to L2 Expansion	CA02648AB	877	\$0.00

Required for L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	Optional: Order System Features	CA02883AA	425	\$150,000.00

Optional: Order System Features

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls. Two servers are included with this option.	CA02919AA	877	\$40,000.00
ADD: DYNAMIC TRANSCODER	Required to transcode audio at the zone level when a call is granted at TDMA only and FDMA only sites. Need UA00160AA - Phase 2 Dynamic Talkgroup Assignment Site License and UA00222AA - 5 Simultaneous Transcoded Calls. One server is needed for Dynamic Transcoding, which ships as standard on L1/M1. ISSI8000 and Dynamic Transcoding cohab on this server.	CA02834AA	877	\$20,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Optional: Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	Optional: Order Additional Features	UA00235AA	877	\$250.00

Optional: Order Additional Features

Security / IA Package

Description	Full Description	Nomenclature	APC	Price
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ADD: SECURITY BUNDLE		-	CA01741AE	425	\$20,000.00
Radio Authentication and Licenses					
Description	Full Description	Nomenclature	APC	Price	
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00	
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00	
ADD:RADIO AUTHENTICATION	-	CA02472AC	877	\$11,300.00	
IPv6					
Description	Full Description	Nomenclature	APC	Price	
IPv6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00	
ADD: IPv6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00	
700/800 Mixed Site					
Description	Full Description	Nomenclature	APC	Price	
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.	CA01395AA	877	\$15,000.00	
Integrated Data					
Description	Full Description	Nomenclature	APC	Price	
ADD:TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00	
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00	
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00	
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00	
ADD: HA TRUNKED INTGRD DATA	-	CA02135AC	425	\$85,000.00	
ADD: INTERSYSTEM DATA - CONNECTED CEN	Optional: Configuration Features	UA00163AA	877	\$20,000.00	
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00	
Optional: Configuration Features					
System Management					
Description	Full Description	Nomenclature	APC	Price	
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00	
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00	
Network Management Client					
Description	Full Description	Nomenclature	APC	Price	
ASTRO CLIENT APPL SW 7.16	-	T8206	877	\$850.00	
Network Management					
Description	Full Description	Nomenclature	APC	Price	
ADD: DYNAMIC REPORTS	-	UA00150AA	877	\$15,000.00	
ADD: ZONE HISTORICAL RPTS	-	UA00144AA	877	\$5,000.00	
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00	
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00	
ADD: AFFILIATION USER RPTS	-	UA00151AA	877	\$7,000.00	
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00	
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00	
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00	
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00	
UEM					
Description	Full Description	Nomenclature	APC	Price	
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00	
ADD: UEM ENHANCED NAVIGATION	Order one per zone	UA00225AA	877	\$50,000.00	
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00	
ADD: MICROWAVE MAP AND SEGMENT VIEW	Order one per zone.	UA00226AA	877	\$12,000.00	
ATIA					
Description	Full Description	Nomenclature	APC	Price	
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00	
ENH: TECHNICAL ASSISTANCE, TEN HOURS	This option is required with ATIA and Flexible ATIA. Provides the customer with 10 hours of technical assistance for implementing the Air Traffic Information Access feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 10 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 10 hours of support after exceeding the initial ten hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00103AA	285	\$3,000.00	
CADI					
Description	Full Description	Nomenclature	APC	Price	
ENH: TECHNICAL ASSISTANCE, FORTY HRS	This option is required with CADI Software Option. Provides the customer with 40 hours of technical assistance for implementing the Computer Aided Dispatch Interface (CADI) feature. Quantities greater than one (1) of this option may be ordered for customers who require more than 40 hours of assistance. An upgrade order can also be placed for this option alone for customers who require the purchase of an additional 40 hours of support after exceeding the initial forty hours of assistance. Customers should call the System Support Center to schedule the support. Please refer to EYES for a detailed description of the terms and conditions associated with this support. This option is NON-DISCOUNTABLE.	ZA00104AA	285	\$12,000.00	
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00	
Email Alarm Notifications & Northbound Interface					
Description	Full Description	Nomenclature	APC	Price	
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00	
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00	
Terminal Server					
Description	Full Description	Nomenclature	APC	Price	
ADD: TERMINAL SERVER	Optional: Order Encryption	CA01750AA	425	\$6,500.00	
Optional: Order Encryption					
GGM 8000 Encryption					
Description	Full Description	Nomenclature	APC	Price	
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00	
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00	
Optional: SMART-X Licenses					
Description	Full Description	Nomenclature	APC	Price	
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00	
SMARTX 3600 SITE LICENSE	This license is required when the SmartX3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00	
Optional: Order Licenses					
Dynamic Transcoding					

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
P25 TDMA Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
Conventional Talkgroup license				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
Additional Console Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00
Additional Radio User Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
Enhanced Data Users				
Description	Full Description	Nomenclature	APC	Price
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone.(Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00

Optional: Order Anti-Virus

Anti-Virus / Anti Malware

Description	Full Description	Nomenclature	APC	Price
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
ADD: AC POWER	Additional Resources	CA01616AA	147	\$0.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
FRU: DL380-GX 1.2TB 6G SAS 10KSFH HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00

ASTRO® 25 Trunking

L NON-REDUNDANT/L REDUNDANT Core - A7.16 Upgrades

CORE UPGRADE REQUIREMENTS

Required: Order the Core

Redundant or Non-Redundant Core

Step 1: Order the L Core Upgrade Model

Description	Full Description	Nomenclature	APC	Price
L-CORE UPGRADE CONFIGURATION	-	SQM01SUM0290	877	\$0.00
ADD: UPGRADE A7.16	-	CA02921AA	425	\$0.00

Step 2: Order Qty 4 Additional HD for DAS if upgrading 7.14 L1 or L2 Core. Order Qty 2 Additional HD for DAS if upgrading 7.15 L1 or L2 Core.

Description	Full Description	Nomenclature	APC	Price
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00

Step 3: Order the L Core Upgrade Software options

Description	Full Description	Nomenclature	APC	Price
ADD: ADD: TERMINAL SERVER UPGRADE	-	CA01886AB	425	\$50.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02925AA	425	\$65,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.15 TO 7.16	-	CA02924AA	425	\$65,000.00
ADD: L REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02923AA	425	\$130,000.00
ADD: TRUNKING DATA SW UPGRADE 7.16	-	CA02926AA	425	\$9,000.00
ADD: MOSCAD VIRTUAL APP UPGRADE 7.14, 15 TO 7.16	-	CA02908AA	382	\$12,800.00
ADD: RADIO AUTHENTICATION UPGRADE 7.16	-	CA02927AA	425	\$1,000.00
ADD: SECURITY BUNDLE UPGRADE 7.16	-	CA02928AA	425	\$2,000.00
ADD: L NON-REDUNDANT UPGRADE CONFIGURATION 7.14 TO 7.16	-	CA02922AA	425	\$130,000.00
ADD: NORTHBOUND INTERFACE UPGRADE	-	CA02910AA	877	\$5,000.00

Accessories / FRUs

Description	Full Description	Nomenclature	APC	Price
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
1 TB SAS HARD DRIVE	-	DLN6881	280	\$637.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DOTHILL 4524 RAID I/O CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00
FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
FRU: DL380-GX 1.2TB 6G SAS 10KSFH HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE, DATA,MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00

DAS - 600 GB SAS HARD DRIVE	-	DLN6878	454	\$941.00
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**ASTRO® 25 Trunking
L NON-REDUNDANT/ L REDUNDANT Core – A7.17 New & Expansion**

Required: Order the Core
Order the Supermodel

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

Redundancy Options

Both options are required for an L1.

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AB	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AA	425	\$84,950.00

Both options are required for an L2.

Description	Full Description	Nomenclature	APC	Price
ADD: L2 REDUNDANT HW	-	CA03112AA	425	\$103,575.00
ADD: L2 REDUNDANT SW	-	CA02882AB	425	\$231,000.00

Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET	Expanding 7.17 system	CA01664AB	183	\$3,000.00
ADD: RACK	-	CA01663AB	183	\$495.00

Expanding 7.17 system

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION OFF L CORE CAPABILITIES - FEATURE	L1 to L2 Expansion	CA02648AC	425	\$0.00

L1 to L2 Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: L1-TO-L2 REDUNDANCY	-	CA02883AA	425	\$150,000.00

Capacity Licenses

P25 FDMA/TDMA Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00

Additional Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	A license should be purchased for each MCC7500, MCC7100 and AIS position.	UA00156AA	877	\$5,000.00

User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD:500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Each option ordered provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system	UA00664AA	877	\$1,000.00

Integrated Data

Integrated Data Site Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00

Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AA	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00
ADD:TRUNKED INTEGRATED DATA	-	CA01786AD	425	\$105,000.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ENH: TRUNKED ENHANCED DATA	Requires Trunked Integrated Data.	CA02389AA	222	\$12,000.00
ADD: HA TRUNKED INTGRD DATA	-	CA02135AC	425	\$85,000.00
ENH: 500 ENHANCED TRUNKED DATA USER LICENSES	Order the appropriate number of Enhanced Trunked Data user license packs based upon the number of Enhanced Trunked Data equipped radios in the zone. (Note: The maximum number of Data users is dependent upon the system configuration and type of Data users. Please consult the System Planner before ordering.)	CA02473AA	877	\$2,000.00

Group Services Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

System Features

Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

SmartConnect

Location on PTT

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	-	UA00482AA	877	\$3,000.00

Interference Locator

Description	Full Description	Nomenclature	APC	Price
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M2/L2	-	CA02919AB	877	\$40,000.00
ADD: DYNAMIC TRANSCODER M1/L1	-	CA02834AB	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS L-CORE	-	CA02818AA	425	\$2,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conventional talkgroup and CSSI interfaces. Need: UA00224AA Conventional Talkgroups via CSSI per Base Radio License	UA00223AA	226	\$20,000.00

Security / IA Package

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AF	425	\$20,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS (A7.17.3)	Optional feature which enables product specific firewalls for Windows products. This option includes the ASTRO 25 Security Server Hardware and Software needed to support Host-Based CSMS. NOTE: Host-Based CSMS device licenses need to be ordered separately for each Windows device in the system.	CA03584AA	877	\$80,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	This option is required when "Host-Based CSMS" (CA03584AB) is ordered. Must order (1) for each Windows device in the system.	UA00726AA	877	\$200.00

Radio Authentication and Licenses

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	-	CA02472AD	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	This license gives the ability for the ASTRO 25 system to signal alerts at user-selected trunking sites.	CA02413AA	877	\$20,000.00

IPv6

Description	Full Description	Nomenclature	APC	Price
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IPV6	Optional feature which enables IPv6 connectivity at the Zone Core. If you choose to order this optional feature, you are required to order one per zone (including Astro 25 Conventional Only systems). NOTE: There is a corresponding IPv6 site license that must be ordered. The site license is not needed for an ASTRO 25 Conventional Only system.	CA01417AA	877	\$50,000.00
ADD: IPV6 SITE LICENSE	Optional feature which enables IPv6 connectivity at remote sites. Each option ordered provides an IPv6 license for one (1) Remote Site of any type (e.g. A25 IV&D Sites, Dynamic Dual Mode/X2-TDMA Sites, and HPD sites). Example: If a system has eighteen (18) A25 IV&D Sites that require IPv6 connectivity, the order should include a quantity of eighteen (18) IPv6 Site Licenses. If an additional two (2) sites of any type are being added to the system, a quantity of two (2) IPv6 Site Licenses should appear on the upgrade order. Note: If the system consists of one (1) simulcast system (one prime) and four (4) simulcast sub-sites, then four (4) IPv6 licenses must be ordered.	CA01418AA	877	\$15,000.00
700/800 Mixed Site				
Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MIXED SITE OPERATION	This feature enables ASTRO 25 systems with both 700 and 800 frequencies to better utilize 700 RF channels when radio talk groups contain 800-only radios and 700/800-capable radios. It distributes talk paths across 700 and 800 MHz channels thus lowering channel congestion and reducing system busies.	CA01395AA	877	\$15,000.00
Configuration Features				
System Management				
Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
Network Management Client				
Description	Full Description	Nomenclature	APC	Price
ASTRO 7.17 CLIENT	-	T8363	877	\$850.00
Z2 MINI WORKSTATION 258G 8G NON RET	Note: Due to its small form factor, the workstation computer does not contain a built-in DVD drive. Please make sure to order at least one USB External DVD Drive for each location for use in upgrades and replacing hard drives	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini computer	DSF2B56AA	708	\$172.00
Network Management				
Description	Full Description	Nomenclature	APC	Price
ADD: ZONEWATCH GRID & CTRL	-	UA00141AA	877	\$25,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license	UA00150AA	877	\$15,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Order one per system. External interface to support integrated subscriber management which provides the ability to share subscriber provisioning data between the Provisioning Manager and other applications including CAD, Fleet Management, and Asset Management. Genesis, MCM, and PremierOne are the selected partners to provide subscriber management solutions.	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
UEM				
Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map & Segment View license Order one per zone	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ATIA				
Description	Full Description	Nomenclature	APC	Price
ADD: FLEXIBLE ATIA	Order one per system.	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	-	ZA00103AA	285	\$3,000.00
CADI				
Description	Full Description	Nomenclature	APC	Price
ADD: CADI SOFTWARE OPTION	Order one per system.	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00104AA	285	\$12,000.00
Email Alarm Notifications & Northbound Interface				
Description	Full Description	Nomenclature	APC	Price
ADD: EMAIL ALARM NOTIFICATIONS	Order one per zone.	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	Order one per zone.	UA00139AA	877	\$15,000.00
Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	Encryption	CA01750AA	425	\$6,500.00
Encryption				
GGM 8000 Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
SMART-X Licenses				
Description	Full Description	Nomenclature	APC	Price
SMARTX 3600 SYSTEM LICENSE	This license gives the ability to use a SmartX Migration with your ASTRO 25 zone. NOTE: SmartX 3600 SITE LICENSE and 500 RADIO USER LICENSES are required with this, as well as ASTRO 25 FDMA TRUNKING OPERATION or P25 PHASE 2 TDMA TRUNKING OPERATION ZONE LICENSE	CA01403AA	877	\$10,000.00
SMARTX 3600 SITE LICENSE	This license is required when the SmartX 3600 System License is ordered. One license is required per Simulcast Subsystem and/or IR site. This option licenses the customer to add a 3600 site to their ASTRO 25 zone. Note: IV&D Site license is NOT required.	CA01404AA	877	\$0.00
Anti-Virus				
Anti-Virus				
Step 10: Anti Malware				
Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux based devices against viruses, spyware and other software born threats. This is a license for all client/devices. Order one per Windows/Linux client/device managed by the server except for Consoles/AIS and MOSCAD NFM devices that DO NOT embed McAfee.	CA02193AA	877	\$165.00
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.	T7885	708	\$165.00
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
1.2 TB HARD DRIVE	Replaced DLN6970A	DLN6942	454	\$1,750.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
CADI OVERVIEW AND USER'S MANUAL	This CD contains a document that includes a CADI description. It is intended to be used as pre-sales material for the customer and may be given to a CAD vendor to generate a quote.	DLN6523	454	\$17.50
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
FRU: DL380-GX 1.2TB 6G SAS 10K5FF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
FLEXIBLE ATIA OVERVIEW CD	This CD contains a document that includes a Flexible ATIA description. It is intended to be used as pre-sales material for the customer who is planning to upgrade/migrate and may be given to a vendor to generate a quote.	DLN6649	591	\$5.00
FRU: DL380 G9 900GB DISK WD2	-	DLN7009	877	\$26,166.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00
CABLE_DATA.MINI-SAS TO MINI-SAS HD, LENGTH 1M	G8/G9 to Dot Hill 4524 cable	CKN6967	877	\$130.00
FRU: DOTHILL 4524 RAID IO CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00

FRU: JBOD MODULE 4124	Used only for Dot Hill 4124 (High Capacity UNC)	DLN6979	877	\$876.00
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**ASTRO 25 Trunking
L-Core Non-Redundant / L-Core Redundant**

Configuration

ORDER THE MAIN MODEL

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE TRUNKED L CORE	-	SQM01SUM0274	425	\$0.00

CHOOSE NON-REDUNDANT OR REDUNDANT FOR A NEW CORE OR CHOOSE EXPANSION

Both options are required for a Non-Redundant L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: L1 NON REDUNDANT SW	-	CA02881AC	425	\$131,000.00
ADD: L1 NON REDUNDANT HW	-	CA03113AB	425	\$84,950.00

Both options are required for a Redundant L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: L2 REDUNDANT SW	-	CA02882AC	425	\$231,000.00
ADD: L2 REDUNDANT HW	-	CA03112AB	425	\$103,575.00

This option is required to add options to an existing L-Core

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION OFF L CORE CAPABILITIES - FEATURE	-	CA02648AD	425	\$2,000.00

SELECT RACK OR CABINET FOR A NEW CORE

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

SELECT OPTIONAL SYSTEM LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER M1	-	CA02834AC	877	\$20,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
ADD: RADIO AUTHENTICATION	-	CA02472AE	877	\$11,300.00
ADD: INTERSYSTEM DATA - CONNECTED CEN	-	UA00163AA	877	\$20,000.00
ADD: INTERFERENCE LOCATOR UNC SYSTEM LICENSE	-	UA00521AA	877	\$0.00

SmartConnect

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	-	UA00421AA	877	\$49,000.00

Location Features

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE ENH: GESELECT	-	UA00482AA UA00486AA	877 877	\$3,000.00 \$40,000.00

SITE LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 FDMA SITE LICENSE	-	UA00153AA	877	\$17,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	-	UA00159AA	877	\$12,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	-	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	-	UA00162AA	877	\$2,000.00
ADD: CLASSIC DATA-P25 TRNK SITE	-	UA00407AA	595	\$9,840.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00
ADD: 700/800 MIXED SITE OPERATION	-	CA01395AA	877	\$15,000.00

CAPACITY LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	-	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	-	UA00223AA	226	\$20,000.00
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	-	UA00156AA	877	\$5,000.00
ADD: 500 RADIO USER LICENSES	-	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	-	UA00664AA	877	\$1,000.00
ADD: RADIO AUTH 500 USER LIC	-	UA00165AA	877	\$5,000.00
ADD: 50 TALK GROUP TEXT LICENSES	-	UA00245AA	877	\$3,000.00
ADD: MCC7500/MCC7100 CONSOLE GROUP TEXT LICENSES	-	UA00235AA	877	\$250.00

User Login Alias Update

Description	Full Description	Nomenclature	APC	Price
ADD: USER LOGIN ALIAS UPDATE	-	UA00533AA	591	\$5,000.00
ADD: 500 RADIO ALIAS UPDATE LICENSES	-	UA00236AA	877	\$5,000.00

OPTIONAL SECURITY

Description	Full Description	Nomenclature	APC	Price
ADD: SECURITY BUNDLE	-	CA01741AG	425	\$20,000.00

HIGH AVAILABILITY

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY SYSTEM	-	CA02837AC	877	\$20,000.00
ADD: HA ATR SOFTWARE	-	CA02649AA	222	\$33,000.00

OPTIONAL NETWORK MANAGEMENT APPLICATIONS

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	-	UA00136AA	877	\$20,000.00
ADD: PROVISIONING MANAGER	-	UA00147AA	877	\$5,000.00
ADD: PROVISIONING MANAGER INTERFACE	-	UA00135AA	877	\$28,000.00
ENH: PMI TECHNICAL ASSISTANCE, 20 HOURS	-	ZA01164AA	285	\$5,000.00
ADD: DYNAMIC REPORTS	Includes 1 license for Affiliation User Reports	UA00150AA	877	\$15,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: UNIFIED EVENT MANAGER (UEM)	-	UA00146AA	877	\$20,000.00
ADD: FLEXIBLE ATIA	-	UA00138AA	877	\$20,000.00
ENH: TECHNICAL ASSISTANCE, TEN HOURS	-	ZA00103AA	285	\$3,000.00
ADD: CADI SOFTWARE OPTION	-	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	-	ZA00104AA	285	\$12,000.00
ADD: EMAIL ALARM NOTIFICATIONS	-	UA00137AA	877	\$5,000.00
ADD: NORTHBOUND INTERFACE	-	UA00139AA	877	\$15,000.00
ADD: UEM ENHANCED NAVIGATION	Includes Microwave Map and Segment View	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports	UA00141AA	877	\$25,000.00

Network Management Client

Description	Full Description	Nomenclature	APC	Price
ASTRO 7.18 CLIENT	-	T8538	877	\$850.00
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSC 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Order Anti Malware

Description	Full Description	Nomenclature	APC	Price
ADD: ANTI-MALWARE DEF UPDATE LIC	-	CA02193AA	877	\$165.00

**ASTRO 25 Outdoor Location Solution
GPS Hardware**

Description	Full Description	Nomenclature	APC	Price
SPKR MIC NON-SUBMSBL,GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7660) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00

Step 1:

Order a Cellocator Olympic for ASTRO GPS Dashmount Installation Kit (one kit is required per mobile radio):

Description	Full Description	Nomenclature	APC	Price
ASTRO CELLOCATOR OLYMPIC DM GPS KIT	-	HKCN4001B	222	\$495.00

OR

Order a Cellocator Olympic for ASTRO GPS Roofmount Installation Kit (one kit is required per mobile radio):

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR ASTRO EXT GPS KIT	-	HKLN4474	222	\$575.00
CELLOCATOR EXTERNAL MOUNT GPS ANT	This item is for the Cellocator External Antenna only and is to be ordered to convert an existing Dashmount installation to a Roofmount installation.	HKAN4001	222	\$150.00

Step 2:

Description	Full Description	Nomenclature	APC	Price
CELLOCATOR PROGRAMMING KIT	Recommended to order 1 programming kit per 20 Cellocator Hardware models ordered.	HK1613B	222	\$45.00

ASTRO 25 Outdoor Location Solution

Application Programming Interfaces (APIs) for Unified Network Services (UNS)

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 LOCATION HPD MDT SDK	-	DVN1422B	222	\$50.00

**ASTRO®
Digital Interface Unit (DIU) 3000 Refurbished**

Models

Description	Full Description	Nomenclature	APC	Price
DIU3000 REFURBISHED	-	HKUN4101	643	\$5,000.00

Accessories

Cables

Description	Full Description	Nomenclature	APC	Price
ASTRO BATTERY REVERT CABLE	-	FKN4095A	454	\$68.50
ADAPTOR BOX	For remote DIU link to the RNC3000 for ASTRO Systems. If the DIU3000 uses the 'W' cable, this MUST be replaced with this kit.	FLN5462	454	\$115.00

Power Supply

Rack Mounting

Description	Full Description	Nomenclature	APC	Price
RACK 7.5" OPEN	-	THN1013	454	\$495.00

Software

Description	Full Description	Nomenclature	APC	Price
DIU Configuration Service Software	DIU 3000 CSS is certified to operate only on Windows 2000 OS and Windows XP OS. It is compatible with DIU 3000 host version DIUSR 5.24 or higher.	DLN6570	371	\$25.00

Handset

Manual(s)

Modem (Wireline Options)

Description	Full Description	Nomenclature	APC	Price
FRU ASTRO MODEM	When ordered with T5365, T5569, T5367, and T5770	TLN3265	454	\$2,500.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
CONSOLE WIRELINE BOARD	-	FLN6518	454	\$413.00

**ASTRO® Digital Interface Unit (DIU)
Crypto Module (CM)
DIU CM FLASHport®
Universal Crypto Module (UCM) Upgrades**

Software

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	-	CA00147AA	443	\$50.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP XL ENCRYPTION KIT	-	CA00146AB	509	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AB	509	\$750.00
ADD: ADP ENCRYPTION SOFTWARE	-	CA00274AA	595	\$300.00
ADD: AES ENCRYPTION KIT	Requires DIU Host Software Release 6.15 or later (2Q02 or later).	CA00182AD	547	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AB	509	\$750.00
ADD: DVI XL ENCRYPTION KIT	-	CA00145AB	509	\$750.00

ASTRO® DIU ENCRYPTION Refurbished

Description	Full Description	Nomenclature	APC	Price
DIU3000 Encryption	-	HKUN4102	643	\$2,000.00

**ASTRO®
Digital Interface Unit (DIU)
FLASHport® Aftermarket Upgrades**

Description	Full Description	Nomenclature	APC	Price
ASTRO DIU TRUNK SOFTWARE UPGRADE	For conventional customers wanting to upgrade to trunked software, this model is required.	F2047	524	\$700.00
ASTRO DIU CONVENTIONAL S W UPGRADE	-	F2046	509	\$700.00

**ASTRO 25 Conventional
7.18 K Core**

Configuration

Choose the Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00

add Redundancy if required

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

Choose the Main Model and option for Expanding an existing A7.18 K Core

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION 7.18	-	CA03201AB	425	\$0.00

Add Multiple Hub Site System

Description	Full Description	Nomenclature	APC	Price
ADD: MULTI-HUB SYSTEM	-	CA08240AA	877	\$9,000.00

Order OPTIONAL UEM Fault Management and/or Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AC	425	\$20,000.00

Description	Full Description	Nomenclature	APC	Price
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE ENHANCED NAVIGATION	-	UA00240AA	877	\$45,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AG	405	\$75,450.00

Link Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Data Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

Choose Rack or Cabinet

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

ACCESSORIES / FRUS

Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FRU: DL380 G9 LC 600 GB DISK	-	DLN6977	877	\$14,586.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

ASTRO 25 Conventional 2019.2 K-Core

Configuration

Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	-	SQM01SUM0237	405	\$24,950.00

Add Redundancy

Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

Choose this Main Model for an Expansion to an existing K-Core

Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION	-	CA03201AC	425	\$0.00

Add Multiple Hub Site System

Description	Full Description	Nomenclature	APC	Price
ADD: MULTI-HUB SYSTEM	-	CA08240AA	877	\$9,000.00

Add UEM Fault Management and / or Integrated Data

Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AE	425	\$20,000.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AH	405	\$75,450.00

Link Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER	-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER	-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Data Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall

Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch

Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

Rack or Cabinet (required)

Description	Full Description	Nomenclature	APC	Price
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ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

ASTRO 25 Conventional Release 2020.1 K-Core

Configuration
Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX345 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.00
Add Redundancy				
Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	Choose CA02259AA in addition to SQM01SUM0237A for a redundant core. This will generate the following additional equipment: the redundant GCP 8000 Site Controller chassis with the "Site Controller 2" module, the redundant SRX345 Hub Router, the redundant Aruba 2930-24 Core LAN switch with 2 DAC cables, and all associated software.	CA02259AA	425	\$20,000.00

Choose this Main Model for an Expansion to an existing K-Core				
Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION	Expansion for ASTRO 2020.1 System Release	CA03201AC	425	\$0.00

Add Multiple Hub Site System				
Description	Full Description	Nomenclature	APC	Price
ADD: MULT-HUB SYSTEM	-	CA08240AA	877	\$9,000.00

Add UEM Fault Management and / or Integrated Data				
Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER	-	CA02258AE	425	\$20,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AJ	405	\$75,450.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

Link Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER	-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER	-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00

Data Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00

Firewall				
Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00

Backhaul Switch				
Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00

Rack or Cabinet (required)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00

Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

ASTRO 25 Conventional Release 2021.1 K-Core

Configuration
Choose this Main Model for a new K-Core

Description	Full Description	Nomenclature	APC	Price
SINGLE ZONE CONV NON-RED CORE	This will generate: one GCP 8000 Site Controller chassis with the "Site Controller 1" module, one SRX345 Hub Router, one Aruba 2930-24 Core LAN switch, the Configuration Manager software application, and all associated software.	SQM01SUM0237	405	\$24,950.00
Add Redundancy				
Description	Full Description	Nomenclature	APC	Price
ADD: Redundancy	-	CA02259AA	425	\$20,000.00

Choose this Main Model for an Expansion to an existing K-Core				
Description	Full Description	Nomenclature	APC	Price
K Core Upgrade or Expansion	-	SQM01SUM0250	405	\$0.00
ADD: K-CORE EXPANSION	Expansion for ASTRO 2021.1 System Release	CA03201AC	425	\$0.00

Add Multiple Hub Site System				
Description	Full Description	Nomenclature	APC	Price
ADD: MULT-HUB SYSTEM	-	CA08240AA	877	\$9,000.00

Add UEM Fault Management and / or Integrated Data				
Description	Full Description	Nomenclature	APC	Price
ADD: APPLICATION SERVER ESXI 7	-	CA02258AF	425	\$20,000.00
ADD: CONVENTIONAL INTEGRATED DATA	-	CA01740AJ	405	\$75,450.00
ADD: UEM LITE SESSION	-	UA00247AA	877	\$25,000.00
ADD: UEM LITE MICROWAVE MAP AND SEGMENT VIEW	-	UA00241AA	877	\$12,000.00
ADD: UEM LITE EMAIL NOTIFICATION	-	UA00256AA	877	\$5,000.00

Link Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION, SRX ROUTER	-	CA03587AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION, SRX ROUTER	-	CA03588AA	147	\$500.00
ADD: ENCRYPTION (7.12 OR LATER)	-	CA02087AA	147	\$1,500.00

Description	Full Description	Nomenclature	APC	Price
ADD: COMMON CRITERIA	-	CA02134AA	147	\$500.00
Data Encryption				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA ENCRYPTION	-	CA01749AA	425	\$7,300.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00
Terminal Server				
Description	Full Description	Nomenclature	APC	Price
ADD: TERMINAL SERVER	-	CA01750AA	425	\$6,500.00
Firewall				
Description	Full Description	Nomenclature	APC	Price
ADD: Fortinet Firewall Appliance	-	CA02635AA	425	\$3,300.00
Backhaul Switch				
Description	Full Description	Nomenclature	APC	Price
ADD: BACKHAUL SWITCH	-	CA01896AB	425	\$2,250.00
Rack or Cabinet (required)				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA01663AB	183	\$495.00
ADD: CABINET	-	CA01664AB	183	\$3,000.00
Accessories / FRUs				
Description	Full Description	Nomenclature	APC	Price
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
FRU: POWER SUPPLY	-	DLN6781	112	\$2,200.00
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
IP PACKET CAPTURE EXPANSION	-	T8303	877	\$0.00

**ASTRO 25 Release 2020.HS
 ASTRO 25 MASTER SITE
 New Orders and Expansions**

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE		SQM01SUM0323	877	\$0.00
ADD: A2020.HS	This option must be ordered for ASTRO 2020.HS System Release	UA00744AA	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 license each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03515AB	877	\$280,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03516AB	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2020.1 systems	CA03517AC	877	\$0.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE

Operational Licenses, Trunking				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00
Operational Licenses, Conventional				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.00

Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00156AA	877	\$5,000.00

DSR Notification

Description	Full Description	Nomenclature	APC	Price
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). SLC systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS

User Licenses				
Description	Full Description	Nomenclature	APC	Price

ADD:500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00

OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES
System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard.	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AF) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
ADD:RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST-BASED CSMS (A2020.1)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AD	877	\$85,000.00
ADD: HOST BASED CSMS DEVICE LICENSES	Required when "Host-Based CSMS" (CA03584AD) is ordered. Must order (1) for each Windows device in system.	UA00726AA	877	\$200.00

Location Services

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE ENH: GESELECT	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA UA00486AA	877 877	\$3,000.00 \$40,000.00

Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed.	UA00700AA	877	\$10,000.00
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.00

SmartConnect

Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE.FORTITOKEN PACK	-	DDN1933	708	\$577.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$314.00

OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES

Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00

Security

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/ Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

High Availability

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD:CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.00

System Management: Fault Management

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.00

SAP CRYSTAL REPORTS 2016	-	DDN3135	708	\$930.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.00
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

Order the Client Workstation

Description	Full Description	Nomenclature	APC	Price
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
ZZ G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)

STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)

Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	Can be ordered on any zone (up to six zones max). NOTE: You must order DSR System Notification (CA01499AB) on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For software redundancy also order REDUNDANCY, CA03512AB. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports.	CA03520AB	877	\$280,000.00
ADD: DSR ADD-ON ZONE	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 48-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03519AB	877	\$460,000.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPTIONAL LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GSM gateways, site controllers.	CA02637AF	877	\$30,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
ADD: HOST-BASED CSMS (A2020.1)	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AD	877	\$85,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)

DL380 G10 Server:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	-	T8750	877	\$0.00

4525/4125 Direct Attached Storage:

Description	Full Description	Nomenclature	APC	Price
FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA, CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M	For 4524 and 4525 DAS models	CKN6975	877	\$130.00

Transport:

Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00

SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00

ASTRO 25 Release 2020.1
ASTRO 25 MASTER SITE (Replacement for L-Core and M-Core / SRC 7500)
New Orders and Expansions

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE	-	SQM01SUM0323	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, CEN Server, 16-port Terminal Server*, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 licence each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03515AB	877	\$280,000.00
ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-Port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system * Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03516AB	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2020.1 systems	CA03517AC	877	\$0.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE

Operational Licenses, Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site.	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00

Operational Licenses, Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.00

Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00156AA	877	\$5,000.00

DSR Notification

Description	Full Description	Nomenclature	APC	Price
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS

User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00

OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AF) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
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ADD:RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00

Location Services

Description	Full Description	Nomenclature	APC	Price
ADD : LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00
ENH: GEOSELECT	MISSION CRITICAL GEOSELECT. Order one per system. Provides the capability for a subscriber radio to take actions based on movement into or out of a Geo Fence. Moves the intelligence and control of Geo Fence inside/outside status based commands from the Mapping Application to the radio to enable actions in real time. The radio takes actions when a boundary is crossed, rather than awaiting commands from the mapping application. Increases the safety and productivity of field personnel by providing immediate and hands free automated talkgroup selection and other radio actions when crossing into or out of a defined incident area. Requires CommandCentral Locate or 3rd party mapping application and IMW with Presence, Location, and GeoFence. APX Radio requires Mission Critical GeoFence and GPS. Order one per system.	UA00486AA	877	\$40,000.00

Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed	UA00700AA	877	\$10,000.00
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.00

Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE: FORTITOKEN PACK	-	DDN1933	708	\$577.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$314.00

OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES
Dynamic Transcoding

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00

Security

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
QNAP QUAD CORE BAY DRIVE WITH 4 64MB HDD	Can be used in place of backing up files to DVD. Useful on systems that require regular backup and offsite storage of BAR data.	DSTS453D4GUSNAS	708	\$2,917.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/ Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

High Availability

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.00

System Management: Fault Management

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOUND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.00
SAP CRYSTAL REPORTS 2016	-	DDN3135	708	\$930.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.00
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

Order the Client Workstation

Description	Full Description	Nomenclature	APC	Price
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	-	T8742	708	\$165.00

ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)

STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)

Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	DSR System Notification (CA01499AB) must be ordered on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
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ADD: DSR ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UNC, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup For software redundancy also order REDUNDANCY, CA03512AB. *Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03520AB	877	\$280,000.00
ADD: DSR ADD-ON ZONE	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GDG (Trunking), GGSN, Border Router, 16-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. *Order CA03721AA to expand 16-port SLC 8000 Terminal Server to 32 or 48 ports	CA03519AB	877	\$460,000.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPTIONAL LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AB	877	\$50,000.00
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AF	877	\$30,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 1 to expand 16-port SLC8000 Terminal Server to 32 port Terminal Server. Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)

DL380 G10 Server:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	-	T8750	877	\$0.00

4525/4125 Direct Attached Storage:

Description	Full Description	Nomenclature	APC	Price
FRE: DAS 4525	HC UNC	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	-	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M'	For 4524 and 4525 DAS models	CKN6975	877	\$130.00

Transport:

Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
48 PORT TERMINAL SERVER	-	CLN8489	147	\$8,000.00
SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00

ASTRO 25 Release 2021.1

ASTRO 25 MASTER SITE (Simplified Core - Replacement for L-Core and M-Core/SRC 7500)

New Orders and Expansions

STEP 1: ORDER THE MASTER SITE MAIN MODEL (REQUIRED)

IN OMAR (not in COP) USE PTO MODEL 'ASTROMASTERSITE'

Description	Full Description	Nomenclature	APC	Price
ASTRO MASTER SITE	-	SQM01SUM0323	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: NEW PRIMARY ZONE CORE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 licence each: Zone Controller, UNC, Provisioning Manager, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup. For Zone Controller redundancy also order REDUNDANCY CA03512AB in step 3. For ATR or Data redundancy, order REDUNDANCY and HIGH AVAILABILITY option * Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03515AC	877	\$280,000.00

ADD: ADD ON ZONE	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Backhaul Switches, Zone Controller license. Includes 1 each: PDG, GDG (Trunking), GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-Port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall, UEM (+ Email Notifications), Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. Requires 1 CA01416AG System Statistics Server to be ordered per system * Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03516AC	877	\$380,000.00
ADD: CORE EXPANSION	Choose this configuration option to add features or capacity licenses to existing ASTRO release 2021.1 systems	CA03517AD	877	\$0.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Options include mounting hardware for all standard core components

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPERATIONAL AND CAPACITY OPTIONS PER ZONE

Operational Licenses, Trunking

Description	Full Description	Nomenclature	APC	Price
ADD: P25 FDMA TRUNKING OPERATION SITE	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site. .	UA00153AB	877	\$30,000.00
ADD: P25 PHASE 2 TDMA TRKNG OP SITE LIC	Device Licenses for UNC not included. Order the appropriate number of CA01316AA based on the number of managed objects at the site. .	UA00159AB	877	\$30,000.00
ADD: PHASE 2 DYNAMIC TG ASGNMT SITE LIC	-	UA00160AA	877	\$18,000.00
ADD: ENHANCED DATA-P25 TRNK SITE	-	UA00408AA	595	\$4,160.00
ADD: P25 PHASE 2 TDMA SW BASE RADIO LIC	Order 1 for every TDMA Base Radio in the Zone	UA00161AA	877	\$3,000.00
ADD: PHASE 2 DYNAMIC CH BASE RADIO LIC	Order 1 for every Base Radio in the Zone that has the option for Dynamic Channel Assignment	UA00162AA	877	\$2,000.00

Operational Licenses, Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: 8 RF CHAN CONV DATA	Order 1 for every eight (8) digital conventional channels in the Zone for Conventional Only systems.	UA00712AA	877	\$20,000.00

Console Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500 CONSOLE LICENSES (QTY 5)	Order 1 for every 5 MCC 7500/MCC 7500E operator positions in the zone. Device Licenses for UNC not included. Order the appropriate number of CA01316AA.	UA00156AA	877	\$5,000.00

DSR Notification

Description	Full Description	Nomenclature	APC	Price
ADD: DSR NOTIFICATION	Must be ordered when ordering DSR for the first time	CA01499AB	877	\$10,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADDL 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

TRAK 8835-3M or TRAK 9100 Models (MANDATORY, Choose 1)

Description	Full Description	Nomenclature	APC	Price
GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	Order one per Zone on Primary Core and 1 for Backup (DSR) Zone 1. See 'Network Products Time and Frequency PCAT' page for further information or clarification and Accessories. Note: This model can NOT be shared between Master Site and Co-located Prime Site.	DSTRAK88353M	906	\$14,788.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC		DSTRAK91008E	906	\$39,075.00

STEP 6: ORDER SYSTEM LEVEL CAPACITY OPTIONS

User Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 500 RADIO USER LICENSES	Provides license for 500 trunked radio users that are "home" to this radio system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00152AA	877	\$7,500.00
ADD: 500 VISITING RADIO USER LICENSES	Provides a license for 500 trunked radio users that are "home" to another radio system. These are meant to be radios that are not daily users of the system. Order up to 300 of a total of UA00152AA and UA00664AA PER ZONE and up to 500 of a total of UA00152AA and UA00664AA PER MULTIZONE SYSTEM	UA00664AA	877	\$1,000.00

OPTIONAL STEP 7: CHOOSE SYSTEM LEVEL OPTIONAL FEATURES

System Management: Provisioning and Configuration (System Level)

Description	Full Description	Nomenclature	APC	Price
ADD: PROVISIONING MANAGER	Quantity 1 license is included standard	UA00147AA	877	\$5,000.00
ADD: UNIFIED NETWORK CONFIGURATOR (UNC)	The UNC application can manage up to 5,000 devices in a system. If the system exceeds this limit, the High Capacity UNC (CA02637AG) must be implemented. Quantity 1 UNC UA00136AA license is included standard	UA00136AA	877	\$20,000.00
ADD: UNC ADDTL DEVICE LIC (QTY 10)	VMWare Smart Assurance Network Configuration Manager Device Licenses are required by the UNC for all objects in the ASTRO system. An object is any logical component of the system that is managed, such as a server, base radio, console operator position or router. Device Licenses are included where required quantities are known. For areas of the system that require variable quantities of Device Licenses such as RF or console sites, this option is required. Quantity needed can be calculated through the use of the UNC Device License Calculator (See Ordering Guide for link).	CA01316AA	877	\$1,500.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPMs, GGM gateways, site controllers.	CA02637AG	877	\$30,000.00

UNC Device License Calculator

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00

Radio Authentication

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: RADIO AUTH 500 USER LIC	Order based on the number of authentication radios in the system. One option per 500 radio users. Requires CA02472AF.	UA00165AA	877	\$5,000.00

Host-Based CSMS

Description	Full Description	Nomenclature	APC	Price
ADD: HOST BASED CSMS DEVICE LICENSES	Required when "Host-Based CSMS" (CA03584AE) is ordered. Must order (1) for each Windows device in system.	UA00726AA	877	\$200.00
ADD: HOST-BASED CSMS	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AE	877	\$85,000.00

Location Services

Location on Voice and Mission Critical GeoSelect

Description	Full Description	Nomenclature	APC	Price
ADD: LOCATION ON PTT 500 USER LICENSE	Includes Location on PTT and Location on RX. Location on RX requires TDMA.	UA00482AA	877	\$3,000.00
ENH: GEOSELECT		UA00486AA	877	\$40,000.00

Group Services

Description	Full Description	Nomenclature	APC	Price
ADD: GROUP SERVICES	Includes: 500 RADIO ALIAS GROUP DOWNLOAD LICENSES (UA00236), 50 TALKGROUP TEXT LICENSES (UA00245), and 10 CONSOLE GROUP TEXT LICENSES (UA00235). Order additional bundles as needed	UA00700AA	877	\$10,000.00
ADD: USER LOGIN ALIAS UPDATE	Order only once per Zone with UA00700AA Group Services to enable radio aliases to be updated upon user login	UA00533AA	591	\$5,000.00

Conventional Talkgroups

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS CORE	This license allows a digital conventional channel to be logically partitioned into talkgroups.	CA02681AA	877	\$20,000.00
ADD: CONVENTIONAL TALKGROUPS VIA ISSI/CSSI	Allows an ASTRO 25 conventional digital system to interoperate with third party digital consoles and base stations through the conv TG and CSSI interfaces	UA00223AA	226	\$20,000.00

Personnel Accountability

Description	Full Description	Nomenclature	APC	Price
ADD: PERSONNEL ACCOUNTABILITY	Important Note: Additional items are required when ordering Personnel Accountability. Please visit APX Personnel Accountability price page.	UA00421AA	877	\$49,000.00

Site Selectable Trunking Alerts

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERTS TRUNKING LICENSE	-	CA02413AA	877	\$20,000.00

Two-Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE FORTITOKEN PACK	-	DDN1933	708	\$577.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	-	DDN1881	708	\$314.00

OPTIONAL STEP 8: CHOOSE ZONE LEVEL OPTIONAL FEATURES AND LICENSES

Dynamic Transcoding

Both options are required.

Description	Full Description	Nomenclature	APC	Price
ADD: TRANSCODED SIMULTANEOUS CALLS (QTY 5)	-	UA00222AA	877	\$10,000.00
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AC	877	\$50,000.00

Security

Description	Full Description	Nomenclature	APC	Price
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
QNAP QUAD CORE BAY DRIVE WITH 4 64MB HDD	Can be used in place of backup up files to DVD. Useful on systems that require regular backup and offsite storage of BAR data.	DSTS453D4GUSNAS	708	\$2,917.00
ADD: ANTI-MALWARE DEF UPDATE LIC	Provides protection to Windows/Linux devices against viruses, spyware and other software born threats. Order one per Windows/ Linux client/device managed by the server except for Consoles	CA02193AB	877	\$165.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	Can be used for A2021.1	T8742	708	\$165.00

High Availability

Description	Full Description	Nomenclature	APC	Price
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00

System Management: Provisioning and Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: CHANNEL PARTITIONING	-	UA00134AA	877	\$50,000.00
ADD: SECURITY PARTITIONING	-	UA00143AA	877	\$20,000.00
ADD: DYNAMIC FREQUENCY BLOCKING	-	UA00148AA	877	\$90,000.00
ADD: DYNAMIC SHARED SERVICES ALGORITHM CAPABILITY	-	UA00140AA	877	\$7,500.00
ADD: PROVISIONING MANAGER INTERFACE	Includes 20 hours technical assistance.	UA00135AA	877	\$28,000.00

System Management: Fault Management

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED EVENT MANAGER (UEM)	Quantity 1 license is included standard.	UA00146AA	877	\$20,000.00
ADD: UEM ENHANCED NAVIGATION	Includes MICROWAVE MAP VIEW (UA00226) NOTE: Requires SDM 3000 Remote Terminal Units at the Master and RF Sites in order to view Digital I/O, Analog Inputs and Metering information in the UEM.	UA00225AA	877	\$50,000.00
ADD: UEM SNMP ELEMENT MANAGEMENT TOOLKIT (QTY 10)	-	UA00227AA	877	\$20,000.00
ADD: NORTHBOND INTERFACE	Requires ZA00104AA for Technical Assistance	UA00139AA	877	\$15,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00

System Management: Performance and Accounting

Description	Full Description	Nomenclature	APC	Price
ADD: RADIO CONTROL MANAGER	-	UA00149AA	877	\$15,000.00
ADD: DYNAMIC REPORTS	Includes Affiliation User Reports license (UA00151). Order up to 5 per Zone	UA00150AA	877	\$15,000.00
ADD: ZONEWATCH GRID & CTRL	Includes Zone Historical Reports license (UA00144). Order up to 10 per Zone	UA00141AA	877	\$25,000.00
ADD: FLEXIBLE ATIA	Includes 10 hours technical assistance	UA00138AA	877	\$20,000.00
ADD: CADI SOFTWARE OPTION	Requires ZA00104AA for Technical Assistance	UA00142AA	877	\$45,000.00
ENH: TECHNICAL ASSISTANCE, FORTY HRS	Required for UA00142AA and UA00139AA (quantity 1 each)	ZA00104AA	285	\$12,000.00
CRYSTAL REPORTS 2016	-	T8828	874	\$994.00

Order the Client Workstation

Description	Full Description	Nomenclature	APC	Price
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 computer with Windows 10 Enterprise LTSB 2019 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and recovery disk(s). Does NOT include a DVD drive. Can be used for Network Management and/or Radio Authentication.	TT3903A	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 G4 Mini workstation	DSF2B56AA	708	\$172.00
ASTRO 2020.1 NM SW CLIENT	Must order one (1) per workstation. A2021.1 and A2020.1. This option is not needed for stand alone Radio Authentication clients	T8751	877	\$850.00
ASTRO 25 RADIO AUTHENTICATION	-	T8598	877	\$5,000.00
MCAFFEE FOR WINDOWS CLIENT, A2019.2	Can be used for A2021.1	T8742	708	\$165.00

ORDERING DYNAMIC SYSTEM RESILIENCE (DSR)

STEP 1: ORDER THE DSR MAIN MODEL (REQUIRED FOR DSR)

Description	Full Description	Nomenclature	APC	Price
DYNAMIC SYSTEM RESILIENCE	DSR System Notification (CA01499AB) must be ordered on the Primary Core when ordering DSR for the first time.	SQM01SUM0324	877	\$0.00

STEP 2: CHOOSE 1 CONFIGURATION OPTION (REQUIRED)

Description	Full Description	Nomenclature	APC	Price
ADD: DSR ZONE CORE A2021.1	Includes 2 each: Core Servers, Core LAN Ethernet Switches, Edge Routers, Interzone Edge Routers, Backhaul Switches. Includes 1 each: PDG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, 16-port Terminal Server, ISGW, RNI/DMZ Firewall, ISSI 8000 Firewall. Includes 1 each of the following licenses: Zone Controller, UEM, Provisioning Manager, UEM (with Email Alarm Notifications), Event Logging (Syslog), Windows Supplemental Transparent Configuration, Baseline Backup For software redundancy also order REDUNDANCY, CA03512AB. *Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03520AC	877	\$280,000.00
ADD: DSR ADD-ON ZONE A2021.1	Includes 2 each: Core Servers, LAN Switches and cables, Edge Routers, Interzone Edge Routers, Backhaul Switches, Data Switches, Firewalls, Zone Controller license; 1 each: MultiZone Operational License, PDG, GGSN, Border Router, 16-port Terminal Server, UEM with Email Alarm Notifications, Event Logging (Syslog), Windows Supplemental Trans Config, Baseline Backup. REDUNDANCY is standard. *Order Qty 2 CA03721AA to expand 16-port SLC 8000 Terminal Server to 48 ports	CA03519AC	877	\$460,000.00

STEP 3: CHOOSE SOFTWARE REDUNDANCY (OPTIONAL FOR DSR CORE IN SINGLE ZONE SYSTEMS)

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANCY	Enables redundant Zone Controller on single zone systems. Mandatory to be ordered on Zone 1 for MultiZone systems. Not applicable for Add-On Zones (zones 2-7) which always ship with redundant Zone Controller software	CA03512AB	877	\$180,000.00

STEP 4: SELECT RACK OR CABINET (MUST CHOOSE 1)

Description	Full Description	Nomenclature	APC	Price
ADD: RACK	-	CA03507AA	877	\$0.00
ADD: CABINET	-	CA03508AA	877	\$3,000.00

STEP 5: ORDER OPTIONAL LICENSES

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL	Order per Zone. Includes Conv PDG.	CA01207AA	877	\$15,000.00
ADD: RADIO AUTHENTICATION	Ordered per SYSTEM.	CA02472AF	877	\$11,300.00
ADD: HIGH AVAILABILITY DATA	Includes HA SW and redundant PDG, GGG, GGSN, Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA03511AB	877	\$98,000.00
ADD: HA ATR SOFTWARE	Includes HA SW and redundant Border Router, DMZ/LAN Switch, CEN LAN Switch, RNI/DMZ Firewall. Requires Redundancy option CA03512AB.	CA02649AC	877	\$53,000.00
ADD: WINDOW SUPPLEMENTAL FULL CONFIG	Replaces standard Supplemental Trans Configuration	CA02836AE	877	\$0.00
ADD: BACKUP & RECOVERY (BAR)	Replaces standard Baseline Backup	CA01724AJ	877	\$15,000.00
ADD: SYS STATISTICS SVR AND HISTORICAL REP	Includes up to 10 licenses for System Historical reports Note: One per system Mandatory for MultiZone systems.	CA01416AH	877	\$60,000.00
ADD: DYNAMIC TRANSCODING	Ships with 2 DL380 Gen10 Servers	CA03586AC	877	\$50,000.00
ADD: HIGH CAPACITY UNC	This option includes the G10 Server, JBOD, and Software needed to support the UNC object handling capacity increase from 5000 managed devices to 15,000. A managed object includes base radios, comparators, switches, routers, core servers, VPM's, GGM gateways, site controllers.	CA02637AG	877	\$30,000.00
ADD: HOST-BASED CSMS	This option includes the ASTRO 25 Security Server Hardware and Software needed to support "Host-Based CSMS"	CA03584AE	877	\$85,000.00

Added Capacity: LAN Switch, Edge Routers or Terminal Server

Description	Full Description	Nomenclature	APC	Price
ADD: ADD'L 48 PORTS CORE LAN	Order when more than 96 Core LAN Switch ports are needed. Adds an additional 48 Ports LAN Switch. Order up to two.	CA03510AA	877	\$5,000.00
ADD: EDGE ROUTER PAIR	Order when additional Edge Router Capacity is needed. Non DSR: Up to 3 can be ordered for a total of 4 Pairs (8 routers). DSR systems: Up to 6 additional Edge Router pairs can be ordered for expanded capacity - for a total of 8 pairs (16 routers).	CA03509AA	877	\$41,400.00
ADD: SLC8000 TS 16 PORT EXPANSION MODULE	Order quantity of 2 to expand 16-port SLC8000 Terminal Server to 48 port Terminal Server. Not compatible with CA03517AD Core Expansion	CA03721AA	877	\$3,861.00

Encryption and FIPS

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION	Includes encryption for all routers in the Core. Order 1 per Zone	CA03513AB	877	\$6,000.00
ADD: COMMON CRITERIA	Includes Common Criteria (FIPS) for all encrypted routers in the Core. Order 1 per Zone. Requires Encryption option.	CA03514AB	877	\$2,000.00

FIELD REPLACEABLE UNITS AND EQUIPMENT (FREs and FRUs)

DL380 G10 Server:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G10 VHC 256GH DAS 2	Core Server (Primary and DSR)	DLN8008	877	\$36,000.00
FRE: DL380 G10 HC 128GH DAS4X1	Enablement (CEN) / Security Server	DLN8009	877	\$28,000.00
FRE: DL380 G10 HC 128GH DAS 1X	High Capacity UNC Server	DLN8010	877	\$27,000.00
FRE: DL380 G10 MC 64GH 1200-12	Transcoder Server	DLN8011	877	\$22,000.00
FRE: DL380 G10 LC 1200-1200	Standalone ZCP or Remote DC	DLN8012	877	\$18,000.00
FRU: DL380 G10 POWER SUPPLY	-	DLN8006	877	\$600.00
FRU: DL380 G10 FAN	-	DLN8007	877	\$300.00
1.2 TB HARD DRIVE	For G9 and G10 servers	DLN6942	454	\$1,750.00
DL 380 G9 ETHERNET CARD	For G9 and G10 Servers	DLN7018	61	\$550.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10 Servers	DLN6971	454	\$228.00
ESXI 7.0 FND 2 CPU LICENSE	-	T8821	877	\$1,800.00

4525/4125 Direct Attached Storage:

Description	Full Description	Nomenclature	APC	Price
FRE: DAS 4525	-	DLN8018	877	\$23,000.00
FRE: DAS 4125 JBOD MODULE	HC UNC	DLN8019	877	\$10,250.00
FRU: DAS 4525 CHASSIS ONLY	-	DLN8013	877	\$1,500.00
FRU: DAS 4525 POWER SUPPLY	-	DLN8014	877	\$800.00
FRU: DAS 4525 CONTROLLER MODUL	-	DLN8015	877	\$7,000.00
FRU: DAS 4125 JBOD MODULE	-	DLN8016	877	\$1,300.00
FRU: 600GB HARD DRIVE, DAS 452	-	DLN8017	877	\$500.00
CABLE, DATA,CABLE, MINI-SAS HD TO MINI-SAS HD CABLE, AWG30, LENGTH 1M'	For 4524 and 4525 DAS models	CKN6975	877	\$130.00

Transport:

Description	Full Description	Nomenclature	APC	Price
2930F 48-PORT SWITCH	-	CLN1869	147	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
48 PORT TERMINAL SERVER	-	CLN8489	147	\$8,000.00
SLC8000 16 PORT TERMINAL SERVER	-	CLN9053	147	\$8,441.00
SLC8000 TS 16 PORT EXPANSION MODULE	-	CLN9048	147	\$3,861.00
SPARE CABINET ASTRO 7.9 & BEYOND	-	CVN6565	280	\$5,600.00

Motorola MCC 7500 Dispatch Console

-- Dispatch Positions, Dispatch API and Product Software --

Models
Dispatch Console PC
VPM

Description	Full Description	Nomenclature	APC	Price
MOTOROLA VOICE PROCESSOR MODULE	Provides one Voice Processor Module (VPM) unit for an MCC 7500 console. Requires appropriate software license option (CA01642AA or CA00288AB) and AC line cord option (CA00140AA, AB, AC or AF). When ordered for a secure-capable MCC 7500 console, also requires the CA0147AF Secure Operation License option and at least one encryption algorithm.	B1933	443	\$11,920.00

Software Items

Description	Full Description	Nomenclature	APC	Price
MCC 7500 ASTRO 25 SOFTWARE	Provides a CD ROM containing the application software for the MCC 7500 dispatch console and MCC 7500 Archiving Interface Server. Does NOT include the licenses required to use the software. Licenses can be purchased by using - CA01642AAB or CA00288AB with the B1933	B1905	443	\$250.00

Options

Software License

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7500 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux fios, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1933.	CA01642AA	443	\$15,840.00

Upgrade Software Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1905.	CA00899AA	443	\$3,000.00
ADD: MCC 7500 AIS SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7500 AIS Software. One is required for each AIS being upgraded. Order as a sub-item to the B1905.	CA00900AA	443	\$2,700.00

Trunking & Advanced Conventional Operation

Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartX via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,600.00

ADD: MCC 7500 /MCC 7100 ADV CONV'L OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,960.00
Advanced SECURENET Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SECURENET OPERATION	Required when the MCC 7500 dispatch position is used to control Advanced SECURENET resources (Conventional channels using an Advanced SECURENET CIU device). Order as a sub-item to the B1933.	CA01972AA	443	\$50,000.00
Secure Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 SECURE OPERATION	Order when secure capabilities are required in a VPM-based dispatch console or AIS. Order as a sub-item to the B1933.	CA00147AF	443	\$4,290.00
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,422.00
Secure Algorithms				
Description	Full Description	Nomenclature	APC	Price
ADD: DES-OFB ALGORITHM	Provides factory programming for the DES-OFB encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00143AC	443	\$990.00
ADD: DES-XL ALGORITHM	Provides factory programming for the DES-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.	CA00144AC	443	\$990.00
ADD: DVI-XL ALGORITHM	Provides factory programming for the DVI-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00145AC	443	\$990.00
ADD: DVP-XL ALGORITHM	Provides factory programming for the DVP-XL encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server or VPM FRU.	CA00146AC	443	\$990.00
ADD: AES ALGORITHM	Provides factory programming for the AES encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00182AB	443	\$990.00
ADD: ADP ALGORITHM	Provides factory programming for the ADP encryption algorithm. Order as a sub-item to the appropriate MGE, MCC 7500 Dispatch Console, MCC 7500 Archiving Interface Server, VPM FRU or Secure Card FRU model.	CA00245AA	443	\$990.00
Inbound Event Display GUI				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100	CA01645AA	443	\$6,930.00
Enhanced Console Telephony				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 Enhanced Console Telephony Operation License	Required when the MCC 7500 dispatch position is used to control enhanced console telephony phone lines. Order as a sub-item to the B1933.	CA02073AA	443	\$1,200.00
Power Cords				
Description	Full Description	Nomenclature	APC	Price
ADD: AC LINE CORD, NORTH AMERICAN	Adds one AC line cord with a North American plug.	CA00140AA	443	\$0.00
ADD: AC LINE CORD, EUROPEAN	Adds one AC line cord with a continental European plug (Schuko plug).	CA00140AB	597	\$0.00
ADD: AC LINE CORD, UK	Adds one AC line cord with a United Kingdom plug.	CA00140AC	597	\$0.00
ADD: AC LINE CORD, AUSTRALIA	Adds one AC line cord with an Australian plug.	CA00140AF	277	\$0.00
ADD: AC LINE CORD, BRAZIL	Adds one AC line cord with a Brazilian plug.	CA00140AG	277	\$0.00
API Technical Support				
Description	Full Description	Nomenclature	APC	Price
FIELD ADD MCC 7500 SDK TECHNICAL SUPPORT	Provides one hour of technical support for the SDK from the factory. May be ordered multiple times if more than one hour of support is required. May be ordered to add additional technical support for software developers who are already using the SDK. Note that this is a billable item only (BB item) and must be ordered by itself on its own order.	QLN3437	443	\$1,000.00
Accessories				
Enhanced Console Telephony Media Gateways				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 Console Telephony Media Gateway O/S for Upgrade or Recovery	Provides a CD-ROM containing a copy of the operating system for the enhanced console telephony media gateways. This should be ordered for use in upgrade or disaster recovery scenarios.	BVN1014A	877	\$500.00
Field-Add Software Licenses				
Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,422.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$4,290.00
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,600.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,960.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,930.00
MCC 7500 BASIC CONSOLE FUNCTIONALITY FIELD-ADD LICENSE	-	BLN1316	443	\$14,400.00
MCC 7500 AIS SOFTWARE FIELD-ADD LICENSE	-	BLN1317	443	\$18,072.00
MCC 7500 Enhanced Console Telephony Operation Field-Add License	-	BLN1320A	443	\$1,200.00
Trackball				
Description	Full Description	Nomenclature	APC	Price
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is ruggedized and 'RF-CERTIFIED' by Consoles Engineering. Order as a main line item.	DSCDN6171B	708	\$431.00
Programming Cables				
Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGE	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
Field Replacement Units				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 VOICE PROCESSOR MODULE FRU	-	B1934	443	\$11,830.00
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
SHIELD,VPM SHIELD KIT	Provides one complete shield kit to replace the encryption engine shields on a Voice Processor Unit (VPM). Instructions for replacing the shields are also provided. When ordering, divide the quantity needed into multiple lines so that no line contains more than 9 BLN1324 in.s. For example, if 30 kits are needed, create 3 lines of 9 each and 1 line of 3.	BLN1324	443	\$0.00
Algorithm Upgrades/Field-Adds				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 SECURE VPM ALGORITHM UPGRADE FOR KVL 4000	-	T8063	443	\$250.00

**ASTRO-TAC®
ASTRO-TAC 3000™ COMPARATOR
FLASHport® UPGRADES**

Models				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE UPGRADE DISK ONLY	-	T6341	729	\$0.00
SW SWNLD CAP FOR ATAC3K	Upgrades ASTRO-TAC 3000 to ASTRO-TAC 3000 with software download capability.	T6340	729	\$0.00
Options				
Software Download Capable				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE UPGRADE	Order with T6341 only. Backplane IDs required. Backplane IDs must be entered in the same quantity as the option quantity.	CA00007AA	729	\$1,800.00

Description		Full Description	Nomenclature	APC	Price
ENH: SOFTWARE DOWNLOAD CAP W/WL & ICS		Order with T6340 only	U454AA	729	\$150.00
ENH: SOFTWARE DOWNLOAD CAP IC		Order with T6340 only.	U455AA	729	\$400.00
Input/Output Modules					
Description		Full Description	Nomenclature	APC	Price
ENH: 2 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X223AH	729	\$1,000.00
ENH: 4 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X224AH	729	\$2,000.00
ENH: 6 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X225AH	729	\$3,000.00
ENH: 8 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X226AH	729	\$4,000.00
ENH: 10 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X227AH	729	\$5,000.00
ENH: 12 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X228AH	729	\$6,000.00
ENH: 14 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X229AF	729	\$7,000.00
ENH: 16 I/O SW DNLD CAP UPGR		Software Download Capable Input/Output port option. For Astro-TAC to ASTRO-TAC 3000 upgrades, order with T5730 and U445. For ASTRO-TAC 3000 upgrades, order with T6340 and U454 or U455.	X230AE	729	\$8,000.00

Accessories					
FRU Kits					
Description		Full Description	Nomenclature	APC	Price
FRU ASTRO TAC CONTROL PANEL		-	CLN1318	509	\$374.00
FRU ASTRO TAC LEFT PANEL		-	CLN1319	509	\$295.00
FRU ASTRO TAC RIGHT PANEL		-	CLN1320	509	\$200.00

**ASTRO-TAC® RECEIVER
CONVENTIONAL - FLASHport® AFTERMARKET UPGRADES**

Models					
Description		Full Description	Nomenclature	APC	Price
CONVENTIONAL ASTRO TAC RECEIVER UPGRADE		-	T5756	729	\$650.00
Options					
Station Capability					
Description		Full Description	Nomenclature	APC	Price
ENH: SOFTWARE DOWNLOAD CAPABLE		Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has been ordered previously.	U222	729	\$0.00
ENH: NON-SFTWRE DOWNLOAD CPBLE		Requires the station or receiver to operate on 3.0 or later system software or that option X980 (software downloading) has not been ordered previously.	U223	729	\$0.00
Control Board					
Description		Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE		Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00
Conventional Upgrades					
Description		Full Description	Nomenclature	APC	Price
ENH: SPECTRA TAC CONVENTIONAL		Requires that station be equipped with either a 4-wire or 8-wire wireline. Standard when ordered with X777 or X888. NOT COMPATIBLE with X84.	X269	509	\$310.00
ENH: MULTI PL COMPATIBILITY		Provides two modes of operations; user selects one or the other with the RSS:	X286	509	\$460.00
ENH: REMOTE RSS COMPATIBILITY		-	X288	509	\$200.00
ENH: CONV ASTRO CAI UPGRADE		For Conventional Analog (X597) migrating to Conventional ASTRO CAI. **REQUIREMENTS --EPIC SCB(X791 or X793) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797) built prior to 9/15/96. OR --Wireline board in use built after 9/15/96 (U438) **To utilize Ethernet capability, Ethernet Service Kit (REX4430) is required.	X806 G	729	\$1,782.00
ENH: 6809 TRUNKING UPGRADE		REQUIRED 1 Cable (X244, X337, X338 or X339)	X997	195	\$220.00
ENH: SW DWNLD W/ETHRNT CAPBLTY		REQUIRES:n--EPIC SCB (X791, X792, or X793)n--MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797)built prior to 9/15/96. OR n--Wireline board in use built after 9/15/96 (X438)n--In additionn--One Cable options is required (X841, X844, X145, X146 or X147) n--Requires IR Site Termination Hardware (X843) PER SITE.	X980	729	\$400.00
Trunking Cables					
Description		Full Description	Nomenclature	APC	Price
ADD: CABLE TRUNKING 25'		-	X244	195	\$50.00
Trunking Upgrades					
Description		Full Description	Nomenclature	APC	Price
ENH: CURRENT SFTW VERSION		Provides latest version of conventional software, with no feature upgrades.	X795	195	\$200.00
ENH: S26809 ASTR CAI TRK UPGRADE		REQUIRES: --EPIC SCB (X791) --MODIFIED 4 wire wireline (X216) or MODIFIED 8 wire wireline (X797)built prior to 9/15/96. OR Wireline board in use built after 9/15/96 (X438) --CHOOSE ONE CABLE(X244, X337, X338, X339) --X889 may be required.	X897 D	195	\$1,961.00
Wireline Options					
Description		Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE		Conventional, 6809 Trunked, and IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00

**ASTRO-TAC® 9600
Comparator
For Project 25 Systems**

Models					
Description		Full Description	Nomenclature	APC	Price
A-TAC 9600 UPGRADE		Comparator Upgrade CD. Must add CA00093AA option for number of upgrades required.	T6592	729	\$0.00
Options					
Description		Full Description	Nomenclature	APC	Price
ADD: ASTRO-TAC 9600 SOFTWARE UPGRADE		Order with T6592. Quantity should be equal to number of comparators being upgraded	CA00093AA	729	\$400.00

Digital Evidence Management Solution

Description		Full Description	Nomenclature	APC	Price
CC VAULT STORE		CPQ: SSV00S00329A	HKVN4447A	616	\$360.00
CC VAULT MANAGE		CPQ: SSV00S00330A	HKVN4448A	616	\$0.00
CC VAULT JUDICIAL		CPQ: SSV00S00331A	HKVN4449A	616	\$240.00
CC VAULT-DEMSAAS-3 YR SUBSCRIPTION		CPQ: SSV00S00665A	HKVN4470A	616	\$780.00
CC VAULT-DEMSAAS 5 YR SUBSCRIPTION		CPQ: SSV00S00665A	HKVN4475A	600	\$820.00
Description		Full Description	Nomenclature	APC	Price
CC VAULT-3 YR UNLIMITED STORAGE SUBSCRIPTION		CPQ: SSV00S00334A	HKVN4472A	610	\$420.00
CC VAULT-5 YR UNLIMITED STORAGE SUBSCRIPTION		CPQ: SSV00S00334A	HKVN4477A	600	\$420.00

Buildings and Shelters

Description	Nomenclature	Price
MSB, 12' X 16' CONCRETE BLDG, INCLS UPS & GENERATOR	TT1000	\$143,929.60
MSB, 12' X 10' CONCRETE BLDG, INCLS UPS & GENERATOR	TT1004	\$126,859.20

CirrusCentral Management

Description	Full Description	Nomenclature	APC	Price
CirrusCentral Management Basic Software Subscription	Annual software subscription for CirrusCentral Basic System Management	SSV02S01931A	360	\$35,000.00
Description ADD: Monitoring for 1 RF site	Full Description Monitoring for 1 additional RF site	Nomenclature SSV01S01932A	APC 360	Price \$1,000.00
Description ADD: Cirrus access for 1 user	Full Description Access to Cirrus for 1 additional user	Nomenclature SSV01S01933A	APC 360	Price \$1,000.00
Description ADD: 1 Year historical data storage	Full Description Add 1 additional year of historical data storage	Nomenclature SSV01S01934A	APC 360	Price \$5,000.00
Description ADD: Call monitoring and affiliations	Full Description Feature option for CirrusCentral call monitoring and affiliations.	Nomenclature SSV01S01935A	APC 360	Price \$15,000.00
Description ADD: System performance reporting	Full Description Feature option for CirrusCentral system performance reporting	Nomenclature SSV01S01936A	APC 360	Price \$10,000.00
Description ADD: Alarm aggregations and filtering	Full Description Feature option for CirrusCentral alarm aggregations and filtering	Nomenclature SSV01S01937A	APC 360	Price \$10,000.00
Description ADD: Site load view	Full Description Feature option for CirrusCentral site load view	Nomenclature SSV01S01938A	APC 360	Price \$10,000.00
Description ADD: Email and SMS fault notifications	Full Description Feature option for CirrusCentral email and SMS fault notifications	Nomenclature SSV01S01939A	APC 360	Price \$7,000.00
Description CirrusCentral management advanced software subscription	Full Description Annual software subscription for CirrusCentral advanced system management	Nomenclature SSV01S01940A	APC 360	Price \$75,000.00
Description ADD: Monitoring for 1 RF site	Full Description Monitoring for 1 additional RF site	Nomenclature SSV01S01932A	APC 360	Price \$1,000.00
Description ADD: 1 Year historical data storage	Full Description Add 1 additional year of historical data storage	Nomenclature SSV01S01934A	APC 360	Price \$5,000.00

FIELD REPLACEMENT UNITS (FRU):

Description	Full Description	Nomenclature	APC	Price
Cirrus management enablement package - Cirrus subscription required	Field replacement unit of Cirrus hardware enablement package	DSQUOTE 18304139	811	\$3,000.00
FRU: Cirrus management modem w/ LTE SIM card - Cirrus subscription required	Field replacement unit of Cirrus management modem and LTE SIM	DSQUOTE 18304149	811	\$1,163.00
FRU: Cirrus management node PC - Cirrus subscription required	Field replacement unit of Cirrus management node PC	DSQUOTE 18304160	811	\$1,707.00

Certificate Management Solution CMS

Description	Full Description	Nomenclature	APC	Price
ADD: 100 CMS LICENSES	-	CA03138AA	212	\$6,481.00
ADD: 50,000 CMS LICENSES	-	CA03140AA	212	\$525,000.00
ADD: 1,000 CMS LICENSES	-	CA03139AA	212	\$58,333.00
ADD: GEO REDUNDANCY	-	CA03136AA	212	\$30,000.00
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	60	\$115.00
SLA-STANDARD SUPPORT PER UNIT AND YEAR	-	GMDN7168A	11	\$9,090.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	60	\$20.00
CERTIFICATE MANAGEMENT SOLUTION SOFTWARE	-	T8386	212	\$30,000.00
ADD: 1 CMS LICENSE	-	CA03137AA	212	\$72.00
CMS AFTER MARKET UPGRADES	-	T8387	212	\$0.00
EJBCA APPLIANCE SIZE MEDIUM VERSION 2.8 PRICE/UNIT EXCLUDING SUPPORT A	-	GMDN7167B	78	\$58,167.00
PKI APPLIANCE EXTERNAL BATTERY ADAPTER	-	GMDN9021A	78	\$222.00
EJBCA ENTERPRISE PKI APPLIANCE.	-	GMDN7167A	78	\$45,451.00
G10 SERVER HARDWARE	CMS HP DL380 G10 Server	SQM01SUM0331	704	\$19,000.00

CommandCentral Capabilities

Part Number	Description	Item Type	APC	Price
SSV00S01530A	Cloud Database Backup & Restore Subscription	Subscription Service	516	\$0
SSV00S01531A	CC Incident Record Subscription	Subscription Service	516	\$0
SSV00S01558A	Vault 250GB Store and Manage Trial Subscription	Subscription Service	616	\$0
SSV00S01693A	CommandCentral Jail Intake	Subscription Service	334	\$0
SSV00S01871A	CommandCentral Jail Activity	Subscription Service	334	\$0
SSV00S02007A	Pin Mapping	Subscription Service	258	\$0
SSV00S02008A	Insights Dashboard	Subscription Service	258	\$0
SSV00S01614A	Vault Block of Storage	Subscription Service	616	\$360/block/year
SSV00S00331A	CC Vault_Judicial	Subscription Service	616	\$240/user/year
SSV00S01450A	Learner Subscription	Subscription Service	217	\$0
SSV00S01448A	User Conference Advance Registration Only	Subscription Service	217	\$1000 Annually
SSV00S01449A	User Conference Advance Standard Attendance	Subscription Service	217	\$2,900 Annually
See List	One SSV Connector Subscription Per Connector	Subscription Service		See List
SSV00S02124A	CommandCentral Extension for CAD	Subscription Service	252	\$0

Click here for link to Connectors

Connector Part Number	Connector Description	Item Type	APC	Recurring Price
SSV00S01881A	Interface: OnBase Connector	Subscription Service	616	\$2,500
SSV00S01882A	Interface: Coban Connector	Subscription Service	616	\$2,500
SSV00S01883A	Interface: Motorola Vigilant	Subscription Service	616	-
SSV00S01885A	Interface: Axon Evidence	Subscription Service	616	\$2,500
SSV00S01307A	Interface: Motorola Solutions CC Vault Cad/RMS Correlation	Subscription Service	616	-
SSV00S02053A	INTERFACE: THIRD PARTY FOR VAULT	Subscription Service	616	\$6,500
SSV00S02207A	INTERFACE: NEW INTERFACE FOR VAULT	Subscription Service	616	\$2,500

CommandCentral Community

Configuration

Description	Full Description	Nomenclature	APC	Price
Subscription Service	CommandCentral Community Standard	SSV00S02400A	259	Annual p/User First 500 Users @ \$60 501+ @ \$24 Annual p/Agency \$2,400 CAPEX (One Time)
Subscription Service	Vault Block of Storage	SSV00S01614C	616	\$360/block/year
Service Software	LMS Onboarding	PSV00S01454A		\$0
Subscription Service	Learner Subscription	SSV00S01450B	253	\$0
Subscription Service	USERS CONFERENCE ADVANCE REGISTRATION ONLY	SSV00S01448B	208	\$1000 annually

Subscription Service	USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	SSV00S01449B	208	\$2,900 annually
CUSTOM FORMS	CUSTOM FORMS	SSV00S02528A	259	Based on population size - SEE CHART BELOW
CUSTOM FORMS ONBOARDING	CUSTOM FORMS ONBOARDING	PSV00S02529A OR PSV00S02672A	259	\$750

Pricing - Custom Forms (Based on Population)

Population Size	Add-On Price Monthly per Customer (Agency)
1,000,000+	\$1,700
500k to 999k	\$1,200
250k to 499k	\$600
100k to 249k	\$500
50k to 99k	\$300
0k to 49k	\$200

CommandCentral Aware Public Safety

Description	Full Description	Nomenclature	APC	Price
CCAware Premium Package	Location on PTT, Cadence Based P25 (Plus offer) + Video Streaming, and Voice Console Integration	SSV00S02386A		

Agency Price	
Named User 1-10	\$22,750 Agency Annual
Named User 11-15	\$1000 Per Named User Annually
Named User 16-25	\$755 Per Named User Annually
Named User 26+	\$640 Per Named User Annually
	\$545 Per Named User Annually

CommandCentral Call Handling

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL CALL HANDLING	CommandCentral Call Handling Subscription - standalone	SSV00S02795A	236	Configured Price
COMMANDCENTRAL CALL HANDLING	CommandCentral Call Handling Subscription - add-on	SSV00S02795A	236	Configured Price

Required Hardware

Description	Full Description	Nomenclature	APC	Price
CC CH Bronze Edge Appliance	CommandCentral Call Handling Bronze Edge Appliance (Backroom Equipment)	854231-CCEDGEBRONZE	363	9800
CC C Silver Edge Appliance	CommandCentral Call Handling Silver Edge Appliance (Backroom Equipment)	854231-CCEDGESILVER	363	20,000.00

Optional Hardware

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL HUB, W/CLIENT PC	CommandCentral Hub with Internal PC, AC line cord NA, Bracket mounting 2RU	B1956A CA03553AA, CA03547AA	754	5250. 13.00 30.00
COMMANDCENTRAL HUB, BASIC MODEL	CommandCentral Hub standalone audio unit, AC line cord NA, Bracket mounting 2RU	B1955A, CA03553AA, CA03547AA	754	2550. 13.00 30.00
POS, UPS	Positional UPS for workstation equipment	06200-00850	496	185
HEADSET JACKBOX	Headset Jackbox	B1913A	754	200
15' USB 1 to 4 port extender	USB Port Extender with 15' cable	65000-10177	496	60
MNTR FP WIDE SCRIN LED 22IN	22 inch FP Wide Screen LED Monitor	63000-221693	496	296.25
MNTR 24IN FP WIDE SCR LED	24 inch FP Wide Screen LED Monitor	63000-241692	496	476.25
Speaker Bar		63000-171920	469	26.25
Keyboard/Mouse Bundle		64021-10025	469	55
GENOKYPD 24 DTP	Genovation 24 Keypad DTP Keypad (telephone layout) - 6' USB cable	ECX100204	469	189
GENOKYPD 24 DTP	Genovation 24 Keypad Computer 10 key (keyboard)	ECX100204-1	469	189

Optional Services

Description	Full Description	Nomenclature	APC	Price
SECURITY MANAGEMENT SERVICE	Security Management Service for CCHUB with internal PC, includes AV/patch management	SSV00S02967A	227	

Systems Integration Services

Description	Full Description	Nomenclature	APC	Price
ECH PM	Emergency Call Handling Project Management		331	Calculated/ Custom
ECH SA	Emergency Call Handling Solution Architect		331	Calculated/ Custom
ECH FE	Emergency Call Handling Field Engineer - customer specific configuration		331	Calculated
ECH Network Design	Emergency Call Handling Network Design		331	Calculated/Custom
ECH Trainer	Emergency Call Handling on site trainer		331	Calculated
CC Cloud Suite Base - CPS	Cloud Provisioning Service		331	Calculated/Custom

Software Conference

Description	Full Description	Nomenclature	APC	Price
USERS CONFERENCE ADVANCE REGISTRATION ONLY	User Conference Registration Only (does not include travel)	SSV00S01448A- Non SMP	217	\$1000 Annually
USERS CONFERENCE ADVANCE STANDARD ATTENDANCE	Standard User Conference Registration (includes travel) filled in box.	SSV00S01449A- Non SMP	217	\$2900 Annually

Learning Experience Portal

Description	Full Description	Nomenclature	APC	Price
LEARNER LXP SUBSCRIPTION	LXP Subscription	SSV00S01450A- Non SMP	217	\$0
LxP Onboarding	LMS onboarding	PSV00S01454A	217	\$0

CommandCentral Analytics

Service Models & Licenses

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS BELOW 100K		SVC06SVC0611	138	\$0.00

Description	Full Description	Nomenclature	APC	Price
POP QTY 0-1K	-	SVC531AH	138	\$999.00
POP QTY 1001-5K	-	SVC532AH	138	\$2,599.00
POP QTY 5001-10K	-	SVC533AH	138	\$5,099.00
POP QTY 10001-25K	-	SVC534AH	138	\$6,399.00
POP QTY 25001-50K	-	SVC535AH	138	\$7,399.00
POP QTY 50001-75K	-	SVC536AH	138	\$8,399.00
POP QTY 75001-100K	-	SVC537AH	138	\$9,399.00
Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS ABOVE 100K	-	SVC06SVC0612	138	\$0.00
POP QTY 100001-125K	-	SVC538AH	138	\$10,599.00
POP QTY 125001-150K	-	SVC539AH	138	\$11,899.00
POP QTY 150001-200K	-	SVC540AH	138	\$13,299.00
POP QTY 200001-250K	-	SVC541AH	138	\$15,899.00
POP QTY 250001-300K	-	SVC542AH	138	\$16,599.00
POP QTY 300001-350K	-	SVC543AH	138	\$17,199.00
POP QTY 350001-400K	-	SVC544AH	138	\$17,399.00
POP QTY 400001-450K	-	SVC545AH	138	\$18,199.00
POP QTY 450001-500K	-	SVC546AH	138	\$18,799.00
POP QTY 500001-1M	-	SVC547AH	138	\$35.00
POP QTY ABOVE 1M	-	SVC548AH	138	\$30.00
Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS LIDS	-	SVC06SVC0613	138	\$0.00
ANNUAL SUB	-	SVC529AH	138	\$12.00
ONE TIME SETUP FEE	-	SVC530AH	138	\$799.00
Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL-ANALYTICS SET-UP FEE	-	SVC06SVC0614	138	\$0.00
ONE TIME SETUP FEE	-	SVC549AH	138	\$399.00

Motorola CommandCentral AXS Dispatch Console

Description	Full Description	Nomenclature	APC	Price
COMPUTER, DL160 G10	COMPUTER, DL160 G10 WITH POWER CORD. Provides one DL160 server for use in an AXS cluster. Includes a North American linecord and friction rail mounting kit. Does not include monitor, keyboard or mouse. A cluster requires a minimum of three servers.	TT4083A	708	\$6,000.00
COMPUTER, DL160 G10	COMPUTER, DL160 G10 WITH NO POWER CORD. DL160 server for non-North American orders. This item does NOT include the North American, or any, linecord. The linecord must be procured locally in the region. Because this is a dropship item there are no options available to order with the item. Linecord FRUs may ordered separately if desired.	TT4084A	708	\$6,000.00
8-PORT CONSOLE CAT5 KVM SWITCH 1U RM 19IN LCD RACKMOUNT	Provides one rack mounted, 8-port KVM switch with keyboard, touchpad and folding display. Requires one DSB078101USB1 server interface unit for each server connected to the KVM switch.	DSB07000819	708	\$1,630.00
TRIPP LITE 16 PORT RACK CONSOLE KVM S 19IN RACKMOUNT SWITCH	Provides one rack mounted, 16-port KVM switch with keyboard, touchpad and folding display. Requires one DSB078101USB1 server interface unit for each server connected to the KVM switch.	DSB07001619	708	\$2,027.00
USB SINGLE SRVR INTERFACE UNIT VIRTUAL MEDIA KVM SWITCH HD15 USB R,J4	Provides one server interface unit to enable one server to connect to a KVM switch. One required for each server connected to the KVM switch.	DSB078101USB1	708	\$103.00

Cluster Enablement Licenses

Description	Full Description	Nomenclature	APC	Price
LICENSE,AXS ASTRO 25 SYSTEM WI	One HKVN4728A is required for each ASTRO 25 system that is connected to an AXS console site. The production and non-production AXS clusters will share the same ASTRO System access license, i.e., only one HKVN4728A is required per pair of clusters at an AXS console site.	HKVN4728	504	\$2,500.00
LICENSE, AXS CLUSTER TEMPORARY STAGING LICENSE	One KHVN4828A is required for each cluster. This license enables the cluster to do the initial installation of software on the cluster. When the customer starts beneficial use of the console, this license will be replaced by the license that is generated by the SSV01S01669A.	HKVN4828	504	\$0.00

Dispatch Client Feature and Capacity Enablement Licenses

Description	Full Description	Nomenclature	APC	Price
AXS DISPATCH CLIENT LICENSE	One HKVN4729A is required per AXS dispatch client that will be accessing the cluster.	HKVN4729	504	\$7,900.00
Description	Full Description	Nomenclature	APC	Price
LICENSE,AXS TRUNKING SERVICES	One HKVN4730A is required per AXS dispatch client that will be monitoring trunking resources on one or more ASTRO 25 systems.	HKVN4730	504	\$6,600.00
LICENSE,AXS ADVANCED CONVENTION	One HKVN4731A is required per AXS dispatch client that will be monitoring ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels.	HKVN4731	504	\$3,960.00
LICENSE,AXS SECURE VOICE SERVICES	One HKVN4732A is required per AXS dispatch client that will be using voice encryption functionality on trunking and/or conventional resources.	HKVN4732	504	\$6,340.00
LICENSE,AXS SECURE OTEK SERVICE	One HKVN4739A is required per AXS dispatch client that will be using OTEK functionality on trunking and/or conventional resources.	HKVN4739	504	\$4,420.00
LICENSE,AXS CHANNEL BASED IRR	One HKVN4733A is required per AXS dispatch client that will be using Channel Based IRR functionality.	HKVN4733	504	\$3,200.00
LICENSE,AXS AMBE+2 VOCODER ROY	One HKVN4736A is required per AXS dispatch client that will be monitoring P25 trunking resources or P25 conventional resources on one or more ASTRO 25 systems.	HKVN4736	504	\$50.00
Description	Full Description	Nomenclature	APC	Price
LICENSE,AXS STANDARD LEVEL RADIO	Enables an AXS dispatch client to affiliate with up to 120 radio resources (trunked and/or conventional). Each AXS dispatch client requires a radio resource capacity license (HKVN4737A or HKVN4738A). The Standard Capacity License is to be purchased whenever the Trunking Services License is used on the client. Note: This is expected to be updated to 160 in the near future (2021). The update will be automatic and no additional licenses will be needed to support 160 radio resources.	HKVN4737	504	\$20,700.00
LICENSE,AXS VALUE LEVEL RADIO	Enables an AXS dispatch client to affiliate with up to 15 radio resources (conventional only). Each AXS dispatch client requires a radio resource capacity license (HKVN4737A or HKVN4738A). This license is reserved for lower capacity, conventional only type systems.	HKVN4738	504	\$3,850.00

Dispatch Client Hardware

Description	Full Description	Nomenclature	APC	Price
COMMANDCENTRAL HUB W/CLIENT PC	Provides one CommandCentral Hub with integrated PC workstation.	B1956	754	\$5,250.00
ADD: AC LINE CORD, NORTH AMERICA	Provides one North American AC line cord.	CA03553AA	754	\$13.00
ADD: CABLE, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides two cables which allow two B1952 speakers to be powered from the hub.	CA03548AA	754	\$75.00
ADD: FOUR CABLES, POWER 24VDC	These cables are used to connect B1952 speakers to the 24 VDC power ports on the hub. This option provides four cables which allow four B1952 speakers to be powered from the hub.	CA03583AA	754	\$150.00
ADD: BRACKET, MOUNTING 2RU	Mounting brackets for the CommandCentral Hub. Can be used to mount the hub in a 19" rack or on a flat surface.	CA03547AA	754	\$30.00
ADD: CABLE RETENTION BRACKET	Cable retention bracket and mounting screws for the CommandCentral Hub. This bracket is used to secure and strain relieve the various cables that connect to the rear of the hub.	CA03572AA	754	\$65.00
CERTIFIED KEYBOARD FOR RSD SERVERS AND WORKSTATIONS	Keyboard	L3225A	708	\$42.00
CERTIFIED OPTICAL WHEEL MOUSE FOR RSD SERVERS AND WORKSTATIONS	Mouse	L3226A	708	\$30.00
Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,557.00
TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00
Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1951	754	\$545.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00

Description	Full Description	Nomenclature	APC	Price
SPEAKER, DESKTOP, USB	The B1952 speaker is specifically designed for use with the AXS console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch positions's hub or PC. Each speaker has its own individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.	B1952	754	\$585.00
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00
Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
Description	Full Description	Nomenclature	APC	Price
PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	Provides one dual pedal footswitch.	DSTWIN6328A	708	\$317.00
Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6098	706	\$227.00
HDST MODULE BASE W/PTT, 25 FT CBL	Provides one headset base. Requires a headset top (RMN5150A or RMN5151A) to form a complete headset.	RLN6099A	706	\$261.00
ENCOREPRO HW540 HEADSET	Monaural, noise-cancelling headset with ear loop, neckband & over-the-head headband included.	DSPOLYHW540	708	\$134.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5150A	706	\$161.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Provides one headset top. Requires a headset base (RLN6098A or RLN6099A) to form a complete headset.	RMN5151A	706	\$168.00

Dispatch Client Spares and Field Replaceable Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
GR500 AC POWER CORD	Provides one North American AC line cord.	3082933N08	271	\$36.00
CABLE - MCD 5000 DESKSET TO LOGGER	Provides one cable with an RJ45 connector on one end and individual stripped and tinned wires on the other end. May be used with the three audio output ports, the Aux I/O port or the EPI port on the CommandCentral Hub.	FKN8696	202	\$40.00
FRU: POWER CABLE, 24VDC	Provides one cable for connecting a B1952 speaker to a 24 VDC power port on the CommandCentral Hub.	BKN2002	754	\$35.00
FRU: MOUNTING BRACKET KIT, PDH	Mounting kit for mounting the CommandCentral Hub in a 19" rack or to a flat surface. Includes two brackets and the screws required to attach them to the hub. Does not include any screws for attaching to the rack.	BLN1325	754	\$40.00
FRU: COVER, FRONT PDH	Front cover for the CommandCentral Hub	BHN1024	754	\$90.00
FRU: BRACKET, CABLE RETENTION	Cable retention bracket and mounting screws for the CommandCentral Hub. This bracket is used to secure and strain relieve the various cables that connect to the rear of the hub.	BHN6114	754	\$65.00
Description	Full Description	Nomenclature	APC	Price
FRU: MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$545.00
FRU: SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$585.00
FRU: USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one of the ends.	BKN2000	754	\$79.00
FRU: USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00
FRU: POWER SUPPLY WITH DC CORD	Power supply with DC cable for USB speaker. Does not include an AC line cord.	BPN1030	754	\$150.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
CABLE ASSY, 16 PIN CONNECTOR	Cable, CommandCentral Hub to Headset Jack Box (for B1913)	3071113H01	443	\$108.00
CABLE ASSY, EXTENDER	Cable, Extender, Headset Jack Box (for B1913)	3071114H01	443	\$97.50

Subscription Agreement

Description	Full Description	Nomenclature	APC	Price
LICENSE, ASTRO AXS CLUSTER	Each cluster requires a SSV01S01669A to be able to install and upgrade its software. This SSV will automatically generate an enablement license that must be installed on the AXS cluster. The AXS software cannot be installed without this license.	SSV01S01669A	823	\$0.00
LICENSE, ASTRO AXS SERVER	One SSV01S01900A is required for each AXS server that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01900A	823	\$0.00
ASTRO AXS CLIENT SOFTWARE SUPPORT AGREEMENT	One SSV01S01774A is required for each AXS client that is being ordered. It is NOT a license that needs to be installed on the AXS cluster.	SSV01S01774A	823	\$3,500.00

CAI Data Encryption Module

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 CONVENTIONAL DATA ENCRYPTION UNIT	-	T7618	137	\$750.00

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CDEM OPERATION	-	CA01535AA	137	\$6,500.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Description	Full Description	Nomenclature	APC	Price
RACK/CABINET MOUNTING TRAY	-	TKN9284	137	\$85.00
CABLE FOR RNC, DIU MSEG	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00

Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: CDEM SOFTWARE UPGRADE	-	CA01847AA	137	\$50.00

Description	Full Description	Nomenclature	APC	Price
CDEM ENCRYPTION/ CD SOFTWARE UPGRADE KIT	-	T7666	137	\$50.00
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: DES-OFB DATA ENCRYPTION KIT	-	CA00143AD	137	\$750.00

Public Safety and Private LTE

Description	Full Description	Nomenclature	APC	Price
FIREWALL FG-600E	-	TT3772	55	\$10,744.00
FIREWALL FG-1801F	-	TT4099A	55	\$42,575.00
10 GE SFP+ TRANSCEIVER MODULE, LONG	-	DDN2586	55	\$325.00
10 GE SFP+ TRANSCEIVER MODULE, SHORT RANGE	-	DDN2585	55	\$114.00
1 GE SFP SX TRANSCEIVER MODULE	-	DDN2584	55	\$51.00
1 GE SFP LX TRANSCEIVER MODULE	-	DDN2583	55	\$106.00
1 GE SFP RJ45 TRANSCEIVER MODULE	-	DDN2582	55	\$165.00

Critical Connect

Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)	Pricing Tiers (Price in USD per Month)
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Packages	Unique Connection - 2 Simul. Talk Paths - 10	Unique Connection - 5 Simul. Talk Paths - 25	Unique Connection - 20 Simul. Talk Paths - 50
Basic Voice Interop Package (includes LMR-BB and LMR-LMR)	\$4,500 / \$54,000	\$7,000 / \$84,000	\$8,500 / \$102,000
Advanced Voice Interop Package (Optimized RF utilization on ASTRO)	\$5,000	\$7,500	\$9,000
Option: Voice encryption (LMR-BB)	\$2,500	\$5,000	\$5,000
Option: Secure MPLS Backhaul	\$2,000	\$3,000	\$4,000

WAVE PTX

WAVE PTX SUBSCRIPTIONS			
SSV00S01898A	WAVE PTX		\$8 /month
SSV00S01899A	WAVE PTX DISPATCH		\$32 /month
SSV00S01499A	WAVE PTX SAFEGUARD		\$13 /month
SSV00S01500A	WAVE PTX SAFEGUARD DISPATCH		\$70 /month
SSV00S02209A	WAVE PTX SafeGuard Multi-Role		\$20 /month
SSV00S02210A	WAVE PTX SafeGuard Multi-Role Dispatch		\$325 /month
SSV00S01861A	Wave Video Streaming		\$14 /month
SSV00S01862A	Wave Dispatch Video Streaming		\$130 /month

CRYPTR Base hardware

Description	Full Description	Nomenclature	APC	Price
CRYPTR	WAVE CRYPTR	SQM01SUM0292	137	\$1,875.00
AC Line Cord, Australia	AC Line Cord, Australia	CA02063AA	137	\$0.00
AC Line Cord, UK	AC Line Cord, UK	CA02064AA	137	\$0.00
AC Line Cord, European	AC Line Cord, European	CA02065AA	137	\$0.00
AC Line Cord, North America	AC Line Cord, North America	CA02066AA	137	\$0.00

Add MCC7500E Software

Description	Full Description	Nomenclature	APC	Price
MCC7500 CRYPTR SOFTWARE CD UPGRADE	MCC7500 CRYPTR Software CD Upgrade	T8490	137	\$50.00

Required Secure Operation

Description	Full Description	Nomenclature	APC	Price
ADD: SECURE OPERATION	ADD: Secure Operation SW	CA02954AA	137	\$3,250.00

Encryption Support

Description	Full Description	Nomenclature	APC	Price
ADD: MCC7500E CRYPTR DES-OFB &ADP	ADD: MCC7500E CRYPTR AES 256, DES-OFB, ADP	CA03440AA	137	\$1,800.00

Optional Software: Over the Ethernet Rekeying

Description	Full Description	Nomenclature	APC	Price
ADD: OTEK	ADD: OTEK	CA02934AA	137	\$3,350.00

Cybersecurity Command Center Software

Description	Nomenclature	Size	APC	Price
Security Monitoring	SSV06S02740A	Small System (2-10 Positions):	859	\$25,000 per year
		Medium System (11-40 Positions):		\$37,000 per year
		Large System (41-80 Positions):		\$75,000 per year
		X-Large System (81-160 Positions):		\$125,000 per year
		Mega System (161-250 Positions):		\$185,000 per year
Vulnerability Detection	SSV06S02743A	Small System (2-10 Positions):	859	\$4,000 per year
		Medium System (11-40 Positions):		\$4,200 per year
		Large System (41-80 Positions):		\$4,500 per year
		X-Large System (81-160 Positions):		\$12,400 per year
		Mega System (161-250 Positions):		\$27,600 per year
Strategic Threat Intelligence	SSV06S02746A	All System Tiers:	859	\$60,000

ASTRO Managed Detection & Response

Description	Nomenclature	APC	Pricing
One Time Activation Fee	SSV00S02729A	859	\$1,000 Base Activation Fee
			\$2,500 Per AERSS Installation
Hardware ActiveEye Remote Security Sensor	SSV00S02755AA	859	\$4,800
ASTRO Managed Detection & Response	LSV01S02973A	859	Unit Price:
			Mastersite: \$13,750
			DSR Site: \$9,750
			CEN Network: \$9,750
			Console: \$995
			NM Client: \$995
			CEN Endpoint: \$215

DC POWER SYSTEMS, BATTERIES and GENERATORS

Description	Full Description	Nomenclature	APC	Price
DC POWER SYS, FP2 SYSTEM / REAR WIRE 600AMP MAX, 23 IN RM -48V 2 BATT	-	DS259723	207	\$9,181.00
FP2 SYSTEM, -48V, 168A MAX, 19IN., (4)REC POS, (6) BREAKER POS	-	DS264118	207	\$2,330.00
DC POWER SYS, FP2 600 AMP -48V 23IN RACK MT DUAL AC INPUT PER RECTIFIE	-	DS299199	207	\$10,579.00
DC POWER SYSTEM, FP2 23IN RACK MOUNTED 1344 AMP -48V DUAL AC INPUT	-	DS299235	207	\$17,907.00
FP2 SYSTEM / FRONT/REAR WIRE 333AMP MAX, LVBD ONLY -48V	-	DS305827	207	\$5,435.00

FP2 SYSTEM / FRONT/REAR WIRE 500AMP MAX, LVBD ONLY -48V 19IN 7RU	-	DS305831	207	\$5,972.00
FP2 DC/DC PRIMARY 48V/333, SEC 224V/224	-	DS315268	207	\$5,932.00
DC PWR SYS FP2 REAR WIRE 168AMP -48V 19IN DUAL AC INPUT (4) RECTIFIER	-	DS327061	207	\$4,615.00
DC POWER SYSTEM, 48V, 84X23X22 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPS2001	207	\$6,046.00
DC POWER SYSTEM, 48V, 84X19X18 RELAY RACK 4RU DCPS-200A LVLD	-	DSDCPSX200193	207	\$6,961.00
48V, 200A, 19IN. SYSTEM W/(3) BATT TRAYS TO ACCOM (2)JLG STRINGS 48V BT	-	DSDCPSX20019BC	207	\$7,803.00
48V, 200A DC POWER SYS, 84X23X22 RACK, 2 BATT TRAY, 2 BATT BRK	-	DSDCPSX2002S	207	\$6,797.00
48V, 200A DC POWER SYS, SEISMIC, 84X23X22 RACK, 3 BATT TRAY, 2 BATT BK RECTIFIER, 48V, 75AMP	-	DSDCPSX2003BS	207	\$8,031.00
800A, 48VDC POWER SYSTEM, 1200A LMDC, (9) 75A RECT POS, 800A BATT DISC	-	DSLHMF7548VZE1	207	\$1,560.00
	-	DSLHMF800BD	207	\$15,566.00

Batteries

Description	Full Description	Nomenclature	APC	Price
BATTERY,VRLA,48V,840AH,4X6,MSENDUR AT-15P	-	DS1810150	207	\$21,372.00
BAT.VRLA,48V STRG,800AH,GNB100G17,TAL (NON-LOI)	-	DS18135210	207	\$19,302.00
48V 62AH 12V62F BATT SET	-	DS0991055758	207	\$1,802.00
48V 190AH BATT SET # SBS190F	-	DS0991072458	207	\$4,032.00
48V 1360AH BATTERY SET DDM85-33	-	DS208874	207	\$32,708.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	207	\$37,067.00
48V 2000AH BATTERY SET #DDM125-33	-	DS222707	207	\$42,218.00
BATTERY 48V 850AH DDM85-21 BATT SET 4WX6H	-	DS222865	207	\$22,664.00
BATTERY, 48V 1000AH DDM100-21 BATT SET 3WX8H	-	DS222806	207	\$25,360.00
BATTERY, 48V 1300AH BATT SET# DDM100-27 3 WIDE X 8 HIGH	-	DS222708	207	\$31,277.00
48V 2000AH BATTERY SET #DDM125-33	-	DS222707	207	\$42,218.00
BATTERY, 48V 1600 AH SET #DDM100-33	-	DS222007	207	\$37,067.00

Inverters/Converters

Description	Full Description	Nomenclature	APC	Price
INVERTER, 1000 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS17254812060U	207	\$1,952.00
INVERTER, 250 VA, 48 VDC INPUT TO 120 VAC OUTPUT, 60 HZ, 1 RU	-	DS16524812060P	207	\$1,006.00
INVERTER, 1 KVA, 24VDCIN/120VACOUT 2RU RM 19/23 INCH	Inverter	DS298510	207	\$2,605.00
CONVERTER, 200-WATT, SINGLE OUTPUT 48 VDC INPUT TO 13 VDC OUTPUT	-	DS1720481315	207	\$943.00
CONVERTER, MOBILE, 24 VDC INPUT TO 12 VDC OUTPUT, 15 AMPS	-	DS1650241215	207	\$253.00
CONVERTER, 400W, 48VDC INPUT TO 13 VDC OUTPUT W/ PARALLELING OPTION	-	DS1720481330M3	207	\$1,548.00

Generators

Description	Full Description	Nomenclature	APC	Price
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, NO ENCL	-	DSSG035IDNG	329	\$22,850.00
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, ID 5.4 L, UPSIZE TO 40KW	-	DSSG035IDVP	207	\$23,272.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODNG	207	\$26,443.00
GENERATOR, 35KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG035ODVP	207	\$28,030.00
GENERATOR, 35KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SANG	207	\$30,223.00
GENERATOR, 35KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG035SAVP	207	\$30,223.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG050DNG	207	\$32,736.00
GENERATOR, 50KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG050DVP	207	\$32,766.00
GENERATOR, 50KW NAT GAS, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SANG	207	\$35,678.00
GENERATOR, 50KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG050SAVP	207	\$36,554.00
GENERATOR, 70KW NAT GAS, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070DNG	207	\$39,203.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG070DVP	207	\$39,204.00
GENERATOR, 70KW LP VAPOR, 120/240V 1-PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG070SAVP	207	\$43,229.00
80KW.LPV: INDOOR; 120/240VAC;1PH; 8.0L; LOW EMISSION; NO ENCL; UPSIZE	-	DSSG080DVP	207	\$39,804.00
GENERATOR, 80KW LP VAPOR, 120/240V 1-PH, OUTDOOR HOUSING	-	DSSG080DVP	207	\$39,575.00
GENERATOR, 100KW LP VAPOR, 120/240V 1PH, SOUND ATTENUATED HOUSING (OD)	-	DSSG100SAVP	207	\$45,450.00
130KW.LPV: OUTDOOR; 120/240VAC;1PH; 9.0L; LOW EMISSION; LV2 ENCL	-	DSSG130SAVP	207	\$64,278.00
GENERATOR, 25KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS25CN6DODDL	207	\$36,602.00
GENERATOR, 25KW NAT GAS, 120/240V SOUND ATTENUATED HOUSING	-	DS25CN6SANG	207	\$29,782.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, OUTDOOR HOUSING	-	DS35CN6DODDL	207	\$38,738.00
GENERATOR, 35KW DIESEL, 120/240V 1PH, SOUND ATTENUATED HOUSING	-	DS35CN6SADL	207	\$40,653.00
GENERATOR, 35KW NG, 120/208V 3PH, SA HOUSING	-	DS35CN6HSANG3PH	207	\$31,263.00
GENERATOR, 35 KW 1 PHASE OUTDOOR SOUND ATTENUATED HOUSING	-	DS35CN6SANG	207	\$48,450.00
GENERATOR, 50 KW 1 PHASE OUTDOOR	-	DS50CD60DDDL	207	\$66,880.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, OD HOUSING	-	DSS00GHDADDDL	207	\$43,615.00
GENERATOR, 50KW DIESEL, 120/240V 1PH, LV2 SOUND ATTENUATED HSG (OD)	-	DSS00GHDASADL	207	\$49,257.00
80KW DIESEL GENERATOR, 1PH, SOUND ATTN HOUSING	-	DS80DSFASADL	207	\$55,946.00
GENERATOR, 80KW DIESEL, 120/240 1PH, SOUND ATTENUATED HOUSING	-	DSC80D6CSADL	207	\$57,055.00

Public Safety LTE Device Manager 'DM'

Non-Redundant or Redundant Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD: 1K TO 5K CLIENT EXPANSION	-	CA03233AA	56	\$52,920.00
ADD: 5K TO 10K CLIENT EXPANSION	-	CA03234AA	56	\$47,460.00
ADD: 10K TO 25K CLIENT EXPANSION	-	CA03235AA	56	\$134,400.00
ADD: 25K TO 50K CLIENT EXPANSION	-	CA03236AA	56	\$158,340.00
ADD: 50K TO 100K CLIENT EXPANSION	-	CA03237AA	56	\$179,760.00
MSM-CLIENT LIC ADDS	-	T8058	56	\$0.00

Upgrade from MD Release 9 to 11:

Description	Full Description	Nomenclature	APC	Price
SOFTWARE,OMA DM SERVER	-	CVN7263	877	\$0.00

SPARES

OMA DM Server FRE:

Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC 600 GB DISK	ISSI/Dynamic Transcoder Server	DLN6976	877	\$20,725.00

Diameter Routing Agent (DRA)

Description	Full Description	Nomenclature	APC	Price
DRA HW/SW 500 MPS	-	TT2795	54	\$160,550.00
DRA HW/SW 1K MPS	-	TT2796	54	\$177,540.00
DRA HW/SW 2.5K MPS	-	TT2797	54	\$228,500.00
DRA HW/SW 5K MPS	-	TT2798	54	\$312,670.00
DRA HW/SW 10K MPS	-	TT2799	54	\$476,930.00
DRA HW/SW 25K MPS	-	TT2800	54	\$932,110.00
DRA HW/SW 50K MPS	-	TT2801	54	\$1,564,770.00
DRA HW/SW 100K MPS	-	TT2802	54	\$2,862,600.00

Existing System Capacity Expansion Guidelines

Description	Full Description	Nomenclature	APC	Price
DRA HW/SW FROM 500 TO 1K	-	TT2803	54	\$27,200.00
DRA HW/SW FROM 1K TO 2.5K	-	TT2804	54	\$66,250.00
DRA HW/SW FROM 2.5K TO 5K	-	TT2805	54	\$103,530.00
DRA HW/SW FROM 5K TO 10K	-	TT2806	54	\$197,110.00
DRA HW/SW FROM 10K TO 15K	-	TT2807	54	\$197,110.00
DRA HW/SW FROM 15K TO 25K	-	TT2808	54	\$311,580.00
DRA HW/SW FROM 25K TO 35K	-	TT2809	54	\$311,580.00
DRA HW/SW FROM 35K TO 50K	-	TT2817	54	\$459,310.00

	DRA HW/SW FROM 50K TO 75K	-	TT2818	54	\$713,820.00
	DRA HW/SW FROM 75K TO 100K	-	TT2819	54	\$713,820.00
Spares					
	Description	Full Description	Nomenclature	APC	Price
	PFM LOD	-	DDN1976	54	\$10,361.00
	CMXB3 EGEM2	-	DDN1977	54	\$9,380.00
	SCXB3	-	DDN1978	54	\$9,473.00
	GEP5-48GB	-	DDN1979	54	\$14,588.00
	GEP5-1200	-	DDN1980	54	\$27,771.00

DIGITAL VEHICULAR REPEATER 700MHz

Models					
	Description	Full Description	Nomenclature	APC	Price
	700MHZ DVR FIXED MOUNT TACTICAL APPLICATION B	- Indoor wall mounted case (AC power) - Outdoor enclosure option available - Standalone repeater (no mobile in use) - For Canadian use only	TT2061	571	\$11,028.00
	700MHZ DVR VEHICLE MOUNT CROSS-BAND APPLICATION A	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2042	571	\$10,741.00
	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION B	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range	TT2039	571	\$14,236.00
	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION A	- Vehicular Mount hardware - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequencies, and no 700 mobile frequencies in use	TT2038	571	\$14,248.00
	700MHZ DVR TRANSPORTABLE IN-BAND APPLICATION A	- Suitcase mounted (DC or AC power) - Used with a 700/800 remote mount mobile - DVR frequencies must be at least 3MHz below the mobile frequency range, and no 700 mobile frequencies in use - Mobile not included	TT2046	571	\$16,829.00
	700MHZ DVR SIDE-BY-SIDE CROSS-BAND APPLICATION B	- Vehicular Mount hardware - Used with a UHF or VHF remote mount mobile	TT2043	571	\$10,741.00
	700MHZ DVR SUITCASE IN-BAND APPLICATION B	-	TT2047	571	\$13,463.00
	700MHZ DVR VEHICLE MOUNT IN-BAND APPLICATION C	-	TT2040	571	\$13,389.00
	700MHZ DVR SUITCASE IN-BAND APPLICATION C	-	TT2048	571	\$16,829.00
	700MHZ DVR SUITCASE CROSS-BAND APPLICATION A	-	TT2050	571	\$10,677.00
	700MHZ DVR SUITCASE CROSS-BAND APPLICATION B	-	TT2051	571	\$10,667.00
	700MHZ DVR VEHICLE MOUNT TACTICAL APPLICATION A	-	TT2044	571	\$10,124.00

Options					
	Description	Full Description	Nomenclature	APC	Price
	DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
	DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00

Mounting					
	Description	Full Description	Nomenclature	APC	Price
	DVR CABINET OUTDOOR ENCLOSURE UPGRADE	This is an option for Fixed Mount DVR models. Add as a sub-item when ordering.	TT05130AA	571	\$9,446.00

SUITCASE DVRS OPTIONS					
	Description	Full Description	Nomenclature	APC	Price
	DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
	DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
	DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
	ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
	DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
	DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
	ALT: OPTIONAL OLIVE DRAB GREEN TRAN	-	TT06074AA	571	\$519.00
	ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00
	DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
	DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00

ON SITE TRAINING					
	Description	Full Description	Nomenclature	APC	Price
	ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
	ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day, see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00

Antenna					
	Description	Full Description	Nomenclature	APC	Price
	ANTENNA (762-870 MHz) 1/4 WAVE	-	HAF4016	554	\$24.75
	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00

Battery Pack					
	Description	Full Description	Nomenclature	APC	Price
	DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Cable(s)					
	Description	Full Description	Nomenclature	APC	Price
	DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
	DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
	DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
	DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
	DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
	DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00

Kits					
	Description	Full Description	Nomenclature	APC	Price
	DVR MIGRATION SOFTWARE XTL TO APX VEHICLE	-	DDN1715	571	\$500.00
	DVR MIGRATION SOFTWARE XTL TO APX SUITCASE	-	DDN1716	571	\$1,153.00
	DVR PROGRAMMING KIT	-	DDN1577	571	\$578.00

Programming					
	Description	Full Description	Nomenclature	APC	Price
	DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
	DVR PROGRAMMING SOFTWARE	-	DDN1576	571	\$385.00

WARRANTY & SERVICES					
	Description	Full Description	Nomenclature	APC	Price
	DVR-LX IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2087	571	\$958.00
	DVR-LX CROSS-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2086	571	\$170.00
	DVR-LX CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2085	571	\$605.00
	DVR-LX IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2088	571	\$340.00

DVR-LX DIGITAL VEHICULAR REPEATER

Models					
	Description	Full Description	Nomenclature	APC	Price
	DVR-LX 700 MHz IN-BAND VEHICLE MOUNT - FREQUENCY PLAN B	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan B	TT3794	571	\$15,310.00
	DVR-LX 700 MHz IN-BAND VEHICLE MOUNT - FREQUENCY PLAN A	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan A	TT3793	571	\$15,463.00
	DVR LX 700 MHz IN-BAND SUITCASE - FREQUENCY PLAN A	DVR LX 700 MHz In-Band Suitcase - Frequency Plan A	TT3796	571	\$21,171.00
	DVR-LX 700 MHz CROSS-BAND VEHICLE MOUNT	DVR-LX 700 MHz Cross-Band Vehicle Mount	TT3799	571	\$9,400.00
	DVR-LX 700 MHz IN-BAND SUITCASE - FREQUENCY PLAN B	DVR LX 700 MHz In-Band Suitcase - Frequency Plan B	TT3797	571	\$21,171.00
	DVR-LX 700 MHz IN-BAND VEHICLE MOUNT - FREQUENCY PLAN C	DVR-LX 700 MHz In-Band Vehicle Mount - Frequency Plan C	TT3795	571	\$15,463.00

DVR-LX 700 MHZ IN-BAND SUITCASE - FREQUENCY PLAN C	DVR LX 700 MHz In-Band Suitcase - Frequency Plan C	TT3798	571	\$21,171.00
DVR-LX 700 MHZ CROSS-BAND SUITCASE	DVR-LX 700 MHz Cross-Band Suitcase	TT3800	571	\$14,668.00
DVR-LX PSU CONVENTIONAL SCAN		TT3817A	571	\$0.00

Options	Description	Full Description	Nomenclature	APC	Price
	DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
	DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
	DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	TT06279AA	571	\$0.00
	DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
	DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
	AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX. Authentication Field Upgrade Licensed Feature: Portable Link Layer authentication through the DVR-LX® Prevent unauthorized portables accessing the radio network (per unit). 1. Requires DVR-LX® software release 1.51 or greater. 2. Requires mobile and portable to be running compatible firmware version (R20.02.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3117	571	\$303.00
	DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX. RM-OTAP Field Upgrade Licensed Feature: This feature enables operator to perform firmware and configuration update on each DVR-LX® unit using Motorola Radio Management via the Mobile Radio. 1. Requires DVR-LX® software release 1.60 or greater. 2. Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3118	571	\$303.00
	DVR-LX PSU CONVENTIONAL SCAN		DDN3175A	571	\$706.00
	SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631, The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
	SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
	CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN - TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 1-2' custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
	CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN - TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4' custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00
	SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX® INSTALLATION KIT - Includes Fuse installation kit, DVR-LX®, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX® ONLY) (PN 7K093X01) Must specify DVR-LX® configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
	DVR-LX - GPS DRIVEN DEACTIVATION	- GPS Driven Deactivation Factory Installed Optional Feature License (per unit)	TT4006A	571	\$101.00
	DVR - GPS DRIVEN DEACTIVATION	GPS Driven Deactivation Field Upgrade Optional Feature License (per unit)	DDN3261A	571	\$303.00
	DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® - GPS Driven Deactivation	DDN3263A	571	\$203.00

ON SITE TRAINING	Description	Full Description	Nomenclature	APC	Price
	ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Virtual Training (EXTENDED) Must purchase BASIC virtual training	DDN1975	571	\$1,600.00
	ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Virtual Training (BASIC) 2 Courses Available: 1. Training the Trainer/end user 1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. OR 2. Technical and Programming Training 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/DVR/VRX1000PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience. Please see ordering guide for additional information.	DDN1974	571	\$4,000.00

Antennas for Vehicle Mount DVR/DVR-LX®	Description	Full Description	Nomenclature	APC	Price
	ANTENNA, VHF (136-144MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 136 - 144 MHz	HAD4006	554	\$26.00
	ANTENNA, VHF (144-150.8 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 144 - 150.8 MHz	HAD4007	554	\$26.00
	ANTENNA, VHF (150.8-162 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 150.8 - 162 MHz	HAD4008	554	\$26.00
	ANTENNA, VHF (162-174 MHz) 1/4 WAVE ROOF TOP	Antennas for Vehicle Mount DVR/DVR-LX® 162 - 174 MHz	HAD4009	554	\$26.00
	ANTENNA, UHF (450-470 MHz) 1/4 WAVE ROOF MOUNT	Antennas for Vehicle Mount DVR/DVR-LX® 380 - 433 MHz	HA6012	554	\$23.00
	ANTENNA, UHF (450-470 MHz) 1/4 WAVE ROOF MOUNT	Antennas for Vehicle Mount DVR/DVR-LX® 450 - 470 MHz	HA6003	554	\$23.25
	ANTENNA, UHF (470-512 MHz) 1/4 WAVE ROOF MOUNT	Antennas for Vehicle Mount DVR/DVR-LX® 470 - 512 MHz	HA64004	554	\$23.25
	ANTENNA (762-870 MHz) 1/4 WAVE	Antennas for Vehicle Mount DVR/DVR-LX® 764 - 870 MHz	HAF4016	554	\$24.75

Mag Mount Antennas	Description	Full Description	Nomenclature	APC	Price
	VHF UNITY GAIN ANTENNA	Mag Mount Antennas 136-174 MHz	DDN9014	571	\$286.00
	UNITY GAIN ANTENNA UHF	Mag Mount Antennas 380-520 MHz	DDN9015	571	\$286.00
	UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	Mag Mount Antennas 764-869 MHz	DDN9016	571	\$286.00

Cable(s), Batterie(s), Accessorie(s)	Description	Full Description	Nomenclature	APC	Price
	DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes. UPGRADE (NEW DVR/DVR-LX® ORDERS ONLY) DVR/DVR-LX® TO APX MOBILE RADIO Y CONTROL CABLE (PN 1W083B09-01, 3 ft).	DDN9012	571	\$203.00
	DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD) DVR/DVR-LX® POWER CABLE FOR VEHICLE MOUNT DVR/DVR-LX® (PN 1W083A01-01)	DDN9030	571	\$203.00
	DVR DC POWER CABLE	DC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X32-01)	DDN9524	571	\$272.00
	DVR OPTIONS CABLE 2.5FT	DVR/DVR-LX® OPTIONS CABLE (PN 7W083X06-01, 2.5 ft)	DDN9031	571	\$203.00
	DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	DVR/DVR-LX® TO APX MOBILE RADIO CONTROL CABLE (PN 7W083X05-01, 3 ft) Custom cable lengths are available in 5 ft, 10 ft, 15 ft, 20 ft and 25 ft (MAX). Custom cable length must be specified on the purchase order to Futurecom.	DDN9028	571	\$682.00
	DVR RF SWITCH CABLE 1FT	DVR/DVR-LX® RF SWITCH CABLE FOR VEHICLE MOUNT DVR-LX® (PN 7W083X09-01, 1 ft)	DDN9032	571	\$203.00
	DVR AC POWER CABLE	AC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X17-01)	DDN9525	571	\$204.00
	DVR PROGRAMMING CABLE 10FT	AC POWER CABLE FOR SUITCASE DVR/DVR-LX® (PN 7W077X17-01)	DDN9025	571	\$202.00
	DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	DVR/DVR-LX® TO APX MOBILE RADIO FLAT MOUNT CONTROL CABLE (PN 7W083X83-01, 3 ft) Custom cable lengths are available in 5 ft, 10 ft, 15 ft, 20 ft and 25 ft (MAX). Custom cable length must be specified on the purchase order to Futurecom.	DDN2645	571	\$682.00
	ASSEMBLY, 1.5 FEET CAN CABLE	Control Head to Mobile Cable 2 ft, ideal for Suitcase DVR/DVR-LX® (SOLD EXCLUSIVELY THROUGH MOTOROLA SOLUTIONS, INC.)	HKN6245A	362	\$25.00
	DVR TO MOBILE Y CONTROL CABLE 3FT	DVR/DVR-LX® TO APX MOBILE RADIO Y CONTROL CABLE (PN 1W083B09-01, 3 ft)	DDN9029	571	\$412.00
	DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	RF CABLE DVR/DVR-LX® TO DVR/DVR-LX® NOTCH FILTER FOR VEHICLE MOUNT DVR-LX® (PN 7W083X16-01, 3 ft)	DDN9033	571	\$203.00

DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	RF CABLE MOBILE TO NOTCH FILTER FOR VEHICLE MOUNT DVR/DVR-LX® (PN 7W083X17-01, 3 ft)	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	RF CABLE APXTM8500 MOBILE TO NOTCH FILTER FOR VEHICLE MOUNT DVR/DVR-LX® (PN 7W900X94-02, 3 ft)	DDN2719	571	\$203.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR BATTERY BACK UP DC POWER CABLE	DVR/DVR-LX® BATTERY BACK UP DC POWER CABLE (PN 7W077X11-01)	DDN2646	571	\$551.00
ZIPPERED ACCESSORY POUCH	ZIPPERED ACCESSORY POUCH (PN 3Y088B01-01)	DDN2335	482	\$203.00
RACKMOUNT ALARM CAPABILITY - CONTACT CLOSURE TYPE, TEMPERATURE, POWER	RACKMOUNT ALARM CAPABILITY (Optional)	TT3935A	571	\$401.00

SUITCASE COLOR DVR/DVR-LX® OPTIONS / SUITCASE DVR/DVR-LX® POWER SUPPLY OPTIONS

Description	Full Description	Nomenclature	APC	Price
DVR STANDARD BLACK SUITCASE	STANDARD SUITCASE CASE COLOR – BLACK	TT06070AA	571	\$0.00
DVR STANDARD ORANGE SUITCASE	STANDARD SUITCASE CASE COLOR – ORANGE	TT06069AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	OPTIONAL SUITCASE COLOR – DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH YELLOW SUITCASE COLOR	TT06071AA	571	\$519.00
DVR OPTIONAL SILVER SUITCASE	OPTIONAL SUITCASE COLOR – DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH SILVER SUITCASE COLOR	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	OPTIONAL SUITCASE COLOR – DELETES STANDARD ORANGE OR BLACK SUITCASE AND REPLACES WITH DESERT TAN SUITCASE COLOR	TT06073AA	571	\$415.00
DVR STANDARD 220VAC POWER SUPPLY	STANDARD 220 VAC POWER SUPPLY	TT06076AA	571	\$0.00
DVR STANDARD 120VAC POWER SUPPLY	STANDARD 120 VAC POWER SUPPLY	TT06075AA	571	\$0.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVR-LX and PDR8000	TT06144AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVR-LX and PDR8000	TT06145AA	571	\$1,714.00

Battery Pack

Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Warranty & Services

Standard Warranty is 18 months

Description	Full Description	Nomenclature	APC	Price
DVR-LX CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	DVR/DVR-LX® Cross Band 4 Year Extended Warranty Extends standard warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2085	571	\$605.00
DVR-LX IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	DVR/DVR-LX® In-Band 1 Year Extended Warranty Extends any existing warranty by 1 year. Can only be purchased a maximum of 4 times per unit. Cannot be purchased in conjunction with 4 year extended warranty. Must be purchased prior to expiration of any existing warranty.	DDN2088	571	\$340.00
DVR-LX IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	DVR/DVR-LX® In-Band 4 Year Extended Warranty Extends standard warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard warrant	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	Vehicle Technical and Programming Support (BASIC) Maximum 1 day; see EXTENDED support for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Virtual Training (BASIC) 2 Courses Available: 1. Training the Trainer/end user 1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. OR 2. Technical and Programming Training 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/DVR/VRX1000/PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience. Please see ordering guide for additional information.	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Virtual Training (EXTENDED) Must purchase BASIC virtual training	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	Virtual Technical and Programming Support (EXTENDED) Must purchase BASIC virtual technical and programming support.	DDN1972	571	\$1,600.00
DVR-LX CROSS-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	DVR/DVR-LX® Cross Band 1 Year Extended Warranty Extends any existing warranty by 1 year. Can only be purchased a maximum of 4 times per unit. Cannot be purchased in conjunction with 4 year extended warranty. Must be purchased prior to expiration of any existing warranty	DDN2086	571	\$170.00

DVR-LX 800 MHZ

Models

Description	Full Description	Nomenclature	APC	Price
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3887A	571	\$15,310.00
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3890A	571	\$20,756.00
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3891A	571	\$20,756.00
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C	-	TT3889A	571	\$15,463.00
DVR LX 800 MHZ SUITCASE IN-BAND - FREQUENCY PLAN C	-	TT3892A	571	\$20,756.00
DVR-LX 800 MHZ VEHICLE MOUNT CROSS-BAND	-	TT3893A	571	\$11,815.00
DVR-LX 800 MHZ SUITCASE CROSS-BAND	-	TT3894A	571	\$14,667.00
DVR-LX 800 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3888A	571	\$15,310.00
DVR LX 800 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A OR PLAN B OR PLAN	Rackmount	TT3933A	571	\$19,250.00
DVR-LX 800 MHZ RACKMOUNT CROSS BAND	Rackmount	TT3934A	571	\$15,750.00
800 MHZ 50-WATT AMPLIFIER FOR RACKMOUNT DVR-LX	-	TT3939A	571	\$6,111.00

Options

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	TT06279AA	571	\$0.00
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	DDN3175A	571	\$706.00
DVR-LX PSU CONVENTIONAL SCAN	-	TT3817A	571	\$0.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631, The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN – TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00

CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN – TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4* custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00
SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX® INSTALLATION KIT – Includes Fuse installation kit, DVR-LX®, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX® ONLY) (PN 7K093X01) Must specify DVR-LX® configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® – GPS Driven Deactivation	TT4006A	571	\$101.00
DVR - GPS DRIVEN DEACTIVATION	DVR – GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® – GPS Driven Deactivation	DDN3263A	571	\$203.00

ON SITE TRAINING				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day, see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00

Antennas for Vehicle Mount DVR/DVR-LX®				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$24.75
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4006	554	\$26.00
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$26.00
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$26.00
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	554	\$23.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$23.25
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$23.25

Mag Mount Antennas				
Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00
VHF UNITY GAIN ANTENNA	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00

Cable(s), Batterie(s), Accessorie(s)				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	-	DDN2645	571	\$682.00
DVR TO MOBILE Y CONTROL CABLE 3FT	-	DDN9029	571	\$412.00
ASSEMBLY, 1.5 FEET CAN CABLE	-	HKN6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	-	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	-	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	-	DDN2719	571	\$203.00
DVR BATTERY BACK UP DC POWER CABLE	-	DDN2646	571	\$551.00
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00

SUITCASE COLOR DVR/DVR-LX® OPTIONS / SUITCASE DVR/DVR-LX® POWER SUPPLY OPTIONS				
Description	Full Description	Nomenclature	APC	Price
DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00

SUITCASE DVRS OPTIONS				
Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00

Battery Pack				
Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Warranty & Services				
Standard Warranty is 18 months				
Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day, see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
DVR-LX CROSS-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2086	571	\$170.00
DVR-LX CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2085	571	\$605.00
DVR-LX IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2088	571	\$340.00
DVR-LX IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	-	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00

The DVR-LX UHF

Models Options				
Description	Full Description	Nomenclature	APC	Price
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
DVR-LX PSU CONVENTIONAL SCAN	-	TT3817A	571	\$0.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3871A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3872A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C	-	TT3873A	571	\$19,235.00
DVR-LX 380-430 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN D	-	TT3874A	571	\$19,235.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3875A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3876A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN C	-	TT3877A	571	\$22,700.00
DVR-LX 380-430 MHZ SUITCASE IN-BAND - FREQUENCY PLAN D	-	TT3878A	571	\$22,700.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS-BAND - FREQUENCY PLAN A	-	TT3879A	571	\$11,815.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS-BAND - FREQUENCY PLAN B	-	TT3880A	571	\$11,815.00
DVR-LX 380-430 MHZ SUITCASE CROSS-BAND FREQUENCY PLAN A	-	TT3897A	571	\$14,961.00
DVR-LX 380-430 MHZ SUITCASE CROSS-BAND FREQUENCY PLAN B	-	TT3898A	571	\$14,667.00

DVR-LX 450-470 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3881A	571	\$17,075.00
DVR-LX 450-470 MHZ VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3882A	571	\$17,075.00
DVR-LX 450-470 MHZ SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3883A	571	\$19,928.00
DVR-LX 450-470 MHZ SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3884A	571	\$19,928.00
DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS-BAND	-	TT3885A	571	\$11,815.00
DVR-LX 450-470 MHZ SUITCASE CROSS-BAND	-	TT3886A	571	\$14,667.00
DVR-LX 380-430 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A, PLAN B OR PLAN C	Rackmount	TT3929A	571	\$23,629.00
DVR-LX 380-430 MHZ RACKMOUNT CROSS BAND FREQUENCY PLAN A, PLAN B	Rackmount	TT3930A	571	\$15,750.00
DVR-LX 450-470 MHZ RACKMOUNT IN-BAND - FREQUENCY PLAN A OR PLAN B	Rackmount	TT3931A	571	\$21,006.00
DVR-LX 450-470 MHZ RACKMOUNT CROSS BAND	Rackmount	TT3932A	571	\$16,061.00
DVR-LX 450-470MHZ SIMPLEX CROSS-BAND	DVR-LX UHF 450-470MHZ SUITCASE CROSS-BAND SIMPLEX	TT4124A	571	\$15,000.00

Field Upgrade Licensed Feature(s)

Description	Full Description	Nomenclature	APC	Price
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	DDN3175A	571	\$706.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631, The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	DVR-LX 380-430 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	TT4008A	571	\$10,525.00
DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	DVR-LX 450-470 MHZ VEHICLE MOUNT CROSS BAND (SIMPLEX ONLY)	TT4009A	571	\$10,525.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN – TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN – TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00
SPARE DVR-LX INSTALLATION KIT	SPARE DVR-LX® INSTALLATION KIT – Includes Fuse installation kit, DVR-LX®, power cable, Connector mini UHF Male RA (VEHICLE MOUNT DVR-LX® ONLY) (PN 7K093X01) Must specify DVR-LX® configuration (Cross Band or In-Band) on the purchase order to Futurecom.	DDN3274A	571	\$282.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	TT4006A	571	\$101.00
DVR - GPS DRIVEN DEACTIVATION	DVR -- GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	DDN3263A	571	\$203.00

ON SITE TRAINING

Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00

Antennas for Vehicle Mount DVR/DVR-LX®

Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$24.75
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4006	554	\$26.00
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$26.00
ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	-	HAD4008	554	\$26.00
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$26.00
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	554	\$23.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$23.25
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$23.25

Mag Mount Antennas

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00
VHF UNITY GAIN ANTENNA	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00

Cable(s), Batterie(s), Accessories(s)

Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	-	DDN2645	571	\$682.00
ASSEMBLY, 1.5 FEET CAN CABLE	-	HKN6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	-	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	-	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	-	DDN2719	571	\$203.00
DVR BATTERY BACK UP DC POWER CABLE	-	DDN2646	571	\$551.00
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	-	DDN2886	571	\$2,118.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR TO MOBILE Y CONTROL CABLE 3FT	-	DDN9029	571	\$412.00

SUITCASE COLOR DVR/DVR-LX® OPTIONS

Description	Full Description	Nomenclature	APC	Price
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00

SUITCASE DVR/DVR-LX® POWER SUPPLY OPTIONS

Description	Full Description	Nomenclature	APC	Price
DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00

Battery Pack

Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Warranty & Services

Standard Warranty is 18 months

Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
DVR-LX CROSS-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2086	571	\$170.00
DVR-LX CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2085	571	\$605.00
DVR-LX IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2088	571	\$340.00
DVR-LX IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	-	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00

DVR-LX VHF

Models

Description	Full Description	Nomenclature	APC	Price
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN A	-	TT3859A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN B	-	TT3860A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN C	-	TT3861A	571	\$16,577.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN A	-	TT3864A	571	\$19,429.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN B	-	TT3865A	571	\$19,429.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN C	-	TT3866A	571	\$19,429.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN D	-	TT3862A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT IN-BAND - FREQUENCY PLAN E	-	TT3863A	571	\$16,577.00
DVR-LX VHF VEHICLE MOUNT CROSS-BAND	-	TT3869A	571	\$11,815.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN D	-	TT3867A	571	\$19,429.00
DVR-LX VHF SUITCASE IN-BAND - FREQUENCY PLAN E	-	TT3868A	571	\$19,429.00
DVR-LX VHF SUITCASE CROSS-BAND	-	TT3870A	571	\$13,643.00
DVR-LX VHF RACKMOUNT IN-BAND - FREQUENCY PLAN A OR PLAN B OR PLAN C	Rackmount	TT3926A	571	\$23,629.00
DVR-LX VHF RACKMOUNT IN-BAND - FREQUENCY PLAN D OR PLAN E	Rackmount	TT3927A	571	\$20,509.00
DVR-LX VHF RACKMOUNT CROSS-BAND	Rackmount	TT3928A	571	\$16,061.00

Options

Description	Full Description	Nomenclature	APC	Price
DVR-LX AUTHENTICATION	Authentication: This option is only ordered for new customers that do not have DVR-LX.	TT06567AA	571	\$203.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for new customers that do not have DVR-LX.	TT06568AA	571	\$203.00
AUTHENTICATION FOR DVR-LX	Authentication: This option is only ordered for those customers that already have DVR-LX.	DDN3117	571	\$303.00
DVR-LX RM-OTAP	RM-OTAP: This option is only ordered for those customers that already have DVR-LX.	DDN3118	571	\$303.00
DVR-LX PSU CONVENTIONAL SCAN	PSU CONVENTIONAL SCAN	DDN3175A	571	\$706.00
DVR-LX PSU CONVENTIONAL SCAN	-	TT3817A	571	\$0.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Factory Installed Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 1. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631, The Motorola Y CABLE GA01779 is required. If ordered as field upgrade, DDN3230A is required.	TT3925A	571	\$151.00
SMARTCONNECT	SmartConnect In-Vehicle Range Extension Field Upgrade Licensed Feature: Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) (per unit) 3. Requires DVR-LX® compatibility software release (See compatibility charts for reference) 4. Requires mobile and portable to be running compatible firmware version (See compatibility charts for reference) Cost of subscriber upgrade not included. Requires SmartConnect GA01630 & DVRS MSU GA00631 The Motorola Y CABLE GA01779 is required. All serial numbers must be provided to Futurecom at the time of order.	DDN3230A	571	\$253.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	TT4006A	571	\$101.00
DVR - GPS DRIVEN DEACTIVATION	DVR -- GPS Driven Deactivation	DDN3261A	571	\$303.00
DVR-LX - GPS DRIVEN DEACTIVATION	DVR-LX® -- GPS Driven Deactivation	DDN3263A	571	\$203.00

ON SITE TRAINING

Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day. see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00

Antennas for Vehicle Mount DVR/DVR-LX®

Description	Full Description	Nomenclature	APC	Price
ANTENNA, VHF (136-144MHZ) 1/4 WAVE ROOF TOP	-	HAD4006	554	\$26.00
ANTENNA, VHF (144-150.8 MHZ) 1/4 WAVE ROOF TOP	-	HAD4007	554	\$26.00
ANTENNA, VHF (150.8-162 MHZ) 1/4 WAVE ROOF TOP	-	HAD4008	554	\$26.00
ANTENNA, VHF (162-174 MHZ) 1/4 WAVE ROOF TOP	-	HAD4009	554	\$26.00
ANTENNA 1/4 WAVE WHIP 380-433 MHZ	-	HAE6012	554	\$23.00
ANTENNA, UHF (450-470 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4003	554	\$23.25
ANTENNA, UHF (470-512 MHZ) 1/4 WAVE ROOF MOUNT	-	HAE4004	554	\$23.25
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$24.75

Mag Mount Antennas

Description	Full Description	Nomenclature	APC	Price
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00
VHF UNITY GAIN ANTENNA	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00

Cable(s), Batterie(s), Accessorie(s)

Description	Full Description	Nomenclature	APC	Price
DVR Y CONTROL CABLE	This cable is ONLY ordered when upgrading a standard DDN9028 cable to the DDN9029 Y-version. It is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9012	571	\$203.00
DVR POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9030	571	\$203.00
DVR DC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9524	571	\$272.00
DVR OPTIONS CABLE 2.5FT	Spare	DDN9031	571	\$203.00
DVR TO APX MOBILE CONTROL CABLE (5FT,10FT,15FT,20FT,25FT)	This is a variable length cable from 3-25 ft. Please include required cable length in ordering notes.	DDN9028	571	\$682.00
DVR RF SWITCH CABLE 1FT	Spare	DDN9032	571	\$203.00
DVR AC POWER CABLE	Spare. Cable is also available through the Parts Dept (AAD)	DDN9525	571	\$204.00
DVR TO MOBILE RADIO FLAT MOUNT CABLE 3FT	-	DDN2645	571	\$682.00
ASSEMBLY, 1.5 FEET CAN CABLE	-	HK6245A	362	\$25.00
DVR RF CABLE DVR TO DVR NOTCH FILTER 3FT	-	DDN9033	571	\$203.00
DVR RF CABLE MOBILE TO MOBILE NOTCH FILTER 3 FT	-	DDN9034	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	-	DDN2719	571	\$203.00
ZIPPED ACCESSORY POUCH	-	DDN2335	482	\$203.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTICAM COLOR	-	DDN2886	571	\$2,118.00
DVR BATTERY BACK UP DC POWER CABLE	-	DDN2646	571	\$551.00
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00
DVR TO MOBILE Y CONTROL CABLE 3FT	-	DDN9029	571	\$412.00
DVR PROGRAMMING CABLE 10FT	-	DDN9025	571	\$202.00

SUITCASE COLOR DVR/DVR-LX® / SUITCASE DVR/DVR-LX® POWER SUPPLY

Description	Full Description	Nomenclature	APC	Price
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DVR STANDARD 220VAC POWER SUPPLY	-	TT06076AA	571	\$0.00
DVR OPTIONAL YELLOW SUITCASE	-	TT06071AA	571	\$519.00
DVR STANDARD 120VAC POWER SUPPLY	-	TT06075AA	571	\$0.00
DVR STANDARD BLACK SUITCASE	-	TT06070AA	571	\$0.00
DVR OPTIONAL DESERT TAN SUITCASE	-	TT06073AA	571	\$415.00
DVR STANDARD ORANGE SUITCASE	-	TT06069AA	571	\$0.00
DVR OPTIONAL SILVER SUITCASE	-	TT06072AA	571	\$415.00

SUITCASE DVRS OPTIONS

Description	Full Description	Nomenclature	APC	Price
ENH: OPTIONAL BACKPACK SLING - MULT	This item can be used for both suitcase DVRS and PDR8000	TT06145AA	571	\$1,714.00
ENH: OPTIONAL BACKPACK SLING - COYO	This item can be used for both suitcase DVRS and PDR8000	TT06144AA	571	\$1,714.00

Description	Full Description	Nomenclature	APC	Price
DVR BATTERY BACK UP	Provides 2 hour operation based on 50/50 duty cycle.	DDN9011	571	\$3,241.00

Warranty & Services

Standard Warranty is 18 months

Description	Full Description	Nomenclature	APC	Price
DVR-LX CROSS-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2086	571	\$170.00
DVR-LX CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2085	571	\$605.00
DVR-LX IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2088	571	\$340.00
DVR-LX IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2087	571	\$958.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	-	DDN1971	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	-	DDN1972	571	\$1,600.00

VRX1000 - VEHICLE RADIO EXTENDER

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
VRX1000 - UHF 380-430/450-512 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2793	571	\$3,350.00
VRX1000-7/800 769-775/851-869 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2794	571	\$3,350.00
VRX1000 - VHF 136-174 MHZ	Includes Power Cable, Analog Conventional Operation, Standard 3 ft control cable (Mobile Radio to VRX), Mounting Bracket. Requires either TT05715 or TT06279 be ordered with Model.	TT2792	571	\$3,350.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
DVR/VRX FOR USE WITH SINGLE BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for single band APX mobiles OR dual-band capable APX mobiles that are only utilizing one band.	TT05715AA	571	\$0.00
DVR/VRX FOR USE WITH DUAL BAND APX MOBILE	A mobile operation option is required for all In-Band and Cross-Band units. Software is loaded accordingly in the DVR. XTL capability is not-compatible with APX mobiles and vice-versa. Please select accurately. Use this option for dual-band capable APX mobiles that are utilizing both bands.	TT05716AA	571	\$0.00
DVR/VRX FOR USE WITH ALL BAND APX8500 MOBILE	Remote Mount APXTM 8500 with any Control Head, all band	TT06279AA	571	\$0.00

Factory Installed Licensed Features

3. Software Enhancements

Description	Full Description	Nomenclature	APC	Price
VRX1000 P25 ENHANCED TRUNKING OPERATION	Adds enhanced trunking feature set capabilities. Requires Digital Operation on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	TT05953AA	571	\$1,680.00
VRX1000 AUTHENTICATION	Portable Link Layer authentication through the VRX1000 Prevents unauthorized portables accessing the radio network (per unit) TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.51 or greater	TT06566AA	571	\$151.00
VRX1000 RM-OTAP	This feature enables operators to perform firmware & configuration updates on each VRX1000 unit using Motorola Radio Management via the mobile radio. Requires VRX1000 software release 1.60 or greater Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit. This	TT06568AA	571	\$151.00
VRX1000 PSU CONVENTIONAL SCAN	PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.61 or greater Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade and any required options not included in kit. Option.	TT3816A	571	\$0.00
SMARTCONNECT	Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) per unit. The Motorola Y CABLE GA01779 is required. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features 1. Requires VRX1000 compatibility software release (See compatibility charts for reference) 2. Requires mobile and portable to be running compatible firmware version (See Compatibility Charts for reference) 3. Requires SmartConnect GA01630 & DVRS MSU GA0063	TT3924A	571	\$101.00
VRX1000 - BACK-UP PUSH TO TALK (BUPTT) FIELD UPGRADE OPTIONAL FEATURE	Enables a "DVR enabled PSU" to maintain voice and emergency services when SmartConnect MSU is connected via broadband (LTE, SAT, Wi-Fi) per unit. TT05951AA & or DDN1960A & Requires SmartConnect GA01630 & DVRS MSU GA00631	DDN3229A	571	\$203.00
VRX1000 P25 DIGITAL CONVENTIONAL OPERATION	VRX1000 P25 DIGITAL CONVENTIONAL OPERATION AND ENCRYPTION.	TT05951AA	571	\$1,560.00
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	TT4005A	571	\$51.25
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	DDN3262A	571	\$151.00

Section D: Field Upgrade Licensed Features

Software Upgrades

Description	Full Description	Nomenclature	APC	Price
SOFTWARE.P25 PHASE 1 OPERATION	This upgrade kit will add P25 Digital Capability to the standard Analog VRX1000	DDN1960	571	\$1,560.00
VRX1000 P25 ENHANCED TRUNKING OPERATION	This upgrade kits adds enhanced trunking feature set capabilities. Requires Digital Operation (or DDN1960A) on VRX1000. APX Portables should have the Enhanced PSU DVRS Option (QA00631).	DDN1962	571	\$1,680.00
AUTHENTICATION FOR VRX1000	Portable Link Layer authentication through the VRX1000 Prevents unauthorized portables accessing the radio network (per unit). TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Or DDN1960A, DDN1962A	DDN3116	571	\$303.00
VRX1000 RM-OTAP	This feature enables operators to perform firmware & configuration updates on each VRX1000 unit using Motorola Radio Management via the mobile radio. Requires VRX1000 software release 1.60 or greater Requires mobile and portable to be running compatible firmware version (R21.01.00) Cost of subscriber upgrade and any required options not included in kit.	DDN3119	571	\$252.00
VRX1000 PSU CONVENTIONAL SCAN	PSU conventional scan feature enables an enhanced PSU to support conventional scan while the Futurecom repeater is configured as its system type. TT05951AA - P25 Operation TT05953AA - P25 Trunking Features Requires VRX1000 software release 1.61 or greater Requires mobile and portable to be running compatible firmware version (R21.20.00) Cost of subscriber upgrade.	DDN3174A	571	\$706.00
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	TT4005A	571	\$51.25
VRX1000 - GPS DRIVEN DEACTIVATION	VRX1000 - GPS DRIVEN DEACTIVATION	DDN3262A	571	\$151.00
CUSTOM FILTER DESIGN TIER 1	CUSTOM FILTER DESIGN - TIER 1 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 1 option consists of 1-2" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06580AA	571	\$2,854.00
CUSTOM FILTER DESIGN TIER 2	CUSTOM FILTER DESIGN - TIER 2 This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact sales@futurecom.com prior to placing an order. Tier 2 option consists of 3-4" custom filters per unit. Delivery lead time is 14-16 weeks ARO and a verified frequency plan. This could be applied to either DVR-LX® or VRX1000	TT06581AA	571	\$5,213.00

In-Band Options

Description	Full Description	Nomenclature	APC	Price
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05949AA	571	\$3,437.00

VRX1000 IN-BAND FILTER KIT UHF PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05948AA	571	\$3,437.00
VRX1000 IN-BAND FILTER KIT VHF PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05946AA	571	\$3,338.00
VRX1000 IN-BAND FILTER KIT VHF PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05945AA	571	\$3,338.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN B	For Plan 'B'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05950AA	571	\$3,338.00
VRX1000 IN-BAND FILTER KIT UHF PLAN A	For Plan 'A'. Comes Standard with Flat Mount Hardware. If you need stacked mount hardware order kit TT05955AA.	TT05947AA	571	\$3,437.00

5: Cables		Description	Full Description	Nomenclature	APC	Price
		VRX1000 PROGRAMMING KIT	Programming Kit includes the programming and installation manual, programming software and USB cable (DDN1968A). All manuals are available online for free for download to registered users.	TT05954AA	571	\$480.00
		VRX1000 Y CONTROL CABLE AUX 3FT	Requires option Delete Standard Cable (TT05956AA).	TT05964AA	571	\$360.00
		VRX1000 Y CONTROL CABLE SIREN 3FT	Requires option Delete Standard Cable (TT05956AA).	TT05977AA	571	\$410.00
		DEL: DELETE STANDARD CONTROL CABLE - VRX1000	Delete standard VRX to Mobile Radio Control Cable (DDN1969A) from VRX1000 - Used when Y cable is required instead of standard cable - NOTE: Replacement Y cable TT05964AA or TT05977AA MUST be ordered.	TT05956AA	571	(\$110.00)

Section B: Antennas
Antennas

SPARES/KITS/OPTIONS

Description	Full Description	Nomenclature	APC	Price
VRX1000 IN-BAND FILTER KIT VHF PLAN A	-	DDN2073	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT VHF PLAN B	-	DDN2074	571	\$3,338.00
VRX1000 IN-BAND FILTER KIT UHF PLAN A	-	DDN2075	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT UHF PLAN B	-	DDN2076	571	\$3,093.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN A	-	DDN2077	571	\$3,338.00
VRX1000 IN-BAND FILTER KIT 700/800MHZ PLAN B	-	DDN2078	571	\$3,338.00
VRX1000 MOUNTING KIT	VRX1000 Mounting Kit - Included with all VRX1000 models - Order as spare if required	DDN1963	571	\$203.00
SINGLE RELAY ASS. FOR APX8500 INTERFACE	Relay Kit	DDN2808	571	\$815.00

Description	Full Description	Nomenclature	APC	Price
VRX1000 PROGRAMMING CABLE	Includes the programming USB cable. All manuals and software are available online for free for download to registered users.	DDN1968	571	\$203.00
VRX1000 TO MOBILE RADIO CABLE 3FT	-	DDN1969	571	\$218.00
VRX1000 CABLE Y-CONTROL CABLE / SIREN 3 FT	-	DDN2053	571	\$410.00
VRX1000 DC POWER CABLE	-	DDN1966	571	\$203.00
VRX1000 Y - CONTROL CABLE / AUX 3FT	-	DDN1970	571	\$360.00
VRX1000 IN-BAND STACKED MOUNT KIT	-	DDN1965	571	\$203.00
VRX1000 FILTER RF CABLE 20IN	-	DDN1967	571	\$203.00
RF CABLE APX8500 MOBILE TO MOBILE NOTCH FILTER 20IN	RF Cable for In-Band Filter Kit (PN 7W900X94-01) - Connects APXTM 8500 Mobile Radio to Mobile Radio In-Band filter. QMA RA (m) to mini UHF (m) 20"	DDN2719	571	\$203.00
VRX1000 INSTALLATION KIT	VRX1000 Installation Kit - Includes Bracket, Mini UHF Connector, Fuse Kit, Power Cable - Included with all VRX1000 models - Order as spare if required	DDN2751	571	\$262.00

Services

Description	Full Description	Nomenclature	APC	Price
ON-SITE AND/OR VIRTUAL TRAINING (EXTENDED)	Maximum 1 day. Requires BASIC support. All on-site activity must be scheduled as sequential days. Requires minimum 2 weeks notice. Pricing is for North America support only.	DDN1975	571	\$1,600.00
ON-SITE AND/OR VIRTUAL TRAINING (BASIC)	Maximum 1 day, see EXTENDED support for additional days. Requires minimum 2 weeks notice. Pricing is for North America support only. Package includes standard training package. Customized training is available.	DDN1974	571	\$4,000.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (BASIC)	Virtual Technical and Programming Support (Basic) Maximum 1 day; see EXTENDED support for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.	DDN1971	571	\$4,000.00
VRX1000 IN-BAND 1 YEAR EXTENDED HARDWARE WARRANTY	VRX1000 In-Band 1 Year Extended Warranty - Extends existing warranty by one year. Includes software subscription.	DDN2082	571	\$303.00
VRX1000 CROSS-BAND 1 YEAR EXTENDED WARRANTY	VRX1000 Cross Band 1 Year Extended Warranty - Extends existing warranty by one year. Includes software subscription. Must be purchased prior to expiration of any existing warranty. Standard 18 month warranty can be extended by a maximum of 4 years	DDN2080	571	\$213.00
VRX1000 IN-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	VRX1000 In-Band 4 Year Extended Warranty - Extends standard 18 month warranty by 4 years. Includes software subscription. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty	DDN2081	571	\$1,059.00
ON-SITE AND/OR VIRTUAL PROGRAMMING SUPPORT (EXTENDED)	Virtual Technical and Programming Support (EXTENDED). Must purchase BASIC virtual technical and programming support.	DDN1972	571	\$1,600.00
VRX1000 CROSS-BAND 4 YEAR EXTENDED HARDWARE WARRANTY	VRX1000 Cross Band 4 Year Extended Warranty - Extends standard 18 month warranty by 4 years. Includes software subscription. Can only be purchased once per unit. Must be purchased prior to expiration of standard warranty.	DDN2079	571	\$756.00

DSC 8000 Site Controller

Description	Full Description	Nomenclature	APC	Price
STANDALONE DSC 8000 CONTROLLER	Individual DSC 8000 Controller. Select qty 1.	T8B10	677	\$0.00
ADD: DSC 8000 REPEATER SITE CONTROLLER NON-ESS	New Site Controller replacing the GCP 8000. Use for ASR Sites. Select qty 1.	CA03762AA	677	\$2,500.00
ADD: DSC REFERENCE DISTRIBUTION MODULE NON-ESS	New RDM replacing the GPB 8000. Use for Simulcast/Voting Sites. Select qty 1.	CA03793AA	677	\$2,500.00
ADD: DSC 8000 REPEATER SITE CONTROLLER SW	Use for ASR Sites. Select qty 1.	CA03745AA	680	\$7,400.00
ADD: DSC 8000 SIMULCAST RDM SW	Use for Simulcast/Voting Sites. Select qty 1.	CA03746AA	680	\$8,200.00
ADD: INTEGRATED GNSS TIMING REFERENCE	This provides limited holdover if GNSS signal is lost. Select QTY 1.	CA03738AA	677	\$0.00
ADD: INTEGRATED GNSS TIMING REF W/ RB	Adds a Rubidium module to the DSC 8000. Select QTY 1.	CA03739AA	677	\$12,000.00
ADD: DSC 8000 RUBIDIUM SW	Software license required for each Rubidium. Select QTY 1.	CA03747AA	680	\$4,500.00
ADD: EXTERNAL TIMING REFERENCE CONN ONLY	Select when providing your own reference separately. Select QTY 1.	CA03740AA	677	\$55.00
ADD: DSC 8000 CONVENTIONAL SITE CONTROLLER	Use for CSC Sites. Select qty 1.	CA03801AA	677	\$5,500.00
ADD: DSC 8000 CONVENTIONAL SITE CONTROLLER SW	Use for CSC Sites. Select qty 1.	UA00787AA	680	\$8,000.00
ADD: DISTRIBUTED CONVENTIONAL SITE	Use for Distributed Conventional Sites. Select qty 1.	CA03830AA	680	\$0.00
ADD: AXS DISPATCH SITE	Use for AXS Dispatch Sites. Select qty 1.	CA03831AA	680	\$0.00
ADD: NM/DISPATCH CONVENTIONAL SITE	Use for NM/Dispatch Conventional Sites. Select qty 1.	CA03832AA	680	\$0.00
ADD: CABINET MOUNTING HARDWARE	Mounting support rails for Schroff cabinet. Select qty 1.	CA03763AA	677	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03677AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2021.1	-	CA03678AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2021.18	-	CA00718AA	595	\$0.00
DSC AC POWER SUPPLY CHASSIS	Not available for the Conventional Site Controller option UA00787AA	CA00718AA	595	\$0.00
ADD: DUAL POWER SUPPLIES FOR DSC	Chassis for the power supply modules.	T8B11	677	\$1,700.00
ADD: SINGLE POWER SUPPLY FOR DSC	Includes 2 power supply modules.	CA03781AA	677	\$2,200.00
ADD: DSC AC POWER CABLE - US, 12 FT	Includes 1 power supply module.	CA03800AA	677	\$1,100.00
ADD: DSC AC POWER CABLE - US, 6 FT	Includes 2 cables.	CA03533AA	677	\$0.00
ADD: DSC C19 POWER TERMINAL CONNECTORS	Includes 2 cables.	CA03534AA	677	\$0.00
ADD: CABINET MOUNTING HARDWARE	Includes 2 connectors.	CA03535AA	677	\$0.00
GCP 8000 / GPB 8000 / XHUB / DSC HUB	Mounting support rails for Schroff cabinet. Select qty 1.	CA03763AA	677	\$0.00
ADD: DSC HUB	Chassis for the various modules.	T7038	112	\$3,000.00
ADD: ASTRO SYSTEM RELEASE 7.18	Select qty 2.	CA03737AA	677	\$3,500.00
ADD: ASTRO SYSTEM RELEASE 2019.2	Not available for the Conventional Site Controller option UA00787AA	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2021.1	-	CA03677AA	595	\$0.00
FRE: DSC 8000	-	CA03678AA	595	\$0.00
FRU: DSC 8000 AC POWER SUPPLY	DSC w/o Rubidium module.	DLN1444A	677	\$10,500.00
FRE: DSC 8000, W/RUBIDIUM 28-60V	One power supply that slides into the power distribution chassis.	DLN8001	677	\$1,100.00
	DSC with Rubidium module.	DLN1445B	677	\$22,500.00

FRU: DSC HUB	DSC HUB Module	DLN8035	677	\$3,500.00
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DUAL INSTANT RECALL RECORDER

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN2722A	229	\$2,648.00
DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & SPKRS (V51)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 10), USB HASP protection key, Sound Blaster sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2723A	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 4.0, MCC 5500 Release 2.07, Elite / MCC 7500 A7.14 to A7.16 systems.

Description	Full Description	Nomenclature	APC	Price
VOICE AND DATA LOGGING,DUAL IRR SW USB HASP WITH LICENSE (V47)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN2089A	229	\$2,648.00
VOICE AND DATA LOGGING,DUAL IRR SW USB HASP W LICENSE, SOUND CARD, & S	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN2090A	229	\$2,935.00

Instant Recall Recorder For Use On MIP 5000 Release 3.0, MCC 5500 Release 2.06, Elite / MCC 7500 A7.11 to A7.13 systems.

Description	Full Description	Nomenclature	APC	Price
DUAL IRR SW USB HASP WITH LICENSE (VERSION 45)	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual (in pdf). Capable of recording 2 channels, both radio and telephone. If Dual IRR functionality is required a sound card should be ordered.	DDN1245	229	\$2,648.00
COMPUTER PERIPHERAL,IRR SW USB HASP LIC, SOUND CRD V45	Kit includes software based Dual Instant Recall Recorder (IRR) CD (for Windows 7 or Windows 8.1), USB HASP protection key, Sound Blaster sound card (not USB), MIDI cable, telephone adapter and cable, audio patch cable for MCC 5500 and MCC 7500, hook switch cable, IRR sound cable to Centracom CIE, and Operation/Installation manual. Capable of recording 2 channels, both radio and telephone. In this configuration, the PC's on-board sound card is used in conjunction with the sound card included in this package. A pair of speakers is also included to hear the playback of audio.	DDN1244	229	\$2,935.00

Software Upgrade:

Description	Full Description	Nomenclature	APC	Price
IRR SOFTWARE UPGRADE TO V51	Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.17 or later. This is also the current supported version for MIP 5000 Release 4.3 and MCC5500 Release. Purchase one of these for each PC running IRR that needs to be upgraded.	DDN2724A	229	\$667.00
IRR SOFTWARE UPGRADE TO V -45	Model to be ordered if existing IRR software is out of the warranty (beyond 1 year) and needs to be upgraded. This model provides for IRR release -45. This can be used for Astro 25 7.11 - 7.13. This is also the current supported version for MIP 5000 Release 3.0 and MCC5500 Release 2.06 or later. Purchase one of these for each PC running IRR that needs to be upgraded.	DDN1243	229	\$667.00

Individual Items:

Description	Full Description	Nomenclature	APC	Price
TELEPHONE ADAPTER	Used with most telephone styles, provides a simple means of connecting your Computer Sound Card so that it can monitor both sides of all conversations that take place on the handset or headset of your telephone. Automatically starts recorder when handset is lifted.	DDN6489A	229	\$242.00
CABLE FOR TELEPHONE ADAPTER	Cable - RJ-11 to 1/8 in. mini plug. Allows connection from the Telephone Adapter to the PC.	DDN6490A	229	\$85.00
HOOK SWITCH CABLE FOR MIDI PORT	Used to send a signal that triggers the Instant Recall Recorder software to start recording when off hook condition is detected. The MIDI cable is used to link your computer to your radio equipment, through the MIDI port (Joystick) of your Sound Blaster Sound Card.	DDN6491A	229	\$92.00
HOOK SWITCH CABLE FOR COM PORT	Used to send a signal that triggers the IRR software to start recording when off hook condition is detected. The COM port cable is used to link your computer to your radio equipment, through one of the COM port located on every PC.	DDN6492A	229	\$87.00
SOUND BLASTER AUDIGY FX PCIE SOUND CARD-NOT COMPAT WITH Z2 MINI PC DESKTOP SPEAKERS	For use with Z440 and Z420 PC's. Creative Lab speakers includes 110V AC power supply.	DDN2134 CDN6673	229 708	\$67.00 \$45.75
INSTANT RECALL RECORDER CABLE FOR MCC 7500	Cable for use with GPIOM/VPM using a RJ45 with a 3.5mm connector, 6 feet long.	DDN9649A	229	\$95.00

800 MHZ DUPLEXERS

FILTRONIC PARTS

Description	Full Description	Nomenclature	APC	Price
PXC008-V2 700 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC008-V2 SPEC SHEET LINK: https://www.filtronic.com/msi/DSPXC008V2	DSPXC008V2	457	\$1,309.00
800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC009-V2 SPEC SHEET LINK: https://www.filtronic.com/msi/DSPXC009V2	DSPXC009V2	457	\$1,329.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXING SYSTEM, 700 MHZ, RX: 793-805 MHZ / TX: 763-775 MHZ, 2 CH	TXRX PART#: CP05455 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MS1_products/DS20398-4.pdf	DSCP05455	457	\$5,750.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 2 CH	TXRX PART#: CP06456 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MS1_products/DS20398-4.pdf	DSCP06456	457	\$5,750.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 1 CHANNEL	COMBILENT PARTS: CP06425 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEggQ21DfzYknjHrW8kAh/view?usp=sharing	DSCP06425	457	\$4,370.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 1 CHANNEL	COMBILENT PARTS: CP06426 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEggQ21DfzYknjHrW8kAh/view?usp=sharing	DSCP06426	457	\$4,370.00
DUPLEXING SYSTEM, 800 MHZ, RX: 806-824 MHZ / TX: 851-869 MHZ, 2 CHANNEL	COMBILENT PARTS: CP06427 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEggQ21DfzYknjHrW8kAh/view?usp=sharing	DSCP06427	457	\$5,750.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX AC PWR	DBSPECTRA # - BCDUP03A Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf	DSBCDUP03A	457	\$4,658.00
DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX AC PWR	DBSPECTRA PART#: BCDUP04A SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf	DSBCDUP04A	457	\$2,990.00
DSD806M, 800MHZ MULTI CHANNEL NOTCH DUPLEXER	DBSPECTRA # - DSD806M Requires Tx and rx frequencies when ordering SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-063.E_(DSD706M_DSD806M_DSD906M).pdf	DSDSD806M	457	\$518.00
DST7800, TX764-776 & 851-862MHZ, RX	DBSPECTRA # - DST7800 Requires Tx and rx frequencies when ordering SPEC SHEET LINK: www.dbspectra.com/specifications/DST7800.pdf	DSDST7800	457	\$3,439.00
MILLED WINDOW FILTER DUPLEXER	DBSPECTRA PART#: MWFDP7AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B_(MWFDP-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFDP7AM	457	\$3,533.00
808-861MHZ MILLED WINDOW DUPLEXER, 7/16 DIN CONNECTORS	DBSPECTRA PART#: MWFDP8AM SPEC SHEET LINK: www.dbspectra.com/specifications/096000-254.B_(MWFDP-Series Window Filter Duplexer FB 700-800-900 MHz).pdf	DSMWFDP8AM	457	\$3,533.00
DUPLEX03 2 CHANNEL DUPLEXER 806-824MHZ RX 851-869TX DC PWR	DBSPECTRA PART#: BCDUP03D SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-199.A_(DSBCDUP03_04).pdf	DSBCDUP03D	457	\$5,974.00

DUPLEX04 SINGLE CH DUPLEXER RX AMP 806 824MHZ RX 851 869MHZ TX DC PWR	DBSPECTRA PART#: BCDUP04D SPEC SHEET LINK: www.dbspectra.com/specifications/Motorola/096000-199-A_(DSBCDUP03_04).pdf	DSBCDUP04D	457	\$2,990.00
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RFI PARTS		Description	Full Description	Nomenclature	APC	Price
		DUPLEXER, 806-825 & 851-870MHZ, 500W, PIM & PIP RATED	RFI PART#: DP8086-0805-32-WB-HP SPEC SHEET LINK: TBD	DSDP8086080532WHP	457	\$3,329.00

900 MHz DUPLEXERS

COMBILIENT PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER 06 1 CHANNEL 900 MHZ	COMBILIENT # - CP01011 SPEC SHEET LINK - https://www.combilient.com/fileadmin/user_upload/documents/MSI_products/Duplex06_900_MHz_October_2013.pdf	DSCP01011	457	\$4,370.00
900 MHZ TWO CHANNEL DUPLEXER	TXRX PART#: CP01031 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP01031	457	\$5,750.00
DUPLEX05 2CH 900MHZ DUAL CHANNEL DUPLEXER 900 MHZ	COMBILIENT # - CP01009 SPEC SHEET LINK - https://www.combilient.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01009	457	\$5,750.00
DUPLEXING SYSTEM, 900 MHZ, RX: 896-902 MHZ / TX: 935-941 MHZ, 2 CHANNE	COMBILIENT PART#: CP06412 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06412	457	\$5,750.00
DUPLEXING SYSTEM, 900 MHZ, RX: 896-902 MHZ / TX: 935-941 MHZ, 1 CHANNE	COMBILIENT PART#: CP06413 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06413	457	\$4,370.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX AC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201_A_(DSBCDUP05_06).pdf	DSBCDUP05A	457	\$4,658.00
DUPLEX05 2 CHANNEL DUPLEXER 896-902MHZ RX 935-941TX DC PWR	DBSPECTRA # - SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-201_A_(DSBCDUP05_06).pdf	DSBCDUP05D	457	\$4,658.00
DSD906M, 896-969MHZ, 4MHZ PB NOTCH MBL DPLXR, 50 WATT	DBSPECTRA # - DSD906M SPEC SHEET LINK - http://www.dbspectra.com/specifications/096000-063_E_(DSD706M_DSD806M_DSD906M).pdf	DSDSD906M	457	\$863.00
DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 90MHZ RX 935 941MHZ TX AC PWR	DBSPECTRA PART#: BCDUP06A SPEC SHEET LINK* www.dbspectra.com/specifications/Motorola/096000-201_A_(DSBCDUP05_06).pdf	DSBCDUP06A	457	\$3,835.00
DUPLEX06 SINGLE CH DUPLEXER RX AMP 896 90MHZ RX 935 941MHZ TX DC PWR	DBSPECTRA PART#: BCDUP06D SPEC SHEET LINK* www.dbspectra.com/specifications/Motorola/096000-201_A_(DSBCDUP05_06).pdf	DSBCDUP06D	457	\$3,835.00

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
SINGLE CHANEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATOR AC	TXRX # 26-94D-01-01 SPEC SHEET LINK - http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0101	457	\$4,140.00
TWO CHANNEL 900 MHZ AMPLIFIED DUPLEXER W/INPUT ISOLATORS AC	TXRX # 26-94D-01-02 SPEC SHEET LINK - http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex05%20Spec%20Sheet.pdf	DS2694D0102	457	\$4,140.00

UHF Duplexers

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER SYSTEM, SINGLE CHANNEL, 450-470, TX WITH ISOLATORS	TXRX# - 26-70-01-01 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 456-469MHZ RX, 451-464MHZ TX, W/ ISOLATORS	TXRX# - 26-70-01-02 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex02B%20Data%20Sheet.pdf	DS26700102	457	\$4,600.00
DUPLEXER SYSTEM, SINGLE CH, 386-419MHZ RX, 381-414MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-01 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0101	457	\$4,600.00
DUPLEXER SYSTEM, TWO CH, 386-419 MHZ RX, 381-414 MHZ TX, W/ ISOLATORS	TXRX# - 26-56C-01-02 SPEC SHEET LINK: http://btgmotorola.securesites.com/Compact%20Duplexers/Motorola%20Duplex01A%20Data%20Sheet.pdf	DS2656C0102	457	\$4,600.00
DUPLEX01B-420 - DUAL CHANNEL DUPLEXER 420 MHZ	TXRX PART#: CP06445 SPEC SHEET LINK: https://www.combilient.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05445	457	\$5,750.00
DUPLEX01B-450 - DUAL CHANNEL DUPLEXER 450 MHZ	TXRX PART#: CP04491 SPEC SHEET LINK: https://www.combilient.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP04491	457	\$5,750.00
DUPLEX01B-480 - DUAL CHANNEL DUPLEXER 480 MHZ	TXRX PART#: CP06446 SPEC SHEET LINK: https://www.combilient.com/fileadmin/user_upload/documents/MSI_products/DS20398-4.pdf	DSCP05446	457	\$5,750.00
1 CHANNEL DUPLEXER 450 MHZ	TXRX PART#: CP06405 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06405	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06408 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06408	457	\$5,750.00
DUPLEXING SYSTEM, 450-470 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06409 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06409	457	\$5,750.00
DUPLEXING SYSTEM, 480-512 MHZ, 2 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06410 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06410	457	\$5,750.00
DUPLEXING SYSTEM, 450-470 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06411 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06411	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 7/16 AN	TXRX PART#: CP06423 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06423	457	\$4,370.00
DUPLEXING SYSTEM, 380-420 MHZ, 1 CHANNEL, INPUT ISOLATORS, AC, 4.3-10	TXRX PART#: CP06424 SPEC SHEET LINK: https://drive.google.com/file/d/1wu-rdYBEgPQ2T1DfzYknjHrW8kAh/view?usp=sharing	DSCP06424	457	\$4,370.00
UHF MOBILE DUPLEXER 406-500 MHZ	TXRX PART#: CP10725UNTUNED SPEC SHEET LINK: https://drive.google.com/file/d/1zXS5-3pS5CFJGk2LOk6B859WJy2fPJ/view?usp=sharing	DSCP10725TUNED	457	\$391.00
UHF MOBILE DUPLEXER 406-500 MHZ	TXRX PART#: CP10725UNTUNED SPEC SHEET LINK: https://drive.google.com/file/d/1zXS5-3pS5CFJGk2LOk6B859WJy2fPJ/view?usp=sharing	DSCP10725UNTUNED	457	\$368.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER BANDPASS 380-400MHZ, 5MHZ, BW, 5MHZ GB, 300W	RFI PART#: DP3840-0807-32 SPEC SHEET LINK: https://drive.google.com/file/d/1gGukQXf8oLRQcVZjHkre4AFcibcqAT/view	DSDP3840080732	351	\$3,415.00
DUPLEXER BANDPASS, 450-470MHZ, 110W, 1.5MHZ BW	RFI PART#: DP4547-0811-32 SPEC SHEET LINK: TBD	DSDP4547081132	457	\$3,752.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
DUPLEXER, 370-410MHZ BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-380 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404380	457	\$3,307.00
406-420MHZ DUPLEXER, BANDPASS/BANDREJECT	DBSPECTRA # - DSD404-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404406	457	\$3,307.00
DSD404-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 3MHZ OR 5MHZ	DBSPECTRA # - DSD404-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404450	457	\$1,719.00
470-512MHZ DUPLEXER	DBSPECTRA # - DSD404-470 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD404470	457	\$3,307.00
370-410MHZ DUPLEXER ASSEMBLY	DBSPECTRA # - DSD406-380 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406380	457	\$2,294.00
370-470MHZ DUPLEXER	DBSPECTRA # - DSD406-406 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406406	457	\$4,046.00
DSD406-450, 450-470MHZ LOW COST BANDPASS REJECT DUPLEXER, 5MHZ SEP	DBSPECTRA # - DSD406-450 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSD404.pdf	DSDSD406450	457	\$2,179.00
UHF 450-512 MHZ MOBILE DUPLEXER TUNED	DBSPECTRA # - DSD406M SPEC SHEET LINK: www.dbspectra.com/specifications/VHF-UHF_DSD106M_DSD406M.pdf	DSDSD406M	457	\$661.00
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA # - BCDUP01AA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01AA	457	\$6,210.00
450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY AC PWR	DBSPECTRA # - BCDUP01BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BA	457	\$6,210.00

450-470MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA PART#: BCDUP01BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BD	457	\$6,210.00
2 POST RACK ADAPTER KIT FOR SINGLE AND 2 CH HYBRID DUPLEXER SYSTEMS	DBSPECTRA # - BCDUP01BRCKT SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-197_A_(DSBCDUP01_02).pdf	DSBCDUP01BRCKT	457	\$440.00
450-470MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA PART#: BCDUP02BA SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP02BA	457	\$4,485.00
470-512MHZ, SINGLE CH DUPLEX SYSTEM AC POWER	DBSPECTRA PART#: BCDUP02CA SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP02CA	457	\$6,210.00
380-430MHZ 2 CH DUPLEX/HYV COMB/RX AMP & SPLITTER SINGLE TRAY DC PWR	DBSPECTRA PART#: BCDUP01AD SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP01AD	457	\$6,210.00
380-430MHZ SINGLE CH DUPLEXER/RX AMP AC POWER	DBSPECTRA PART#: BCDUP02AA SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP02AA	457	\$5,753.00
380-430MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA PART#: BCDUP02AD SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP02AD	457	\$5,753.00
450-470MHZ SINGLE CH DUPLEXER/RX AMP DC POWER	DBSPECTRA PART#: BCDUP02BD SPEC SHEET LINK: www.dbspectra.com/specifications/(BCDUP01_02).pdf	DSBCDUP02BD	457	\$5,753.00

VHF Band Duplexers

Description	Full Description	Nomenclature	APC	Price
DUPLEXING SYSTEM,137-174 MHZ 1 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0101	457	\$11,330.00
DUPLEXING SYSTEM 137-174 MHZ 2 CHANNEL INPUT ISOLATORS AC	TXRX # - 26-36H-01-02 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS2636H0102	457	\$15,539.00

Description	Full Description	Nomenclature	APC	Price
NOTCH DUPLEXER, 145-175MHZ, 150W	RFI # - DP1417-9262-33 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/DPXXXX-9262-33_P-42353-2.pdf	DSDP1417926233	457	\$2,671.00

Description	Full Description	Nomenclature	APC	Price
DB4059, 148-174 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059	457	\$3,623.00
DB4059-A, 136-150 MHZ BANDPASS REJECT DUPLEXER	DBSPECTRA # - DB4059-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4059.pdf	DSDB4059A	457	\$3,623.00
DUPLEXER, BANDPASS/REJECT, 154-174MHZ SINGLE CHANNEL APPLICATION,	DBSPECTRA # - DB4060-WC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WCC	457	\$5,842.00
DUPLEXER, BANDPASS/REJECT, 138-144MHZ SINGLE CHANNEL APPLICATION	DBSPECTRA # - DB4060-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOC	457	\$3,235.00
DB4060-WOC-B, 143-156 MHZ BANDPASS REJECT DUPLEXER, 4 CAVITY	DBSPECTRA # - DB4060-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOCB	457	\$4,162.00
DUPLEXER, BANDPASS/REJECT, 143-156MHZ, 154-174MHZ SINGLE CHANNEL APPLI	DBSPECTRA # - DB4060-WOC-BC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOCBC	457	\$3,235.00
DB4060-WOC-C, 154-174 MHZ BANDPASS REJECT DUPLEXER W/OUT CABINET	DBSPECTRA # - DB4060-WOC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4060WOC	457	\$3,235.00
DB4062-WOC-A, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 138-144MHZ	DBSPECTRA # - DB4062-WOC-A SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOC	457	\$6,325.00
DB4062-WOC-B, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 143-156MHZ	DBSPECTRA # - DB4062-WOC-B SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOCB	457	\$6,325.00
DB4062-WOC-BC,6CAV BPASS/BREJECT DPLXR W/OUT CAB,143-156MHZ,154-174MHZ	DBSPECTRA # - DB4062-WOCBC SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOCBC	457	\$6,325.00
DB4062-WOC-C, 6 CAV BANDPASS/BANDREJECT DUPLEXER W/OUT CAB, 154-174MHZ	DBSPECTRA # - DB4062-WOC-C SPEC SHEET LINK: http://www.dbspectra.com/specifications/DB4060.pdf	DSDB4062WOC	457	\$6,325.00
SINGLE CHANNEL BANDPASS/BANDREJECT DPLXR USING FOUR 5'CAVITIES 148-174 DSD106M, 160-170MHZ VHF MOBILE DUPLEXER	DBSPECTRA # - DSD106M SPEC SHEET LINK: TBD	DSDSD106M	457	\$3,418.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA PART#: BCDUP07BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP07BA	457	\$12,133.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA PART#: BCDUP07BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP07BD	457	\$12,363.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, AC 138-150MHZ	DBSPECTRA PART#: BCDUP07AA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP07AA	457	\$14,749.00
2 CH DUPLEXER/HYB COMB/RX AMP AND SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA PART#: BCDUP07AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP07AD	457	\$11,500.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC, 138-150MHZ	DBSPECTRA PART#: BCDUP08AA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP08AA	457	\$10,324.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 138-150MHZ	DBSPECTRA PART#: BCDUP08AD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP08AD	457	\$10,324.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, AC 150-174MHZ	DBSPECTRA PART#: BCDUP08BA SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP08BA	457	\$11,443.00
SINGLE CH DUPLHYB COMB/RX AMP & SPLITTER, SINGLE TRAY, DC 150-174MHZ	DBSPECTRA PART#: BCDUP08BD SPEC SHEET LINK: www.dbspectra.com/specifications/BCDUP07_VHF_138-174_MHz.pdf	DSBCDUP08BD	457	\$8,050.00

EDG 4200 SMART GATEWAY MODEM

Description	Full Description	Nomenclature	APC	Price
CBRS, FNN, PUBLIC CARRIER, B8, NB-1	EDG 4200 - L8N	TT3781	503	\$1,413.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (5) CELL ANTENNAS, (1) GPS ANTENN B8, PUBLIC CARRIER, NB-IOT, WI-FI C	EDG 4200 - ACCESSORIES L8N	DDN3185A	503	\$219.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (3) CELL ANTENNAS, (2) WIFI ANTEN	EDG 4200 - 8NW	TT3782	503	\$1,263.00
CBRS, FNN, PUBLIC CARRIER, WI-FI CO	EDG 4200 - ACCESSORIES 8NW	DDN3186A	503	\$179.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (2) CELL ANTENNAS, (1) WIFI ANTEN	EDG 4200 - LW	TT3783	503	\$1,188.00
B8, PUBLIC CARRIER, WI-FI COMPUTING	EDG 4200 - ACCESSORIES LW	DDN3188A	503	\$149.00
(1) POWER SUPPLY, (1) POWER ADAPTER, (2) CELL ANTENNAS, (1) WIFI ANTEN	EDG 4200 - 8W	TT3784	503	\$1,188.00
	EDG 4200 - ACCESSORIES 8W	DDN3189A	503	\$149.00

ASTRO 25 Edge Availability

Description	Full Description	Nomenclature	APC	Price
EDGE CONTROLLER SERVER	Requires CA03120AA, CA03120AB or CA03120AC or CA03120AD	SQM01SUM0299	424	\$20,000.00
ADD: EDGE CONTROLLER BASE SOFTWARE	Required option for A7.17.x systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen9 Edge Controller Server.	CA03120AA	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW A7.18	Required option for A7.18 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server.	CA03120AB	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2019.2	Required option for A2019.2 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server.	CA03120AC	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2020.1	Required option for A2020.1 and A2020.HS systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server.	CA03120AD	877	\$45,000.00
ADD: EDGE CONTROLLER BASE SW 2021.1	Required option for A2021.1 systems. Only supports subsystems with 1 RF Site max. and 1 Dispatch Site max. Includes Gen10 Edge Controller Server.	CA03120AE	877	\$45,000.00
ADD: EDGE CONTROLLER MULTI-SITE SW	For subsystems with more than 1 RF Site or more than 1 Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.00

Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC TRANSCODER	For ASTRO System Release 7.17.x (Requires MULTI-SITE SW CA03121AA)	CA03122AA	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A7.18	For ASTRO System Release 7.18. (Requires MULTI-SITE SW CA03121AA)	CA03122AB	877	\$20,000.00
ADD: DYNAMIC TRANSCODER A2019.2+	For ASTRO System Release 2019.2, A2020.1, A2020.HS or A2021.1 (Requires MULTI-SITE SW CA03121AA)	CA03122AC	877	\$20,000.00
Software Add-ons				
Description	Full Description	Nomenclature	APC	Price
ADD: EDGE CONTROLLER MULTI-SITE SW	For subsystems with more than 1 RF Site or more than 1 Dispatch Site. Base SW (CA03120xx also required.)	CA03121AA	877	\$30,000.00
Spares				
Description	Full Description	Nomenclature	APC	Price
FRE: EDGE AVAILABILITY G10 SERVER	Spare G10 Edge Server	DLN8029	877	\$25,000.00
G10 SERVER SW WITH ESXI 6.5 LICENSE	Order with DLN8029A when replacing a G9 Server in a A7.18 System	T8750	877	\$0.00
1.2 TB HARD DRIVE	For G9 and G10	DLN6942	454	\$1,750.00
FRU: DL380 G9 DVD DRIVE	For G9 and G10	DLN6971	454	\$228.00
DL 380 G9 ETHERNET CARD	For G9 and G10	DLN7018	61	\$550.00

EVOLVED PACKET GATEWAY (EPG)

New System Order Guidelines

Description	Full Description	Nomenclature	APC	Price
EPG SERVING AND PACKET GW 5K IP SESSIONS BUNDLE	-	TT2710	53	\$710,430.00
EPG SERVING AND PACKET GW 10K IP SESSIONS BUNDLE	-	TT2711	53	\$766,290.00
EPG SERVING AND PACKET GW 25K IP SESSIONS BUNDLE	-	TT2712	53	\$794,290.00
EPG SERVING AND PACKET GW 50K IP SESSIONS BUNDLE	-	TT2713	53	\$811,430.00
EPG SERVING AND PACKET GW 100K IP SESSIONS BUNDLE	-	TT2714	53	\$840,000.00
EPG SERVING AND PACKET GW 250K IP SESSIONS BUNDLE	-	TT2700	53	\$954,420.00
EPG SERVING AND PACKET GW 500K IP SESSIONS BUNDLE	-	TT2701	53	\$1,074,290.00
EPG SERVING AND PACKET GW 1M IP SESSIONS BUNDLE	-	TT2702	53	\$1,480,000.00

Existing System Capacity Expansion Guidelines

Description	Full Description	Nomenclature	APC	Price
EPG HW/SW FROM 5K TO 10K IP SESSIONS	-	TT05853AA	53	\$77,140.00
EPG HW/SW FROM 10K TO 25K IP SESSIONS	-	TT05854AA	53	\$81,000.00
EPG HW/SW FROM 25K TO 50K IP SESSIONS	-	TT05855AA	53	\$85,050.00
EPG HW/SW FROM 50K TO 100K IP SESSIONS	-	TT05856AA	53	\$89,300.00
EPG HW/SW FROM 100K TO 150K IP SESSIONS	-	TT05857AA	53	\$89,300.00
EPG HW/SW FROM 150K TO 250K IP SESSIONS	-	TT05858AA	53	\$98,230.00
EPG HW/SW FROM 250K TO 350K IP SESSIONS	-	TT05859AA	53	\$98,230.00
EPG HW/SW FROM 350K TO 500K IP SESSIONS	-	TT05860AA	53	\$125,300.00
EPG HW/SW FROM 500K TO 750K IP SESSIONS	-	TT05861AA	53	\$207,570.00
EPG HW/SW FROM 750K TO 1M IP SESSIONS	-	TT05862AA	53	\$207,570.00

Spares

Description	Full Description	Nomenclature	APC	Price
FAN TRAY, SSR	-	DDN1854	53	\$4,375.00
SWITCH PROCESSOR CARD, SSR	-	DDN1855	53	\$32,813.00
SWITCH ALARM CARD, SSR	-	DDN1856	53	\$16,406.00
10 X 10 GBIT ETH, SSR, USE XFP	-	DDN1857	53	\$67,500.00
SSR 8020 CHASSIS	-	DDN1858	53	\$87,500.00
PEM SSR - POWER SUPPLY SET	-	DDN1859	53	\$2,917.00
SWITCH CARD, SSR	-	DDN1860	53	\$9,844.00
SMART SERVICES CARD, SSR, WITH SSD	-	DDN1861	53	\$197,073.00
10G SM LR SSR, XFP	-	DDN1862	53	\$8,333.00

ASTRO® Digital APX Portable/Mobile Firmware

Description	Full Description	Nomenclature	APC	Price
APX MOBILE REFRESH	-	T7756	656	\$0.00
APX PORTABLE REFRESH	-	T7757	430	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD:APX PORTABLE SOFTWARE REFRESH	-	QA02912	655	\$95.00
ADD:APX MOBILE SOFTWARE REFRESH	-	GA00771	656	\$95.00

KVL 3000/KVL 3000PLUS MACE PCMCIA Upgrades

Models

Description	Full Description	Nomenclature	APC	Price
APX PCMCIA ENCRYPTION UPGRADE CARD	-	T7556	526	\$125.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AL	655	\$616.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$696.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$758.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$95.00

KVL 4000 MACE CD Upgrades

Models

Description	Full Description	Nomenclature	APC	Price
APX UCM UPGRADE CD	-	T7936	526	\$57.50

Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION SOFTWARE	-	CA00146AL	655	\$616.00
ADD: AES ENCRYPTION SOFTWARE	-	CA00182AR	655	\$696.00
ADD: ADP ENCRYPTION	-	CA00243AH	655	\$442.00
ADD: DES,DES-XL,DES-OFB	-	CA00840AK	655	\$758.00
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	655	\$95.00

FSA4000 and FSA4000 I/O

FEP (Front End Processor)

ACE Models:

No Radio:

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	85	\$1,260.00
FEP- Mandatory Firmware and Licenses				
ACE3600 FIRMWARE FOR FSA4000 V5.0	-	VA00161	117	\$0.00
ADD: 3 RD PARTY PROTOCOL LICENSE	One required for each RTU or FIU that uses the 3rd party protocol: ModBus, Allan Bradley.	V377	214	\$105.00
FEP- CPU Upgrades and Plug-ins				
ADD: PLUG-IN ETHERNET 10/100 M PORT	Fits only to port P11.	V212	85	\$111.00
ADD: PLUG-IN RS-232 PORT	-	V184	85	\$111.00
FEP- Battery and Charger				
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	85	\$301.00
OPTN,CHGR,ADD: AC PWR PS 100-240 V W/ BAT CHGR	-	V261	85	\$435.00
FEP- Rack Mounting 19"				
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	85	\$405.00
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	85	\$137.00
ADD: EXPANDED 19 CHAS	-	V269	85	\$242.00
FSA4000 AUX-I/O Only: Additional H/W is required for the FSA4000 I/O configuration.				
ADD: 16 DO ML RELAY 2A	-	V516	85	\$378.00
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	85	\$84.00

RTU (Remote Terminal Unit)

No Radio:

Description	Full Description	Nomenclature	APC	Price
ACE 3600 MAIN MODEL	Basic model. The model default includes PS 12V DC, CPU3640 and basic frame (no I/O slots).	F7509	85	\$1,260.00
CPU Upgrades and Plug-ins				
ADD: 10 AH BACKUP BATTERY	Fits only to large metal chassis and housing.	V328	85	\$301.00
DI and DO Modules (A 24V Floating reference may be required for your application.)				
ADD: 16 DI FAST 24V IEC TP2	16DI 24V DC per IEC 61131-2 Type 2	V117	85	\$210.00
ADD: 16 DO EE RELAY 2A	-	V616	85	\$363.00
24V FLOATING POWER SUPPLY	Adds 24V output to the I/O module for wetting and powering of sensors. Supports DI, AI, Mixed I/O and Mixed AI/AO modules. The 32 DI module can hold up to two PS, all other modules just one PS.	FPN1653	85	\$84.00

RTU- Frames & Housings and Rack Mount 19"

Description	Full Description	Nomenclature	APC	Price
ADD: 5 I/O SLOTS FRAME	Fits large 48 x 48cm metal chassis or 50 x 50 cm housing. May also be mounted in 19 in. rack with the V120 chassis and V051 mounting brackets.	V105	85	\$195.00
ADD: HOUSING TAMPER SWITCH	-	V224	85	\$95.00

Rack Mount 19"

Description	Full Description	Nomenclature	APC	Price
CAGE 2+8 I/O FOR EXPAN 19 CH	Includes chassis for mounting in a 19 in. rack. For 19 inch rack mount installation, V051 brackets must be ordered separately, otherwise wall mount clips will be included. Does not provide mounting room for radio, battery or other accessories; if that space is needed order V269.	V108	85	\$405.00
19 ADJUSTABLE INSTAL BRACK	One is required for rack mounting the V103 (3 I/O slot frame), V105 (5 I/O slot frame), V107 (7 I/O slot frame), VA00433 (redundancy frame) and V108 (8 I/O slot frame). One is also required for rack mounting the V269 (19 in. accessory metal chassis). The V102 (2 I/O slot frame) is not mountable in a 19 in. rack.	V051	85	\$137.00
ADD: EXPANDED 19 CHAS	-	V269	85	\$242.00

ACT (Audio Control & Tone Module)

Description	Full Description	Nomenclature	APC	Price
ADD: ACT MODULE FOR ACE3600	-	V155	85	\$630.00

FSA4000 System Software & Licenses

Description	Full Description	Nomenclature	APC	Price
FSA4000- FSA Application & Configuration S/W	-	-	-	-
Ver9 - A7.13; Ver7 - A7.11; Ver6 - A7.9; Ver5 - A7.8; Ver4 - A7.7; Ver3 - A7.6; Ver2 - A7.5; Ver1 - A7.4	-	-	-	-
FSA4000 CONFIGURATION APPLICATION S/W & DOC. V7	-	F5589	382	\$20,000.00
FSA4000- Licenses:	-	-	-	-
FSA4000 CONFIGURATION APPLICATION S/W UPGRADE TO V7	-	F5580	382	\$10,000.00

Accessories for FSA4000

Description	Full Description	Nomenclature	APC	Price
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00
CABLE, MODEM 3M W/ADAPTER EPP	One is required per server with paging option.	FLN6458	454	\$48.00

Terminal Blocks and Cables

Description	Full Description	Nomenclature	APC	Price
ADD: 40 WIRE CABLE W/ TB HOLDER 3 M	3 meter numbered cable with connector. Fits 32DI, 32DO/DI, 16AI, 16DO, Mixed I/O, 8AI/4AO, and 8DO-SBO.	V358	85	\$171.00
ADD: 20 WIRE CABLE W/ TB HOLDER 3 M	3 meter color-coded cable with connector. Fits 16DI, 16DO/DI, 8AI, 8DO, and 4AO.	V253	85	\$111.00

Printers

Description	Full Description	Nomenclature	APC	Price
HP LASERJET PRINTER CP3525DN 110V	Current certified model for printing within all Network Management applications.	DLN6692	877	\$4,500.00
HP LASERJET PRINTER CP3525DN 220V	Current certified model for printing within all Network Management applications.	DLN6691	424	\$4,500.00

Radio Installation Kits (for the Second / Voice radio) in the ACE3600

Description	Full Description	Nomenclature	APC	Price
XTL5000/2500 ANALOG INSTALLATION KIT	-	FLN3640	85	\$394.00
XTL5000/2500 DIGITAL INSTALLATION KIT	-	FLN3649	85	\$286.00
CM200/CM140/EM200/GM3188 INSTALLATION KIT	-	FLN3635	455	\$335.00
HT750/GP320/328/PRO5150 INSTALLATION KIT	-	FLN3637	85	\$412.00
CDM750 INSTALLATION KIT	-	FLN3638	85	\$329.00
ADD-ON RADIO PORT (GRI)	Kit includes screws and spacers.	FLN3696	85	\$121.00

InTouch Software

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME 60K TAG W/I/O, V10.1, LIC ONLY	-	TT2176	708	\$10,900.00
INTOUCH RUNTIME 60K TAG W/O-I/O, V10.1, LIC ONLY	-	TT2177	708	\$8,700.00
INTOUCH DEVELOPMENT 60K TAG, V10.1, LIC ONLY	-	TT2180	708	\$18,700.00
UPGRADE, INTOUCH DEV 60K TAG PRE-V10.0 TO V10.1, LIC ONLY	-	TT2182	708	\$11,300.00
UPGRADE, INTOUCH DEV 60K TAG V10.0 TO V10.1, LIC ONLY	-	TT2183	708	\$0.00

UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2184	708	\$5,500.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITH I/O, V10.0 TO V10.1, LIC ONLY	-	TT2185	708	\$0.00
UPGRADE, INTOUCH RUNTIME 60K TAG WO I/O, PRE-V10.0 TO V10.1, LIC ONLY	-	TT2186	708	\$4,400.00
UPGRADE, INTOUCH RUNTIME 60K TAG WITHOUT I/O, V10.0 TO V10.1, LIC ONLY	-	TT2187	708	\$0.00

InTouch v10.0 (Used in Version 2 & 3 & 4 - A7.5 & A7.6 & A7.7)

Description	Full Description	Nomenclature	APC	Price
INTOUCH RUNTIME WITH I/O V10.0 SW	-	TT2032	708	\$10,900.00
INTOUCH RUNTIME W/O I/O V10.0 SW	-	TT2033	708	\$8,700.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED V10.0 SW	-	TT2034	708	\$18,700.00
INTOUCH RUNTIME WITH I/O UPGRADE TO V10.0	-	TT2035	708	\$5,500.00
INTOUCH RUNTIME WITHOUT I/O UPGRADE TO V10.0 SW	-	TT2036	708	\$4,400.00
INTOUCH DEVELOPMENT STUDIO UNLIMITED UPGRADE TO V10.0 SW	-	TT2037	708	\$11,300.00
SCADALARM PAGING WITH MODEM V6.0	-	TT1964	708	\$3,750.00

GCM 8000 Comparator

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	-	T7321	112	\$5,000.00

Description	Full Description	Nomenclature	APC	Price
GCM 8000 COMPARATOR	Number of modules inside the GCM chassis can be 1 or 2 depending on the application.	CA01183AA	112	\$2,500.00

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 2021.1	-	CA03678AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03677AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION	Trunking comparator software	CA01185AA	595	\$11,500.00
ADD: TRUNKING REDUNDANT COMPRTR SW	-	CA01974AA	595	\$1,500.00
ADD: P25 TDMA COMPARATOR SOFTWARE	-	CA01901AA	595	\$16,000.00
ADD: SOFTWARE LICENSE SINGLE EXPANSION PORT	-	CA01914AA	595	\$1,350.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GCP 8000 Site Controller

Description	Full Description	Nomenclature	APC	Price
GCP 8000 / GPB 8000 / XHUB / DSC HUB	-	T7038	112	\$3,000.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00

System Release Options

(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: CIRCUIT BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA00025AG	595	\$62,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE	-	CA01194AA	595	\$69,500.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00

Remote Site Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SMLCST RXO RMT SITE LIC IV&D	-	CA03006AA	595	\$2,000.00
ADD: SMLCST RX RMT ST LIC IV&E+DATA	-	CA03005AA	595	\$5,000.00
ADD: SMLCST RX RMT ST LIC VOICE ONLY	-	CA03007AA	595	\$0.00
ADD: SMLCST RMT ST LIC IV&D+ENH DATA	-	CA03004AA	595	\$7,000.00
ADD: GEO-REDUN BACK-UP SC LIC	-	CA02474AA	595	\$0.00

Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Reference Distribution Modules/Expansion Hub Modules

Description	Full Description	Nomenclature	APC	Price
ADD: DSC HUB	-	CA03737AA	677	\$3,500.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00
ADD : XHUB STANDALONE	-	CA00884AB	112	\$2,000.00
Reference Distribution Module Software				
ADD: RDM SW FOR RX ONLY	-	CA01537AC	595	\$1,000.00
Rack Mount Hardware				
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
CE Label				
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Field Replacement Units (FRUs)				
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: DSC HUB	-	DLN6803S	677	\$3,500.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GENWATCH3-ATIA (Multi-Site)

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA BASE SOFTWARE BUNDLE	Includes: 1.MAIN GenSZAI Reader - Reader module resides on a PC at the zone controller to receive the ATIA stream UDP packet from the zone controller and passes them on to GW3. 2.MAIN GenSZAI DataProc - co-resides with the Database server at the Network Ops Center to process the ATIA stream from the Reader. 3.MAIN GenSZAI Database Server - Database Server module co-resides with the DataProc at the Network Ops Center to store the decoded ATIA stream from the DataProc. The ATIA data stream ordered independently. Professional installation services must be ordered from GenCore Candeco (1047777 - aka Genesis) via Tigers for ALL GenWatch3-ATIA based solutions purchased. Please contact Kelley Clarida kclarida@genesisworld.com for any professional services quotations	TT2234	708	\$51,480.00

Fielded GW3-ATIA Model (TT2266)				
Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA ADD-ON	ONLY valid with a licensed copy of GenWatch3 software. This is a zero dollar model used for adding on options after purchasing GenWatch3 license. This model ordered alone includes NOTHING.	TT2266	708	\$0.00

Step 2: Order Additional Zones (or DSR) GW3-ATIA Software if required				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE FOR ADDITIONAL GENWATCH3 ATIA ZONES OR DSR	Additional Zone (or DSR) GenWatch-ATIA Software * Requires (1) per DSR or additional zone	TT05394AA	708	\$25,750.00

Step 3: Order GW3-ATIA "Optional Enhancements" if desired				
Description	Full Description	Nomenclature	APC	Price
GW3-ATIA CLIENT LICENSES (SOLD IN GROUPS OF 5)	sold in packs of 5	TT05417AA	708	\$6,600.00

GenWatch3 Data Warehouse - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA WAREHOUSE SOFTWARE	Data Warehouse for long term storage	TT06065AA	708	\$15,840.00

Centralized Manager of Agency Filters (CMAF) - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
ADD: CMAF - CENTRALIZED MANAGER FOR AGENCY FILTERS	Centralized Manager for Agency Filters Allows system owners to filter data to be sent to member agencies for monitoring, management, archiving and reporting. This includes the capability for creating ONE filter.	TT06063AA	708	\$7,200.00
ADD: CMAF - ADDITIONAL FILTERS	Allows ONE additional Filter to be created.	TT06064AA	708	\$2,160.00

Genesis ATIA Forwarder Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
GW3-ATIA FORWARDER FOR FIRST ZONE	ATIA Forwarder allows the forwarding of unaltered, native ATIA data to additional devices - either inside or outside of the CEN.	TT05704AA	708	\$6,600.00
GW3-ATIA FORWARDER FOR ADD-ON ZONES	Additional ATIA Forwarder per zone.	TT05705AA	708	\$3,300.00

Genesis ATIA Replay Enhancement - (Optional Enhancement)
 Genesis ATIA Replay make it possible to revisit chosen moments in time, as selected from data sets in the SQL database. ATIA Replay provides a look back to specified moments in time. Rewind, fast-forward, loop, pause, speed up, or slow down the action.

Description	Full Description	Nomenclature	APC	Price
ADD: ATIA REPLAY SOFTWARE	ATIA Replay - Replay Data Set from the GenWatch database through the Activity and Channel Screens in GW3 and SkyViewII. **Must run on a separate GW3 Computer**	TT06133AA	708	\$16,500.00

Genesis SAM (CloneWatch) Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
SAM - SUBSCRIBER ACCESS MANAGER	Optional module for GW3. Dynamically find and show radios suspected of being cloned.	TT05415AA	708	\$12,540.00

GenSPOut (Genesis Specified Packet Output) Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
GW3 GENSPOUT - 1-WAY DATA FEED FROM GW3 TO OTHER DEVICES	Allows a customizable data feed from GenWatch3 to other devices such as voice recorders, consoles, etc. This is a one way data feed via TCP/IP, COM, etc. Includes (1) connection.	L3580	708	\$6,360.00
ADD: GENSPOUT - ADDITIONAL CONNECTIONS	Additional licensed connections for GenSPOut.	TT06067AA	708	\$1,320.00

GenWatch3 iVista Web-Based Agency Reporting - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
IVISTA WEB BASED AGENCY REPORTING	iVista Web-based Agency Reporting Tool allows Administrator to filter data by Agency so member agencies can run their own reports. Includes Administrator package + (1) Agency Filter.	TT05679AA	708	\$13,860.00
IVISTA ADDITIONAL AGENCY FILTER	iVista Web-based Agency Reporting Tool - Additional Agency Filters. Must have ordered TT05679AA previously.	TT05680AA	708	\$4,620.00

GenWatch3-DATA: IV&D and Enhanced Data Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
GGSN INTEGRATION	Archiving and Reporting for Motorola IV&D.	TT05628AA	708	\$12,000.00
GENESIS ENHANCED DATA ADD-ON	Genesis Archiving and Reporting Tool for Enhanced Data statistics (requires existing TT2233, TT05414AA or TT05628AA)	TT05757AA	708	\$12,000.00

Genesis UEM Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
UEM-NBI ENHANCEMENT	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. This is ordered independently. Qty 1 must be ordered per NBI connected to GenWatch3*	TT05630AA	708	\$33,000.00
UEM-NBI INTEGRATION ADDITIONAL LICENSES	UEM Data Archiving, Reports, and Live Display (alarm & event integration) *The NBI must be enabled. After Qty 1 of TT05630AA is ordered, subsequent NBI are licensed using TT05678AA	TT05678AA	708	\$16,500.00

Genesis Location Services - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
MUPS-OLS INTEGRATION	MUPS Archiving, Reports, and Live Display (outdoor location/GPS integration) *The MUPS must be enabled. This is ordered independently. Qty 1 must be ordered per MUPS connected to GenWatch3*	TT05629AA	708	\$45,600.00
ADD: ADDITIONAL MUPS/UNS ARCHIVING, REPORTING, LIVE DISPLAY	Requires one IMM Connection per additional zone and/or DSR.	TT06090AA	708	\$22,800.00

GenWatch3 CADI Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
OPTION.ADD: GENESIS INTERFACE TO ASTRO 25-CADI	Integrates with ASTRO 7.x CADI Port and serves as a full CAD client for sending radio commands (Selective Radio Inhibit, Radio Check, Regroup, Database Snapshot, Call Alert, Emergency ACK, Statuses and Messages). Replicates the 7.x CADI Port seamlessly to multiple agencies with filtering available via GW3. Comes with (1) CADI Connection. **Requires one CADI Connection per primary zone**.	TT05878AA	708	\$32,340.00
OPTION.ADD: GENESIS INTERFACE TO ASTRO 25-CADI ADD CADI CONNECTIONS	Additional CADI Client Connections.	TT05879AA	708	\$4,620.00

Advanced Power Monitor (APM) Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price

ADV PWR MONITOR LIC	GenWatch3 displays and reports power levels at user-defined intervals from the APM. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05721AA	817	\$3,300.00
ADV PWR MONITOR ADD CONN	Include a connection to the APM to receive current power levels at user-defined intervals. **Requires one connection license per APM**.	TT05722AA	817	\$264.00
Genesis Provisioning Manager Interface (PMI) Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
PROVISIONING PORTAL BUNDLE	The Genesis PMI Enhancement makes it possible for simple remote provisioning on the Motorola Provisioning Manager Interface and synchronization with third party asset management and accounting software (with the addition of GENIIB) **NOTE: THIS DOES NOT INCLUDE ANY POSSIBLE MOTOROLA FEES THAT MIGHT BE NECESSARY TO ACTIVATE THE UCS PROVISIONING FEATURE IN THE SWITCH.	TT05697AA	708	\$70,200.00
Genesis Interoperability Information Broker (GenIIB) Enhancement - (Optional Enhancement)				
Description	Full Description	Nomenclature	APC	Price
ADD: GENESIS INTEROPERABILITY BROKER	GenIIB includes a programming API that can be used by third party external devices or software programs to pull live or stored information from the Genesis Databases and push customer driven information or instructions back to those systems and back into the database as well.	TT05880AA	708	\$39,600.00

Step 4: Choose GenWatch-ATIA Hardware
GW3-ATIA Base Hardware (TT05413AA)

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 ATIA BASE HARDWARE	1. Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 GHz, 4GB, SATA 500 GB 7200 RPM Hard Drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor, Windows Server OS, 3 Year Next Business Day Service 2. Rack Mount Data Processor / Database Server: Dell PowerEdge R720 server, Intel Xeon E5-2620 2.0 GHz, Ready Rails 2-post/4-post, RAID 6, 6x146GB Hard Drives, DVD-ROM, NO Keyboard, Mouse or Monitor, Window Server OS, MS SQL Server, 3 Year Next Business Day Service 3. GenWatch3-ATIA Host Computer: Dell Precision T3600, Quad Core Processor, 512MB Graphics Card, 6GB RAM, CD/DVD ROM, 500GB SATA Hard Drive, 23" flat panel monitor, Mouse, Keyboard, Windows OS, MS Office Basic, 3 Year Next Business Day Service	TT05413AA	708	\$39,016.00

GW3-ATIA Hardware for Additional Zones (or DSR)

Description	Full Description	Nomenclature	APC	Price
GW3-ATIA HARDWARE FOR ADDITIONAL ZONES OR DSR	Rack Mount Reader: Dell PowerEdge R210 II, Intel Pentium G850 2.9 GHz, 4GB, SATA 500 GB 7200 RPM Hard Drive, Ready Rails 2-post/4-post 1U Static Rails, DVD-ROM, NO Keyboard, Mouse or Monitor, Windows Server OS, 3 Year Next Business Day	TT05416AA	708	\$6,934.00

GW3-ATIA (GG) SECONDARY Data Processor and Database Server

Description	Full Description	Nomenclature	APC	Price
ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant RAID with 10k RPM HDD or SSD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$26,682.00

GW3-ATIA (GG) Data Warehouse

Description	Full Description	Nomenclature	APC	Price
ADD: GW3-ATIA (GG) DATA WAREHOUSE HARDWARE	GW3-ATIA MAIN DATA PROCESSOR / DATABASE SERVER Computer Includes - Rack Mount server, Intel Xeon E5-2640, 32GB RAM, Hardware RAID controller with write caching ability, 2 TB of available storage space in redundant RAID with 10k RPM HDD or SSD External USB Hard Drive for Back up, Versa Rails for Rack Mount, Dual Hot Pluggable, Redundant Power Supply, 5 Year Next Business Day Service Warranty ** Monitor is not included with server** Includes Required Software: Windows Server 2016, MS SQL Server 2016 and MS Excel 2016.	TT06066AA	708	\$26,682.00

GW3-ATIA Client Workstation

Description	Full Description	Nomenclature	APC	Price
GW3-ATIA CLIENT HARDWARE	GW3-ATIA Client Includes: Dual Core Processor, 8GB SDRAM Memory, CD/DVD-ROM, Minimum 160GB SATA, 7200 RPM Hard Drive, Native COM Port, Moitor, Sound plus basic speakers, Keyboard, Mouse, Modem, 5 Year Next Business Day Service Warranty, Includes Required Software: Windows 10 and MS Excel 2016.	TT05418AA	708	\$5,400.00

GENWATCH3-OTA (Single Site)

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE	GenWatch3-OTA Network Management Software Based Bundle.	TT2264	708	\$16,200.00

Fielded GW3-OTA Model (TT2265)

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR BASE ADD-ON	This should only be ordered to add features or capacity to an EXISTING GenWatch3-OTA solution.	TT2265	708	\$0.00

Step 2: Order System Control Channel Option

Step 3: Order Additional Site Monitoring if required

Description	Full Description	Nomenclature	APC	Price
CONCURRENT OR REDUNDANT SITE MONITORING	Maximum of 5 Systems Total	TT05154AA	708	\$2,640.00

Step 4: Order GenWatch3-OTA "Optional Enhancements" if desired

Description	Full Description	Nomenclature	APC	Price
AFFILIATION / DEAFFILIATION DISPLAY	Displays Affiliations and Deaffiliations. Search for and display current affiliation of a single ID or monitor affiliations by site and talkgroup.	TT05155AA	708	\$1,320.00
UPGRADE FROM (3) EXCEL REPORTS TO FULL SUITE (20+)	Upgrade From Limited Reports (3) to Full Suite of Excel Reports (20+)	TT05234AA	708	\$5,020.00
TRIGGER MONITOR	MONITORS ARRAY OF CONTROL CHANNEL ACTIVITY & ALERTS DESKTOP WITH SELECTED EVENTS	TT05217AA	708	\$2,245.00
SYSVISTA PERFORMANCE DASHBOARD	Overall dashboard view of your system from a graphical interface.	TT05160AA	708	\$1,980.00
ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - 9 GROUP DISPLAY LIMIT	Graphical interface that displays Talkgroup based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. Limit 9 Talkgroups displayed simultaneously.	TT05411AA	708	\$600.00
ACTIVITY AND EMERGENCY DISPLAY BY TALKGROUP - NO DISPLAY LIMIT	Graphical interface that displays Talkgroup based call activity, most recent activity for any open Talkgroup window, Emergency display, short term logging and alerts. No Limit to the number of Talkgroups displayed simultaneously.	TT05410AA	708	\$8,000.00
GW3-OTA UPGRADE 2 MO. TO 12 MO. ARCHIVING - REQUIRES MS SQL SERVER	Requires SQL Workgroups (included if order the L3561 PC)	TT05235AA	708	\$6,000.00
GW3 GENSPOUT - 1-WAY DATA FEED FROM GW3 TO OTHER DEVICES	-	L3580	708	\$6,360.00
ADD: GENSPOUT - ADDITIONAL CONNECTIONS	Additional licensed connections for GenSPOut.	TT06067AA	708	\$1,320.00
CLONEWATCH (DETECTING DUPLICATED RADIOS)	Dynamically find and show radios suspected of being cloned. *Only one instance can run on the GW3 Host.	TT05216AA	708	\$6,600.00
ADV PWR MONITOR LIC	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. Includes 5 APM Connection Licenses.	TT05721AA	817	\$3,300.00
ADV PWR MONITOR ADD CONN	GenWatch3 receives current power levels from the APM Device. The levels are shown as they are reported, and can be filtered and color-coded for easy viewing. ** Requires one connection license per APM.	TT05722AA	817	\$264.00

Step 5: Order Radio Command Management if required

Description	Full Description	Nomenclature	APC	Price
GENWATCH3 OVER-THE-AIR CLIENT LICENSE	Simultaneous Client Connections to the GenWatch3 Host Computer.	TT05409AA	708	\$6,900.00

Step 6: Choose GenWatch3-OTA Hardware

Description	Full Description	Nomenclature	APC	Price
GW3 OTA PC BUNDLE	Intel Pentium Quad Core Processor, 512MB Graphics, Dual Monitor Capable Graphics Card, 6GB SDRAM Memory, CD/DVD-ROM, 300GB SATA, 10K RPM Hard Drive, COM Port, 23 inch Flat Panel, Sound plus basic speakers, Keyboard, Mouse, External UPS, Modem, 3 Year Next Business Day Service Warranty, Includes Required Software: Windows OS, MS Office Basic, PC Anywhere	L3561	708	\$5,525.00
CLIENT WORKSTATION (THIS INCLUDES CPU, 20" MONITOR, SPEAKERS,	Specifications: Dual Core Processor, 8GB, SDRAM Memory, 300GB Hard Drive, Monitor, Keyboard, Mouse, 5 Year Next Business Day Service Warranty, Includes Required Software: Windows 10 and MS Excel 2016.	L3522	708	\$7,499.00
ROCKETPORT INCLUDES THE 16 PORT PC	For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561. Includes 16 Port PCI Card, Breakout Box (aka Brick), and Cable. For 3600 systems ordering L3553 or L3554, one must order L3523 to expand COMPORT capability of L3561.	L3523	708	\$2,484.00

GENESIS APX MODEM 700/800MHZ	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3624	708	\$14,300.00
GENESIS APX MODEM 900MHZ	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3625	708	\$14,300.00
GENESIS APX MODEM UHF R1	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3626	708	\$14,300.00
GENESIS APX MODEM UHF R2	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3627	708	\$14,300.00
GENESIS APX MODEM VHF	Motorola Solutions APX 6500 Radio Includes: Interfaces and connectors from radio to PC; Power Supply, mag mount antenna and Firmware for P25 system. NOT INCLUDED: Coax, UPS, and Installation. ORDER MUST CONTAIN OPERATING FREQUENCIES. PRICE INCLUDES GENESIS PROGRAMMING OF THE RADIO.	L3628	708	\$14,300.00
EXTERNAL ALARM RELAY BOX	WORKS WITH TRIGGER TO CLOSE RELAYS	TT05159AA	708	\$720.00

GPW 8000 Receiver

Description	Full Description	Nomenclature	APC	Price
GPW 8000 RECEIVER	-	T7540	112	\$1,000.00
Options				
Receiver Modules				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 GPW 8000 RECEIVER	-	X301AR	112	\$0.00
ADD: QTY 2 GPW 8000 RECEIVER	-	X302AR	112	\$800.00
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AB	112	\$3,200.00
ADD: VHF (136-174 MHZ)	-	X530BH	112	\$3,200.00
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 900 MHZ	-	CA01821AB	112	\$3,200.00
Operational Software				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	595	\$0.00
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	595	\$2,000.00
ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA01193AB	595	\$4,000.00
ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA00025AH	595	\$4,000.00
ADD: RX ANALOG CONV IP VOTING/SIMUL	-	CA03090AB	595	\$1,500.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	112	\$500.00
Two-Slot TDMA Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: DYNAMIC CHNL ASSIGNMENT RCVR SW	-	CA01902AB	595	\$5,500.00
ADD: P25 TDMA RCVR SOFTWARE	-	CA01842AB	112	\$7,000.00
Conventional Features				
Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	595	\$360.00
ADD: MAIN/STANDBY OPERATION	-	CA01955AB	595	\$135.00
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	595	\$150.00
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	595	\$0.00
Peripherals				
Description	Full Description	Nomenclature	APC	Price
ADD: NARROW PRESELECTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELECTOR, 150-174 MHZ	-	X265AM	112	\$500.00
ADD: NARROW PRESELECTOR 380-435 MHZ	-	X265AW	112	\$500.00
ADD: NARROW PRESELECTOR 435- 470 MHZ	-	X265AY	112	\$500.00
ADD: NARROW PRESELECTOR 470-512 MHZ	-	X265AZ	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00
ADD: RX SPLITTER	-	X465AB	112	\$250.00
Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
Cabinets				
Description	Full Description	Nomenclature	APC	Price
ADD: G-SERIES INDOOR CABINET 15 Rack Units	-	CA02446AA	112	\$1,250.00
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	\$1,600.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00

FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00
FRU: GTR ANALOG 4W E&M SIMULCAST KIT	-	DLN6821	112	\$250.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GRIP - Graphical Record I/Q and Playback

Main Model

Description	Nomenclature	Price
GRIP Upgrade	FDKT00311	\$23,300
GRIP Software	FSFW00072	\$20,000

GRV 8000 Comparator

Main Model

Description	Full Description	Nomenclature	APC	Price
GRV 8000 COMPARATOR	-	T8341	112	\$3,000.00

System Release

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA00719AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03677AA	595	\$0.00

Options

Comparator Modules

Description	Full Description	Nomenclature	APC	Price
ADD: COMPARATOR	-	CA03084AA	112	\$2,500.00

Software

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONV ONLY SW	-	CA01949AC	595	\$4,500.00
ADD: ASTRO 25 CONVENTIONAL SOFTWARE	-	CA03320AA	595	\$10,500.00

Conventional System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONV VOTING SW	-	CA01951AC	595	\$2,000.00
ADD: ANALOG CONV SIMULCAST SW	-	CA01952AC	595	\$3,000.00
ADD: DIGITAL CONV VOTING SOFTWARE	-	CA03316AA	595	\$2,000.00
ADD: DIGITAL CONV SIMULCAST SOFTWARE	-	CA03317AA	595	\$3,000.00

Conventional Enhancements

Description	Full Description	Nomenclature	APC	Price
WILDCARD w/GPIO	-	CA01954AB	595	\$360.00
ADD: GEO REDUNDANCY	-	CA03085AA	595	\$2,000.00
ADD: ANALOG SIDETALK-MDC MUTING	-	CA03086AA	595	\$48,000.00
ADD: DIGITAL SIDETALK	-	CA03616AA	595	\$54,000.00
ADD: ENCRYPTED SIDETALK	Only certified for system release 2019.2+ Only certified for system release 2019.2+. Requires Digital Sidetalk. CA03616AA.	CA03617AA	595	\$8,300.00
ADD: OTEK ENCRYPTION CAPABILITY	Only certified for system release 2019.2+. Requires Digital Sidetalk CA03616AA + Encrypted Sidetalk. CA03617AA.	CA03618AA	595	\$6,350.00
ADD: TRANSMITTER STEERING	Only certified for system release 2019.2+.	CA03619AA	595	\$10,000.00
ADD: HIGH SITE CAPACITY	-	CA03087AA	595	\$90,000.00
ADD: ENHANCED IP	-	CA03712AA	595	\$20,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

CE Label

Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00

Power Cables

Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00

Field Replacement Units (FRUs)

For spare GRV 8000 comparator modules, use DLN8028

Description	Full Description	Nomenclature	APC	Price
FRU: GRV MAIN MODULE	Replaces DLN6886A starting Q2, 2020	DLN8028	112	\$4,300.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

GRV 8000 Upgrades

Main Model

Description	Full Description	Nomenclature	APC	Price
GRV UPGRADES	-	T8730	595	\$0.00

Additional Features and Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: GRV SYSTEM REFRESH	-	CA03620AA	595	\$2,850.00
ADD: ANALOG TO DIG COMP UPGRADE	-	CA03318AA	595	\$6,000.00
ADD: GEO REDUNDANCY	-	CA03085AA	595	\$2,000.00
ADD: HIGH SITE CAPACITY	-	CA03087AA	595	\$90,000.00
ADD: ANALOG SIDETALK-MDC MUTING	-	CA03086AA	595	\$48,000.00
ADD: DIGITAL SIDETALK	-	CA03616AA	595	\$54,000.00
ADD: UPGRADE ANALOG TO DIGITAL SIDETALK	-	CA03621AA	595	\$6,000.00
ADD: ENCRYPTED SIDETALK	-	CA03617AA	595	\$8,300.00
ADD: OTEK ENCRYPTION CAPABILITY	-	CA03618AA	595	\$6,350.00
ADD: TRANSMITTER STEERING	-	CA03619AA	595	\$10,000.00
ADD: ENHANCED IP	-	CA03712AA	595	\$20,000.00
ADD: CONVENTIONAL COMPARATOR VOTING TO SIMULCAST UPGRADE	-	CA02213AA	595	\$1,000.00

G-series Hardware Upgrades

G-series Hardware Upgrades

Description	Full Description	Nomenclature	APC	Price
G-SERIES HARDWARE UPGRADES	-	T7614	112	\$0.00

Options

GTR 8000 Expandable Site Subsystem

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: GPB 8000 HIGH AVAILABILITY UPGRADE	-	CA01782AA	112	\$23,000.00
ADD:P25 SITE RPTR SW IV&D+ENH DATA	-	CA03001AA	595	\$14,500.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE IV&D	-	CA02219AA	595	\$12,900.00
ADD: ASTRO 25 SITE REPEATER SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA02212AA	595	\$7,500.00
ADD: 7/800 MHZ DUAL RX KIT 6 BRS	-	CA01915AA	112	\$700.00
ADD: 7/800 MHZ DUAL RX KIT 7-24 BRS	-	CA01916AA	112	\$2,100.00
ADD: 7/800 MHZ DUAL RX KIT EXP RMC	-	CA01923AA	112	\$600.00
ADD: UHF R2 DUAL RX KIT 6 BRS	-	CA01918AA	112	\$700.00
ADD: UHF R2 DUAL RX KIT 7-24 BRS	-	CA01919AA	112	\$2,100.00
ADD: UHF R2 DUAL RX KIT EXP RMC	-	CA01920AA	112	\$600.00
ADD: UHF R1/VHF DUAL RX KIT	-	CA01921AA	112	\$500.00
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00

GTR 8000 Standalone Base Radio Conventional

Description	Full Description	Nomenclature	APC	Price
ADD: BASE RADIO WILDCARD W/GPIO	-	CA02220AA	112	\$1,200.00
ADD: BASE RADIO MAIN/STANDBY OPERATION	-	CA02221AA	112	\$450.00

GCM 8000 Comparator Channel Add

Description	Full Description	Nomenclature	APC	Price
ADD: GCM 8000 CONVENTIONAL CHANNEL ADDITION	-	CA01752AA	112	\$13,000.00
ADD: GCM 8000 TRUNKING CHANNEL ADDITION	-	CA01780AA	112	\$14,000.00

GPW 8000 Receiver Options

Receiver Module Channel Add

Description	Full Description	Nomenclature	APC	Price
ADD: QTY 2 GPW 8000 RECEIVER	-	X302AR	112	\$800.00

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AB	112	\$3,200.00
ADD: VHF (136-174 MHZ)	-	X530BH	112	\$3,200.00
ADD: UHF R1 (380-435 MHZ)	-	X448AB	112	\$3,200.00
ADD: UHF R2 (435-524 MHZ)	-	X640AN	112	\$3,200.00
ADD: 900 MHZ	-	CA01821AB	112	\$3,200.00

Receiver Software

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL SOFTWARE R/X ONLY	-	CA01948AB	595	\$2,000.00
ADD: ANALOG ONLY CONV SW R/X ONLY	-	CA01949AB	595	\$0.00
ADD: CIRCUIT BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA00025AH	595	\$4,000.00
ADD: IP BASED MULTISITE (SIMULCAST/VOTING) RCVR SW	-	CA01193AB	595	\$4,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AB	112	\$500.00

GTR 8000 Base Radio

Description	Full Description	Nomenclature	APC	Price
GTR 8000 Base Radio	-	T7039	112	\$0.00

Options

System Release Options
(must include one)

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00
ADD: VHF (136-174 MHZ)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHZ)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHZ)	-	X640AL	112	\$6,300.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.00
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Two-Slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00

Conventional Software System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
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ADD: ANTENNA RELAY	-	CA01504AA	112	\$350.00
ADD: MAIN/STANDBY OPERATION	-	CA01955AA	595	\$450.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
RF Peripherals				
Description	Full Description	Nomenclature	APC	Price
ADD: DUPLEXER, 136-146 MHZ, THEN TX AND RX MUST BE 136-146	A preselector is required when this option is ordered.	X182CC	112	\$1,380.00
ADD: DUPLEXER, 144-160 MHZ, THEN TX AND RX MUST BE 144-160	A preselector is required when this option is ordered.	X182CB	112	\$1,380.00
ADD: DUPLEXER, 158-174 MHZ	A preselector is required when this option is ordered.	X182CA	112	\$1,380.00
ADD: DUPLEXER, UHF	A preselector is required when this option is ordered.	X182BZ	112	\$1,380.00
ADD: DUPLEXER, 700 MHZ	-	X182BW	112	\$1,380.00
ADD: DUPLEXER, 800 MHZ	-	X182BX	112	\$1,380.00
ADD: NARROW PRESELECTOR, 136-154 MHZ	-	X265AN	112	\$500.00
BR PRESELECTOR, 150-174 MHZ	-	X265AM	112	\$500.00
ADD: BR PRESELECTOR 380-512 MHZ	-	X265AP	112	\$500.00
ADD: BASE RADIO PRESELECTOR, 700 MHZ	-	X265AJ	112	\$500.00
ADD: BR PRESELECTOR, 800 MHZ	-	X265AH	112	\$500.00
ADD: EXT DUAL CIRCULATOR, 136-146 MHZ	-	X676BJ	112	\$1,500.00
ADD: EXT DUAL CIRCULATOR, 144-160 MHZ	-	X676BI	112	\$1,500.00
ADD: EXT DUAL CIRCULATOR, 158-174 MHZ	-	X676BH	112	\$1,500.00
ADD: UHF EXTERNAL DUAL CIRCULATOR (435-494 MHZ)	-	X676BG	112	\$1,500.00
ADD: 700/800 MHZ EXTERNAL DUAL CIRCULATOR	-	X676BF	112	\$1,000.00
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00
Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER CABLE, DC	-	CA01400AA	112	\$0.00
ADD: POWER CABLE, UK	-	X162AE	112	\$0.00
ADD: POWER CABLE, EUROPE	-	X187AK	112	\$0.00
ADD: POWER CABLE, AUSTRALIA	-	X191AF	112	\$0.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Rack Mount Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: RACK MOUNT HARDWARE	-	X153AW	112	\$50.00
Indoor Cabinets				
Description	Full Description	Nomenclature	APC	Price
ADD: G-SERIES INDOOR CABINET 15 Rack Units	-	CA02446AA	112	\$1,250.00
ADD: G-SERIES INDOOR CABINET 24 Rack Units	-	CA02447AA	112	\$1,600.00
Retrofit Kits				
Description	Full Description	Nomenclature	APC	Price
ADD: STR 3000 RETROFIT HARDWARE	-	CA00951AA	112	\$50.00
ADD: QUANTAR RETROFIT HARDWARE	-	CA00952AA	112	\$50.00
Conventional Hardware Kits				
Description	Full Description	Nomenclature	APC	Price
ADD: T1-2R W/TALKAROUND	-	CA01957AA	112	\$1,200.00
ADD: T2-2R RECEIVER MUTE	-	CA01958AA	112	\$2,000.00
ADD: T2-2R DUPLXR & TRPL RELAY	-	CA01962AA	112	\$4,000.00
ADD: T3-3R RECEIVE MUTE	-	CA01959AA	112	\$2,000.00
ADD: T4-4R RECEIVER MUTE	-	CA01960AA	112	\$2,000.00
ADD: RCVR SOFT NO SPLITTER	-	CA01961AA	112	\$400.00
VHF 350W Booster				
Description	Full Description	Nomenclature	APC	Price
ADD: VHF 350W BOOSTER SI	This option is for Federal Systems only. All orders will go on E3 hold for review by the Federal Systems Integration team.	CA02286AA	282	\$13,664.00
150W High Power 800MHz PA				
Description	Full Description	Nomenclature	APC	Price
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00
CE Label				
Description	Full Description	Nomenclature	APC	Price
ADD: R&TTE CERTIFICATION	-	CA02310AA	112	\$0.00
Compact Site Cabinet				
Description	Full Description	Nomenclature	APC	Price
G-SERIES COMPACT SITE ENCLOSURE, WA	-	TT3147	112	\$10,452.00
G-SERIES COMPACT SITE ENCLOSURE, PO	-	TT3145	112	\$10,452.00
G-SERIES COMPACT SITE ENCLOSURE, PA	-	TT3146	112	\$10,366.00
Compact Site Cable Kits				
Description	Full Description	Nomenclature	APC	Price
FRU: COMPACT EXPANSION CABLE KIT	-	DLN7014	112	\$300.00
FRU: COMPACT BASE CABLE KIT	-	DLN7013	112	\$600.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: ENERGY EFFICIENT POWER SUPPLY	-	DLN6805	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00
FRU: PA UHF R2	Replaces DLN1347A and DLN6792A.	DLN6896	112	\$3,200.00
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: 150W PA 800MHZ	-	DLN6935	112	\$12,500.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHZ V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: GTR 136-146MHZ EXT DUAL CIRCULATOR KIT	-	DLN6836	112	\$1,500.00
FRU: GTR 144-160MHZ EXT DUAL CIRCULATOR KIT	-	DLN6837	112	\$1,500.00
FRU: GTR 158-174MHZ EXT DUAL CIRCULATOR KIT	-	DLN6838	112	\$1,500.00
FRU: GTR 380-403MHZ EXT DUAL CIRCULATOR KIT	-	DLN6839	112	\$1,500.00
FRU: GTR 403-470MHZ EXT DUAL CIRCULATOR KIT	-	DLN6840	112	\$1,500.00
FRU: GTR 470-512MHZ EXT DUAL CIRCULATOR KIT	-	DLN6841	112	\$1,500.00
FRU: GTR 764-870MHZ EXT DUAL CIRCULATOR KIT	-	DLN6842	112	\$1,500.00
FRU: T2-2R RECEIVER MUTE	-	DLN6795	112	\$2,000.00
FRU: T2-2R DUPLXR & TRPL RELAY	-	DLN6800	112	\$4,000.00
FRU: T3-3R RECEIVE MUTE	-	DLN6796	112	\$2,000.00
FRU: T4-4R RECEIVER MUTE	-	DLN6797	112	\$2,000.00
FRU: T1-2R W/TALKAROUND	-	DLN6799	112	\$1,200.00
FRU: RCVR SOFT NO SPLITTER	-	DLN6798	112	\$400.00
FRU: GTR ANALOG 4W E&M SIMULCST KIT	-	DLN6821	112	\$250.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00
Associated Products				

Raymar Modem & Analog Interface

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 ANALOG MODEM II	-	DS01003200100	207	\$4,200.00
CABLE, SCSI INTERCONNECT, 2'	-	DS00573200100	207	\$400.00
CABLE, POWER ADAPTER, MOTOROLA 3084818Y02 - GAIM, 8	-	DS00573200112	207	\$116.00
CABLE, AC POWER, EXTERNAL BRICK, 110/240VAC	-	DS00573200111	207	\$200.00
V.3600, RM, UI, MODEM (0100-3200-100 ONLY)	-	DSTEL6209548100010	454	\$1,450.00

GTR 8000 Site Subsystem

GTR 8000 Site Subsystem

Options

Frequency Band

Description	Full Description	Nomenclature	APC	Price
ADD: 700/800 MHZ	-	CA00855AA	112	\$6,300.00

Base Radio

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00

Site Controller

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ENH: 25 KHZ HPD SITE CONTROLLER SW	-	CA00294AB	595	\$11,000.00

Energy Efficiency

Description	Full Description	Nomenclature	APC	Price
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00

Cables

Description	Full Description	Nomenclature	APC	Price
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00

Field Replacement Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: XCVR 7/800 MHZ V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: GCP 8000/GCM 8000/GPB 8000	-	DLN6966	112	\$2,750.00
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
CONFIGURATION/SERVICE SOFTWARE	-	DLN6455	454	\$25.00

G-Series Software Upgrade

G-SERIES SOFTWARE UPGRADES

Description	Full Description	Nomenclature	APC	Price
G-SERIES SOFTWARE UPGRADE	-	T7140	112	\$0.00

Options

Base Radio Software

Description	Full Description	Nomenclature	APC	Price
ADD: SITE REPEATER BR SW UPGRADE	-	CA01116AA	595	\$3,500.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE UPGRADE	-	CA01195AA	595	\$5,300.00
ADD: CIRCUIT BASED MULTISITE BR SW UPGRADE	-	CA01115AA	595	\$4,500.00
ADD: ADD: ASTRO 25 CONVENTIONAL SW UPGRADE	-	CA01615AA	595	\$2,150.00
ANALOG CONVENTIONAL GTR 8000 SOFTWARE UPGRADE	-	CA01995AA	595	\$100.00
ADD: ASTRO 25 EXPRESS BR SW UPGRADE	-	CA01430AB	595	\$3,500.00
ADD: 3600 SIMULCAST SW UPGRADE	-	CA02333AA	595	\$3,300.00
ADD: 3600 IR SW UPGRADE	-	CA02336AA	595	\$2,300.00
ADD: 3600 TO P25 UPGRADE	-	CA02335AA	595	\$2,000.00
ADD: DIG COV TO P25 TRUNKING UPGRADE	-	CA02524AA	595	\$0.00
ADD: ANALOG CONV TO DIGITAL CONV BR SW UPGRADE	-	CA02211AA	595	\$6,500.00
ADD: ANALOG CONV TO ASTRO 25 IP SIMULCAST BR SW UPGRADE	-	CA02218AA	595	\$19,500.00
ADD: ANALOG CONV TO ASTRO 25 CIRCUIT SIMULCAST BR SW UPGRADE	-	CA02217AA	595	\$13,700.00
ADD: ANALOG CONV TO ASTRO 25 SITE REPEATER BR SW UPGRADE	-	CA02216AA	595	\$12,760.00
ADD: 25 KHZ HPD BR SW UPGRADE	-	CA01114AA	595	\$6,000.00

Two-Slot TDMA Enhancements

Description	Full Description	Nomenclature	APC	Price
ADD: P25 TDMA SOFTWARE UPGRADE	-	CA01905AA	595	\$3,300.00
ADD:P25 FDMA TO P25 TDMA SW UPGRADE	-	CA01903AA	595	\$13,000.00
ADD:DYNAMIC CHANNEL ASSIGNMENT SOFTWARE	-	CA01966AA	595	\$10,000.00
ADD: DYNAMIC CHANNEL SW UPGRADE	-	CA01968AA	595	\$3,350.00
ADD: DYNAMIC DUAL MODE BR SW UPGRADE	-	CA01410AA	595	\$12,000.00
ADD: DDM TO DYNAMIC CH SW UPGRADE	-	CA01967AA	595	\$3,350.00
ADD: X2-TDMA TO P25 TDMA SW UPGRADE	-	CA01904AA	595	\$3,300.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: DIGITAL CONVENTIONAL BR VOTING TO SIMULCAST UPGRADE	-	CA02208AA	595	\$700.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00

Site Controller Software

Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE SITE CONTROLLER SOFTWARE UPGRADE	-	CA01196AA	595	\$20,650.00
ADD: CIRCUIT BASED MULTISITE SC SW UPGRADE	-	CA01118AA	595	\$19,800.00
ADD: SITE RPTR SC SW UPGRD VOICE	-	CA02212BA	595	\$1,650.00
ADD: SITE RPTR SC SW UPGRD IV&D	-	CA02219BA	595	\$2,970.00
ADD:ST RPTR SC SW UPGRD IV&D+ENDATA	-	CA03008AA	595	\$3,960.00
ADD: MCC 7500 CONV SITE UPGRADE	Order one CA01246AA for each conventional site controller being upgraded. Order as a sub-item to the T7140.	CA01246AA	112	\$1,200.00
ADD: ASTRO 25 EXPRESS SC SW UPGRADE	-	CA01431AB	112	\$1,650.00
ADD: 25 KHZ HPD SC SW UPGRADE	-	CA01117AA	595	\$2,800.00

Data Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD:STRPTR SC SW UPGR VC IVD+ENDATA	-	CA03003AA	595	\$7,000.00
ADD:SITE RPTR SC EXP IV&D- ENH DATA	-	CA03002AA	595	\$3,000.00
ADD: ASTRO 25 EXPRESS to SITE REPEATER SC SW UPGRADE IV&D	-	CA02205AA	595	\$4,920.00

Remote Site Licenses

TX/RX Site Upgrade SW of Existing Site

Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL REM SITE UPGRD LIC VOICE	-	CA02214BA	595	\$0.00

Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL REM SITE UPGRD LIC IV&D	-	CA02206BA	595	\$1,320.00
ADD:SIMUL RM ST UPGD LC IVD+ENDATA	-	CA03017AA	595	\$3,000.00
TX/RX Add-On New Site in Existing System				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE VOICE ONLY	-	CA02214AA	595	\$0.00
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SIMLCST RMT ST LIC IV&D+ENH DATA	-	CA03009AA	595	\$7,000.00
TX/RX Data Expansion on Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMULCAST REMOTE SITE LICENSE IV&D	-	CA02206AA	595	\$4,920.00
ADD:SIMUL REM ST LC EXP IV&D-ENDATA	-	CA03010AA	595	\$3,000.00
ADD:SIM RM ST LC EXP VCE-IVD+ENDATA	-	CA03011AA	595	\$7,000.00
RX-Only Site Upgrade SW of Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD:SIMUL RX REM SITE UPGRD LIC VCE	-	CA03020AA	595	\$0.00
ADD:SIMUL RX REM ST UPGRD LIC IV&D	-	CA03018AA	595	\$660.00
ADD:SIM RX RM ST UPGD LC IVD+ENDATA	-	CA03019AA	595	\$1,100.00
RX-Only Add-On New Site in Existing System				
Description	Full Description	Nomenclature	APC	Price
ADD:SIMUL RX REM ST LIC VOICE ONLY	-	CA03014AA	595	\$0.00
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD: SIMUL RX RM ST LC IVD+ENH DATA	-	CA03012AA	595	\$5,000.00
RX-Only Data Expansion on Existing Site				
Description	Full Description	Nomenclature	APC	Price
ADD: SIMUL RXO REMOTE ST LIC IV&D	-	CA03013AA	595	\$2,000.00
ADD:SM RX REM ST LC EXP IV&D-ENDATA	-	CA03016AA	595	\$3,000.00
ADD:SIM RX RM ST LC EXP IV&D+ENDATA	-	CA03015AA	595	\$5,000.00
Reference Distribution Module Software				
Description	Full Description	Nomenclature	APC	Price
ADD: REFERENCE DISTRIBUTION MODULE SOFTWARE UPGRADE	-	CA02210AA	595	\$1,650.00
ADD: RDM SW FOR RX ONLY UPGRADE	-	CA02458AC	595	\$400.00
Comparator Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MULTISITE OPERATION UPGRADE	-	CA01197AA	595	\$3,000.00
ADD: GCM 8000 CONVENTIONAL SW	-	CA01799AA	595	\$2,650.00
ADD: CM P25 TDMA SOFTWARE UPGRADE	-	CA01912AA	595	\$3,300.00
ADD: CM P25 FDMA TO P25 TDMA SW UP	-	CA01910AA	595	\$16,000.00
ADD: ADD: ASTRO 25 CONV VOTING SW	-	CA01505AC	595	\$2,000.00
ADD: ASTRO 25 CONV SIMULCAST SW	-	CA01502AC	595	\$3,000.00
ADD: CONVENTIONAL COMPARATOR VOTING TO SIMULCAST UPGRADE	-	CA02213AA	595	\$1,000.00
ADD: TRUNKING REDUNDANT COMPRTR SW	-	CA01974AA	595	\$1,500.00
ADD: ADD: SW UPGRADE LIC SINGLE EXP	-	CA01914AB	595	\$1,350.00
ADD: CM X2-TDMA TO P25 TDMA SW UP	-	CA01911AA	595	\$3,300.00
GPW 8000 Receiver Software				
Description	Full Description	Nomenclature	APC	Price
ADD: IP BASED MS RCVR SW UPGRADE	-	CA03022AB	595	\$1,300.00
ADD: CIRCUIT BASED MS RCVR SW UPGRADE	-	CA03021AB	595	\$1,300.00
ADD: GPW 8000 CONV SW UPGRADE	-	CA01797AA	112	\$650.00
ANALOG CONVENTIONAL GPW 8000 SOFTWARE UPGRADE	-	CA01995AB	595	\$100.00
ADD : RX/O P25 TDMA SW UPGRADE	-	CA02450AB	595	\$2,300.00
ADD : RX/O DYNAMIC CHANNEL SW UPGRADE	-	CA02451AB	595	\$1,800.00
ADD: ANALOG CONV TO 3.1 CONV RX/O	-	CA02453AB	595	\$2,000.00
ADD: ANALOG CONV TO IP SIMUL RX/O	-	CA02455AB	595	\$4,000.00
ADD: ANALOG CONV TO CIRC SIMUL RX/O	-	CA02454AB	595	\$4,000.00
ADD: 3.1 CONV TO IP SIMUL RX/O	-	CA02457AB	595	\$2,000.00
ADD: 3.1 CONV TO CIRC SIMUL RX/O	-	CA02456AB	595	\$2,000.00
ADD : RX/O P25 FDMA - P25 TDMA SW UPGRADE	-	CA02449AB	595	\$7,000.00
ADD: CONV MIXED MODE OPERATION	-	CA01946AB	595	\$0.00
ADD: CONV MULTI-NAC MULTI-PL	-	CA01950AB	595	\$150.00
ADD : RX/O DYNAMIC CHANNEL ASSIGNMENT SW	-	CA02452AB	595	\$5,500.00
GTR 8000 Expandable Site Subsystem				
Radio Model				
Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUBSYSTEM	-	SQM01SUM7054	112	\$6,000.00
Options				
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
Base Radios				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00
ADD: QTY (6) GTR 8000 BASE RADIOS	-	X306AC	112	\$35,400.00
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00
Base Radio Software				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$19,200.00
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.00
Power Distribution Unit (NOTE: AC cables not included in AC-Only option. Please refer to G-Series Ordering Guide)				
Description	Full Description	Nomenclature	APC	Price
ADD: AC ONLY POWER DISTRIBUTION	-	CA02684AA	112	\$0.00
ADD: AC DC POWER DISTRIBUTION	-	CA02686AA	112	\$0.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
Two-slot TDMA Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD:2ND BRANCH DIVERSITY	-	CA01943AA	112	\$700.00
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00

Conventional Software System Configuration

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00

Conventional Features

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00

3600 Trunking Features

Description	Full Description	Nomenclature	APC	Price
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00

Receiver Multicouplers

Description	Full Description	Nomenclature	APC	Price
ADD: CABINET RMC FOR EXPANSION RACK	-	CA00877AA	112	\$600.00
ADD: CABINET RMC W/ CAPABILITY OF 6 BRS	-	CA00861AA	112	\$700.00
ADD: SITE & CABINET RMC W/CAPABILITY OF 7-24 BRS	-	CA00862AA	112	\$2,100.00

UHF Preselectors

Description	Full Description	Nomenclature	APC	Price
ADD: UHF SITE PRESELECTOR, 466.5-470	-	CA01094AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 450-453.5	-	CA02702AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 510-512	-	CA01108AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 485-487	-	CA01099AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 479-481	-	CA01097AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 492-494	-	CA01102AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 456.5-460	-	CA01092AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 465-468.5	-	CA01093AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 491-493	-	CA01101AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 473-475	-	CA01095AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 498-500	-	CA01104AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 504-506	-	CA01106AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 486-488	-	CA01100AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 497-499	-	CA01103AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 455-458.5	-	CA01091AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 480-482	-	CA01098AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 509-511	-	CA01107AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 503-505	-	CA01105AA	112	\$3,500.00
ADD: UHF SITE PRESELECTOR, 474-476	-	CA01096AA	112	\$3,500.00

Cavity Combiners

Description	Full Description	Nomenclature	APC	Price
ADD: EXPANSION 6 PORT CAVITY COMBINER	-	CA00880AA	112	\$8,400.00
ADD: PRIMARY 6 PORT CAVITY COMBINER	-	CA00879AA	112	\$8,400.00
ADD: UHF PRIMARY 6 PORT CAVITY COMBINER	-	CA01180AA	112	\$15,500.00
ADD: 7/800 PRIME 100 T-T CAV COMB	-	CA02855AA	112	\$12,500.00
ADD: 7/800 EXP 100 T-T CAV COMB	-	CA02856AA	112	\$12,500.00

Hybrid Combiners for 900 MHz

Description	Full Description	Nomenclature	APC	Price
ADD: 900 HYBRID SINGLE OUTPUT 4-WAY	-	CA01826AA	112	\$10,000.00
ADD: 900 HYBRID SINGLE OUTPUT 2-WAY	-	CA01824AA	112	\$5,000.00
ADD: 900 HYBRID SINGLE OUTPUT 3-WAY	-	CA01825AA	112	\$7,500.00
ADD: 900 HYBRID SINGLE OUTPUT 5-WAY	-	CA01827AA	112	\$12,500.00
ADD: 900 HYBRID SINGLE OUTPUT 6-WAY	-	CA01828AA	112	\$15,000.00
ADD: 900 HYBRID DUAL OUTPUT 2-WAY	-	CA01829AA	112	\$10,000.00
ADD: 900 HYBRID DUAL OUTPUT 3-WAY	-	CA01830AA	112	\$15,000.00

TX Filters, Diplexers, or 900 MHz Duplexers

Description	Full Description	Nomenclature	APC	Price
ADD: UHF TX FILTER W/PMU 507-509	-	CA01090AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 460-463.5	-	CA01075AA	112	\$3,300.00
ADD: TX FILTER W/PMU 451.5-455	-	CA01074AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 450-453.5	-	CA01073AA	112	\$3,300.00
ADD: 900 MHZ DUAL DUPLEXER	-	CA01833AA	112	\$2,000.00
ADD: EXPAN RCK DIPLXR EXTEN CABLE	-	CA01059AA	112	\$100.00
ADD: UHF TX FILTER W/PMU 477-479	-	CA01080AA	112	\$3,300.00
ADD: 700 MHZ TX FILTER W/PMU	-	CA00882AA	112	\$1,000.00
ADD: 900 MHZ TX FILTER	-	CA01831AA	112	\$1,250.00
ADD: UHF TX FILTER W/PMU 506-508	-	CA01089AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 489-491	-	CA01084AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 501-503	-	CA01088AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 488-490	-	CA01083AA	112	\$3,300.00
ADD: 700/800 PHASING HARNESS	-	CA01058AA	112	\$1,000.00
ADD: UHF TX FILTER W/PMU 500-502	-	CA01087AA	112	\$3,300.00
ADD: 900 MHZ SINGLE DUPLEXER	-	CA01834AA	112	\$1,000.00
ADD: UHF TX FILTER W/PMU 483-485	-	CA01082AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 494-496	-	CA01085AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 495-497	-	CA01086AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 482-484	-	CA01081AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 476-478	-	CA01079AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 471-473	-	CA01078AA	112	\$3,300.00
ADD: 800 MHZ TX FILTER W/PMU	-	CA00883AA	112	\$1,000.00
ADD: 700 + 800 MHZ DIPLEXER W/PMU	-	CA00881AA	112	\$1,000.00
ADD: TX FILTER W/PMU 461.5-465	-	CA01076AA	112	\$3,300.00
ADD: UHF TX FILTER W/PMU 470-472	-	CA01077AA	112	\$3,300.00

Site Controller, Reference Distribution Module, Expansion Hubs

Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) SITE CONTROLLER	-	CA00303AA	112	\$2,500.00
ADD: ASTRO 25 EXPRESS SYSTEM SITE CONTROLLER SOFTWARE VOICE ONLY	-	CA01431AA	595	\$7,500.00
ADD: ASTRO SITE REPEATER SC SW	-	CA03177AA	595	\$7,800.00
ADD: QTY (1) XHUB	-	CA00884AA	112	\$3,500.00
ADD: GPB 8000 REFERENCE DISTRIBUTION MODULE	-	CA01536AA	112	\$5,000.00
ADD: REFERENCE DISTRIBUTION SOFTWARE	-	CA01537AA	595	\$6,500.00
ADD: HIGH AVAILABILITY XHUB	-	CA00885AA	112	\$3,500.00

Description	Full Description	Nomenclature	APC	Price
ADD: DSC 8000 REPEATER SITE CONTROLLER	New Site Controller replacing the GCP 8000	CA03736AA	677	\$6,000.00
ADD: DSC 8000 REFERENCE DISTRIBUTION MODULE	New RDM replacing the GPB 8000	CA03792AA	677	\$6,000.00
ADD: DSC HUB	2 are required in every expansion rack. Only compatible with the DSC 8000 Site Controller/RDM.	CA03737AA	677	\$3,500.00

ADD: DSC 8000 REPEATER SITE CONTROLLER SW	Software for the new DSC 8000 Site Controller replacing the GCP 8000	CA03745AA	680	\$7,400.00
ADD: DSC 8000 SIMULCAST RDM SW	Software for the new DSC 8000 RDM replacing the GPB 8000	CA03746AA	680	\$8,200.00

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
ADD: INTEGRATED GNSS TIMING REFERENCE	This provides limited holdover if the GNSS signal is lost. Select QTY 2.	CA03738AA	677	\$0.00
ADD: INTEGRATED GNSS TIMING REF W/ RB	Adds a Rubidium module to the DSC 8000. Select QTY 2.	CA03739AA	677	\$12,000.00
ADD: DSC 8000 RUBIDIUM SW	Software license required for each Rubidium. Select QTY 2.	CA03747AA	680	\$4,500.00
ADD: EXTERNAL TIMING REFERENCE CONN ONLY	Select when providing your own reference separately. Select QTY 2.	CA03740AA	677	\$55.00
Integrated GGM 8000 Gateway				
Description	Full Description	Nomenclature	APC	Price
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY W/ CCGW/LD CCGW	-	CA02224AA	112	\$700.00
ADD: 7.12+ GGM 8000 GATEWAY & ENCRYPTION	-	CA02154AA	147	\$7,250.00
ADD: GGM 8000 GATEWAY	-	CA01706AA	147	\$5,250.00
ADD: GTR ESS INTEGRATION KIT FOR EXT GGM 8000 GATEWAY	-	CA02225AA	112	\$300.00
Cabinets and Racks				
Description	Full Description	Nomenclature	APC	Price
ADD: 43RU SCHROFF CABINET	-	CA00293AA	112	\$880.00
ADD: 7.5 FT OPEN RACK, 48RU	-	X882AH	112	\$495.00
ADD: 7.0 FT OPEN RACK	-	CA01402AA	112	\$495.00
150W High Power 800MHz PA				
Description	Full Description	Nomenclature	APC	Price
ADD: 800MHZ 150W HI POWER	-	CA02478AA	112	\$12,500.00
Additional Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: CABINET DOOR, SOLID	-	CA00027AB	112	\$225.00
ADD: FRONT/BACK DOOR, LOUVERED	-	CA00027AC	112	\$225.00
ADD: BATTERY TEMP SENSOR EXTENSION CABLE	-	CA00975AA	112	\$200.00
Field Replacement Units (FRUs)				
Description	Full Description	Nomenclature	APC	Price
FRU: POWER SUPPLY	This replaces DLN6568A and DLN6568B	DLN6781	112	\$2,200.00
FRU: PA VHF	Replaces DLN1377A.	DLN6897	112	\$3,200.00
FRU: PA UHF R1	Replaces DLN1396A and DLN6788A.	DLN6891	112	\$3,200.00
FRU: PA UHF R2	Replaces DLN1347A and DLN6792A.	DLN6896	112	\$3,200.00
FRU: PA 7/800 MHz	Replaces DLN6567A.	DLN6895	112	\$3,200.00
FRU: PA 900 MHz	Replaces DLN6779A.	DLN6894	112	\$3,000.00
FRU: XCVR VHF V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1376A.	DLN6892	112	\$3,500.00
FRU: XCVR VHF V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1431A.	DLN6893	112	\$4,300.00
FRU: XCVR UHF R1 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1395A and DLN6786A.	DLN6888	112	\$3,500.00
FRU: XCVR UHF R1 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1432A.	DLN6889	112	\$4,300.00
FRU: XCVR UHF R1 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6787A.	DLN6890	112	\$4,300.00
FRU: XCVR UHF R2 V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1346A and DLN6789A.	DLN6884	112	\$3,500.00
FRU: XCVR UHF R2 V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1433A.	DLN6886	112	\$4,300.00
FRU: XCVR UHF R2 V2 PWR EFF OPT CRD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6790A.	DLN6887	112	\$4,300.00
FRU: XCVR 7/800 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6566A.	DLN6885	112	\$3,500.00
FRU: XCVR 7/800 MHz V2 W/OPT CARD	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN1430A.	DLN6883	112	\$4,300.00
FRU: XCVR 900 MHz V2	Not compatible with ASTRO 7.6 and earlier systems. Replaces DLN6778A.	DLN6882	112	\$3,000.00
FRU: XCVR 900 MHz V2 W/OPTION CARD	Not compatible with ASTRO 7.6 and earlier systems.	DLN6923	112	\$4,000.00
FRU: FAN MODULE	Replaces DLN1338A and DLN6804A.	DLN6898	591	\$300.00
FRU: 43RU SCHROFF GTR ESS CABINET	Includes solid side doors, louvered front and back doors, cable guides, slides, and un-populated GTR 8000 ESS junction panel. Intended for moving open rack GTR 8000 ESS equipment into a cabinet. Size/configuration restrictions apply.	DLN6828A	112	\$5,750.00
FRE: DSC 8000	DSC w/o Rubidium module.	DLN1444A	677	\$10,500.00
FRE: DSC 8000, W/ RUBIDIUM 28-60V	DSC with Rubidium module.	DLN1445B	677	\$22,500.00
FRU: DSC HUB	DSC HUB Module	DLN8035	677	\$3,500.00

GTR 8000 Expandable Site Subsystem Channel Addition

Description	Full Description	Nomenclature	APC	Price
GTR 8000 EXPANDABLE SITE SUB-SYSTEM CHANNEL ADDITION UPGRADE	-	T7071	112	\$0.00
System Release Options (must include one)				
Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA00718AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.17	-	CA00717AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.16	-	CA00716AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.15	-	CA00715AA	595	\$0.00
ADD: ASTRO SYSTEM RELEASE 7.14	-	CA00714AA	595	\$0.00
GTR 8000 ESS Base Radio Options				
Frequency Band				
Description	Full Description	Nomenclature	APC	Price
ADD: VHF (136-174 MHz)	-	X530BG	112	\$6,300.00
ADD: UHF R1 (380-435 MHz)	-	X448AA	112	\$6,300.00
ADD: UHF R2 (435-524 MHz)	-	X640AL	112	\$6,300.00
ADD: 700/800 MHz	-	CA00855AA	112	\$6,300.00
ADD: 900 MHz	-	CA01821AA	112	\$6,300.00
Base Radios				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY (1) GTR 8000 BASE RADIO	-	X301AE	112	\$5,900.00
ADD: QTY (2) GTR 8000 BASE RADIOS	-	X302AE	112	\$11,800.00
ADD: QTY (3) GTR 8000 BASE RADIOS	-	X303AE	112	\$17,700.00
ADD: QTY (4) GTR 8000 BASE RADIOS	-	X304AE	112	\$23,600.00
ADD: QTY (5) GTR 8000 BASE RADIOS	-	X305AC	112	\$29,500.00
Base Radio Software				
Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 SITE REPEATER SW	-	X591AE	595	\$21,760.00
ADD: IP BASED MULTISITE BASE RADIO SOFTWARE	-	CA01193AA	595	\$29,500.00
ADD: CIRCUIT BASED MULTISITE BASE RADIO SOFTWARE	-	CA00025AF	595	\$22,700.00
ADD: DIGITAL CONVENTIONAL SOFTWARE	-	CA01948AA	595	\$14,600.00
ADD: ANALOG ONLY CONV SW	-	CA01949AA	595	\$6,700.00
ADD:3600 TRUNKING SIMULCAST OPERATION	-	CA02207AA	595	\$16,000.00
ADD:3600 INTELLIREPEATER SOFTWARE	-	CA02209AA	595	\$13,000.00
ADD: ASTRO 25 EXPRESS SYSTEM SINGLE SITE BR SOFTWARE	-	CA01430AA	595	\$19,200.00
ADD: 25 KHZ HIGH PERFORMANCE DATA SW	-	CA00294AA	595	\$24,000.00
Conventional Software System Configuration				
Description	Full Description	Nomenclature	APC	Price
ADD: ANALOG CONVENTIONAL SIMULCAST SOFTWARE	-	CA01952AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL SIMULCAST SOFTWARE	-	CA01502AA	595	\$1,000.00
ADD: CONVENTIONAL MIXED MODE OPERATION	-	CA01946AA	595	\$0.00
ADD: ASTRO 25 CONVENTIONAL VOTING SOFT	-	CA01505AA	595	\$300.00
ADD: ANALOG CONVENTIONAL VOTING SOFTWARE	-	CA01951AA	595	\$0.00
Conventional Features				
Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL TALKGROUPS BR	-	CA02680AA	595	\$500.00
ADD: RECEIVER SCAN OPERATION	-	CA01947AA	595	\$400.00
ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
ADD: CONVENTIONAL MULTI-NAC MULTI-PL	-	CA01950AA	595	\$500.00
3600 Trunking Features				
Description	Full Description	Nomenclature	APC	Price

ADD: FALL BACK IN SIMULCAST CABINET REPEAT	-	CA01503AA	595	\$600.00
ADD: WILDCARD W/GPIO	-	CA01954AA	595	\$1,200.00
Energy Efficiency				
Description	Full Description	Nomenclature	APC	Price
ADD: CEC COMPLIANCE	The CEC Compliance option is required for all orders shipping to California and Oregon starting January 1, 2017. This option along with the power efficient package (CA01953) provides a new power supply that meets California Energy Commission (CEC) regulations.	CA03111AA	112	\$0.00
ADD: POWER EFFICIENCY PACKAGE	-	CA01953AA	112	\$500.00
Two-slot TDMA Enhancements				
Description	Full Description	Nomenclature	APC	Price
ADD: P25 DYNAMIC CHANNEL SOFTWARE	-	CA01902AA	595	\$10,000.00
ADD: P25 TDMA SOFTWARE	-	CA01842AA	595	\$13,000.00

HPD1000 Modem

Models				
Description	Full Description	Nomenclature	APC	Price
HPD1000 MODEM 700/800MHZ	-	M26UGA9PW1 N	153	\$1,700.00
Options				
Software Options				
Description	Full Description	Nomenclature	APC	Price
ADD: GPS OPERATION	Does not include GPS antenna.	G440	153	\$400.00
Antenna(s)				
Description	Full Description	Nomenclature	APC	Price
ADD: ANTENNA 1/4 WAVE 764-870MHZ	Motorcycle Approved Corresponding Motorcycle kit: HAF4015 Corresponding kit: HAF4016	G335	500	\$14.00
ADD: ANTENNA 3DB LOW-PROFILE 764-870MHZ	Motorcycle Approved Corresponding kit: HAF4013 Corresponding Motorcycle kit: HAF4018	G174	500	\$43.00
ADD: ANTENNA 3DB ELEVATED FEED 764-870MHZ	NOT Compatible with Motorcycle. Corresponding kit: HAF4014.	G175	500	\$75.00
ADD: GPS ANTENNA	-	G619	153	\$120.00
ALT: ANTENNA 3DB GAIN 764-870MMZ	Not compatible with Motorcycle. Corresponding kit: HAF4017.	W484	500	\$38.00
Cable(s)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA CABLE 10 FT, ETHERNET WITH IGNITION SENSE	-	G651	153	\$50.00
ADD: DATA CABLE 6 FT USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 Modem.	G308	153	\$50.00
ADD: DATA CABLE 18 FT ETHERNET WITH IGNITION SENSE	-	G652	153	\$50.00
ADD: DATA CABLE 16.5 FT, USB WITH IGNITION SENSE	This cable can also be used as a programming cable for the HPD 1000 modem.	G309	153	\$50.00
Service Options				
Description	Full Description	Nomenclature	APC	Price
ENH: 2 YR SFS LITE	-	V699AN	153	\$108.00
ENH: ONE (1) YEAR EXPRESS SERVICE PLUS	-	V698AN	153	\$60.00

Accessories				
Antenna(s)				
Description	Full Description	Nomenclature	APC	Price
ANTENNA (762-870 MHZ) 3DB LOW-PROFILE	-	HAF4013	554	\$46.50
ANTENNA (762-870 MHZ) 3DB ELEVATED FEED	-	HAF4014	554	\$81.00
ANTENNA (762-870 MHZ) 3DB GAIN COLLINEAR	-	HAF4017	554	\$44.00
ANTENNA (762-870 MHZ) 1/4 WAVE	-	HAF4016	554	\$24.75
Cable(s)				
Data - USB				
Description	Full Description	Nomenclature	APC	Price
USB DATA CABLE W/ IGNITION SENSE 1.5M	-	HKN6177	455	\$50.00
DATA CABLE, USB W/ IGNITION SENSE 4.5M	-	HKN6178	153	\$50.00
Data - ETHERNET				
Ignition Sense				
Description	Full Description	Nomenclature	APC	Price
CABLE, IGNITION SENS - 18 FT	-	HKN6173	455	\$25.00
CABLE, HPD IGNITION SENSE 10 FT	-	HKN6174	455	\$25.00
Power Cable				
Description	Full Description	Nomenclature	APC	Price
CABLE, POWER, HPD 15A	-	HKN6197	153	\$35.00
Enhanced Power Control Cable				
Description	Full Description	Nomenclature	APC	Price
CABLE, ENHANCED POWER CONTROL	-	FLN4215	153	\$175.00
Miscellaneous				
Description	Full Description	Nomenclature	APC	Price
HPD 1000 Basic Service Manual	-	6816254H01	455	\$29.25

HPD1000 Modem FLASHport

Models				
Description	Full Description	Nomenclature	APC	Price
HPD 1000 7/800 MHZ SW UPGRADE	-	T7487	153	\$0.00
Options				
FLASHport Options				
Description	Full Description	Nomenclature	APC	Price
ADD: HPD1000 GPS FLASH	-	G440	153	\$400.00
ENH: HPD1000 SOFTWARE REFERSH	-	G880AF	153	\$75.00

Home Subscriber Server (HSS)

New System Ordering Guidelines				
Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 5K BUNDLE	-	TT2621	53	\$37,500.00
HSS IMS MODULE 25K BUNDLE	-	TT2623	53	\$47,880.00
HSS IMS MODULE 100K TO 150K	-	TT05734AA	53	\$32,870.00
Existing System Capacity Expansion Guidelines				
Description	Full Description	Nomenclature	APC	Price
HSS HW/SW FROM 750K TO 1M	-	TT05877AA	53	\$296,520.00
When ordering an IMS add-on user license capacity expansion for an existing system, please choose from one of the following options:				
Description	Full Description	Nomenclature	APC	Price
HSS IMS MODULE 100K TO 150K	-	TT05734AA	53	\$32,870.00
HSS IMS MODULE 750K TO 1M	-	TT05881AA	54	\$82,450.00

ISDL - Integrated Data Solutions Laboratory Laboratory Time and Engineering Consulting Services

Description	Full Description	Nomenclature	APC	Price
ADD: LAB TIME 1 DAY	-	Z18AA	375	\$1,000.00
ADD: LAB TIME 2 DAYS	-	Z19AA	375	\$2,000.00
ADD: LAB TIME 3 DAYS	-	Z20AA	375	\$3,000.00
ADD: ENG CONSULTING SVCS 4 DAY	-	Z26AA	375	\$6,000.00
ISDL WEEKLY LAB/ENG SVCS	-	Q3383	375	\$9,000.00

Intelligent Middleware

Models
In Oracle R12 (OMAR) please use the PTO model "UNS" to order IMW. Use the part numbers shown below to check the items generated.

Description	Full Description	Nomenclature	APC	Price
INTELLIGENT MIDDLEWARE	-	SQM01SUM0257	232	\$0.00

Options
SYSTEM SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: UNIFIED NETWORK SERVICES SOFTWARE	-	CA02384AE	232	\$0.00

APPLICATION INTERFACE OPTIONS

NOTE: ASTRO APPLICATION INTERFACE now supports all regions of the world. Astro Rest of the World no longer applies.

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO NETWORK APPLICATION INTERFACE	-	CA02354AA	232	\$0.00
ADD: DIMETRA NETWORK APPLICATION INTERFACE	-	CA02355AA	232	\$0.00
ADD: OTHER BEARER NETWORK APPLICATION INTERFACE	-	CA02357AA	232	\$0.00

IMW RESOURCE OPTIONS

IMW License for Location, Presence, Group Management, and Messaging Services.
Licenses are ordered per device. Licenses do not include SMA/SUA. Maintenance and Support is purchased separately.

LOCATION RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00
ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00
ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

PRESENCE RESOURCE OPTIONS

(If Location Service is selected; MUST select Presence for ASTRO25 Systems)
(NOT Required if ordering Location on ASTRO25 HPD System)

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

MESSAGING SERVICE RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00
ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00
ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00

GROUP MANAGEMENT RESOURCE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00

HARDWARE OPTIONS

Description	Full Description	Nomenclature	APC	Price
ADD:IMW NON-REDUNDANT HIGH TIER SERVER	-	CA03607AA	232	\$24,750.00
ADD: IMW REDUNDANT HIGH TIER SERVER	-	CA03608AA	232	\$59,500.00
ADD: SQL SVR STD2014 EMB	-	CA02668AE	232	\$5,000.00

OPTIONAL MCAFEE ANTIVIRUS SOFTWARE

Description	Full Description	Nomenclature	APC	Price
ADD: MCAFEE STANDALONE ANTI VIRUS SOFTWARE	-	CA02362AE	232	\$1,175.00

SUPPLEMENTAL CD OPTION (REQUIRED FOR ASTRO; OPTIONAL FOR OTHER RADIO ACCESS NETWORKS)

Description	Full Description	Nomenclature	APC	Price
ADD: SUPPLEMENTAL CD IA (IMW)	-	CA02053AE	232	\$0.00

ASTRO MESSAGING

Description	Full Description	Nomenclature	APC	Price
MCCP Smart Client Software	-	T7746	68	\$2,600.00
ADD: TALK GROUP MESSAGING	Must order exact same quantity of CA03066AA AND T7746 Smart Client. Requires AMS R4.1 and ASTRO A7.16 and higher.	CA03066AA	68	\$500.00

Intelligent Middleware (IMW) Expansions and Upgrades

Model for Expansion - Adding Licenses or Adding New Services

Description	Full Description	Nomenclature	APC	Price
UNS RESOURCE EXPANSIONS	-	T8108	232	\$0.00

Options for Indicate Quantity Expansion or Service Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: ADDITIONAL RESOURCES TO AN EXISTING SERVICE	-	CA03096AA	232	\$0.00
ADD: NEW SERVICES TO EXISTING UNS	-	CA03097AA	232	\$0.00

Options to Add Resources or New Service

Number of Device/User Licenses

Location Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR LOCATION	-	UA00010AA	226	\$6,480.00
ADD: 101-200 RESOURCES FOR LOCATION	-	UA00012AA	232	\$12,960.00
ADD: 201-400 RESOURCES FOR LOCATION	-	UA00013AA	232	\$25,920.00
ADD: 401-500 RESOURCES FOR LOCATION	-	UA00014AA	232	\$32,400.00
ADD: 501-1000 RESOURCES FOR LOCATION	-	UA00015AA	232	\$64,800.00
ADD: 1001-5000 RESOURCES FOR LOCATION	-	UA00016AA	232	\$270,000.00

Presence Service

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR PRESENCE	-	UA00058AA	232	\$2,160.00
ADD: 101-200 RESOURCES FOR PRESENCE	-	UA00059AA	232	\$4,320.00
ADD: 201-400 RESOURCES FOR PRESENCE	-	UA00054AA	232	\$8,640.00
ADD: 401-500 RESOURCES FOR PRESENCE	-	UA00055AA	232	\$10,800.00
ADD: 501-1000 RESOURCES FOR PRESENCE	-	UA00056AA	232	\$21,600.00
ADD: 1001-5000 RESOURCES FOR PRESENCE	-	UA00057AA	232	\$90,000.00

Messaging Service Options

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR MESSAGING	-	UA00286AA	232	\$12,960.00
ADD: 101-200 RESOURCES FOR MESSAGING	-	UA00287AA	232	\$25,920.00
ADD: 201-400 RESOURCES FOR MESSAGING	-	UA00288AA	232	\$51,840.00
ADD: 401-500 RESOURCES FOR MESSAGING	-	UA00289AA	232	\$64,800.00
ADD: 501-1000 RESOURCES FOR MESSAGING	-	UA00290AA	232	\$129,600.00
ADD: 1001-5000 RESOURCES FOR MESSAGING	-	UA00291AA	232	\$540,000.00

Group Management Options for MSI Internal Apps

Applications like ASTRO Radio Management (RM) application use IMW Group Management service for efficient Radio Programming. Order licenses for the number of devices (radios) desired.

Description	Full Description	Nomenclature	APC	Price
DD RESOURCES FOR GROUP MANAGEMENT FOR MSI APPS	-	UA00762AA	232	\$24.00

Group Management Service Options for 3rd Party Apps

Description	Full Description	Nomenclature	APC	Price
ADD: 0-100 RESOURCES FOR GROUP MANAGEMENT	-	UA00296AA	232	\$17,280.00
ADD: 201-400 RESOURCES FOR GROUP MANAGEMENT	-	UA00298AA	232	\$69,120.00
ADD: 101-200 RESOURCES FOR GROUP MANAGEMENT	-	UA00297AA	232	\$34,560.00
ADD: 501-1000 RESOURCES FOR GROUP MANAGEMENT	-	UA00300AA	232	\$172,800.00
ADD: 1001-5000 RESOURCES FOR GROUP MANAGEMENT	-	UA00301AA	232	\$720,000.00
ADD: 401-500 RESOURCES FOR GROUP MANAGEMENT	-	UA00299AA	232	\$86,400.00

IMS and VoLTE

Models

CSCF:

Description	Full Description	Nomenclature	APC	Price
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1K SUBS	-	TT3040	59	\$141,340.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 5K SUBS	-	TT2897	59	\$213,810.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 10K SUBS	-	TT2898	59	\$223,620.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 25K SUBS	-	TT2899	59	\$252,910.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 50K SUBS	-	TT2900	59	\$301,490.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 100K SUBS	-	TT2901	59	\$396,750.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 250K SUBS	-	TT2902	59	\$677,590.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 500K SUBS	CSCF HW & SW - Basic - 1M SUBS	TT2903	59	\$1,144,660.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC - 1M SUBS	-	TT2904	59	\$2,068,160.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR <=100K SUBS	-	TT3110	59	\$129,930.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 250K SUBS	-	TT3111	59	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 500K SUBS	-	TT3112	59	\$159,300.00
CALL SESSION CONTROL FUNCTION HW & SW - BASIC-GR - 1M SUBS	-	TT3113	59	\$159,300.00

SBG:

Description	Full Description	Nomenclature	APC	Price
SESSION BORDER GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3041	59	\$85,600.00
SESSION BORDER GATEWAY HW & SW - BASIC - 5K SUBS	-	TT2881	59	\$165,370.00
SESSION BORDER GATEWAY HW & SW - BASIC - 10K SUBS	-	TT2882	59	\$168,610.00
SESSION BORDER GATEWAY HW & SW - BASIC - 25K SUBS	-	TT2883	59	\$181,550.00
SESSION BORDER GATEWAY HW & SW - BASIC - 50K SUBS	-	TT2884	59	\$200,920.00
SESSION BORDER GATEWAY HW & SW - BASIC - 100K SUBS	-	TT2885	59	\$239,560.00
SESSION BORDER GATEWAY HW & SW - BASIC - 250K SUBS	-	TT2886	59	\$347,710.00
SESSION BORDER GATEWAY HW & SW - BASIC - 500K SUBS	-	TT2887	59	\$514,710.00
SESSION BORDER GATEWAY HW & SW - BASIC - 1M SUBS	-	TT2888	59	\$789,590.00
SESSION BORDER GATEWAY HW & SW - BASIC-GR <= 1M SUBS	-	TT3123	59	\$67,910.00

MRS BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1K SUBS	-	TT3051	59	\$144,810.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 5K SUBS	-	TT2889	59	\$395,550.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 10K SUBS	-	TT2890	59	\$402,920.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 25K SUBS	-	TT2891	59	\$420,230.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 50K SUBS	-	TT2892	59	\$442,150.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 100K SUBS	-	TT2893	59	\$476,690.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 250K SUBS	-	TT2894	59	\$553,480.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 500K SUBS	-	TT2895	59	\$664,770.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC - 1M SUBS	-	TT2896	59	\$881,980.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR <= 50K SUBS	-	TT3115	59	\$48,110.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 100K SUBS	-	TT3116	59	\$48,610.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 250K SUBS	-	TT3117	59	\$49,120.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 500K SUBS	-	TT3118	59	\$50,630.00
MEDIA RESOURCE SYSTEM HW & SW - BASIC-GR - 1M SUBS	-	TT3119	59	\$55,570.00

MRS Value Package - MRF Multimedia (SW):

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1K SUBS	-	TT3052	59	\$690.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 5K SUBS	-	TT3053	59	\$2,520.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 10K SUBS	-	TT3054	59	\$5,040.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 25K SUBS	-	TT3055	59	\$12,590.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 50K SUBS	-	TT3056	59	\$25,170.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 100K SUBS	-	TT3057	59	\$50,340.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 250K SUBS	-	TT3058	59	\$125,840.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 500K SUBS	-	TT3059	59	\$251,670.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - MRF MULTIMEDIA - 1M SUBS	-	TT3060	59	\$503,330.00

MRS Value Package - HD Voice (SW):

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1K SUBS	-	TT3061	59	\$1,600.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 5K SUBS	-	TT3062	59	\$5,860.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 10K SUBS	-	TT3063	59	\$11,720.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 25K SUBS	-	TT3064	59	\$29,290.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 50K SUBS	-	TT3065	59	\$58,580.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 100K SUBS	-	TT3066	59	\$117,160.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 250K SUBS	-	TT3067	59	\$292,890.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 500K SUBS	-	TT3068	59	\$585,780.00
MEDIA RESOURCE SYSTEM SW - VALUE PACK - HD VOICE - 1M SUBS	-	TT3069	59	\$1,171,560.00

MTAS BASIC:

Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1K SUBS	-	TT3070	59	\$161,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 5K SUBS	-	TT2873	59	\$233,470.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 10K SUBS	-	TT2874	59	\$259,490.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 25K SUBS	-	TT2875	59	\$311,060.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 50K SUBS	-	TT2876	59	\$387,950.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 100K SUBS	-	TT2877	59	\$541,290.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 250K SUBS	-	TT2878	59	\$1,025,420.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 500K SUBS	-	TT2879	59	\$1,814,390.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW - BASIC - 1M SUBS	-	TT2880	59	\$3,346,080.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR <= 250K SUBS	-	TT3120	59	\$103,780.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR 500K SUBS	-	TT3121	59	\$141,540.00
MULTIMEDIA TELEPHONY APPLICATION SERVER HW & SW -BASIC-GR 1M SUBS	-	TT3122	59	\$217,070.00

MTAS Value Package - Multimedia (SW):

Description	Full Description	Nomenclature	APC	Price
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1K SUBS	-	TT3071	59	\$1,230.00

MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 5K SUBS	-	TT3072	59	\$4,500.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 10K SUBS	-	TT3073	59	\$8,990.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 25K SUBS	-	TT3074	59	\$22,470.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 50K SUBS	-	TT3075	59	\$44,940.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 100K SUBS	-	TT3076	59	\$89,880.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 250K SUBS	-	TT3077	59	\$224,700.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 500K SUBS	-	TT3078	59	\$449,400.00
MULTIMEDIA TELEPHONY APPLICATION SERVER SW - VP MULTIMEDIA - 1M SUBS	-	TT3079	59	\$898,800.00

MGC BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1K SUBS	-	TT3042	59	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 5K SUBS	-	TT3043	59	\$43,300.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 10K SUBS	-	TT3044	59	\$45,820.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 25K SUBS	-	TT3045	59	\$56,730.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 50K SUBS	-	TT3046	59	\$71,420.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 100K SUBS	-	TT3047	59	\$103,370.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 250K SUBS	-	TT3048	59	\$178,510.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 500K SUBS	-	TT3049	59	\$295,910.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC - 1M SUBS	-	TT3050	59	\$488,440.00
MEDIA GATEWAY CONTROLLER INTERNATIONAL HW & SW - BASIC-GR <= 1M SUBS	-	TT3114	59	\$33,230.00

MGW BASIC:

Description	Full Description	Nomenclature	APC	Price
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1K SUBS	-	TT3081	59	\$35,250.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 5K SUBS	-	TT3082	59	\$129,600.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 10K SUBS	-	TT3083	59	\$130,040.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 25K SUBS	-	TT3084	59	\$131,370.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 50K SUBS	-	TT3085	59	\$133,580.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 100K SUBS	-	TT3086	59	\$138,000.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 250K SUBS	-	TT3087	59	\$150,810.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 500K SUBS	-	TT3088	59	\$298,950.00
MEDIA RESOURCE SYSTEM - MEDIA GATEWAY HW & SW - BASIC - 1M SUBS	-	TT3089	59	\$464,660.00

AFG - Hardware and Platform/Virtualization SW:

Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	59	\$28,580.00

AFG - Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS AFG AS - 1K SUBS	-	CA03163AA	59	\$45,450.00
ADD: IMS AFG AS - 5K SUBS	-	CA03164AA	59	\$167,080.00
ADD: IMS AFG AS - 10K SUBS	-	CA03165AA	59	\$178,030.00
ADD: IMS AFG AS - 25K SUBS	-	CA03166AA	59	\$210,870.00
ADD: IMS AFG AS - 50K SUBS	-	CA03167AA	59	\$260,300.00
ADD: IMS AFG AS - 100K SUBS	-	CA03168AA	59	\$356,340.00
ADD: IMS AFG AS - 250K SUBS	-	CA03169AA	59	\$633,180.00
ADD: IMS AFG AS - 500K SUBS	-	CA03170AA	59	\$1,063,290.00
ADD: IMS AFG AS - 1M SUBS	-	CA03171AA	59	\$1,876,590.00

SMS over IMS - Hardware and Platform/Virtualization SW:

Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - SMALL	-	CA02532AA	59	\$28,580.00

SMS over IMS - Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS SMS AS - 10K SUBS	-	CA02514AA	59	\$350,000.00
ADD: IMS SMS AS - 25K SUBS	-	CA02515AA	59	\$476,000.00
ADD: IMS SMS AS - 50K SUBS	-	CA02516AA	59	\$686,000.00
ADD: IMS SMS AS - 100K SUBS	-	CA02517AA	59	\$1,106,000.00
ADD: IMS SMS AS - 250K SUBS	-	CA02518AA	59	\$1,726,200.00
ADD: IMS SMS AS - 500K SUBS	-	CA03202AA	59	\$2,226,700.00
ADD: IMS SMS AS - 1M SUBS	-	CA03203AA	59	\$2,912,700.00

IMS Voice Mail Application:

Description	Full Description	Nomenclature	APC	Price
IMS APPLICATION SERVERS	-	SQM01SUM0266	59	\$0.00
ADD: IMS APP SERVER - LARGE	-	CA02533AA	59	\$55,730.00
HPE 3PAR STORESERV 8000 STORAGE	-	TT3191	59	\$119,590.00

Voice Mail Application Software:

Description	Full Description	Nomenclature	APC	Price
ADD: IMS VOICEMAIL AS - 10K SUBS	-	CA03155AA	59	\$267,680.00
ADD: IMS VOICEMAIL AS - 25K SUBS	-	CA03156AA	59	\$410,480.00
ADD: IMS VOICEMAIL AS - 50K SUBS	-	CA03157AA	59	\$654,360.00
ADD: IMS VOICEMAIL AS - 100K SUBS	-	CA03158AA	59	\$1,142,120.00
ADD: IMS VOICEMAIL AS - 250K SUBS	-	CA03159AA	59	\$1,534,400.00
ADD: IMS VOICEMAIL AS - 500K SUBS	-	CA03160AA	59	\$2,658,320.00
ADD: IMS VOICEMAIL AS - 1M SUBS	-	CA03161AA	59	\$4,618,320.00
ADD: IMS VOICEMAIL AS - 10K SUBS - GEO-REDUNDANT	-	CA03206AA	59	\$273,560.00
ADD: IMS VOICEMAIL AS - 25K SUBS - GEO-REDUNDANT	-	CA03207AA	59	\$416,360.00
ADD: IMS VOICEMAIL AS - 50K SUBS - GEO-REDUNDANT	-	CA03208AA	59	\$666,120.00
ADD: IMS VOICEMAIL AS - 100K SUBS - GEO-REDUNDANT	-	CA03209AA	59	\$1,165,640.00
ADD: IMS VOICEMAIL AS - 250K SUBS - GEO-REDUNDANT	-	CA03210AA	59	\$1,593,200.00
ADD: IMS VOICEMAIL AS - 500K SUBS - GEO-REDUNDANT	-	CA03211AA	59	\$2,980,040.00

Spares

TSP SPARES (CSCF, MTAS):

Description	Full Description	Nomenclature	APC	Price
DUST FILTER UNIT FOR BFD 538	-	DDN2196	59	\$520.00
GENERIC PROCESSOR BOARD: GEP3-24GB	-	DDN2197	59	\$12,790.00
GENERIC PROCESSOR BOARD: GEP3-HD600	-	DDN2198	59	\$15,190.00
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	59	\$2,490.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	59	\$7,090.00

SBG SPARES:

Description	Full Description	Nomenclature	APC	Price
GENERIC PROCESSOR BOARD ASSY W/300G HDD: GEP3-HD300	-	DDN2201	59	\$14,030.00
FAN UNIT ASSEMBLY: PFM HOD	-	DDN2199	59	\$2,490.00
INTELLIGENT SITE EDGE ROUTER: PRINTED BD ASSY/ISER GIGE 1000BASE	-	DDN2202	59	\$24,190.00
MEDIA PACKET PROCESSOR BOARD, PCB ASSEMBLY: MPP4-GE	-	DDN2203	59	\$15,100.00
SYSTEM CONTROL SWITCH BOARD: SCXB2	-	DDN2200	59	\$7,090.00

MRS SPARES:

Description	Full Description	Nomenclature	APC	Price
PRINTED BOARD ASSEMBLY: AMC VPP 1 1 4	-	DDN2204	59	\$4,810.00
20 PRT 10G ETHERNET SWITCH BOARD: CMXB 10GE SWITCH 8 F/12 B CPPHPS	-	DDN2205	59	\$5,950.00
ETHERNET BOARD: ET-IPG; 1GB/S 4 PRT XAUI	-	DDN2206	59	\$7,810.00
GENERAL PURPOSE PROCESSOR BOARD (GPB7): DUAL CORE 1.5GHZ 2GB/2GB	-	DDN2207	59	\$5,650.00
GENERAL PURPOSE PROCESSOR BOARD (GPB): DUAL CORE 1.5GHZ 4GB/2GB	-	DDN2208	59	\$6,630.00
MEDIA STREAM BOARD (MSB): MSB AMC CR	-	DDN2209	59	\$8,110.00
SWITCH CONTROL BOARD SCB-TF: SCB-TF; 4ISL 630MB/S 3X800W	-	DDN2210	59	\$3,110.00
TIMING UNIT BOARD: TUB	-	DDN2211	59	\$2,380.00

ISSI 8000 / CSSI 8000 P25 Interoperability Solutions

Ordering ISSI8000 / CSSI8000 for System Releases 7.16+

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00

Ordering New ISSI8000 Hardware for System Releases 7.13 through 7.15

Description	Full Description	Nomenclature	APC	Price
ISGW SERVER USED FOR ISSI / CSSI	-	SQM01SUM0227	226	\$25,250.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
ISG 1000 FIREWALL W/ 2 YR SUPPORT	-	TT1932	708	\$40,000.00

Operating Licenses

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00

Manual and Automatic Roaming Interface Licenses

Manual Roaming

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Manual Roaming License	Each connection for systems 1-24 requires this option.	UA00004AA	226	\$2,000,000.00

Automatic roaming

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI Automatic Roaming License (for first system)	-	UA00005AA	226	\$2,000,000.00
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 2-5)	Each connection for systems 2-5 requires this option. It is not meant to imply that all 4 connections are included.	UA00184AA	226	\$2,000,000.00
ADD:ISSI AUTOMATIC ROAMING LICENSE (FOR SYSTEMS 6+)	Each connection for systems 6-24 requires this option. It is not meant to imply that all 19 connections are included.	UA00185AA	226	\$2,000,000.00

Simultaneous TalkGroup Call Capacity Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI +10 Addition simultaneous Talk Group Capacity License	-	UA00006AA	226	\$50,000.00

CSSI: Select Number of Operator Position Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: CSSI Operator Position License	-	UA00009AA	226	\$30,000.00

Redundancy

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI 8000 / CSSI 8000 Redundancy Software License	-	UA00042AA	226	\$0.00

Upgrading existing ISSI / CSSI 8000 Systems

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 7.14 SOFTWARE	-	T8023	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.15 SOFTWARE	-	T8145	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.16 SOFTWARE	-	CLN8973	226	\$10,000.00
ISSI 8000 / CSSI 8000 7.17 SOFTWARE	-	CLN9004	226	\$10,000.00

Migrations and Conversions

Description	Full Description	Nomenclature	APC	Price
ADD: ISSI 1 TO ISSI 8000 Product Upgrade License	-	UA00007AA	226	\$0.00

Convert ISSI8000 Manual Roaming to Automatic Roaming

Description	Full Description	Nomenclature	APC	Price
ISSI 8000 / CSSI 8000 UPGRADE Software Licenses	-	T7776	226	\$0.00
ADD: ISSI Manual to Automatic Roaming Upgrade License	This option is only valid if UA00004 has been previously purchased.	UA00008AA	226	\$125,000.00

Key Variable Loader

FLASHport® Aftermarket Upgrades

Models

Description	Full Description	Nomenclature	APC	Price
KVL 4000 FLASHPORT UPGRADE	-	T7586	462	\$100.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 MODE	Please select ASTRO 25 Mode if you would like to enable this feature and already have ASN Mode enabled. Incompatible with CA01635AA.	CA01633AA	462	\$250.00
ADD: ASN MODE	Please select ASN Mode if you would like to enable this feature and already have ASTRO 25 Mode enabled. Incompatible with CA01636AA	CA01798AA	462	\$500.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: KVL RADIO AUTHEN FLASHPORT	Please select Radio Authentication Mode if you would like to enable this feature. ASTRO 25 Mode is required. Incompatible with CA02010AA	QA01767AP	462	\$500.00

Software Refresh

Description	Full Description	Nomenclature	APC	Price
ENH: SW UPGRADE TO CURRENT ASTRO 25	This refresh is REQUIRED if you already have ASTRO 25 Mode enabled in KVL. Not compatible with CA01633AA	CA01635AA	462	\$50.00
ENH: KVL RADIO AUTHENTICATION UPGRADE	This refresh is REQUIRED if you already have Radio Authentication Mode enabled in KVL. Not compatible with QA01767AP	CA02010AA	201	\$50.00
ENH: SW UPGRADE TO CURRENT ASN MODE	This refresh is REQUIRED if you already have ASN Mode enabled in KVL. Not compatible with CA01798AA	CA01636AA	462	\$50.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DVP-XL ENCRYPTION	-	CA01632AA	462	\$750.00
ADD: DVI-XL ENCRYPTION	-	CA01640AA	462	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	CA01638AA	462	\$1,550.00
ADD: ADP PRIVACY	-	CA01641AA	462	\$300.00
ADD: AES ENCRYPTION	-	CA01639AA	462	\$750.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: LOCALIZED ENABLED ENCRYPTION (BR)	-	CA02611	462	\$750.00

KVL 5000

Description	Full Description	Nomenclature	APC	Price
KVL 5000	KVL 5000 (REQUIRED)	T8476B	201	\$6,000.00
ADD: AES ENCRYPTION SOFTWARE	AES Algorithm (REQUIRED)	CA00182AW	201	\$0.00
ADD: ASTRO 25 MODE	ASTRO P25 Software (REQUIRED)	CA03358AA	201	\$0.00
STARTTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQJUSBOTG	207	\$13.00
ADD: NORTH AMERICA MICRO USB CHARGER 100/240V	-	CA03467AA	201	\$0.00
ADD: EURO MICRO USB CHARGER 100/240V	-	CA03360AA	201	\$0.00
ADD: BRAZIL MICRO USB CHARGER 100/240V	-	CA03361AA	201	\$0.00
ADD: ARGENTINA MICRO USB CHARGER 100/240V	-	CA03362AA	201	\$0.00
ADD: UK/HKG MICRO USB CHARGER 100/240V	-	CA03363AB	201	\$0.00
ADD: AUS/NZ MICRO USB CHARGER 100/240V	-	CA03364AA	201	\$0.00
ADD: CHINA MICRO USB CHARGER 100/240V	-	CA03468AA	201	\$0.00
ADD: KOREA MICRO USB CHARGER 100/240V	-	CA03469AA	201	\$0.00
ADD: ADD: DVI-XL ENCRYPTION SOFTWARE	-	C793BM	201	\$750.00
ADD: DVP-XL ENCRYPTION SOFTWARE	-	X769AD	201	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	-	X423AG	201	\$750.00

PORTABLE PROGRAMMING CABLE	-	PMKN4012B	261	\$84.75
BATT IMPRES 2 LIION 2925T	-	PMNN4549A	453	\$80.00
POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,BZL	-	PS000339A08	201	\$31.00
POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,US	-	PS000339A01	201	\$31.00
POWER SUPPLY ADAPTOR,POWER- WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,POWER- WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,CHN	-	PS000339A02	201	\$31.00
POWER SUPPLY ADAPTOR,POWER- WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,AU	-	PS000339A05	201	\$31.00
POWER SUPPLY ADAPTOR,POWER- WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,CHN	-	PS000339A03	201	\$31.00
POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,CHN	-	PS000339A04	201	\$31.00
POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,KOR	-	PS000339A06	201	\$31.00
POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,KOR	-	PS000339A07	201	\$31.00
CABLE MICRO USB PROGRAMMING CABLE	-	CB000262A01	261	\$11.00
CHARGER,CHGR VEHICULAR ADAPTER EXT USB CHGR 5VDC	-	PMPN4119A	785	\$28.00
STARTTECH.COM 5IN MICRO USB TO USB OTG HOST ADAPTER M/F - USB ADAPTER	-	DQUUSBOTG	207	\$13.00
PORTSMITH USB TO ETHERNET RUGGED ENCAPSULATED FOR ANDROID	-	DQPSA1UB1EE	207	\$193.00
ADD: ADP PRIVACY	-	CA00243AJ	201	\$300.00
CABLE KEYLOADING ADAPTER CGAI	-	HKN6182B	362	\$163.00

KVL 5000
Key Variable Loader
FLASHport® Aftermarket Upgrades

Description	Full Description	Nomenclature	APC	Price
KVL 5000 UPGRADE	KVL 5000 FLASHPORT UPGRADE	T8500	201	\$100.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD:UPGRADE SW TO LATEST VERSION FOR ASTRO P25 MODE	Upgrade SW to Latest Version for ASTRO P25 Mode NOTE: THIS IS REQUIRED	CA03455AA	201	\$50.00

ALGOS

Description	Full Description	Nomenclature	APC	Price
ADD: ADP ENCRYPTION	ADD: ADP ENCRYPTION	CA01641AB	462	\$300.00
ADD: DVP-XL ENCRYPTION	ADD: DVP-XL ENCRYPTION	CA01632AB	462	\$750.00
ADD: DES/DES-XL/DES-OFB ENCRYPTION	ADD: DES/DES-XL/DES-OFB ENCRYPTION	CA01638AB	462	\$1,550.00
ADD: DVI-XL ENCRYPTION	ADD: DVI-XL ENCRYPTION	CA01640AB	462	\$750.00

ASTRO® KMF Crypto Card
FLASHport® Universal Crypto Module (UCM) Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	-	CA00147AB	137	\$1,000.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: DES OFB ENCRYPTION KIT	-	CA00143AA	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AA	137	\$750.00
ADD: AES ENCRYPTION KIT	NOTE: If a customer has an existing 3.1 KMF they can not add the AES Encryption Kit (CA00182AC) unless their current KMF software application is at version R1.11.1 or higher. Please work with system engineering when adding AES encryption to a 3.1 KMF.	CA00182AC	137	\$750.00

Key Management Facility

NEW KMF – SERVER, CLIENT, CRYPTR, REDUNDANCY
KMF SERVER & CLIENT (REQUIRED)
REQUIRED FOR KMF SERVER & CLIENT:

Description	Full Description	Nomenclature	APC	Price
ASTRO KEY MANAGEMENT FACILITY	Note: Does NOT support customers using 3.1 Conventional	T8749	137	\$0.00
ADD: KMF SERVER AND WEB CLIENT SW	(Note: Includes, 4,000 devices, 4 agencies, 65 clients)	ZA01180AA	137	\$88,000.00
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00

OPTIONAL FOR KMF SERVER & CLIENT:

Software Options

Description	Full Description	Nomenclature	APC	Price
ADD: 15 AGENCIES PARTITIONING	Max Agencies is 64. To get to max agencies, add license (4) times	CA03650AA	137	\$13,750.00
ADD: 15,000 CAPACITY	Max Capacity is 64,000. To get to max capacity, add license (4) times	CA03651AA	137	\$30,000.00
ADD: TOUCHLESS KEY PROVISIONING	Available for customers using APX Next & Radio Central	CA03643AA	137	\$15,000.00

Anti-Virus Software For Server & Client

Description	Full Description	Nomenclature	APC	Price
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license.NOTE - MGEES DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00

KMF CRYPTR (REQUIRED)
ALGOS FOR KMF CRYPTR:

Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

Accessories/Replacement Items

Description	Full Description	Nomenclature	APC	Price
CABLE FOR RNC, DIU MGE	Keyloading cable for KMF CryptR	TKN8531C	362	\$260.00
U.S. ROBOTICS USB FAX MODEM - REQD FOR KVL-KMF REMOTE COMMUNICATION	USB MODEM REQUIRED FOR KVL-KMF COMMUNICATION REMOTELY	DSUSR5637MODEM	708	\$250.00
POWER ADAPTER CABLE	-	DLN6739	811	\$65.00
MINI USB CABLE	-	DLN6735	811	\$25.00
TRANSFORMER/AC ADAPTER	-	DLN6732	811	\$35.00

KMF REDUNDANCY (OPTIONAL)
REQUIRED FOR KMF REDUNDANCY:

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
WEB KMF REDUNDANCY SW	-	DLN8034	137	\$57,150.00
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00

Description	Full Description	Nomenclature	APC	Price
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00

A line cord must be ordered with each KMF CRYPTR.
Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

UPGRADES

KMF SERVER & WEB CLIENT SOFTWARE UPGRADES

Description	Full Description	Nomenclature	APC	Price
ADD: KMF REDUNDANCY SOFTWARE	ADD: KMF REDUNDANCY SW	CA01229AA	137	\$14,000.00
ADD: KMF SERVER AND WEB CLIENT SW	ADD: KMF SERVER AND WEB CLIENT SW	CA03599AA	137	\$27,500.00

KMF FEATURE UPGRADES for 7.18.0442 or earlier

Description	Full Description	Nomenclature	APC	Price
KMF UPGRADE OPTIONS KIT	-	T7689	137	\$0.00
ADD: MORE THAN 1000 RADIO USERS	(Note:??Provides up to 64,000 users)	ZA00861AA	137	\$75,000.00
64 AGENCY PARTITIONING	(Note:??Provides the capability of dividing the KMF database into 64 agencies)	ZA00975AA	137	\$50,000.00
ADD: ADDITIONAL CLIENT LICENSE	(Note:??Additional client licenses, up to an orderable quantity of 8, for total client licenses of 10 with the 2 included)	ZA00864AA	137	\$15,000.00
ADD: 11-32 Client Licenses	(Note:??Client Option Bundle beyond 10 client licenses)	ZA00972AA	137	\$75,000.00
ADD: 33-65 Client Licenses	(Note:??Client Option Bundle beyond 32 client licenses, maximum of 65 total client licenses)	ZA00973AA	137	\$75,000.00

REQUIRED FOR CUSTOMERS WISHING TO ADD REDUNDANCY TO THEIR EXISTING KMF (WEB BASED THIN CLIENT) 07.18.0442 or Earlier:

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC SOFTWARE OPTION	KMF CryptR SW	CA00147AG	137	\$3,500.00
KMF DL360 G10 SERVER	KMF Server	T8698	137	\$14,500.00
KMF CRYPTR	KMF CryptR	SQM01SUM0222	137	\$750.00
RACK MOUNT KIT FOR CRYPTR II	-	TKN9285	811	\$135.00
WEB KMF REDUNDANCY SW	-	DLN7003	137	\$57,150.00

Encryption Algorithm Kit choices are:

Description	Full Description	Nomenclature	APC	Price
ADD: DVI XL ENCRYPTION KIT	-	CA00145AM	137	\$750.00
ADD: DES XL ENCRYPTION KIT	-	CA00144AE	137	\$750.00
ADD: DES OFB ENCRYPTION KIT	-	CA00143AF	137	\$750.00
ADD: AES 256 ENCRYPTION KIT	-	CA00182AV	137	\$750.00
ADD: DVP XL ENCRYPTION KIT	-	CA00146AN	137	\$750.00

A line cord must be ordered with each KMF CRYPTR.
Line Cord choices are:

Description	Full Description	Nomenclature	APC	Price
AC Line Cord, UK	-	CA02064AA	137	\$0.00
AC Line Cord, Australia	-	CA02063AA	137	\$0.00
AC Line Cord, European	-	CA02065AA	137	\$0.00
AC Line Cord, North America	-	CA02066AA	137	\$0.00

KMF CRYPTR SOFTWARE UPGRADE

Description	Full Description	Nomenclature	APC	Price
KMF CRYPTR SOFTWARE CD UPGRADE	-	T8209	137	\$100.00

KMF CRYPTR ENCRYPTION (ALGORITHM) UPGRADE

Description	Full Description	Nomenclature	APC	Price
KMF CryptR Encryption CD Upgrade Kit	To Add Algos	T7766	137	\$50.00

LEX L11 PUSH-TO-TALK LTE DEVICE

STEP 1: MODEL

NOTE: LEX L11 Handheld Includes the device with Standard battery, Standard battery cover, USB-A wall charger, Data/Charging cable, Quick start guide and Safety/Regulatory guide.

Description	Full Description	Nomenclature	APC	Price
LEX L11 HANDHELD NA REGION	LEX L11 HANDHELD	HK2108	790	\$1,000.00

STEP 2: BATTERY OPTIONS (OPTIONAL)

If no battery option is selected, the LEX L11 will ship with the standard 2500 mAh battery. Selecting this option replaces the standard battery and battery cover with the high capacity battery and battery cover.

Description	Full Description	Nomenclature	APC	Price
ADD: IMPRES 2 LI-ION 5000 MAH BATTERY (PMNN4546)	-	QA07392AA	790	\$50.00

STEP 3: OTHER DEVICE OPTIONS (OPTIONAL)

Select one of these options if required.

DESCRIPTION	FULL DESCRIPTION	NOMENCLATURE	APC	PRICE
LEXL11 TRADE AGREEMENT ACT MODEL	THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT	QA02850UM	790	\$100.00
LEXL11 BLACK COVERT MODEL	THIS CONFIGURATION INCLUDES BLACK EMERGENCY BUTTON, NO GREEN RING ROUND THE PTT BUTTON OR CAMERA AND NO WHITE LINE OR +/- ON THE TALKGROUP ROCKER	QA02850ZT	790	\$50.00
LEX L11 BLACK COVERT - TRADE AGREEMENT ACT MODEL	THIS OPTION IS FOR CUSTOMERS THAT REQUIRED COMPLIANCE WITH THE TRADE AGREEMENT ACT, AND ARE INTERESTED IN BLACK COVERT MODEL	QA08225AA	790	\$100.00

STEP 4: SFS OPTIONS (MUST SELECT ONE)

The LEX L11 has choices for service & repair coverage levels. Select Essential Service with fast repair turnaround time, add on Accidental Damage to protect your investment, or choose the standard one year warranty

Description	Full Description	Nomenclature	APC	Price
3YR ESSENTIAL SERVICE	3YR ESSENTIAL SERVICE	VA00898AA	185	\$38.00
3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	3YR ESSENTIAL SERVICE W ACCIDENT DAMAGE	VA00906AA	185	\$90.00
DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	DEL: NO ESSENTIAL STANDARD WARRANTY APPLIES	QA06507AC	790	\$0.00

STEP 5: SOFTWARE SUBSCRIPTION (MUST BE ORDERED)

NOTE: This software must be ordered or the device will not have access to software updates. Qty 1 per order is sufficient for any qty. of devices, but every order must include this line item.

Description	Full Description	Nomenclature	APC	Price
3YR SOFTWARE SUBSCRIPTION LTE	-	HKVN4631A	206	\$0.00

ADDITIONAL SOFTWARE CAPABILITIES

Description	Full Description	Nomenclature	APC	Price
SOFTWARE, MULTI PERSONA CAPABILITY LICENSE	Secure Multi-Persona capability enables the creation of multiple cryptographically and temporally isolated personas on a single device.	HKVN4856A	790	\$1,000.00

AFTERMARKET ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
COVER-COVER, COVER, BATTERY, SLIM	ADD: Standard Battery Back Cover	HN001154A01	790	\$12.00
BATTERY PACK, BATT IMPRES2 LIION IP68 2500T	Battery IMPRES2 LIION 2500	PMNN4545A	453	\$99.75
COVER-COVER, COVER, BATTERY, HI CAP	ADD: High Capacity Battery Back Cover	HN001155A01	790	\$15.00
BATTERY PACK, BATT IMPRES2 LIION IP68 5000T	Battery IMPRES2 LIION 5000	PMNN4546A	453	\$131.00
CABLE, 1000 MM, LEX L11 USB A TO USBC	Works with wall charger P5000150A351 (purchased separately) .	CB000756A01	790	\$20.00
CABLE, 1000 MM, LEX L11 USBC TO USBC	Works with wall charger P5000278A01.	CB000754A01	790	\$40.00
COVER-DOOR, PLUG, MICROSD SLOT, L11	MICRO SD PLUG (package of 5)	HN001197A01	790	\$10.00
COVER-DOOR, INTERNAL, NANO SIM DOOR TRAY	NANO SIM DOOR TRAY (package of 5)	HN001195A01	790	\$10.00
CHGR VEHICULAR ADAPTER	Vehicular Charging Cable	PMLN7779A	785	\$64.75
CARRY ACCESSORY-HOLSTER, CARRY HOLSTER WITH PETER JONES BELT CLIP FOR L	Carry Holster This holster includes a Peter Jones stud. Please select one of the following Peter Jones attachment clips for the holster:	PMLN7845A	271	\$54.00
PETER JONES CLAMP DOCK BELT CLIP WITH KLICK FAST	This belt clip can be attached to shirt or trouser pockets, jackets and belts.	GMDN0512A	271	\$16.25
PETER JONES BELT DOCK 38MM	This belt dock can be used with belts 38mm in width.	GMDN0497A	607	\$11.50
LEATHER BELT LOOP AND DOCK	Includes a leather loop for belts up to 50mm in width.	GMDN0566AC	607	\$30.25

PETER JONES SCREW MOUNT	Used with garments that accommodate screw-to-fit docks.	WALN4307	607	\$19.50
CARRYCASE ASSEMBLY:CLAMSHELL,PLAS,S	Sew-on dock for mounting on uniforms, body armor, and other clothing types.	GMDN0386A	607	\$13.00
CHGR DESKTOP MULTI UNIT IMPRES 2 1 DISPLAY EXT PS US	Includes 12 charging slots. Each slot can accommodate a device with standard or high capacity battery OR a standalone standard or high capacity battery.	PMPN4349A	785	\$1,620.00
CHGR DESKTOP DUAL UNIT IMPRES 2 EXT PS NA	Includes 2 charging slots: 1 slot accommodates the device with either standard or high capacity battery; the other slot accommodates a spare standard or high capacity battery.	PMPN4359A	785	\$108.00
ACCESSORY KIT, CRADLE VEHICULAR, WITH SUCTION BASE	Includes a vehicular cradle and Ram mount. Vehicular charging cable (PMLN7779A) should be ordered separately.	PMLN7912A	785	\$108.00
3.5MM MONO EARBUD W MIC/PTT	3.5mm earbud with inline microphone and push-to-talk	PMLN7540A	607	\$24.75
3.5MM 2-WIRE EARPIECE W TRANS/TUBE	3.5mm two-wire earpiece with translucent tube	PMLN7541A	607	\$74.50
PS WALL 100-240V FIXED BLADE US/JP PPS L6 USB-C	Use this Wall Charger with CB000754A01. Quick charging Wall Cable.	PS000278A01	785	\$23.75
PS WALL 240VAC UNIVERSAL US/JPN ADAPTER 5VDC/1.5A L6 USB-A DETACHABLE	Use this Wall charger with CB000756A01. Standard Wall Charging Cable.	PS000150A31	785	\$16.25
PETER JONES LEATHER BELT CLIP WITH KLICK FAST	-	GMDN0513A	271	\$18.00

LXN 6000 LTE Deployable Infrastructure

Models

* Please Note: Applications are not included in this pricing and will be priced separately.

Deployable Supermodel:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 BASE HARDWARE & EMS SOFTWARE	-	SQM01SUM0297	60	\$107,730.00

Deployable Software License Tiers:

Description	Full Description	Nomenclature	APC	Price
ADD: LXN EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00448AA	60	\$79,390.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00449AA	60	\$97,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00450AA	60	\$126,850.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00451AA	60	\$156,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00452AA	60	\$186,190.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 1500 SUBS	-	UA00453AA	60	\$245,520.00
ADD: LXN EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00454AA	60	\$304,850.00

LTE Deployable per eNB License:

Description	Full Description	Nomenclature	APC	Price
LXN 6000 ENB LICENSE	-	T8367	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

LTE Deployable Incremental per eNodeB License:

Description	Full Description	Nomenclature	APC	Price
INCREMENTAL LXN PER ENB LICENSE	-	T8396	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

Options

eNB Types (bands):

When ordering eNodeBs for the deployable, the following GPS kit is mandatory:

GPS Kit

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
GPS ANTENNA CABLE	-	DDN1885	66	\$3,391.00

LXN 7100 LTE ENTRY LEVEL FIXED CORE INFRASTRUCTURE

Models

* Please note: Applications are not included in this pricing and will be priced separately.

LXN 7100 Supermodel

Description	Full Description	Nomenclature	APC	Price
LXN 7100 FIXED CORE	-	SQM01SUM0325	60	\$0.00

Hardware Kit

Description	Full Description	Nomenclature	APC	Price
ADD: LXN SERVER HARDWARE KIT - G10	-	CA03835AA	60	\$77,818.00
ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	60	\$115.00
ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	60	\$20.00

Software Kit

Description	Full Description	Nomenclature	APC	Price
ADD: LXN SOFTWARE KIT - G10	-	CA03836AA	60	\$175,000.00

High Availability Options

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7K00 HA LICENSE	-	CA03833AA	60	\$0.00
ADD: LXN 7100 HA LOCAL REDUNDANCY LICENSE KIT	-	UA00713AA	60	\$50,500.00
ADD: LXN 7100 HA GEO REDUNDANCY LICENSE KIT	-	UA00714AA	60	\$50,500.00

Software License Tiers

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7K00 SOFTWARE LICENSES	-	CA03834AA	60	\$0.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00716AA	60	\$140,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00717AA	60	\$145,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00718AA	60	\$155,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00719AA	60	\$165,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00720AA	60	\$186,190.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00722AA	60	\$236,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 3000 SUBS	-	UA00765AA	60	\$286,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 4000 SUBS	-	UA00766AA	60	\$336,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 5000 SUBS	-	UA00767AA	60	\$386,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 10000 SUBS	-	UA00768AA	60	\$476,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 15000 SUBS	-	UA00769AA	60	\$566,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 20000 SUBS	-	UA00770AA	60	\$656,190.00

LXN per eNodeB License

Description	Full Description	Nomenclature	APC	Price
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

GPS Kit

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
GPS ANTENNA CABLE	-	DDN1885	66	\$3,391.00

Rekeying Utility 'RKU'

Models

Rekeying Utility:

Description	Full Description	Nomenclature	APC	Price
REKEYING UTILITY (RKU)	-	SQM01SUM0306	56	\$0.00
RKU APPL	-	T8415	56	\$0.00
ADD: APPL LICENSE, RKU	-	UA00531AA	56	\$75,000.00

SIM Capacity:

Description	Full Description	Nomenclature	APC	Price
ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00529AA	56	\$8.00
ADD: 50000-99,999 SIM CAPACITY LICENSE	-	UA00530AA	56	\$6.00
RKU SIM CAPACITY	-	T8417	56	\$0.00

RKU Hardware:

Description	Full Description	Nomenclature	APC	Price
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	56	\$45,970.00

SAFENET HSM MODULE POWER CABLE	-	DDN2278	56	\$40.00
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	56	\$421.00
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	56	\$40.00
RKU PRINTER CLEANING KIT	-	DDN2280	56	\$90.00
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	56	\$8,110.00
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	56	\$206.00

SIM Capacity Expansion:

Description	Full Description	Nomenclature	APC	Price
ADD: 1-49999 SIM CAPACITY LICENSE	-	UA00564AA	56	\$8.00
ADD: 50000-99999 SIM CAPACITY LICENSE	-	UA00565AA	56	\$6.00
RKU SIM CAPACITY EXPANSION	-	T8440	56	\$0.00

Spares

FRU:

Description	Full Description	Nomenclature	APC	Price
SAFENET LUNA SA 1700 LOCAL PED BNDL	-	DDN2277	56	\$45,970.00
SAFENET HSM MODULE POWER CABLE	-	DDN2278	56	\$40.00
RKU PRINTER YMCKK RIBBON F/HDP5000	-	DDN2279	56	\$421.00
OMNIKEY 3121 SMART CARD READER (SCR	-	DDN2295	56	\$40.00
RKU PRINTER CLEANING KIT	-	DDN2280	56	\$90.00
RKU HDP5000 SMART CARD ENCODER W/DU	-	DDN2281	56	\$8,110.00
FARGO YMCKH FULL COLOR RIBBON	-	DDN2320	56	\$421.00
HID FARGO PRINTER RETRANSFER FILM	-	DDN2305	56	\$206.00

LXN 505 LTE ULTRA PORTABLE

Models

COF/R12 :

Description	Full Description	Nomenclature	APC	Price
LXN 505 4G/LTE BC28 5W BASESTATION	LXN 505 4G/LTE BC28 5W BASESTATION, includes Wi-Fi modem	TT3553	569	\$75,000.00

Mandatory Items

Description	Full Description	Nomenclature	APC	Price
LXN 505 ULTRA PORTABLE STAGING	-	DSLXN505STAGESVS	569	\$2,240.00
LXN 505 5DBI 700-960 MHZ ANTENNA	-	DDN2839	569	\$1,088.00

ACCESSORIES

Please select the accessories that you need from the table below.

Description	Full Description	Nomenclature	APC	Price
BB-2590/U 8.7 H LOW TEMP RECHARGEAB	BB-2590/U 8.7 H LOW TEMP RECHARGEABLE LITHIUM ION BATTERY	DDN3062	569	\$690.00
BB-2590/390/2557 FULL CHARGER MEDIU	BB-2590/390/2557 FULL CHARGER MEDIUM RATE	DDN3063	569	\$599.00
MANPACK BACKPACK FOR LXN 505	-	TT3554	569	\$1,280.00
LXN 505 LTE MODEM	-	DDN2866	569	\$480.00
NEW WAVE SYSTEM	-	TT3142	892	\$0.00
SOFTWARE,WAVE SERVER LICENSING	-	TT06266AA	892	\$9,995.00
ARUS - 1 YEAR - WAVE SERVER LICENSING	-	TT06172AA	551	\$1,799.00
WAVE COMMUNICATION CHANNEL-NO RADIO SYSTEM INTEGRATION	-	TT06267AA	892	\$995.00
ARUS - 1 YEAR - WAVE COMM CHANNEL - NO RADIO SYS INTEGRATION	-	TT06178AA	551	\$179.00
WAVE MOBILE COMMUNICATOR ANDROID & IOS	-	TT06207AA	892	\$295.00
ARUS - 1 YEAR - WAVE MOBILE COMMUNICATOR (ANDROID OR IOS)	-	TT06208AA	551	\$53.00
WIN SVR EMB STD 2016 64BIT MULTILANG ESD OEI 16 CORE STD	-	DS6FA002971PK	156	\$1,212.00

LXN 7900 PRIVATE LTE FIXED CORE INFRASTRUCTURE

LXN 7900 SUPERMODEL

Please note: Applications are not included in this pricing and will be priced separately.

Description	Full Description	Nomenclature	APC	Price
LXN 7900 FIXED CORE	-	SQM01SUM0334	60	\$175,000.00

HIGH AVAILABILITY CONFIGURATIONS

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7100 HA LOCAL REDUNDANCY LICENSE KIT	-	UA00713AA	60	\$50,500.00
ADD: LXN 7100 HA GEO REDUNDANCY LICENSE KIT	-	UA00714AA	60	\$50,500.00

CBRS LICENSES

Description	Full Description	Nomenclature	APC	Price
MULTI SERVER AND REDUNDANCY PER NETSPAN INSTANCE	Multi Server & Redundancy per Netspan instance	DSNSREDU0N	156	\$15,000.00
NETSPAN DOMAIN PROXY TO SAS X.509 CERTIFICATE	Netspan Northbound interface	DSNSCBRSDP5	156	\$3,810.00
NETSPAN NORTHBOUND INTERFACE	Enablement of Netspan interface with SAS and Domain Proxy settings	DSNSNBIFEXT0	156	\$21,000.00
ENABLEMENT OF NETSPAN INTERFACE WITH SAS AND DOMAIN PROXY SETTINGS	Netspan Domain Proxy to SAS X.509 Certificate	DSNSCBRS0	156	\$0.00
SYSLOG	Syslog	DSNSSYSLOG0	156	\$0.00
CBRS WATCHER	CBRS Watcher	DSNSDPHA0	156	\$0.00
NETSPAN DUAL-CARRIER/SECTOR LICENSE FOR RELEVANT AIRVELOCITY/AIRUNITY	Dual Carrier	DSVELSDUALC	156	\$220.00

Software License Tiers

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 100 SUBS	-	UA00716AA	60	\$140,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 250 SUBS	-	UA00717AA	60	\$145,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 500 SUBS	-	UA00718AA	60	\$155,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 750 SUBS	-	UA00719AA	60	\$165,000.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 1000 SUBS	-	UA00720AA	60	\$186,190.00
ADD: LXN 7100 EPC & SUB PROVISIONING LICENSE - 2000 SUBS	-	UA00722AA	60	\$236,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 3000 SUBS	-	UA00765AA	60	\$286,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 4000 SUBS	-	UA00766AA	60	\$336,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 5000 SUBS	-	UA00767AA	60	\$386,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 10000 SUBS	-	UA00768AA	60	\$476,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 15000 SUBS	-	UA00769AA	60	\$566,190.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 20000 SUBS	-	UA00770AA	60	\$656,190.00

LXN per eNB License

Description	Full Description	Nomenclature	APC	Price
LXN 6000 ENB LICENSE	-	T8367	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

LXN Incremental per eNodeB License

Description	Full Description	Nomenclature	APC	Price
INCREMENTAL LXN PER ENB LICENSE	-	T8396	60	\$0.00
ADD: LXN LICENSE BUNDLE 1 ENB	-	UA00469AA	56	\$950.00

SERVICES

DESCRIPTION	FULL DESCRIPTION	NOMENCLATURE	APC	PRICE
LTE SYSTEM ESSENTIAL	-	LSV04S00667B	361	SYSTEM DEPENDENT
LTE SYSTEM ADVANCED	-	LSV04S03012A	941	SYSTEM DEPENDENT
OPTIONAL: LTE INFRA REPAIR W_ADV REPL	-	SVC01SVC0392A	33	SYSTEM DEPENDENT

Expansion for LTE 7900 Tiers

Description	Full Description	Nomenclature	APC	Price
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 100-250 SUBS	-	UA00771AA	60	\$5,950.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 250-500 SUBS	-	UA00772AA	60	\$11,900.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 500-750 SUBS	-	UA00773AA	60	\$11,900.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 750-1000 SUBS	-	UA00774AA	60	\$25,220.00

ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 1000-2000 SUBS	-	UA00775AA	60	\$59,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 2000-3000 SUBS	-	UA00776AA	60	\$59,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 3000-4000 SUBS	-	UA00777AA	60	\$59,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 4000-5000 SUBS	-	UA00778AA	60	\$59,500.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 5000-10000 SUBS	-	UA00779AA	60	\$107,100.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 10000-15000 SUBS	-	UA00780AA	60	\$107,100.00
ADD: LXN 7K00 EPC & SUB PROVISIONING LICENSE - 15000-20000 SUBS	-	UA00781AA	60	\$107,100.00

MACH Alert Fire Station Alerting

Description	Full Description	Nomenclature	APC	Price
ADD TTS MODULE FOR SERVER	-	TT2493	708	\$630.00
CANCELLED - MACH ALERT OPERATOR VIEW TERMINAL	-	TT2508	708	\$4,900.00
BASIC STATION CONTROLLER ASSEMBLY LESS ACE3600	-	TT2494	708	\$5,020.00
AIC - ALERTING INTERFACE CONTROLLER LESS ACE3600	-	TT2490	708	\$480.00
MOUNT ANALOG VOICE DISPATCH RADIO	-	TT2496	708	\$190.00
ADD 4 CHANNEL PRIORITY IP MIXER	-	TT2495	708	\$3,500.00
MOUNT DIGITAL VOICE DISPATCH RADIO	-	TT2497	708	\$130.00
MACH ALERT RACKMOUNT SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2506	708	\$16,290.00
MACH ALERT TOWER SERVER HARDWARE FOR UP TO 128 STATIONS	-	TT2500	708	\$12,230.00

Description	Full Description	Nomenclature	APC	Price
MACH ALERT CLIENT LICENSE FOR UP TO 128 STATIONS	-	TT2505	708	\$9,810.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2504	708	\$25,520.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 25 STATIONS	-	TT2510	708	\$42,770.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2509	708	\$60,450.00
MACH ALERT CLIENT LICENSE FOR UP TO 25 STATIONS	-	TT2507	708	\$7,010.00
STATION CONTROLLER SOFTWARE LICENSE	-	TT2488	708	\$1,250.00
MACH ALERT CLIENT LICENSE FOR UP TO 64 STATIONS	-	TT2514	708	\$6,700.00
MACH ALERT PRIMARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2501	708	\$92,710.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 128 STATIONS	-	TT2502	708	\$53,730.00
MACH ALERT SECONDARY SOFTWARE LICENSE UP TO 64 STATIONS	-	TT2503	708	\$37,260.00
AIC-128 SOFTWARE	-	TT2511	708	\$1,830.00

MC Series DESKTOP CONTROLLERS

Description	Full Description	Nomenclature	APC	Price
MC2500 MULTI-CHANNEL DESKSET	-	L3217	124	\$2,482.00
MC1000 BASIC TONE DESKSET	-	L3213AC	124	\$545.00
REMOTE ADAPTER	-	L3276AC	124	\$695.00
DC REMOTE ADAPTER	-	L3277AC	124	\$552.00

Description	Full Description	Nomenclature	APC	Price
LOCAL JUNCTION BOX	For connecting up to 6 local control desksets to the station.	DDN6337	124	\$399.00
RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	454	\$138.00

Description	Full Description	Nomenclature	APC	Price
AUDIO ACCESSORY JACK BOX	Provides connection for single headset. Compatible with both 6-wire and 4-wire headsets.	DDN6516	124	\$110.00

Description	Full Description	Nomenclature	APC	Price
MC2500 POWER SUPPLY	-	DDN6339	124	\$350.00
REMOTE ADAPTER 12V DC POWER CABLE, BARE LEADS	-	DDN7067	124	\$75.00

Description	Full Description	Nomenclature	APC	Price
RACKMOUNT SHELF	19 in. shelf mounts the following: 2 Digital Junction Boxes (L3208), 2 Remote Adapters (L3276/L3277) 4 I/O Modules (DDN6926)	DDN6335	124	\$170.00

Description	Full Description	Nomenclature	APC	Price
RSS PROGRAMMING CABLE WITH DB25 CONNECTOR 10 FT	-	DDN6124	124	\$35.00
PROGRAMMING CABLE WITH DB9 CONNECTOR	-	DDN6367	124	\$35.00

Description	Full Description	Nomenclature	APC	Price
1A SLOW BLOW FUSE KIT FOR DESKSET PRODUCTS	FOR MC1000, MC2000, MC2500, MC3000, Digital Junction Box and Remote Adapters.	DDN7278	124	\$65.00
2A SLOW BLOW FUSE KIT FOR MC2500	-	DDN7284	124	\$65.00
2.5A FAST BLOW FUSE KIT FOR MC2000	-	DDN7285	124	\$65.00
18 BLACK BUTTON KIT FOR MC SERIES DESKSETS	Provides 18 black covers that can be used to hide unused buttons on the Desksets.	DDN7387	124	\$55.00

MCC 5500 DISPATCH CONSOLE

Dispatch Console System

Description	Full Description	Nomenclature	APC	Price
MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT	Includes 10 in. cable connection to PC, power supply unit, and operator license. Speakers are NOT included with this model, they are to be ORDERED separately (B1912). This model is for R2.0 and beyond. NOTE: 50 in. Cable for CES is NO LONGER automatically included with L3359. Must order TT05088AA for the 50 in. Cable for CES. Note: CAB II PSU IS CALIFORNIA COMPLIANT.	L3359AC	322	\$8,433.00
CONSOLE ELECTRONIC SHELF (CES) II	Includes COP and power supply. This model is for R2.0 and beyond.	L3358	322	\$9,500.00

Description	Full Description	Nomenclature	APC	Price
ADD: 50' CES/CAB CABLE	ORDER with L3359 to add 50 in. CAB/CES cable	TT05088AA	322	\$150.00
ADD: 100' CAB/CES CABLE	ORDER with L3359 to add 100 in. CAB/CES cable	TT04083AA	322	\$320.00

Description	Full Description	Nomenclature	APC	Price
ADD: REMOTE OPERATOR OPTION	ORDER with L3359 Model.	TT04080AA	322	\$2,400.00
ADD: CAB II RACK MOUNT KIT	ADDS rack mounting hardware to the CAB II (L3359). CAB comes ready to install in the rack.	TT04218AA	322	\$95.00

Description	Full Description	Nomenclature	APC	Price
ADD: TWO (2) CO INTERFACE FOR TELEPHONE II	ORDER with L3358 Model.	TT04213AA	322	\$520.00

Description	Full Description	Nomenclature	APC	Price
ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION	ORDER with L3358. Provides a total of 3 years service and support on new systems with advanced replacement. Service Plan covers all components of the operator position including CES, CAB, Speakers, Microphone, Headset Jackboxes and Footswitch. Does not include PC, Monitor or Headsets.	CA00957AA	150	\$900.00
ENH: (2) YR EXT SVC PL A/ADV RPLCMT ON EACH ADDITIONAL CES	ORDER with L3358. Provides a total of 3 years service and support on new systems with advanced replacement for CES with no CAB.	CA00958AA	150	\$485.00

Description	Full Description	Nomenclature	APC	Price
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MCC SERIES I/O SHELF W/ CONTROLLER ADD: MCC SERIES I/O MODULE II	Includes 12 Inputs and 6 Outputs. Additional I/O modules (TT04532AA) can be added (up to 3). ORDER with L3468 Model. Includes 12 Inputs and 6 Outputs.	L3468 TT04532AA	322 322	\$1,100.00 \$800.00
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DAP II Modules - Channels

DAP II Modules

Each CES can support up to 3 DAP II Modules.

Description	Full Description	Nomenclature	APC	Price
DAP II FOR ANALOG CONTROLCHANNEL INTER	-	L3550	322	\$2,300.00
DAP II FOR DC CONTROL CHANNEL INTERFACE ONLY ADD: DC CONTROL MODULE (4 CHANNELS)	-	L3551 TT04090AA	322 322	\$2,300.00 \$750.00

DAP II Module - Channel Options

Description	Full Description	Nomenclature	APC	Price
ADD: 2 ANALOG CHANNELS WITH LICENSE R2.5	Order with L3550 or L3551 - adds two further analog channels (licenses included)	TT05247AA	322	\$2,000.00
ADD: 2 SB9600 CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two SB9600 channels, or changes default analog channel to SB9600 (licenses included) SB9600 channel can also be configured as SB9600 or analog.	TT05248AA	322	\$2,300.00
ADD: 2 DIGITAL CHANNELS WITH LICEN	ORDER with L3550 or L3551- adds two Digital (ASTRO) channels, or changes default analog channel to Digital(licenses included) Digital channel can also be configured as SB9600 or analog.	TT05249AA	322	\$2,500.00
ADD: 2 IDEN CHANNELS WITH LICENSE R2.5	ORDER with L3550 or L3551 - adds two iDEN channels, or changes default analog channel to iDEN(licenses included) iDEN channel can also be configured as Digital, SB9600, or analog.	TT05245AA	322	\$2,700.00

Console System Software

Description	Full Description	Nomenclature	APC	Price
CSDM PROGRAM	System CD contains all system software and systems manuals (hard copy)	DDN6916	322	\$2,000.00

Cable for CSDM Computer

Description	Full Description	Nomenclature	APC	Price
CSDM COMPUTER CABLE (DB09) 25 FEET	Required cable for CSDM Programming Software (DDN6916).	DDN6924	322	\$90.00

PC Equipment

NOTE: The HP Z2 Mini Workstation does not contain a built-in DVD Drive. Make sure to order at least one (1) USB External DVD Drive for each dispatch center for use when installing or upgrading MCC 5500 system software.

Description	Full Description	Nomenclature	APC	Price
Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSC 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00

Information Assurance (OS Hardening CDs)

Description	Full Description	Nomenclature	APC	Price
IA TRANSPARENT CD - (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2483A TT2483 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2483	322	\$50.00
IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)	TT2482 is ONLY compliant with Motorola Certified PCs (Win 7), TT2537, TT2739, or TT2833	TT2482	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	TT3194 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3194	322	\$50.00
MCC5500 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT CD	TT3195 is ONLY compliant with Motorola Certified PCs (Win 10), TT3106 or TT3225	TT3195	322	\$50.00

Dispatch Console Position - Audio Accessories

Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$500.00
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$650.00

Cables

T3 Cables to Connect to CES Shelves

Description	Full Description	Nomenclature	APC	Price
T3 CABLE 2 FEET	This T3 cable is used to connect CES shelves together between adjacent shelves in a rack.	DDN6918	322	\$180.00
T3 CABLE 5 FEET	This T3 cable is used to connect CES shelves together between shelves in a rack.	DDN6919	322	\$200.00
T3 CABLE 10 FEET	This T3 cable is used to connect CES shelves together between shelves in adjacent racks.	DDN6920	322	\$250.00
T3 CABLE 25 FEET	This T3 cable is used to connect CES shelves together between shelves in a non-adjacent rack.	DDN6921	322	\$300.00

Cables to Connect to CES to CAB

Description	Full Description	Nomenclature	APC	Price
CES/CAB CABLE 50 FOOT	-	DDN6917	322	\$175.00
CES/CAB 100 FOOT CABLE	-	DDN7094	322	\$420.00
CES/CAB CABLE 200 FOOT	-	DDN1051	322	\$563.00
CES/CAB CABLE 300 FOOT	-	DDN1052	322	\$640.00
CES/CAB CABLE 500 FOOT	-	DDN1053	322	\$1,175.00
CES/CAB PLENUM CABLE 100 FOOT	-	DDN1055	322	\$789.00
CES/CAB PLENUM CABLE 200 FOOT	-	DDN1056	322	\$1,200.00
CES/CAB PLENUM CABLE 300 FOOT	-	DDN1057	322	\$2,170.00
CES/CAB PLENUM CABLE 500 FOOT	-	DDN1058	322	\$3,590.00

Cables to Connect to CES to Punch Block

Punch blocks and cables should be ordered as required on a per CES shelf basis.

Description	Full Description	Nomenclature	APC	Price
TELCO 15 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock. IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9994	322	\$60.00
3TELCO 25 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9995	322	\$74.00
TELCO 50 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE, .35 INCH SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9996	322	\$115.00
TELCO 15 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9997	322	\$59.00
TELCO 25 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9998	322	\$85.00
TELCO 50 FT 50 WAY PLENUM CBL, 180 DEG MALE - 90 DEG MALE, .35IN SCREW	Cable to connect CES to Punchblock IMPORTANT NOTE: The screw length of this cable changed from .750 inches to .350 inches.	DDN9999	207	\$180.00

Radio Cables

Description	Full Description	Nomenclature	APC	Price
CONSOLETT W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00

Field Add-Ons / Spares

Description	Full Description	Nomenclature	APC	Price
CAB/PC USB CABLE	-	DDN7527	322	\$79.00
MCC5500 SPARES PACKAGE / CAB II PS CALIFORNIA COMPLIANT	Package includes: CAB II board, CES PSU; CAB II PSU; COP II; DAP II (including 2 analog licenses), Fuse Kit, Replacement I/O shelf, Replacement I/O controller, Replacement I/O module. Note: CAB II PSU IS CALIFORNIA COMPLIANT	DDN8349AC	322	\$22,150.00

PC Hardware

Description	Full Description	Nomenclature	APC	Price
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 workstation computer with the Windows 10 Enterprise LTSC 2019 64 bit operating system. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and disk(s) to allow for rebuild / recovery of your PC if ever needed. Does NOT include an internal DVD drive. NOTE THE Z2 WORKSTATION WITH WINDOWS 10 IS NOT RETURNABLE (REALLY!!).	TT3903A	708	\$2,500.00
ZBOOK 15 G7 NON RETURNABLE	Provides one HP ZBook 15 laptop with the Windows 10 Enterprise LTSC 2019 64 bit operating system. Includes external brick power supply with North American AC line cord, and Recovery Media. Does NOT include an internal DVD drive. NOTE: THIS LAPTOP IS NON-RETURNABLE (REALLY!!)	TT3904A	708	\$4,000.00

STARTECH RS-232 SERIAL PORT ADAPTER	External Serial Port Adapter that connects to the computer via a USB connection. StarTech part number ICUSB232PRO.	DSICUSB232PRO	708	\$37.00
STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER	External Ethernet Adapter that connects to the computer via a USB connection. StarTech part number USB31000S.	DSUSB31000S	708	\$40.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with computers that don't contain an internal DVD drive. HP part number F2B56AA.	DSF2B56AA	708	\$172.00
STARTECH 7 PORT USB 3.0 HUB	Provides a 7 port USB 3.0 hub with Type A ports. Includes an external power supply. May be used with the HP Z2 Mini computer. StarTech part number ST7300U3M. Replaced USB hub DDN1574.	DSST7300U3M	708	\$111.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA compliant mounting sleeve for the HP Z2 workstation. HP part number Y7B61AA.	DSY7B61AA	708	\$77.00
TRACKBALL (ONLY PS/2 & USB COMPATIBLE)	Trackball is "ruggedized" and "RF-Verified" by Consoles Engineering. Order as a main line item.	DSCDN6171B	708	\$431.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides one USB-based external sound card. StarTech part number ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00
MOUSE PADS 5 PACK	-	TDN9841	708	\$70.00

MSI Purpose-Built USB Microphone

Description	Full Description	Nomenclature	APC	Price
MICROPHONE, DESKTOP, USB	The B1951 microphone is specifically designed for use with the MCC 7500E console. It is a USB-based desktop microphone that connects directly to the dispatch position's PC or USB hub (it does not connect to the AIM). It has an 18 inch flexible shaft, a transmit button, a monitor button and a noise cancelling feature that provides 20 dB of front to back noise attenuation.	B1951	754	\$545.00

MSI Purpose-Built USB Speaker

Description	Full Description	Nomenclature	APC	Price
SPEAKER, DESKTOP, USB	The B1952 speaker is specifically designed for use with the MCC 7500E console. The B1952 provides a single USB-based desktop speaker that connects directly to the dispatch position's PC or USB hub (it does not connect to the AIM). Each speaker has its own individual volume control and can be used with an optional external power supply for up to 20 Watts of output power.	B1952	754	\$585.00
ADD: POWER SUPPLY WITH DC CORD	Provides an external power supply brick for use with the B1952 speaker. Requires an AC Line Cord option to also be ordered.	CA03405AA	754	\$75.00
ADD: AC LINE CORD, NORTH AMERICA	Adds a North American AC line cord.	CA03406AA	754	\$13.00
ADD: AC LINE CORD, EUROPE	Adds a European AC line cord.	CA03407AA	754	\$18.00
ADD: AC LINE CORD, UK	Adds a UK AC line cord.	CA03408AA	754	\$39.00
ADD: AC LINE CORD, AUSTRALIA	Adds an Australian AC line cord.	CA03409AA	754	\$55.00
ADD: AC LINE CORD, BRAZIL	Adds a Brazilian AC line cord.	CA03410AA	754	\$35.00

USB Cables for MSI Purpose-Built Mic & Speaker

Description	Full Description	Nomenclature	APC	Price
ADD: USB CABLE, TYPE C TO TYPE C, 4.5M	Adds a 4.5 M Type C to Type C USB cable with a thumb screw on one end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03412AA	754	\$39.00
ADD: USB CABLE, TYPE A TO TYPE C, 4.5M	Adds a 4.5 M Type A to Type C USB cable with a thumb screw on the "C" end. Order as a sub-item to either MSI Purpose-Built Mic (B1951) or Speaker (B1952).	CA03413AA	754	\$29.00

Analog Speakers

Description	Full Description	Nomenclature	APC	Price
MCC SERIES DESKTOP SPEAKER	Provides one desktop style speaker. Includes speaker with master volume control, 10 foot cable and mounting hardware. Compatible for use near CRT monitors.	B1912	443	\$500.00
LOGITECH Z130 SPEAKERS	Provides a pair of Logitech Z130 PC speakers with a single volume control. Also includes an external 110V AC power supply.	DSLOGITECHZ130	708	\$55.00

USB Headset Base and Footswitch

Description	Full Description	Nomenclature	APC	Price
USB HEADSET BASE WITH PTT	Headset base with PTT. Requires headset top which is ordered separately. MCC 7500E supports one USB headset per console.	DDN2825	708	\$281.00
USB DUAL ACTION FOOTSWITCH W/INPUT JACK KINESIS	Order one per Console	DDN1396	229	\$220.00

Analog Headset Jack Box and Desk Microphone

Description	Full Description	Nomenclature	APC	Price
MCC SERIES HEADSET JACK	Provides one headset jack. Includes separate volume controls for radio and telephone audio, a 6 foot permanently attached cable and a 6 foot extension cable. Ships from the factory configured for use with 6-wire headsets. Can be field-modified to work with 4-wire headsets.	B1913	443	\$200.00
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$650.00

Analog Headset Base used with analog Headset Jack Box

Description	Full Description	Nomenclature	APC	Price
HDST MODULE BASE W/PTT, 15 FT CBL	-	RLN6098	706	\$227.00
HDST MODULE BASE W/PTT, 25 FT CBL	-	RLN6099A	706	\$261.00

Headset Tops (Universal) used with the Headset Base (analog or USB bases)

Description	Full Description	Nomenclature	APC	Price
ENCOREPRO HW540 HEADSET	Monaural, noise-cancelling headset with ear loop, neckband & over-the-head headband included.	DSPOLYHW540	708	\$134.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Monaural, noise-canceling headset with over-the-head headband included.	RMN5150A	706	\$161.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Binaural, noise-canceling headset with over-the-head headband included.	RMN5151A	706	\$168.00

Analog Footswitch

Description	Full Description	Nomenclature	APC	Price
PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	Dual pedal footswitch for use with the Motorola MCC 7500 and MCC 7500E dispatch consoles. Similar to the BLN6732 except it has a RJ45 connector.	DSTWIN6328A	708	\$317.00

Orderable FRUs

Description	Full Description	Nomenclature	APC	Price
DESKTOP SPEAKER CIRCUIT BOARD FRU	Provides the circuit board used in the B1912 speaker. Does not include housing, speaker cone or cables. Order as a main line item.	BLN1275	443	\$350.00
DESKTOP MIC CIRCUIT BOARD FRU	Provides the circuit board used in the B1914 microphone. Does not include housing, switches, gooseneck shaft, microphone cartridge or cables. Order as a main line item.	BLN1276	443	\$200.00
HEADSET JACK CIRCUIT BOARD FRU	Provides the circuit board used in the B1913 headset jack. Does not include housing, PJ7 connectors or cables. Order as a main line item.	BLN1277	443	\$250.00
FRU, MICROPHONE, DESKTOP, USB	Complete microphone, but does not include the USB cable.	BMN2000	754	\$545.00
FRU, SPEAKER, DESKTOP, USB	Complete speaker, but does not include the USB cable or an external power supply.	BSN2000	754	\$585.00
FRU, USB CABLE, TYPE C TO TYPE C, 4.5M	USB Type C to Type C cable with a thumb screw on one end.	BKN2000	754	\$79.00
FRU, USB CABLE, TYPE A TO TYPE C, 4.5M	USB Type C to Type A cable with a thumb screw on the "C" end.	BKN2001	754	\$29.00
FRU, POWER SUPPLY WITH DC CORD	Power supply with DC cord but does not include an AC line cord.	BPN1030	754	\$150.00

Monitors

STANDARD FORMAT MONITORS (5:4 Aspect Ratio) NON-TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	-	DSTG191B	708	\$1,422.00

STANDARD FORMAT MONITORS (5:4 Aspect Ratio) TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 19INCH WITH TOUCH	-	DSEV191B	708	\$1,625.00

WIDE FORMAT MONITORS (16:9 Aspect Ratio) NON-TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH	-	DSTG221B	708	\$2,540.00
TECH GLOBAL EVOLUTION SERIES 24INCH NON TOUCH	-	DSTG241B	708	\$3,557.00

WIDE FORMAT MONITORS (16:9 Aspect Ratio) TOUCH MONITORS

Description	Full Description	Nomenclature	APC	Price
TECH GLOBAL EVOLUTION SERIES 22INCH WITH TOUCH	-	DSEV221B	708	\$3,435.00
TECH GLOBAL EVOLUTION SERIES 24INCH WITH TOUCH	-	DSEV241B	708	\$4,452.00

Motorola MCC 7100 Dispatch Console

Ordering Instructions

Step 1: Order the MCC 7100 IP Console SW Application

Software Items

Description	Full Description	Nomenclature	APC	Price
MCC 7100 IP Dispatch Position Main Model	Provides the main model for ordering the various options available to the MCC 7100 Dispatch Position. Order one (1) B1939 for each MCC 7100 Dispatch Position. Each B1939 requires at least the CA01642AB software license option.	B1939	443	\$0.00

MCC 7100 DVD	Provides the DVD containing the latest shipping version of the application software for the MCC 7100 dispatch console. Need at least one per system. Does NOT include the licenses required to use the software. The required licenses are purchased with the B1939.	B1940	443	\$250.00
Upgrade Software License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 DISPATCH CONSOLE SOFTWARE REFRESH LICENSE	Provides a license for upgrading to the latest version of the MCC 7100 Dispatch Console Software. One is required for each dispatch console being upgraded. Order as a sub-item to the B1940.	CA02090AA	443	\$2,500.00
MCC 7100 & PRX 7000 Feature/Capacity License Model (A7.16 & A7.17 application software only)				
Description	Full Description	Nomenclature	APC	Price
MCC7100 SOFTWARE LICENSING	-	B1942	443	\$0.00
Step 2: Order Basic Console Operator License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	Provides a license for using the MCC 7100 Dispatch Console Software. A software license is required for each dispatch position being ordered. Covers basic console features such as non-signaling analog conventional, patch, multi-select, paging, aux i/o's, alert tones, channel marker, using the API, etc. Order as a sub-item to the B1939.	CA01642AB	443	\$4,800.00
Step 3: Order Licensed Features for the Console				
Order one software capacity license per operator position depending on capacity needs.				
Description	Full Description	Nomenclature	APC	Price
5 CHANNEL SW LICENSE	Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources.	HKV/N4160A	443	\$3,500.00
10 CHANNEL SW LICENSE	Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources.	HKV/N4159A	443	\$6,250.00
Pre-A7.16 MCC 7100 Software Integrated Recall Recorder (IRR) License				
Order one optional Integrated Recall Recorder (IRR) license per operator position.				
Description	Full Description	Nomenclature	APC	Price
MCC 7100 INSTANT RECALL RECORDER LICENSE	Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position.	HKV/N4225A	443	\$1,200.00
A7.16 & A7.17 MCC 7100 Software Radio Resource Capacity Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: 15 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 5 simultaneous voice streams with 15 on-screen radio resources. Order as a sub-item to B1942.	UA00249AA	244	\$3,675.00
ADD: 30 RADIO RESOURCES LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Allows maximum of 10 simultaneous voice streams with 30 on-screen radio resources. Order as a sub-item to B1942.	UA00250AA	244	\$6,875.00
A7.16 & A7.17 MCC 7100 Software Integrated Recall Recorder (IRR) License				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 INSTANT RECALL RECORDER LICENSE	Applies to A7.16 and later MCC 7100 software versions only. Enables the Integrated IRR application on the MCC 7100 SW package. Order one per operator position. Order as a sub-item to B1942.	UA00253AA	443	\$1,200.00
Step 4: Order Proxy and Firewall (Only required if Installing MCC 7100 Console Outside ASTRO Network)				
Software Items				
Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses are purchased as HKV/N4225A for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.	BV/N6079	443	\$250.00
Pre-A7.16 PRX 7000 Software License				
Order one per PRX 7000 installation.				
Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy SW License (1-10 CONNECTIONS)	Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BV/N6079 must be purchased separately.	HKV/N4161A	443	\$2,500.00
A7.16 & A7.17 PRX 7000 Software License				
Order one per PRX 7000 installation. Order as a sub-item to B1942.				
Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW LICENSE (1-10 CONNECTIONS)	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7100 connections into the RNI. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BV/N6079 must be purchased separately. Order as a sub-item to B1942.	UA00254AA	443	\$2,500.00
A7.15, A7.16, and A7.17 system release Control Room Firewall				
Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
A7.11, A7.13, and A7.14 Control Room Firewall				
Step 5: Order Operational Licenses for Trunking and/or Conventional Operation				
Operational Licenses				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control trunking resources (ASTRO 25, SmartZone via SmartX or SMARTNET via SmartX). Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to B1939 for MCC 7100.	CA01643AA	443	\$6,600.00
ADD: MCC 7500 /MCC 7100 ADV CONVNL OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position is used to control ASTRO 25 conventional channels, MDC 1200 channels or ACIM Link channels. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01644AA	443	\$3,960.00
ADD: MCC 7500/MCC 7100 IED OPERATION	Required when the MCC 7500 or MCC 7100 dispatch position uses the Inbound Event Display GUI. Order as a sub-item to the B1933 for MCC 7500 and as a sub-item to the B1939 for MCC 7100.	CA01645AA	443	\$6,930.00
Step 6: Order Secure Options if desired				
Secure Operation				
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7100 SECURE OPERATION	Order when secure capabilities are required in an MCC 7100 dispatch console. Requires CA02092AA and is ordered as a sub-item to the B1939.	CA02180AA	443	\$3,900.00
Description	Full Description	Nomenclature	APC	Price
ADD: MCC 7500 / MCC 7100 OTEK OPERATION	Order when remote key management capabilities are required on a VPM-based dispatch console, AIS, or MCC 7100. Order as a sub-item to the B1933 for MCC 7500 or as a sub-item to the B1939 for MCC 7100. Note that OTEK does not support the ADP encryption algorithm.	CA01220AA	443	\$4,422.00
Secure Algorithms				
Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Required for secure operation. Provides licensing for the AES, DES-OFB, and ADP encryption algorithms. Requires CA02180AA and is ordered as a sub-item to the B1939.	CA02092AA	443	\$2,160.00
Step 7: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired				
Step 8: Order Audio Interface Module (AIM) if desired				
Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environments.	B1941	443	\$1,900.00
Step 9: Adding Operational Licenses to Fielded Dispatch Consoles, a.k.a., Field-Adds				
Basic Operational Licenses				
Description	Full Description	Nomenclature	APC	Price
MCC 7500 / MCC 7100 TRUNKING OPERATION FIELD-ADD LICENSE	-	BLN1311	443	\$6,600.00
MCC 7500 / MCC 7100 ADVANCED CONVENTIONAL OPERATION FIELD-ADD LICENSE	-	BLN1312	443	\$3,960.00
MCC 7500 / MCC 7100 INBOUND EVENT DISPLAY (IED) FIELD-ADD LIC	-	BLN1313	443	\$6,930.00
Encryption Licenses				
Description	Full Description	Nomenclature	APC	Price
OVER THE ETHERNET KEYING (OTEK) OPERATION FIELD-ADD LICENSE	-	BLN1302	443	\$4,422.00
SECURE OPERATION FIELD-ADD LICENSE	-	BLN1304	443	\$4,290.00
SOFTWARE AES, DES-OFB, ADP ENCRYPT KEY FILE MGMT	Existing dispatch consoles may add the licensing for the AES, DES-OFB, and ADP encryption algorithms by ordering the Software AES, DES-OFB, ADP Encryption Key File Management Field-Add License for each dispatch console that needs the feature. Note that this license does not provide the required Secure Operation license (BLN1304 or CA02180AA). The Secure Operation license must be ordered separately.	BLN7224	443	\$2,376.00

Motorola MCC 7500E IP Dispatch Console

Step 1: Order the MCC 7500E IP Console SW Application Software DVD

Description	Full Description	Nomenclature	APC	Price
MCC 7500E SOFTWARE DVD	Provides a DVD containing the application software for the MCC 7500E console. One copy of the DVD may be used to install software on multiple MCC 7500E dispatch positions.	B1949	244	\$250.00

Upgrade Software License

Description	Full Description	Nomenclature	APC	Price
ADD: DISPATCH POSITION SOFTWARE REFRESH	The software refresh license option is required for each existing MCC 7500E dispatch position when upgrading the ASTRO System to a new major system release. Order the option as a sub-item to B1949.	CA03321AA	244	\$2,500.00

Step 2: Order Feature Licenses for each Dispatch Position

Feature/Capacity License Model

Description	Full Description	Nomenclature	APC	Price
MCC 7500E DISPATCH POSITION LICENSES	The various licenses used with the MCC 7500E console are ordered as options to this model. One B1948 may be ordered per dispatch position or one B1948 may be ordered per multiple dispatch positions. An email address must be entered into COF with the B1948.	B1948	244	\$0.00

Radio Resource Capacity Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: 15 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 15 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00249AA	244	\$3,675.00
ADD: 30 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 30 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00250AA	244	\$6,875.00
ADD: 160 RADIO RESOURCES LICENSE	Enables an MCC 7500E dispatch position to support up to 160 radio resources (trunking talkgroups and/or conventional channels) to be assigned on it. Order as a sub-item to the B1948.	UA00652AA	244	\$20,820.00

Feature Licenses

Description	Full Description	Nomenclature	APC	Price
ADD: BASIC CONSOLE OPERATION	Enables an MCC 7500E dispatch position to support basic console functionality. This includes non-signaling analog conventional, patch, multiselect, paging, aux I/Os, alert tones, channel marker, using the API, etc. One UA00653AA is required for each dispatch position being ordered. Order as a sub-item to the B1948.	UA00653AA	244	\$5,280.00
ADD: ASTRO 25 TRUNKING OPERATION	Enables an MCC 7500E dispatch position to support ASTRO 25 trunking operation. One UA00654AA is required for each dispatch position that will be controlling trunking resources (talkgroups and private calls) via a wireline connection to a trunking system. Order as a sub-item to the B1948.	UA00654AA	244	\$6,600.00
ADD: ADVANCED CONVENTIONAL OPERATION	Enables an MCC 7500E dispatch position to support advanced conventional operation. One UA00655AA is required for each dispatch position that will be controlling advanced conventional resources (P25 conventional, MDC 1200 conventional and ACIM connections to consolelets). Order as a sub-item to the B1948.	UA00655AA	244	\$3,960.00
ADD: IED OPERATION	Enables an MCC 7500E dispatch position to support Inbound Event Display (IED) operation. One UA00656AA is required for each dispatch position that will be using the IED GUI. Order as a sub-item to the B1948.	UA00656AA	244	\$6,930.00
ADD: TELEPHONY OPERATION	Enables an MCC 7500E dispatch position to support console telephony operation. One UA00657AA is required for each dispatch position that will be accessing telephone resources via the console telephony feature. Order as a sub-item to the B1948.	UA00657AA	244	\$1,200.00
ADD: SECURE OPERATION	Enables an MCC 7500E dispatch position to support secure (encrypted) voice operation. One UA00658AA is required for each dispatch position that will be controlling radio resources that use encrypted voice. Order as a sub-item to the B1948.	UA00658AA	244	\$4,290.00
ADD: ADP/AES/DES-OFB ENCRYPTION	Enables an MCC 7500E dispatch position to support the ADP, AES and DES-OFB encryption algorithms. The secure operation license must be ordered separately. One UA00659AA is required for each dispatch position that will be using any of those algorithms. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management algorithm licenses are ordered as part of the CRYPTR2.	UA00659AA	244	\$2,376.00
ADD: OTEK OPERATION	Enables an MCC 7500E dispatch position to support Over The Ethernet Keying (OTEK) operation. One UA00660AA is required for each dispatch position that will be using the OTEK feature. Order as a sub-item to the B1948. Please note that this option is for use with software key management. Hardware key management OTEK license is ordered as part of the CRYPTR2.	UA00660AA	244	\$4,422.00
ADD: ENHANCED IRR	Enables an MCC 7500E dispatch position to support the Enhanced Integrated Instant Recall Recorder (IRR). One UA00661AA is required for each dispatch position that will be using the Enhanced Integrated IRR. Order as a sub-item to the B1948.	UA00661AA	244	\$3,000.00

Step 3: Order Dispatch PC Equipment, Accessories, Spares, and FRUs if desired

Please see MCC Series PC, Monitor, and accessories pull-down menu.

Step 4: Order Audio Interface Module (AIM) if desired

Description	Full Description	Nomenclature	APC	Price
USB AUDIO INTERFACE MODULE	The AIM supports connectivity for Motorola standard peripherals used in mission critical public safety environment	B1941	443	\$1,900.00

Step 5: Order PRX 7000 Proxy and Firewall (Only required if installing the MCC 7500E Console outside of the ASTRO 25 Network)

Proxy Software DVD

Description	Full Description	Nomenclature	APC	Price
PRX 7000 Proxy Application SW DVD	Provides the DVD containing the application software for the PRX 7000. Does NOT include the licenses required to use the software. The required licenses are purchased as HKVN4225AA for pre-A7.16 software versions and option UA00254AA for A7.16 and beyond software versions.	BVN6079	443	\$250.00

Proxy Software License

Description	Full Description	Nomenclature	APC	Price
ADD: PRX 7000 PROXY SW LICENSE (1-10 CONNECTIONS)	Applies to A7.16 and later PRX 7000 software versions only. Each license enables one PRX 7000 application. Each PRX 7000 application supports up to 10 MCC 7500E connections into the RNL. Up to 5 installations of PRX 7000 are supported per console site. The PRX 7000 DVD is not included. DVD item# BVN6079 must be purchased separately. Order as a sub-item to B1942 or B1948.	UA00254AA	443	\$2,500.00

Proxy Computers

Control Room Firewall

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00

Step 6: Order Dispatch Assistant software if desired

Description	Full Description	Nomenclature	APC	Price
INTERFACE ADAPTER SOFTWARE LICENSES	Dispatch Assistant software license. One required per dispatch position.	HKVN4581A	443	\$8,775.00
DISPATCH ASSISTANT SOFTWARE DVD	Dispatch Assistant software DVD. One copy of the DVD may be used to install the software on multiple dispatch positions.	BVN1017	443	\$250.00

MCC 7500 IP Logging Recorder

Models

SELECT SINGLE OR REDUNDANT CONFIGURATIONS - PARALLEL IS STRONGLY RECOMMENDED.

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$52,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00

Options - Licensing

Description	Full Description	Nomenclature	APC	Price
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00

Options - System Release

Select System

Description	Full Description	Nomenclature	APC	Price
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON A2019 SYSTEMS	-	TT06274AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON A2020 SYSTEMS	-	TT06275AA	229	\$0.00

Accessories

Windows Supplemental Configuration (Required on ASTRO 25 7.4 or Later Systems)

Description	Full Description	Nomenclature	APC	Price
WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7449	877	\$50.00

Spares & HDD Upgrades

Description	Full Description	Nomenclature	APC	Price
1 TB 7.2K DRIVE FOR THE DL360 G9 IP RADIO LOGGER BACKUP SERVER	-	DDN2146	229	\$1,210.00
SPARES TO SUPPORT MCC 7500 IP LOGGER DL360 G9 SERVER	-	DDN2147	229	\$3,680.00

ASTRO 7.17 Release Windows 10 Workstation
ASTRO 7.16 or earlier Windows 7 Workstation

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
19 INCH BLACK SHELF	Black shelf for use with a 19 in. 2 post rack	DDN9748	229	\$402.00
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75

MCD 5000 DESKSET SYSTEM

Models

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET	Provides one MCD 5000 Deskset. An in-line power supply (FHN7469) and an Ethernet cable are NOT included with the MCD 5000 Deskset (F2380) and must be ordered separately. Documentation has been moved to the Flexera Download model and now must be ordered separately at zero cost (HKVN4865A).	F2380	202	\$2,275.00
LICENSE,CD, MCD 5000 DOCUMENTATION	Documentation has been moved to the Flexera Download model and now must be ordered separately at zero cost. Contains the following documentation: Deskset Install and Configuration Guide for OMC System, Deskset Install and Configuration Guide for Non-OMC Systems, System Administration Control Panel Users Guide, Deskset Users Guide and Quick Reference Guide.	HKVN4865	202	\$0.00
SM, RADIO GATEWAY UNIT (RGU)	Provides one MCD 5000 Radio Gateway Unit (RGU) and one RGU ground cable (FKN8704). Each RGU (F7879B) is capable of supporting up to 4 radios. A power supply (FHN7469), Ethernet cable and cabling for connecting radios to the RGU are NOT included with the RGU (F7879B) and must be ordered separately.	F7879	202	\$2,275.00
ML30 GEN 10 SERVER FOR MCD 5000 OMC	Provides one ML30 Server that runs on the Red Hat® Linux® operating system. Also includes 1 keyboard, 1 optical mouse and disk(s) to allow for rebuild / recovery of your PC if ever needed. NOTE THE ML30 SERVER IS NOT RETURNABLE (REALLY!).	TT3549	708	\$4,500.00
TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	19 Inch Non Touch Display for CTI/ACP Workstation and/or OMC Server	DSTG191B	708	\$1,422.00
Z2 G5 MINI WORKSTATION NON RETURNABLE	Provides one HP Z2 Mini computer (G5) with Windows 10 IoT Enterprise LTSB 2016 64 bit. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2.	TT3903A	708	\$2,500.00

Licensing - OPTIONAL

Description	Full Description	Nomenclature	APC	Price
LICENSE,MCD 5000 NATIVE LANGUAGE SUPPORT	Software license that enables the MCD 5000 Deskset to support a native/2nd language (in addition to the English language shipped standard) for the MCD 5000 deskset display. The Qty ordered should be equal to the number of MCD 5000 desksets that need native/2nd language support.	HKVN4858	202	\$500.00

Accessories

Software Application

Description	Full Description	Nomenclature	APC	Price
LICENSE,MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM W/OUT OMC	Configuration Tool for Four Channel Support - MCD 5000 Deskset System without OMC.	HKVN4861	202	\$250.00
LICENSE,MCD 5000 DESKSET SYSTEM CONFIG TOOL - SYSTEM WITH OMC	Configuration Tool for Four Channel Support - MCD 5000 Deskset System with OMC.	HKVN4862	202	\$250.00
LICENSE,MCD 5000 DESKSET SYSTEM OMC SERVER APPLICATION SW	Provides the OMC Server application software that is required for MCD 5000 Deskset System with an OMC. Requires OMC Server Hardware (TT3549) that must be ordered separately.	HKVN4863	202	\$10,000.00
LICENSE,MCD 5000 DESKSET SYSTEM ACP APPLICATION SW	Provides the ACP application software that is required for MCD 5000 Deskset System with an OMC. Requires ACP Workstation Hardware (TT3903A) that must be ordered separately.	HKVN4864	202	\$2,500.00

Direct Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
CABLE - MCD 5000 RGU TO MCS 2000 III DIRECT CONNECT	Provides one cable for connecting a MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B). Note: This radio type will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8688	202	\$100.00
CABLE - MCD 5000 RGU TO CDM 1550 SERIES DIRECT CONNECT	Provides one cable for connecting a CDM 1550 Series radio to a MCD 5000 RGU (F7879B). Note: This radio type will not be supported starting with release 2.3.4. If the customer wants to use these radios, they can downgrade to a release prior to R2.3.4.	FKN8689	202	\$100.00
CABLE - MCD 5000 RGU TO ASTRO CONSOLETTTE W9 DIRECT CONNECT	Provides one cable for connecting an ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8690	202	\$100.00
MCD5000 TO MTM5400 TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM5400 Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2003	202	\$100.00
MCD5000 TO MTM800E TETRA MOBILE RADIO DIRECT CONNECT	Provides one cable for connecting an MTM800E Tetra Mobile Radio to a MCD 5000 RGU (F7879B).	FKN2004	202	\$100.00
CABLE RGU TO MOTOTRBO	Provides one cable for connecting a Mototrobo XPR5550e Control Station to a MCD 5000 RGU (F7879B).	FKN0012	202	\$100.00

Parallel with DJB Radio Interface Cables

Description	Full Description	Nomenclature	APC	Price
CABLE - MCD 5000 RGU TO MC3000 DJB FOR ASTRO CONSOLETTTE W9	Provides one cable for connecting a MC3000 DJB with ASTRO Consolette W9 to a MCD 5000 RGU (F7879B).	FKN8691	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR MCS 2000 III	Provides one cable for connecting a MC3000 DJB with MCS 2000 Model III Control Station to a MCD 5000 RGU (F7879B).	FKN8692	202	\$100.00
CABLE - MCD 5000 RGU TO MC3000 DJB FOR CDM 1550 SERIES	Provides one cable for connecting a MC3000 DJB with CDM 1550 Series radio to a MCD 5000 RGU (F7879B).	FKN8693	202	\$100.00

Ethernet Cable

Description	Full Description	Nomenclature	APC	Price
ETHERNET CABLE 10' WITH RED & BLACK LABELS	Provides one 10 in. ethernet cable to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B). Note: This cable is color coded to match the connector colors of the MCD 5000 Deskset and MCD 5000 RGU.	FKN8695	202	\$47.00

Power Supply

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7879B.	FHN7469	202	\$100.00
FRU: MCD 5000 DESKSET / RGU POWER SUPPLY W/OUT POWER CORD	Provides one power supply unit to be used with the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7879B) to provide power (110/220 VAC to 12 VDC). This part does NOT contain an AC line power cord. Power cord must be ordered separately.	FHN7485	202	\$85.00
CORD, POWER	EUROPE POWER CORD - Ordered with FHN7485	3004209T01	785	\$8.30
PLUG, BRITISH STANDARD	UK POWER CORD - Ordered with FHN7485	3004209T02	785	\$8.45

Deskset Accessories

Description	Full Description	Nomenclature	APC	Price
MCD 5000 DESKSET WALL MOUNT KIT	Provides one wall mount base kit to be used for mounting a MCD 5000 Deskset (F2380) to a wall.	FHN7394	202	\$24.00

MCD 5000 DESKSET HEADSET JACK BOX & CABLE	Provides one MCD 5000 Headset Jackbox & cable (FKN8694) that connects to a MCD 5000 Deskset (F2380). The Headset Jackbox provides a connector for a single headset. Compatible with both 6-wire and 4-wire headsets. A Headset Base and Headset Top are not included with Headset Jackbox and must be ordered separately.	FHN7470	202	\$150.00
CABLE - MCD 5000 DESKSET TO LOGGER	Provides one logger cable to connect a generic external analog voice logger directly to the MCD 5000 Deskset (F2380).	FKN8696	202	\$40.00
USB EXTERNAL DVD DRIVE	External DVD drive that connects to the computer via USB. May be used with the HP Z2 Mini Workstation - TT3225A.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA compliant mounting sleeve for the HP Z2 Mini Workstation - TT3225A.	DSY7B61AA	708	\$77.00
DESKTOP MIC	Desktop Paddle Microphone	RMN5068A	706	\$130.00
FOOT SWITCH TRADITIONAL	PTT Footswitch - Max of 1 per Deskset	BLN6732	229	\$135.00
HDST MODULE BASE W/PTT, 15 FT CBL	Headset Base with PTT Switch with 15' cable	RLN6098	706	\$227.00
HDST MODULE BASE W/PTT, 25 FT CBL	Headset Base with PTT Switch with 25' cable	RLN6099A	706	\$261.00
OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET	Monaural Headset Top with Noise-Canceling Microphone	RMN5150A	706	\$161.00
OVER-THE-HEAD, BINAURAL, NOISE-CANCELING HEADSET	Binaural Headset Top with Noise-Canceling Microphone	RMN5151A	706	\$168.00

Description	Full Description	Nomenclature	APC	Price
MCD 5000 WINDOWS SUPPLEMENTAL	OS Hardening CD (Full Hardening) for MCD 5000 Deskset System to be ordered with TT3225 Workstation	FVN5956	202	\$50.00
MCAFFEE WINDOWS AV CLIENT	This is a standalone installer for Windows operating systems. This should only be ordered for Consoles and MOSCAD products that do not embed the client license. NOTE - MGECS DO NOT USE MCAFFEE SOFTWARE. THEY WILL STAY WITH EXISTING SYMANTEC SOFTWARE IN UNMANAGED MODE.	T7885	708	\$165.00

Description	Full Description	Nomenclature	APC	Price
FRU: K-STYLE HANDET (INCLUDES COILED CABLE) FOR MCD 5000 DESKSET	Spare handset for the MCD 5000 Deskset (F2380).	FHN7290	202	\$75.00
FRU: CABLE - MCD 5000 DESKSET TO HEADSET JACK BOX	Provides one headset jackbox cable to connect the MCD 5000 Headset Jackbox (FHN7470) to the MCD 5000 Deskset (F2380). Note: The MCD 5000 Headset Jackbox (FHN7470) automatically ships with this cable (FKN8694).	FKN8694	202	\$40.00
FRU: CABLE - MCD 5000 DESKSET RGU GROUND CABLE	Spare MCD 5000 RGU ground cable to be used with the MCD 5000 RGU (F7879B).	FKN8704	202	\$30.00

Description	Full Description	Nomenclature	APC	Price
LICENSE.MCD 5000 FOUR CHANNEL SUPPORT WITH OMC	Firmware and Configuration Tool for Four Channel Support - MCD 5000 Deskset System with OMC.	HKVN4859	202	\$500.00
LICENSE.MCD 5000 FOUR CHANNEL SUPPORT W/O OMC	Firmware and Configuration Tool for Four Channel Support - MCD 5000 Deskset System without OMC.	HKVN4860	202	\$500.00

MC-EDGE Intelligent Gateway & Remote terminal unit

Description	Full Description	Nomenclature	APC	Price
MC IOT MAIN MODEL	MC IOT MAIN MODEL	F0016A	275	\$0.00
ADD: MC-EDGE	ADD: MC-EDGE	VA01370AA	275	\$950.00

PLUG-IN Board (CPU)
 Note - select one of the items below

Description	Full Description	Nomenclature	APC	Price
ADD: IOT MC-EDGE ENHANCED COMM PLUG-IN BOARD	ADD: IOT MC-EDGE ENHANCED COMM PLUG-IN BOARD	VA00973AA	275	\$150.00
INC:IOT MC-EDGE PLUG-IN BOARD	INC:IOT MC-EDGE PLUG-IN BOARD	VA00290	275	\$150.00
ADD: MC-EDGE _ MICROHARD N920 PLUG-IN BOARD	ADD: MC-EDGE _ MICROHARD N920 PLUG-IN BOARD	VA00984AA	275	\$150.00
ADD: MC-EDGE _2XRS-232 PORT / AUX PLUG-IN BOARD	ADD: MC-EDGE _2XRS-232 PORT / AUX PLUG-IN BOARD	VA00983AA	275	\$150.00
ADD: NO PIGGY _ MC-EDGE	ADD: No Piggy _ MC-EDGE	VA00985AA	275	\$0.00

2. OPTIONS Radio Options

Description	Full Description	Nomenclature	APC	Price
ADD: APX4000 FOR MC-EDGE	ADD: APX4000 FOR MC - EDGE	VA00600	275	\$600.00

Bands
 If VA00600AA is selected, Band is a mandatory Option

Description	Full Description	Nomenclature	APC	Price
ADD: VHF RADIO MC-EDGE	ADD: VHF RADIO MC-EDGE	VA00913	275	\$600.00
ADD: UHF R1 RADIO MC-EDGE	ADD: UHF R1 RADIO MC-EDGE	VA00914	275	\$600.00
ADD: UHF R2 RADIO MC-EDGE	ADD: UHF R2 RADIO MC-EDGE	VA00915	275	\$600.00
ADD: 700/800MHZ RADIO MC-EDGE	ADD: 700/800MHZ RADIO MC-EDGE	VA00916	275	\$600.00
ADD: 900MHZ RADIO MC-EDGE	ADD: 900MHZ RADIO MC-EDGE	VA00917	275	\$600.00

Radio Licenses -
 The radio licenses include: TDMA, Link Layer Authentication & Group text support

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO RADIO OPTIONS LICENSE VHF	ADD: ASTRO RADIO OPTIONS LICENSE VHF	VA00943AA	275	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE UHF 1	ADD: ASTRO RADIO OPTIONS LICENSE UHF 1	VA00944AA	275	\$350.00
ADD: ASTRO RADIO OPTIONS LICENSE UHF 2	ADD: ASTRO RADIO OPTIONS LICENSE UHF 2	VA00945AA	275	\$350.00
ASTRO RADIO OPTIONS LICENSE 7/800	ADD: ASTRO RADIO OPTIONS LICENSE 7/800	VA00946AA	275	\$350.00
ASTRO RADIO OPTIONS LICENSE 900	ADD: ASTRO RADIO OPTIONS LICENSE 900	VA00947AA	275	\$350.00

External Radio

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO 25 DIGITAL TRUNKING	ADD: ASTRO 25 DIGITAL TRUNKING	VA00196	275	\$2,310.00
ADD: ASTRO 25 DIGITAL CONVENTIONAL	ADD: ASTRO 25 DIGITAL CONVENTIONAL	VA00197	275	\$2,310.00

Radio Platform Options (Select one).

Description	Full Description	Nomenclature	APC	Price
ADD: VHF MOBILE RADIO	ADD: VHF MOBILE RADIO	VA00160	275	\$525.00
ADD: UHF R2 MOBILE RADIO	ADD: UHF R2 MOBILE RADIO	VA00162	275	\$525.00
ADD: UHF R1 MOBILE RADIO	ADD: UHF R1 MOBILE RADIO	VA00161	275	\$525.00
ADD: 700/800MHZ MOBILE RADIO	ADD: 700/800MHZ MOBILE RADIO	VA00201	275	\$525.00

Radio Installation Kits

Description	Full Description	Nomenclature	APC	Price
ADD: APX6500 DIGITAL INSTALLATION KIT	ADD: APX6500 DIGITAL INSTALLATION KIT	VA00588	275	\$275.00
EXTERNAL MODEM MOTOTRBOB ANALOG CABLE KIT	External modem MOTOTRBO analog Cable KIT	VA00976AA	275	\$180.00
EXTERNAL MODEM CM140 ANALOG CABLE KIT	External modem CM140 analog Cable KIT	VA00977AA	275	\$115.00
ADD: EXTERNAL MOBILE TETRA MTMSXXX RADIO CABLE KIT FOR MC-EDGE	External TETRA radio cable kit for MC-EDGE	VA00987AA	275	\$135.00

Input / Output Modules

Description	Full Description	Nomenclature	APC	Price
ADD: 12DI/8AI HW ONLY NO LIC	ADD:12DI/8AI HW ONLY NO LIC	VA00150	275	\$595.00
ADD: 0 - 5V D/AI	ADD:0 - 5V D/AI	VA00151	275	\$0.00
ADD: 0 - 20MA D/AI	ADD:0 - 20MA D/AI	VA00152	275	\$0.00
ADD: 8DO/2AO HW ONLY NO LIC	ADD:8DO/2AO HW ONLY NO LIC	VA00149	275	\$620.00
ADD:MIXED IO 7DI/6DO/1AO/3AI HW ONLY NO LIC	ADD: MIXED IO 7DI/6DO/1AO/4AI H	VA00599	275	\$640.00
ADD:IO MODULE EXTRACTOR TOOL	ADD: IO MODULE EXTRACTOR TOOL	VA00153AA	275	\$10.00
ADD: 8DO EE 16DI 5-18 V /DRY	-	VA00989AA	275	\$600.00
ADD: 8DO EE 16DI 18-60 V	-	VA00990AA	275	\$600.00

Communication LTE

Description	Full Description	Nomenclature	APC	Price
ADD: LTE MODEM FOR MC-EDGE	ADD: LTE MODEM FOR MC-EDGE	VA00610	275	\$200.00

Bands
 If VA00610AA is selected one of the bands below must be added (Per region)

Description	Full Description	Nomenclature	APC	Price
ADD: LTE - US, VERIZON	ADD: LTE - US, VERIZON	VA00611	275	\$0.00
ADD: LTE MODEM FOR EU - MC EDGE	ADD: LTE MODEM FOR EU - MC EDGE	VA00613AA	275	\$0.00

ADD: LTE MODEM FOR AUSTRALIA - MC EDGE		ADD: LTE MODEM FOR AUSTRALIA - MC EDGE		VA00616AA	275	\$0.00
LoRa		ADD: LORA MODULE FOR MC-EDGE		VA00630	275	\$350.00
Description	Full Description	Nomenclature	APC	Price		
Bands						
If VA00630AA is selected one of the bands below must be added (per region)						
Description	Full Description	Nomenclature	APC	Price		
ADD: LORA 902 - 928 MHZ FOR MC-EDGE	ADD: LORA 902 - 928 MHZ FOR MC-EDGE USA / CANADA	VA00631	275	\$0.00		
ADD: LORA 863 - 870 MHZ FOR MC-EDGE	ADD: LORA 863 - 870 MHZ FOR MC-EDGE EUROPE	VA00632AA	275	\$0.00		
ADD: LORA 915 - 928 MHZ AUSTRALIA FOR MC-EDGE	ADD: LORA 915 - 928 MHZ FOR MC-EDGE AUSTRALIA	VA00637AA	275	\$0.00		
Programming						
Description	Full Description	Nomenclature	APC	Price		
ADD: CODESYS IEC 61131 LICENSE	ADD: CODESYS IEC 61131 LICENSE	VA00595	275	\$100.00		
ADD: DNP3 MASTER LICENSE	ADD: DNP3 MASTER LICENSE	VA00593	275	\$100.00		
ADD: DNP3 SLAVE LICENSE	ADD: DNP3 SLAVE LICENSE	VA00594	275	\$100.00		
ADD: DNP3 MASTER & SLAVE LICENSE	ADD: DNP3 MASTER & SLAVE LICENSE	VA01376AA	275	\$150.00		
ADD: ACTILITY LICENSE FOR MC EDGE	ADD: ACTILITY LICENSE FOR MC EDGE	VA01388AA	275	\$150.00		
Cables and Covers						
Description	Full Description	Nomenclature	APC	Price		
ADD: FRONT CABLE COVERS	ADD: FRONT CABLE COVERS	VA00147	275	\$10.00		
ADD: WALL MOUNT INSTALLATION KIT	ADD: WALL MOUNT INSTALLATION KIT	VA00148	275	\$50.00		
ADD:ANTENNA SMA TO N-TYPE CABLE	ADD: ACT MODULE FOR ACE3600	VA00948AA	275	\$50.00		
ADD:DC POWER CABLE	ADD: DC POWER CABLE	VA00155	275	\$50.00		
Power Supply						
Description	Full Description	Nomenclature	APC	Price		
ADD: AC POWER SUPPLY UNIT 12V / 5A DC OUTPUT	ADD: AC POWER SUPPLY 12V/120W	VA00009	275	\$225.00		
ADD: AC POWER SUPPLY 24V / 120W DC OUTPUT	ADD: AC POWER :SUPPLY 24V / 12	VA00130	275	\$300.00		
ADD: DC/DC - [48 >>24] PS W/O HOUSING	-	VA00991AA	275	\$450.00		
ADD: DC/DC - W/[24 >>12] _NO HOUSING	ADD: DC/DC - [24 >>12] W/O HOUSING	VA01387AA	275	\$450.00		
Security						
Description	Full Description	Nomenclature	APC	Price		
ADD: MC-EDGE SECURITY ENABLE OPTION	ADD: MC-EDGE SECURITY ENABLE O	VA01360AA	275	\$275.00		
NEMA Box						
Description	Full Description	Nomenclature	APC	Price		
ADD: NEMA 38X38	ADD: NEMA 38X38	VA00954AA	275	\$861.00		
Select options						
Description	Full Description	Nomenclature	APC	Price		
ADD: BATTERY 6.5AH	ADD: BATTERY 6.5Ah	VA00957AA	275	\$215.00		
ADD: TAMPER SWITCH	ADD: Tamper Switch	VA00962AA	275	\$133.00		
ADD: LOCK FOR NEMA	ADD: Lock for NEMA	VA00963AA	275	\$48.00		
Power supply for Nema						
Description	Full Description	Nomenclature	APC	Price		
ADD: POWER SUPPLY CHARGER 10A	ADD: POWER SUPPLY CHARGER 10A	VA00958AA	275	\$84.00		
ADD: POWER SUPPLY CHARGER 3A	ADD: POWER SUPPLY CHARGER 3A	VA00959AA	275	\$403.00		
DC/DC						
Description	Full Description	Nomenclature	APC	Price		
ADD: DC/DC - [24 >>12]	ADD: DC/DC - [24 >>12]	VA00960AA	275	\$685.00		
ADD: DC/DC - [48 >>24]	ADD: DC/DC - [48 >>24]	VA00961AA	275	\$685.00		
Field Replacement Units (FRUs)						
Input/output Modules						
Description	Full Description	Nomenclature	APC	Price		
12DI/8AI MODULE +/- 5V	12DI/8AI MODULE 0-5V	FLN0051	275	\$650.00		
12DI/8AI MODULE +/- 20MA	12DI/8AI MODULE 0-20MA	FLN0050	275	\$650.00		
8DO/2AO MODULE +/- 20MA, 5V	8DO/2AO MODULE 0-20MA, 0-10V	FLN0052	275	\$650.00		
MIXED IO CURRENT	MIXED IO CURRENT	FLN0116	275	\$750.00		
8DO EE 16DI 5-18 V /DRY	-	FLN9985A	275	\$650.00		
8DO EE 16DI 18-60 V	-	FLN9986A	275	\$650.00		
Security Options						
Description	Full Description	Nomenclature	APC	Price		
CD,SW,ACE3600 SECURED SYS TOOL SUITE VER. 18.50	CD SW ACE3600 SECURED SYS TOOL SUITE VER. 18.50	FVN5973	85	\$830.00		
Cables and Covers						
Description	Full Description	Nomenclature	APC	Price		
SD COVER	SD COVER	FHN0060	275	\$5.00		
I/O MODULE CONNECTOR COVER	I/O MODULE CONNECTOR COVER	FHN0059	275	\$5.00		
RJ50 I/O MODULE CABLE	RJ50 I/O MODULE CABLE	FHN0065	275	\$15.00		
RJ45 TO RJ45 EXTENSION CABLE 1500MM	RJ45 TO RJ45 EXTENSION CABLE 1500MM	FKN8803A	85	\$50.00		
MTM5200 DATA CABLE	MTM5200 DATA CABLE	FKN0027	275	\$50.00		
CPU PANEL COVER	CPU PANEL COVER	FHN0058	275	\$10.00		
GROUND CABLE	GROUND CABLE	FKN0034	275	\$10.00		
DATA CABLE FOR CONNECT PLUS	DATA CABLE FOR CONNECT PLUS	FKN0040A	85	\$116.00		
XPR 5350 USB CABLE	DATA CABLE FOR MOTOTRBO DIGITAL	FKN0026	275	\$110.00		
RS-485 PORT 120 OHM TERMINATION CABLE	RS-485 PORT 120 OHM TERMINATION CABLE	FKN0030	275	\$150.00		
DC POWER CABLE	DC POWER CABLE	FKN0033	275	\$75.00		
MC_EDGE AUX IO MIGRATION CABLE	MC_EDGE AUX IO MIGRATION CABLE	FKN0044A	275	\$75.00		
Communication						
Description	Full Description	Nomenclature	APC	Price		
RS-232 DATA CABLE	RS-232 DATA ADAPTOR (RJ45 TO D	FKN0022	275	\$55.00		
Programming						
Description	Full Description	Nomenclature	APC	Price		
LICENSE_CODESYS IEC61131-3 PROGRAM LICENSE	LICENSE_CODESYS IEC61131-3 PROGRAM LICENSE	FLN9975A	275	\$150.00		
LICENSE_DNP3 MASTER LICENSE	-	FLN9001A	275	\$150.00		
LICENSE_DNP3 SLAVE LICENSE	-	FLN9002A	275	\$150.00		
LICENSE_DNP3 MASTER & SLAVE LICENSE	-	FLN9003A	275	\$200.00		
Power Supply						
Description	Full Description	Nomenclature	APC	Price		
AC POWER SUPPLY 24V/120W DC OUT	AC POWER SUPPLY 24V/120W DC OU	FLN0101	275	\$300.00		
AC POWER SUPPLY 12V/120W DC OUT	AC POWER SUPPLY 12V/120W DC OU	FLN0096	275	\$225.00		
DC/DC - [48 >>24]	ADD: DC/DC - [48 >>24] PS W/O HOUSING	FHN9067	275	\$500.00		
DC/DC - [24 >>12]	DC/DC - [24 >>12]	FHN9066	275	\$972.00		
Terminal block						
Description	Full Description	Nomenclature	APC	Price		
TERMINAL BLOCK MALE 4 PIN 3.5MM	TERMINAL BLOCK MALE 4 PIN 3.5MM	FHN0064	275	\$15.00		
TERMINAL BLOCK MALE 10 PIN 5MM	TERMINAL BLOCK MALE 10 PIN 5MM	FHN0061	275	\$40.00		
TERMINAL BLOCK CONNECTOR EXTRACTOR	TERMINAL BLOCK CONNECTOR EXTRACTOR	FKN0024	275	\$10.00		
TERMINAL BLOCK MALE 2 PIN 5 MM	TERMINAL BLOCK MALE 2 PIN 5 MM	FHN0063	275	\$10.00		
TERMINAL BLOCK MALE 3 PIN 5 MM	TERMINAL BLOCK MALE 3 PIN 5 MM	FHN0062	275	\$10.00		
Din Rail						
Description	Full Description	Nomenclature	APC	Price		
DIN RAIL 45 CM	DIN RAIL 42 CM	FHN0056	275	\$20.00		
DIN RAIL 26 CM	DIN RAIL 26 CM	FHN0054	275	\$20.00		
DIN RAIL STOPPER	DIN RAIL STOPPER	FHN0057	275	\$15.00		
PANDUIT IABDIN4 4 RACK UNIT DIN RAIL FOR EIA 19" MOUNT	Drop Ship Item	DSIABDIN4	499	\$368.00		
Radio models						
Description	Full Description	Nomenclature	APC	Price		
APX6500 136-174 MHZ (A+D)	APX6500 136-174 MHZ (A+D)	FUD1041A	85	\$3,150.00		

APX6500 380-470 MHZ (A+D)	APX6500 380-470 MHZ (A+D)	FUE1250A	85	\$3,150.00
APX6500 450-520MHZ (A+D)	APX6500 450-520MHZ (A+D)	FUE1251A	85	\$3,150.00
APX6500 700/800 MHZ (A+D)	APX6500 700/800 MHZ (A+D)	FUF1201A	85	\$3,150.00
XPRS350E 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPRS350e 136-174 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUD1040	85	\$935.00
XPRS350E 403-470 MHZ, DIGITAL +ANALOG + CONNECT PLUS	XPRS350E 403-470 MHZ, DIGITAL +ANALOG + CONNECT PLUS	FUE1078	85	\$935.00
XPRS350E 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPRS350E 450-512 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUE1077	85	\$935.00
XPRS380E 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	XPRS380E 800-900 MHZ, DIGITAL + ANALOG + CONNECT PLUS	FUF1200	85	\$935.00

Radio Installation Kits		Description	Full Description	Nomenclature	APC	Price
		APX6500 INSTALLATION KIT	APX6500 INSTALLATION KIT	FLN0100	275	\$250.00
		ACCESSORY KIT,CABLE KIT EXTERNAL MODEM MOTOTORBO ANALOG	ACCESSORY KIT,CABLE KIT EXTERNAL MODEM MOTOTORBO ANALOG	FLN4722	275	\$200.00
		ACCESSORY KIT,CABLE KIT EXTERNAL MODEM CM140/200 ANALOG	ACCESSORY KIT, CABLE KIT EXTERNAL MODEM CM140/200 ANALOG	FLN4723	275	\$150.00
		XPRS350E INSTALLATION KIT	MOTOTRBO MOBILE DIGITAL INSTALLATION KIT FOR MC-EDGE	FLN0093	275	\$160.00
		APX4000 INSTALLATION KIT	APX/XPR PORTABLE DIGITAL INSTALLATION KIT FOR MC-EDGE	FLN0042	275	\$300.00
		ACCESSORY KIT,EXTERNAL MOBILE TETRA MTM5XX RADIO CABLE KIT FOR MC-EDG	External TETRA radio cable kit for MC-EDGE	FLN9981A	275	\$150.00

Mid Power Amplifier

Main Model		Description	Nomenclature	Price
		Mid Power Amplifier	FDKT00353	\$28,500

MIP 5000 VoIP Radio Console

Gateways		Description	Full Description	Nomenclature	APC	Price
		MIP5000 VOIP LOCAL GATEWAY	Provides one MIP 5000 Local Gateway. Each gateway is capable of supporting one local control radio. Punch blocks and cabling for connecting to the radio are not included in the L3482AC. An Ethernet cable (not included) is also required for each L3482AC.	L3482AC	740	\$798.00
		MIP5000 VOIP TONE GATEWAY	Provides one MIP 5000 Tone Gateway. Each gateway is capable of supporting one tone remote controlled base station. Punch blocks and cabling for connecting to the station are not included in the L3483AC. An Ethernet cable (not included) is also required for each L3483AC.	L3483AC	740	\$798.00
		MIP5000 VOIP DIGITAL GATEWAY	Provides one MIP 5000 Digital Gateway. Each gateway is capable of supporting one SB9600-capable radio. Punch blocks and cabling for connecting to the radio are not included in the L3484AC. An Ethernet cable (not included) is also required for each L3484AC.	L3484AC	740	\$798.00
		MIP 5000 VOIP MOTOTRBO GATEWAY	Provides one MIP 5000 MOTOTRBO Gateway. Each gateway is capable of supporting one XPR4550 or XPR 5550 radio. Punch blocks and cabling for connecting to the radio are not included in the L3598. You must order the DDN9867 MOTOTRBO Direct Connect Cable to connect to the XPR 4550 or XPR 5550. An Ethernet cable (not included) is also required for each L3598.	L3598AC	740	\$798.00

Options for Gateways - Must select one per gateway		Description	Full Description	Nomenclature	APC	Price
		FOR SYSTEMS AT RELEASE 4.0 OR EARLIER	-	TT05979AA	740	\$0.00
		FOR SYSTEMS AT RELEASE 4.1 OR NEWER	-	TT05980AA	740	\$0.00

Software		Description	Full Description	Nomenclature	APC	Price
		MIP5000 VOIP DISPATCH SW 1 CHANNEL	Provides the software application and license for one MIP 5000 1-channel dispatch console. Allows a dispatcher to access and control one MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateway.	L3485	740	\$1,500.00
		MIP5000 VOIP DISPATCH SW 4 CHANNEL	Provides the software application and license for one MIP 5000 4-channel dispatch console. Allows a dispatcher to access and control up to four MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3486	740	\$2,500.00
		MIP5000 VOIP DISPATCH SW 8 CHANNEL	Provides the software application and license for one MIP 5000 8-channel dispatch console. Allows a dispatcher to access and control up to eight MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3487	740	\$6,500.00
		MIP5000 VOIP DISPATCH SW 12 CHANNEL	Provides the software application and USB Hasp Key for one MIP 5000 12-channel dispatch console. Allows a dispatcher to access and control up to 12 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3499	740	\$10,500.00
		MIP5000 VOIP 24 CHANNEL SW WITH LICENSE	Provides the software application and USB Hasp Key for one MIP 5000 24-channel dispatch console. Allows a dispatcher to access and control up to 24 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3567	740	\$15,500.00
		MIP5000 VOIP DISPATCH SW 48 CHANNEL	Provides the software application and USB Hasp Key for one MIP 5000 48-channel dispatch console. Allows a dispatcher to access and control up to 48 MIP 5000 Local, Tone, Digital, or MOTOTRBO Gateways.	L3630	740	\$25,000.00

Option for Software		Description	Full Description	Nomenclature	APC	Price
		MIP5000 ENHANCED MODEL USB HEADSET JACKBOX	-	TT05522AA	740	\$575.00

Expansion Entitlement		Description	Full Description	Nomenclature	APC	Price
		MIP5000 SW EXPANSION ENTITLEMENT 4 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2191	740	\$13,000.00
		MIP5000 SW EXPANSION ENTITLEMENT 4 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2192	740	\$8,500.00
		MIP5000 SW EXPANSION ENTITLEMENT 8 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2193	740	\$9,500.00
		MIP5000 SW EXPANSION ENTITLEMENT 12 TO 24 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2194	740	\$5,500.00
		MIP5000 SW EXPANSION ENTITLEMENT 8 TO 12 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2225	740	\$4,500.00
		MIP5000 SW EXPANSION ENTITLEMENT 4 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2745	740	\$23,000.00
		MIP5000 SW EXPANSION ENTITLEMENT 8 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2746	740	\$19,000.00
		MIP5000 SW EXPANSION ENTITLEMENT 12 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2747	740	\$15,000.00
		MIP5000 SW EXPANSION ENTITLEMENT 24 TO 48 CHANNELS	Orders for this item will automatically be placed on hold. Be prepared to provide the Factory Order (FO) number and/or the Serial number of the currently installed software to release the hold.	TT2748	740	\$10,000.00

Demo		Description	Full Description	Nomenclature	APC	Price
		MIP5000 4 CHANNEL DEMO SOFTWARE	THE 4 CHANNEL MIP 5000 DEMO SOFTWARE IS NOT FOR RESALE. IT PROVIDES SOFTWARE TO DEALERS AT A SIGNIFICANT DISCOUNT AND IS LIMITED TO 1 PER CHANNEL PARTNER LOCATION. TO COMPLETE THE DEMO SYSTEM, ORDER THE FOLLOWING ADDITIONAL COMPONENTS: 1) UP TO 4 MIP 5000 GATEWAYS (L3482 LOCAL, L3483 TONE, L3484 DIGITAL, L3598 MOTOTRBO) 2) DDN8671 NULL MODEM CABLE FOR PROGRAMMING THE GATEWAY. 3) DDN9492 BASIC USB HEADSET JACKBOX. 4) B1914 DESKTOP GOOSENECK MICROPHONE. 5) MOBILE RADIO WITH RADIO INTERFACE CABLES TO CONNECT THE GATEWAY TO THE RADIO 6) A DESKTOP OR LAPTOP COMPUTER MEETING MIP 5000 SPECIFICATIONS 7) A SET OF PC SPEAKERS 8) SUBSCRIBER TO DEMONSTRATE RX AND TX AUDIO	L3544	740	\$750.00

Workstation		Description	Full Description	Nomenclature	APC	Price
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Z2 MINI WORKSTATION 258G 8G NON RET	Provides one HP Z440 computer with 64 bit Windows 10 Enterprise IoT LTSS 2016. Also includes 1 keyboard, 1 optical mouse, 2 DisplayPort to DVI adapters, 2 DisplayPort to VGA adapters and 1 MOSI CD. NON-RETURNABLE	TT3225	708	\$2,500.00
STARTECH 7 PORT USB 3.0 HUB	Includes an external power supply. May be used with HP Z2 Mini Workstation. Star Tech Part# S77300U3M.	DSST7300U3M	708	\$111.00
USB EXTERNAL DVD DRIVE	External DVD Drive that connects to the computer via USB. May be used with HP Z2 Mini Workstation. HP Part# F2B56AA.	DSF2B56AA	708	\$172.00
HP Z2 MINI ARM WALL VESA MOUNT	VESA Compliant mounting sleeve for the HP Z2 Mini Workstation. HP Part# Y7B61AA.	DSY7B61AA	708	\$77.00
STARTECH 7.1 USB AUDIO ADAPTER SOUND CARD	Provides a 7.1 USB Soundcard. May be used with HP Z2 Mini Workstation. Star Tech Part# ICUSBAUDIO7D.	DSICUSBAUDIO7D	708	\$60.00

Accessories					
Audio					
Description	Full Description	Nomenclature	APC	Price	
MIP5000 ENHANCED MODEL USB HEADSET	Supports 1 Plantronics two prong headset base and quick disconnect top, 1 footswitch BLN6732 and 1 gooseneck Microphone B1914, also provides port for Call Director, logging Recorder or External Pager port.	DDN9493	740	\$575.00	
MCC SERIES DESKTOP GOOSENECK MICROPHONE	Provides one desktop style microphone. Includes transmit and monitor buttons, an 18 in. gooseneck shaft and a 10 foot cable. Compatible for use near CRT monitors.	B1914	443	\$650.00	
FOOT, SWITCH TRADITIONAL	-	BLN6732	229	\$135.00	
PC DESKTOP SPEAKERS	Creative Lab speakers includes 110V AC power supply.	CDN6673	708	\$45.75	

MOTOTRBO (L3598) Direct Connect Radio Interface Cable					
Description	Full Description	Nomenclature	APC	Price	
MOTOTRBO DIRECT CONNECT CABLE	For use with the XPR 4550 or XPR 5550.	DDN9867	740	\$159.00	

Digital Gateway (L3484) Radio Interface Cables					
Description	Full Description	Nomenclature	APC	Price	
APX 7500 MOBILE DIRECT CONNECT CABLE	For Direct Connection to APX7500 or APX8500 Mid Power Remote Mount 05 Control Head Radio.	DDN1463	740	\$230.00	
MCS2000 III DIRECT CONNECT CABLE	-	DDN8350	322	\$200.00	
CONSOLETTIE W9 DIRECT CONNECT CABLE	-	DDN8351	322	\$100.00	
CDM1550 SERIES DIRECT CONNECT CABLE	-	DDN8352	322	\$100.00	

Local Gateway (L3482) Control Interface Cables					
Description	Full Description	Nomenclature	APC	Price	
RADIO INTERFACE CABLE 4 USE WITH MAXTRAC, M1225, SM50, SM120, CDM1550	For connecting MAXTRAC, M1225, SM50, SM120, CDM750, CDM1250, and CDM1550 family radios. With Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277)	DDN6338	124	\$72.00	
GENERIC RADIO CABLE WITH UNTERMINATED BARE LEADS	For use with Local Junction Box (DDN6337) and TRC/DC Remote Adapters (L3276/L3277). Provides 10FT cable with DB 25 connector on one end.	DDN6340	124	\$50.00	
RADIO INTERFACE CABLE FOR THE MCS2000	-	DDN6699	454	\$138.00	

FRU Kits					
Description	Full Description	Nomenclature	APC	Price	
15 FT NULL MODEM CABLE DB9 F/F	One required per MIP 5000 System	DDN8671	740	\$13.00	

Rackmount Kit					
Description	Full Description	Nomenclature	APC	Price	
MIP5000 RACKMOUNT KIT	Holds 2 gateways	DDN8900	740	\$225.00	

Information Assurance					
Description	Full Description	Nomenclature	APC	Price	
MIP5000 INFORMATION ASSURANCE TRANSPARENT HARDENING KIT CD	-	TT2134	740	\$50.00	
MIP5000 INFORMATION ASSURANCE FULLY HARDENED KIT CD	-	TT2135	740	\$50.00	
MIP5000 WIN 10 INFORMATION ASSURANCE TRANS HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3192	740	\$50.00	
MIP5000 WIN 10 INFORMATION ASSURANCE FULL HARDENING KIT CD	For use with the TT3106 (Z440) or TT3225 (Z2 Mini) Motorola Certified PC.	TT3193	740	\$50.00	

Aux I/Os					
MCN Modules					
Description	Full Description	Nomenclature	APC	Price	
MCN RCD SERVER SOFTWARE AND HIB-IP MODULE	-	DDN1388	229	\$7,000.00	
MCN GPIO-1208C INPUT/OUTPUT MODULE	-	DDN1385	229	\$1,075.00	
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00	
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00	

Software Expansion					
Description	Full Description	Nomenclature	APC	Price	
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	-	DDN1295	229	\$2,765.00	

Power Supply					
Description	Full Description	Nomenclature	APC	Price	
POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00	

Network Cables and Terminators					
Description	Full Description	Nomenclature	APC	Price	
CABLE ASSY NETWORK 9 INCHES	-	CDN6123	229	\$21.00	
CABLE ASSY NETWORK 3 FT	-	CDN6124	229	\$21.00	
CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00	
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00	
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00	
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00	

Parallel Input/Output Cables					
Description	Full Description	Nomenclature	APC	Price	
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00	
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00	

Serial Cables					
Description	Full Description	Nomenclature	APC	Price	
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00	

Manuals					
Description	Full Description	Nomenclature	APC	Price	
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00	
MCN SERVER SOFTWARE MANUAL	-	DDN1402	229	\$25.00	
GPIO HARDWARE GUIDE	-	DDN1386	229	\$20.00	
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00	
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00	

Rack Mounting					
Description	Full Description	Nomenclature	APC	Price	
RACK MOUNT FOR HIB-IP	-	DDN1387	229	\$75.00	
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00	

Motorola MKM 7000 Console Alias Manager

Software DVD					
Description	Full Description	Nomenclature	APC	Price	
MKM 7000 Console Alias Manager Software	Provides one copy of the MKM 7000 Console Alias Manager server software. Each CAM server requires its own copy of the software.	BVN1013	443	\$250.00	

MLC 8000 Comparator

Model					
Description	Full Description	Nomenclature	APC	Price	
MLC 8000	F2979 includes: - MLC 8000 module - QMA to BNC adapter - for connecting 5MHz/1PPS in analog simulcast configurations - Analog Simulcast adapter cable - Ground cable	F2979	112	\$2,000.00	

Options					
MLC 8000 Software					
Analog Simulcast					
Description	Full Description	Nomenclature	APC	Price	

ADD: ANALOG CONVENTIONAL SIMULCAST COMPARATOR/GATEWAY	VA00783AA provides software that can be configured for one of two operational modes (but not both): analog simulcast comparator or base radio gateway. The MLC 8000 analog simulcast comparator provides one TRC 4-wire connection to a circuit analog console, and IP connectivity for up to 64 transmit/receiver resources connected to MLC 8000 gateways. The MLC 8000 base radio gateway will connect to one transmit simulcast base station. Only one simulcast base station can be connected to the MLC 8000.	VA00783AA	112	\$1,000.00
Analog Voting				
Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL VOTING COMPARATOR/GATEWAY	For receive-only sites in analog simulcast, the VA00784AA option provides software to operate as a receiver gateway. The MLC 8000 receiver gateway will support up to four analog receivers.	VA00784AA	112	\$500.00
Mixed Mode (digital P25 and analog) Voting				
Description	Full Description	Nomenclature	APC	Price
ADD: MIXED MODE GCM 8000 COMPANION VOTING COMPARATOR/GATEWAY	VA00785AA provides software that can be configured for one of two operational modes (but not both): analog companion comparator or mixed mode base radio/receiver gateway. The MLC 8000 analog companion comparator provides one TRC 4-wire connection to a co-located GCM 8000 CCGW, and IP connectivity for up to 64 transmit base radio or receiver resources connected to MLC 8000 gateways. The MLC 8000 comparator shares the MLC 8000 gateway resources with a GCM 8000 digital P25 comparator. One MLC 8000 base radio/receiver gateway provides 4wire/V.24 hybrid connections to four mixed mode transmit base radios or receivers.	VA00785AA	112	\$0.00
P25 Digital-Only Voting, P25 Digital-Only Simulcast				
Description	Full Description	Nomenclature	APC	Price
ADD: GCM 8000 SIMULCAST VOTING V.24 BASE RADIO AND RECEIVER GATEWAY	VA00786AA provides gateway software to translate the IP GCM 8000 traffic to the V.24 circuit protocol for interfacing to V.24 base radios and receivers. Used in conjunction with the GCM 8000 comparator, one MLC 8000 base radio/receiver gateway provides V.24 connections to four mixed mode transmit base radios or receivers.	VA00786AA	112	\$0.00
External Power Supply (Required)				
Description	Full Description	Nomenclature	APC	Price
ADD: 120/240VAC TO +12VDC POWER ADAPTER	Order one power supply per MLC 8000 main model.	VA00012AA	112	\$50.00
Mounting Hardware (Required)				
Description	Full Description	Nomenclature	APC	Price
19INCH RACK MOUNT HARDWARE KIT CABINET OR RACK	Determine the number of co-located MLC 8000 devices and order accordingly. Screws and adapters for switching from rack mount to cabinet mount are included. (Allow for 2 RU of space per rack mount kit. See Product Planning Guide for details)	VA00011AA	112	\$50.00
FRUs				
Description	Full Description	Nomenclature	APC	Price
FRU KIT, MLC8000	-	FLN0001	454	\$1,000.00
MCD 5000 DESKSET RGU RACK MOUNT PANEL PLUS SCREWS	-	FTN7490	202	\$200.00
MCD 5000 DESKSET / RGU POWER SUPPLY WITH USA POWER CORD	Provides one in-line power supply unit and a North American AC line power cord that connects directly to the MCD 5000 Deskset (F2380) or MCD 5000 RGU (F7979) to provide power (110/220 VAC to 12 VDC). Note: This power supply is required for both F2380 and F7979.	FHN7469	202	\$100.00

MOBILITY MANAGEMENT ENTITY (MME)

New System Order Guidelines

Description	Full Description	Nomenclature	APC	Price
MME 5K SAU BUNDLE	-	TT2705	53	\$298,400.00
MME 10K SAU BUNDLE	-	TT2706	53	\$390,570.00
MME 25K SAU BUNDLE	-	TT2707	53	\$632,480.00
MME 50K SAU BUNDLE	-	TT2708	53	\$700,390.00
MME 100K SAU BUNDLE	-	TT2709	53	\$823,850.00
MME 250K SAU BUNDLE	-	TT2695	53	\$1,160,060.00
MME 500K SAU BUNDLE	-	TT2696	53	\$1,732,710.00
GSM SUPPORT SYSTEM (GSS)	-	TT2766	53	\$49,500.00

Existing System Capacity Expansion Guidelines

Description	Full Description	Nomenclature	APC	Price
MME FROM 5K TO 10K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05866AA	53	\$101,400.00
MME FROM 10K TO 25K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05867AA	53	\$266,100.00
MME FROM 25K TO 50K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05868AA	53	\$80,810.00
MME FROM 50K TO 100K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05869AA	53	\$135,810.00
MME FROM 100K TO 150K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05870AA	53	\$135,810.00
MME FROM 150K TO 250K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05871AA	53	\$234,040.00
MME FROM 250K TO 350K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05872AA	53	\$311,520.00
MME FROM 350K TO 500K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05873AA	53	\$313,480.00
MME FROM 500K TO 750K IP SAU CAPACITY SOFTWARE LICENSE	-	TT05874AA	53	\$520,220.00

Motorola Solutions Mobile VPN

Hardware

Description	Full Description	Nomenclature	APC	Price
NON REDUNDANT MVPN SERVER	-	SQM01SUM0270	212	\$27,000.00
REDUNDANT MVPN SERVER	-	SQM01SUM0272	212	\$54,000.00

Active User Server Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: ACTIVE USER MVPN SERVER CAPACITY	-	CA02573AA	212	\$2,500.00
FIELDLED MVPN USER CAPACITY SW ADD-ON	-	T8084	212	\$2,500.00

Client Licenses

Description	Full Description	Nomenclature	APC	Price
MVPN CLIENT LICENSE MSI DEVICES & WINDOWS LAPTOP	-	T8079	212	\$0.00
Description	Full Description	Nomenclature	APC	Price
MVPN CLIENT LICENSE BYOD ANDROID DEVICES	-	T8179	212	\$0.00

VPN USER LICENSE BUNDLE

Description	Full Description	Nomenclature	APC	Price
Add: VPN 1 CLIENT LICENSE	-	UA00129AA	212	\$45.00
Add: VPN CLIENT LICENSE Bundle of 10	-	UA00116AA	212	\$400.00
Add: VPN CLIENT LICENSE Bundle of 100	-	UA00117AA	212	\$3,700.00
Add: VPN CLIENT LICENSE Bundle of 250	-	UA00118AA	212	\$8,500.00
Add: VPN CLIENT LICENSE Bundle of 500	-	UA00119AA	212	\$15,500.00
Add: VPN CLIENT LICENSE Bundle of 1,000	-	UA00120AA	212	\$27,000.00
Add: VPN CLIENT LICENSE Bundle of 2,000	-	UA00121AA	212	\$48,000.00
Add: VPN CLIENT LICENSE Bundle of 5,000	-	UA00122AA	63	\$100,000.00
Add: VPN CLIENT LICENSE Bundle of 7,500	-	UA00123AA	212	\$120,000.00
Add: VPN CLIENT LICENSE Bundle of 10,000	-	UA00124AA	212	\$130,000.00

MOBILITY ADD-ON USER LICENSE BUNDLE

Description	Full Description	Nomenclature	APC	Price
Add: Mobility ADD-ON 1 CLIENT LICENSE	-	UA00174AA	212	\$125.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10	-	UA00175AA	212	\$1,200.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 100	-	UA00176AA	212	\$11,400.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 250	-	UA00177AA	212	\$27,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 500	-	UA00178AA	212	\$51,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 1,000	-	UA00179AA	212	\$96,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 2,000	-	UA00180AA	212	\$180,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 5,000	-	UA00181AA	63	\$410,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 7,500	-	UA00182AA	212	\$555,000.00
Add: Mobility ADD-ON CLIENT LICENSE Bundle of 10,000	-	UA00183AA	212	\$660,000.00

Accessories

Description	Full Description	Nomenclature	APC	Price
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	55	\$9,470.00

48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	55	\$11,460.00
48 PORT SWITCH BUNDLE - DC PO	-	TT2847	55	\$9,360.00
FRUs/FREs for Hardware				
Description	Full Description	Nomenclature	APC	Price
VPN HARDWARE FRE SERVICE ONLY	-	DLN6943	212	\$17,200.00
1.2 TB HARD DRIVE	-	DLN6942	454	\$1,750.00

Monitoring and Control Network Used for Comparator Status and Control

ASTRO-TAC/DIGITAC-TAC/Spectra-TAC Comparator Interface				
Description	Full Description	Nomenclature	APC	Price
DIGITAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a DigiTAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1955	229	\$3,674.00
ASTRO-TAC AIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect an 8 port ASTRO-TAC to a console using 1 DOS based CRT display.	L1959	229	\$4,394.00
ACIS IIB UP TO 16 RECEIVERS	Order the above to connect a 16 port ASTRO-TAC to a console using contact closures. Four B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1954	229	\$3,236.00
ACIS IIB UP TO 8 RECEIVERS	Order the above to connect an 8 port ASTRO-TAC to a console using contact closures. Two B1426 CENTRACOM Comparator interface cards are not included and may be needed.	L1953	229	\$2,404.00
SPECTRA-TAC CIB, HIB-232 & MCNRCD FOR PC 8 RX	Order the above to connect a Spectra-TAC with a maximum of 8 Receivers to a console using a DOS based CRT display.	L1957	229	\$3,674.00

MCN Server 8000 & Client Software For MLC 8000 and GCM 8000 IP Comparators				
Description	Full Description	Nomenclature	APC	Price
MCN SW LIC OPTION MULTI-NI-4, ADDS SUPPORT FOR (4) HIB-IPS	-	DDN1294	229	\$2,100.00
MCN SW LIC OPT CLIENT EXPANSION FOR 4 ADD'L CLIENTS	-	DDN1295	229	\$2,765.00
MCN SERVER 8000 MANUAL	-	DDN1290	229	\$28.00
HIB-IP 8002 UNIT - NETWORK INTERFACE FOR MCN SERVER	-	DDN1213	229	\$3,066.00
MCN SERVER 8000 & CLIENT SOFTWARE MAJOR LEVEL 1 UPGRADE	-	DDN1292	229	\$3,332.00
MCN SERVER 8000 SW LIC FOR 4 MOTOROLA IP COMPARATORS & 4 CLIENTS	-	DDN1289	229	\$9,556.00
MCN SERVER 8000 SW LIC OPT FOR 1 ADD'L MOTOROLA GCM 8000 OR MLC 8000	-	DDN1287	229	\$910.00
MCN SERVER 8000 SW LIC OPT FOR 4 ADD'L MOTOROLA GCM 8000 OR MLC 8000	-	DDN1288	229	\$2,100.00

Options				
ASTRO-TAC Comparator				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER SPLY 120VAC US/CAN	-	Z491	229	\$69.00
ADD: POWER SUPPLY 230VAC EUROPE	-	Z492	229	\$228.00
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00
ADD: ASTRO IMBE LICENSE	This will provide an ASTRO IMBE Software License agreement.	Z708	229	\$400.00
ADD: MOUNT, RACK ACIS IIB 8 RX	Compatible with the L1954 only.	Z493	229	\$245.00
ADD: MOUNT, RACK ACIS IIB 16RX	Compatible with the L1954 only.	Z493	229	\$320.00

DIGITAC/Spectra-TAC Comparator				
Description	Full Description	Nomenclature	APC	Price
ADD: POWER SPLY 120VAC US/CAN	-	Z491	229	\$69.00
ADD: POWER SUPPLY 230VAC EUROPE	-	Z492	229	\$228.00
ADD: PUNCHLOCK WIRING 8 RX	-	Z550	229	\$146.00
ADD: WIRING-MOUNTING DIGITAC 8	-	Z496	229	\$239.00
ADD: WIRING BLUNT CABLE 8 RX	-	Z495	229	\$36.00
ADD: MOUNT, RACK 8 RX	Compatible with the L1955 or L1957 or L1959 only.	Z493	229	\$99.00

Accessories				
MCN Spare Modules				
Description	Full Description	Nomenclature	APC	Price
AIB ASTROTAC INTERFACE MODULE	-	CDN6119	229	\$1,900.00
CIB COMPARATOR INTFC MODULE	-	CDN6121	229	\$962.00
IIB I/O INTERFACE MODULE	-	CDN6120	229	\$962.00
MCNRCD STD SOFTWARE LICENSE W/HIB-232 MOD	-	CDN6122	229	\$2,792.00

Spare Power Supplies				
Description	Full Description	Nomenclature	APC	Price
POWER SUPPLY MCN120 VAC	-	CDN6116	229	\$66.00

Spare Mounting Brackets				
Description	Full Description	Nomenclature	APC	Price
RACK MOUNT QUAD SIZE A	-	CDN6112	229	\$92.00
MNTING BRACKET CIB DIGITAC	-	CDN6114	229	\$224.00

Parallel Input/Output Cables				
Description	Full Description	Nomenclature	APC	Price
PUNCH BLOCK DUAL 25 PAIR	-	CDN6118	229	\$125.00
CABLE ASSY 25 PR M-NONE 25FT	-	CDN6135	229	\$81.00
CBL ASSY 25 PR MALE-MALE 25 FT	-	CDN6130	229	\$98.00
CBL ASSY 25 PR MALE-MALE 10 FT	-	CDN6129	229	\$86.00

Serial Cables				
Description	Full Description	Nomenclature	APC	Price
CBL ASSY AIB COMPARATOR 10 FT	-	CDN6131	229	\$74.00

Network Cables and Terminators				
Description	Full Description	Nomenclature	APC	Price
COUPLER NETWORK CABLE FEM/FEM	-	CDN6133	229	\$12.00
CABLE ASSY NETWORK 25 FT	-	CDN6126	229	\$38.00
NETWORK TERMINATOR (STANDARD 78K SYSTEMS)	-	CDN6115	229	\$12.00
CABLE ASSY NETWORK 100 FT	-	CDN6127	229	\$92.00
CABLE ASSY NETWORK 10 FT	-	CDN6125	229	\$21.00
CABLE ASSY NETWORK 9 INCHES	-	CDN6123	229	\$21.00
CABLE ASSY NETWORK 3 FT	-	CDN6124	229	\$21.00

Manuals				
Description	Full Description	Nomenclature	APC	Price
MCN SERVER 8000 MANUAL	-	DDN1290	229	\$28.00
IIB HARDWARE GUIDE	-	CDN6108	229	\$20.00
MCN SYSTEM MANUAL	-	CDN6134	229	\$30.00
CIB HARDWARE GUIDE	-	CDN6109	229	\$20.00
AIB HARDWARE GUIDE	-	CDN6107	229	\$20.00
HIB-232 HARDWARE GUIDE	-	CDN6110	229	\$20.00
RCD DOS SOFTWARE GUIDE	-	CDN6111	229	\$28.00

MT 1500 Portable Series

Accessories				
Battery				
Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger				
Description	Full Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00

Earpieces					
Description	Full Description	Nomenclature	APC	Price	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75	

Accessories

Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50	
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$17.75	
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$27.25	
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$17.75	

Battery					
Description	Full Description	Nomenclature	APC	Price	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00	

Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50	

Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$343.00	
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$276.00	

Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75	

Charger					
Description	Full Description	Nomenclature	APC	Price	
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	

Earpieces					
Description	Full Description	Nomenclature	APC	Price	
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	

Headsets					
Description	Full Description	Nomenclature	APC	Price	
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00	

Manual(s)					
Description	Full Description	Nomenclature	APC	Price	
XTS/MT1.5K,XTS2.5KM1,1.5,2,3CD UG B	-	PMLN4940B	362	\$21.00	

Microphones					
Description	Full Description	Nomenclature	APC	Price	
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$130.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00	

Multi Unit Chargers					
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00	

Service					
Description	Full Description	Nomenclature	APC	Price	
BATTERY ELIMINATOR CABLE	-	AA0180305G54	261	\$150.00	
HOUSING ELIMINATOR, XTS 2500, XTS 1500	-	8180384M37	261	\$591.00	

Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$44.50	
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25	

UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ABC LABEL REPLACEMENT KIT - GREEN	-	PMLN5159A	140	\$20.00	
ABC LABEL REPLACEMENT KIT - YELLOW	-	PMLN5161A	140	\$20.00	
ABC LABEL REPLACEMENT KIT -COOLGRAY	-	PMLN5162A	362	\$20.00	
ABC LABEL REPLACEMENT KIT - RED	-	PMLN5163A	140	\$20.00	
ABC LABEL REPLACEMENT KIT - BLUE	-	PMLN5160A	140	\$20.00	

MTR3000 Satellite Receiver

Models					
Description	Full Description	Nomenclature	APC	Price	
MTR3000 CAPACITY PLUS SW UPGRADE	Capacity Plus software enables single site trunking without a hardware controller. One HKLN4439 is required per base station to enable Capacity Plus single site trunking feature.	HKLN4439	422	\$2,108.00	
MTR 3000 BASE RADIO	-	T3000	512	\$4,255.00	

Options

Frequency Band					
Description	Full Description	Nomenclature	APC	Price	
ADD: 800 MHz 100W POWER (806-870)	-	X450MT	512	\$4,140.00	
ADD: 900 MHz 100W POWER (896-941)	-	X460MT	512	\$4,140.00	
ADD: UHF 100W POWER (470-524)	-	X540MT	512	\$3,910.00	
Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
ADD: DIGITAL PHONE PATCH CABLE	-	X244AK	512	\$50.00	
ADD: AUXILIARY SYSTEM CABLE	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00	
ADD: PHONE PATCH CABLE	-	X244AH	512	\$50.00	
ADD: COMMUNITY REPEATER PANEL CABLE	-	X244AG	512	\$50.00	
ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00	
Conventional Station Operation					
Description	Full Description	Nomenclature	APC	Price	
ADD: BASE STATION OPERATION	Select 1 Station Operation. DOES NOT include Antenna Relay, if relay is required order X371. **Station Operation is required when operating in analog simplex mode Tx=Rx. MTR3000 does not support simplex in 800MHz and 900MHz bands.	X622	512	\$0.00	
Duplexers					
Description	Full Description	Nomenclature	APC	Price	
ADD: DUPLEXER, UHF 494-512 MHz	Freq separation rules 3MHz min/18MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UH	512	\$1,380.00	
ADD: DUPLEXER, UHF 470-494 MHz	Freq separation rules 3MHz min/24MHz max when using a duplexer. IF A DUPLEXER IS ORDERED A (X265) NARROW PRESELECTOR IS REQUIRED.	X182UN	512	\$1,380.00	
ADD: DUPLEXER, 800 MHz	-	X182EB	512	\$1,380.00	
Ethernet Cables					
Description	Full Description	Nomenclature	APC	Price	
ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00	
Mounting					
Description	Full Description	Nomenclature	APC	Price	
ADD: RACK MOUNT HARDWARE	-	X153BA	512	\$75.00	
ADD: CABINET MOUNT HARDWARE	The U178AB cabinet mount hardware option provides L-brackets which support the weight of the base radio prior to the insertion of the front mounting screws.	U178AB	512	\$100.00	
Peripheral					
Description	Full Description	Nomenclature	APC	Price	
ADD: CIRCULATOR, UHF (470-524 MHz)	-	X676UH	512	\$1,500.00	
ADD: CIRCULATOR, 800 MHz	-	X676EB	512	\$1,000.00	
ADD: ANTENNA RELAY	-	X371BA	512	\$250.00	
Power Cable					
Description	Full Description	Nomenclature	APC	Price	
ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00	
ADD: POWER CABLE, BRAZIL	Station ships w/US domestic power cable unless ordering this option.	XA00040AA	512	\$0.00	
ADD: POWER CABLE, EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00	
ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00	
ADD: POWER CABLE, AUSTRALIA	Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00	
Preselectors					
Description	Full Description	Nomenclature	APC	Price	
ADD: PRESELECTOR, UHF (470-524 MHz)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00	
Wireline Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: 4 WIRE WIRELINE	Supports 2 wire and 4 wire Analog. Needed for tone remote, DC remote, and voting.	X216AR	512	\$400.00	
Miscellaneous					
Description	Full Description	Nomenclature	APC	Price	
ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00	
Test Result (Optional)					
Description	Full Description	Nomenclature	APC	Price	
ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00	
Accessories					
Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
REPL BY: DSUSBFA6 (HI-SPEED USB CABLE 6FT TYPE A -B)	This USB cable is used to program the MTR3000. It is a Type A to Type B USB which connects the base station/repeater to a PC. CPS Programming software is RVN5115.	DDN9957	454	\$20.00	
Field Replaceable Units (FRU's) 800 MHz					
Description	Full Description	Nomenclature	APC	Price	
FRU 800/900 MHz RECEIVER	DLN6716 Receiver can be used for both 800 and 900 MHz stations.	DLN6716	454	\$1,500.00	
FRU 800/900MHz 100W PA	DLN6714 Power Amp can be used for both 800 and 900 MHz stations.	DLN6714	454	\$3,450.00	
FRU 800/900 MHz EXCITER	DLN6715 Exciter can be used for both 800 and 900 MHz stations.	DLN6715	454	\$1,500.00	
Field Replaceable Units (FRU's) Control/Wireline					
Description	Full Description	Nomenclature	APC	Price	
FRU STATION CONTROL OCOXO	Replaces station control module with high stability. For 800/900 Mhz only. Region specific for North America.	DLN6718	454	\$1,600.00	
FRU STATION CONTROL TCXO	For VHF and UHF only. Region specific for North America.	DLN6719	454	\$1,300.00	
FRU 4 WIRE WIRELINE	-	DLN6720	454	\$450.00	
Field Replaceable Units (FRU's) Power Supply					
Description	Full Description	Nomenclature	APC	Price	
FRU MTR3000 AC/DC POWER SUPPLY	-	DLN6707	454	\$1,000.00	
Field Replaceable Units (FRU's) UHF					
Description	Full Description	Nomenclature	APC	Price	
FRU UHF 450-524 EXCITER	-	DLN6704	512	\$1,500.00	
FRU UHF 403-470 EXCITER	-	DLN6703	454	\$1,500.00	
FRU UHF 100W PA 403-470	-	DLN6701	454	\$3,500.00	
FRU UHF 100W PA 470-524	-	DLN6702	454	\$3,450.00	
FRU UHF 403-470 RECEIVER	-	DLN6705	454	\$1,500.00	
FRU UHF 450-524 RECEIVER	-	DLN6706	512	\$1,500.00	
Field Replaceable Units (FRU's) VHF					
Description	Full Description	Nomenclature	APC	Price	
FRU VHF100W PA 136-174 MHz	-	DLN6710	454	\$3,450.00	
FRU VHF 136-174 RECEIVER	-	DLN6713	454	\$1,500.00	
FRU MTR3000 VHF 136-174 EXCITER	-	DLN6712	454	\$1,500.00	
Field Replacement Units					
Description	Full Description	Nomenclature	APC	Price	
MTR3000 EMEA OCOXO FRU	Region specific for EMEA. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6760	454	\$1,600.00	
MTR3000 APAC TCXO FRU	Region specific for APAC. For VHF and UHF only.	DLN6759	454	\$1,300.00	
MTR3000 APAC OCOXO FRU	Region specific for APAC. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6758	454	\$1,600.00	
MTR3000 LACR TCXO FRU	Region specific for LACR. For VHF and UHF only.	DLN6756	454	\$950.00	
MTR3000 LACR OCOXO FRU	Region specific for LACR. Replaces station control module with high stability. For 800/900 Mhz only.	DLN6757	454	\$940.00	
MTR3000 EMEA TCXO FRU	Region specific for EMEA. For VHF and UHF only.	DLN6761	454	\$1,300.00	

MTR3000 Base Station/Repeater

Configuration

Model	Description	Full Description	Nomenclature	APC	Price
	MTR3000 RECEIVER	-	T7713	512	\$1,400.00
Options					
Frequency Band					
	Description	Full Description	Nomenclature	APC	Price
	ADD: UHF R2	-	XA00046AA	512	\$3,400.00
	ADD: 800MHZ	-	XA00048AA	512	\$3,600.00
	ADD: 900MHZ	-	XA00049AA	512	\$3,600.00
Cable(s)					
	Description	Full Description	Nomenclature	APC	Price
	ADD: AUXILIARY SYSTEM CABLE	X244AJ Auxiliary System Cable provides a 25 foot male DB25 to open wire cable. This cable is used to access the RX audio, TX audio, 14VDC power, and GPIO control connections to and from the rear of the base radio for use with external third party boxes.	X244AJ	512	\$50.00
	ADD: SYSTEM CONNECTOR CABLE	System Connector Cable provides a 10 foot male 96 pin Euro connection to open wire cable.	C540AD	512	\$50.00
Ethernet Cables					
	Description	Full Description	Nomenclature	APC	Price
	ADD: ETHERNET CABLE 12'	-	XA00032AA	512	\$30.00
Power Cable					
	Description	Full Description	Nomenclature	APC	Price
	ADD: POWER CABLE, DC	-	CA01520AA	512	\$25.00
	ADD: POWER CABLE BRAZIL	Station ships w/US domestic power cable unless ordering this option.	XA00040AA	512	\$0.00
	ADD: POWER CABLE, AUSTRALIA	Station ships w/US domestic power cable unless ordering this option.	X191	512	\$0.00
	ADD: POWER CABLE, EUROPE	Station ships w/US domestic power cable unless ordering this option.	X189	512	\$0.00
	ADD: POWER CABLE, UK	Station ships w/US domestic power cable unless ordering this option.	X162	512	\$0.00
Preselectors					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PRESELECTOR, UHF (470-524 MHz)	When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz.	X265UH	512	\$500.00
Analog Voting					
	Description	Full Description	Nomenclature	APC	Price
	ENH: SPECTRA TAC	If ordering with the MTR3000 Base Station / Repeater (model T3000A), must also order wireline board option X216AR. If ordering with the MTR3000 Analog Receiver (model T7713A), you do NOT need to order option X216AR as the receiver has an integrated wireline board already built in.	X269	512	\$150.00
Test Results					
	Description	Full Description	Nomenclature	APC	Price
	ADD: MTR3000 FACTORY TEST REPORT	-	X699BA	512	\$0.00
Accessories					
Field Replacement Unit					
	Description	Full Description	Nomenclature	APC	Price
	MTR 3000 RECEIVER EXCITER FRU	-	DLN6776	512	\$100.00
	MTR 3000 RECEIVER PA FRU	-	DLN6777	512	\$100.00

Motorola APX Transportable Station

Models	Description	Full Description	Nomenclature	APC	Price
	RADIO SALES MODEL APX TRANSPORTABLE STATION	-	P2096	570	\$3,520.00
Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: O3 CORD EXTENSION 17 FEET	(APX7500/6500 mobiles only)	H143	570	\$55.00

MOSCAD NFM - Network Fault Management

SDM 3000 ADVANCED RTU

STEP 1: Order the SDM 3000 Advanced RTU hardware, software firmware and punch blocks. *Required*

Description	Full Description	Nomenclature	APC	Price
SITE MANAGER ADVANCED	-	F4544	469	\$3,000.00
ADD: SDM ASTRO RTU FW CURR ASTRO REL	-	VA00872	469	\$1,850.00
AAD TERM BLCK & CONN WI	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00

STEP 2: Choose an internal Power Supply for each SDM 3000 Advanced RTU (F4544). *Required*

Description	Full Description	Nomenclature	APC	Price
ADD:24/48 VDC PS TO SM	-	VA00905	469	\$120.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

SDM 3000 ADVANCED RTU SOFTWARE LICENSES

Upgrades/Downgrades

Description	Full Description	Nomenclature	APC	Price
SDM3000 ALL CONFIGURATION SOFTWARE AND FIRMWARE TO CURRENT VERSION	-	T7955	382	\$0.00
ADD: SDM3000 CONFIGURATION SOFTWARE AND FIRMWARE RECOVERY DVD	-	CA02404AA	382	\$25.00
ADD: SDM3000_ASTRO_RTU AND SDM3000_SNT FIRMWARE DOWNGRADE	-	CA02403AA	382	\$50.00

SDM 3000 I/O EXPANSION CHASSIS MODELS

STEP 1: Order SDM 3000 I/O Expansion Chassis if desired.

Description	Full Description	Nomenclature	APC	Price
SM IO EXPANSION BASIC	-	F4547	469	\$900.00
SM IO EXPANSION ADVANCED	-	F4548	469	\$1,200.00
ADD: 90VAC TO 260VAC PS TO SM	This option includes the FKN8266 power cord when shipped to North America. When shipped outside North America the field must supply the applicable power cord.	V266	469	\$120.00

STEP 3: Punch blocks may be ordered with the SDM 3000 I/O Expansion Chassis.

Description	Full Description	Nomenclature	APC	Price
AAD TERM BLCK & CONN WI	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	V592	469	\$90.00

FRUs

Description	Full Description	Nomenclature	APC	Price
TERM BLOCK & CONN WIRED M25T68	This is the punch block termination for use with the SDM3000 F4543 & F4544 units, the SDM IO Expansion F4547 & F4548 units, and the NFM XC I/O F4551 & F4550 units. The punch block is ordered with the V592 option or the FHN1668 field add on kit. This option requires a quantity of three for each unit ordered.	FHN1668	454	\$90.00
90 VAC TO 260VAC PS TO SM KIT	-	FPN1638	454	\$220.00

Network Products - Firewalls

For A7.18+ :					
Description	Full Description	Nomenclature	APC	Price	

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	Fortinet FG101E VPN/Firewall (A7.17.X + with limited functions)	T8586	877	\$3,300.00
FORTINET FIREWALL RECOVERY MEDIA	Fortinet Firewall Recovery Media	T8128	147	\$100.00
JUNIPER FIREWALL APPLIANCE	Juniper Firewall Appliance (Control Room Firewall) (A7.17.X +)	T8639	147	\$3,200.00
CONTROL ROOM FIREWALL OS	JUNIPER FIREWALL RECOVERY MEDIA (Firewall OS for A7.17.X +)	T8669	147	\$100.00

Two Factor Authentication

Description	Full Description	Nomenclature	APC	Price
PURCHASED SOFTWARE,FORTITOKEN PACK	FortiToken – Pack of 10 hard-tokens	DDN1933	708	\$577.00
FORTITOKENMOBILE - PACK OF 5 SOFT-T	FortiTokenMobile – Pack of 5 soft-tokens for iOS and Android mobile devices*	DDN1881	708	\$314.00

For A2020.X+ :

Description	Full Description	Nomenclature	APC	Price
JUNIPER FIREWALL APPLIANCE (NON-TAA)	Juniper Firewall Appliance SRX 345 (Non-TAA)	T8825	147	\$3,200.00

Network Products - CCGWs

A2020.X and Later

Description	Full Description	Nomenclature	APC	Price
MCG 8000 CONVENTIONAL GATEWAY	MCG 8000 CONVENTIONAL GATEWAY	SQM01SUM0333	147	\$5,000.00
ADD: AC POWER	ADD: AC POWER	CA03714AA	147	\$0.00
ADD: DC POWER	ADD: DC POWER	CA03715AA	147	\$0.00
ADD: V.24 INTERFACE	ADD: V.24 Interface	CA03716AA	147	\$750.00
ADD: ACIM INTERFACE	ADD: ACIM Interface	CA03717AA	147	\$750.00
ADD: ANALOG 4WIRE INTERFACE	ADD: Analog 4 Wire Interface	CA03718AA	147	\$750.00
ADD: DIGITAL IP INTERFACE	ADD: Digital IP Interface	CA03719AA	147	\$0.00
ADD: ANALOG IP INTERFACE	ADD: Analog IP Interface	CA03720AA	147	\$0.00
ADD: MDC1200 OVER IP INTERFACE	ADD: MDC1200 OVER IP INTERFACE	CA03748AA	147	\$0.00

FRUs

Description	Full Description	Nomenclature	APC	Price
FRU: MCG 8000 CCGW BASE UNIT W CPU (NO POWER SUPPLY)	FRU: MCG 8000 CCGW Base Unit w CPU (no power supply)	DLN8036	147	\$5,000.00
FRU: MCG 8000 AC POWER MODULE	FRU: MCG 8000 AC Power Module	DLN8037	147	\$750.00
FRU: MCG 8000 DC POWER MODULE	FRU: MCG 8000 DC Power Module	DLN8038	147	\$750.00
FRU: MCG 8000 HD ENH CONV GATEWAY MODULE	FRU: MCG 8000 HD ENH CONV GATEWAY MODULE	DLN8039	147	\$6,000.00

Network Products Routers

SITE ROUTER AND FIREWALL (AC AND DC VERSIONS), EDGE & HUB ROUTER & FIREWALL (AC AND DC VERSIONS)

Description	Full Description	Nomenclature	APC	Price
SITE AND HUB ROUTER AND FIREWALL - DC	This provides a site router and firewall (SRX345) including generic operating system as well as an internal -48 Volt DC power supply.	T8547	147	\$1,100.00
SITE AND HUB ROUTER AND FIREWALL- AC	This provides a site router and firewall (SRX345) including generic operating system as well as an internal 100-240 VAC power supply.	T8492	147	\$875.00
EDGE ROUTER & FIREWALL AC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a redundant internal 100-240 VAC power supply.	T8493	147	\$10,900.00
EDGE ROUTER & FIREWALL DC	This provides an Edge & Hub Router & Firewall (SRX1500) including a generic operating system as well as a single internal -48 Volt DC power supply.	T8555	147	\$10,900.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: MISSION CRITICAL HARDENING	-	CA03445AA	147	\$3,300.00
ADD: ENCRYPTION	-	CA03446AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX345	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03451AA	147	\$500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX1500	This option provides FIPS 140-2 encryption as well as Common Criteria certification. CA03446AA (ADD: ENCRYPTION) must be ordered when ordering FIPS 140-2	CA03452AA	147	\$500.00
ADD: STATEFUL FIREWALL	-	CA03448AA	147	\$1,000.00

FRUs

Description	Full Description	Nomenclature	APC	Price
ASTRO CERTIFIED OS FOR SRX345/1500	-	T8501	147	\$50.00
SFP MODULE	SFP Module for SRX345	DLN7025	147	\$246.00
FRU: SRX 1500 AC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - AC	DLN8022	877	\$415.00
FRU: SRX1500 DC SWAPPABLE POWER SUPPLY	Swappable power supply unit for SRX1500 - DC	DLN8021	877	\$1,108.00

DCG 9000 Model

Description	Full Description	Nomenclature	APC	Price
DYNAMIC CONVENTIONAL GATEWAY 9000	-	SQM01SUM0317	147	\$4,200.00

DCG 9000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: CONVENTIONAL GATEWAY SERVER LICENSE	-	UA00667AA	147	\$0.00
ADD: DFSI CONVENTIONAL CHANNELS	-	CA03366AA	147	\$0.00
ADD: DC-DC POWER SUPPLY & CABLES	-	CA03464AA	147	\$225.00

ESU - DCG 9000 Deployment Solution

Description	Full Description	Nomenclature	APC	Price
ESU LAUNCHPAD SW KIT	-	T8510	147	\$1,000.00

DCG 9000 FRUs

Description	Full Description	Nomenclature	APC	Price
DCG DC POWER KIT	-	DLN1443	147	\$225.00
GGM 8000 DC POWER CABLE W/NON-TERMINATED ENDS	-	DKN6145	454	\$55.25

GGM 8000 Motorola Network Gateway

GGM 8000 Model

Description	Full Description	Nomenclature	APC	Price
GGM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00

GGM 8000 Options

Description	Full Description	Nomenclature	APC	Price
ADD: DIRECT SHIP (NO STAGING)	-	CA02108AA	147	\$0.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ADD: DC POWER	-	CA01619AA	147	\$0.00
ADD: ENCRYPTION (7.9 OR 7.11)	Order one per each GGM 8000 gateway.	CA01617AA	147	\$1,500.00
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
ADD: LOW DENSITY ENH CONV GATEWAY	4 port CCGW for Astro releases 7.12 and later	CA02141AA	147	\$3,000.00
ADD: HIGH DENSITY ENH CONV GATEWAY	8 port CCGW for Astro releases 7.12 and later	CA02086AA	147	\$6,000.00

GGM 8000 FRU Kits

Description	Full Description	Nomenclature	APC	Price
FRU: GGM 8000 ENCRYPTION (7.9 OR 7.11)	-	TYN4000	147	\$1,500.00
FRU: GGM 8000 BASE MODULE	Base router w/o USB port. EOS compatible with A7.14 and later. For A7.9-A7.13 must order updated EOS.	TYN4001	147	\$5,250.00
FRU: GGM 8000 BASE MODULE-ENCRYPTION ENABLED	Encrypted base router w/onboard encryption of the processor. EOS compatible with A7.12 and later releases.	TYN4010	147	\$6,750.00
FRU: GGM 8000 E&M DSP MODULE	-	TYN4003	147	\$1,200.00
FRU: GGM 8000 V.24 MODULE	-	TYN4004	147	\$750.00
ANALOG/V.24 INTERFACE KIT	CCGW for Astro releases 7.11 and earlier	TYN4002	147	\$2,000.00
FRU: GGM 8000 LD ENH CONV GATEWAY MODULE	4 port CCGW for Astro releases 7.12 and later	TYN4012B	454	\$3,000.00
FRU: GGM 8000 HD ENH CONV GATEWAY MODULE	8 port CCGW for Astro releases 7.12 and later	TYN4011B	454	\$6,000.00
FRU: GGM 8000 EXPANDER MODULE	-	TYN4005	454	\$1,200.00
FRU: GGM 8000 ROUTER MODULE	Base router with the USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4001.	TYN4006	454	\$4,050.00

FRU: GGM 8000 ROUTER MOD-ENCRYPTION ENABLED	Encrypted base router with USB port. EOS compatible with A7.9 or A7.11 only. For newer releases order TYN4010.	TYN4009	454	\$5,550.00
FRU: GGM 8000 FLEXWAN MODULE	-	TYN4007	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00
FRU: GGM 8000 AC MODULE	-	TPN6210	454	\$750.00
FRU: GGM 8000 DC MODULE	-	TPN6211	454	\$750.00

Network Time and Frequency

**TRAK 9100 Models
91009 and 91008**

Description	Full Description	Nomenclature	APC	Price
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91009EDC	906	\$34,130.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM DC	-	DSTRAK91008EDC	906	\$39,075.00
PRIME/MASTER SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91008E	906	\$39,075.00
REMOTE SITE REDUNDANT MODULAR FREQUENCY TIMING SYSTEM AC	-	DSTRAK91009E	906	\$35,155.00

Expansion Chassis

Description	Full Description	Nomenclature	APC	Price
DISTRIBUTION SHELF FOR 9100 DC	-	DSTRAK93007DC	906	\$14,413.00
DISTRIBUTION SHELF FOR 9100 AC	-	DSTRAK93007	454	\$14,413.00

Modules

Description	Full Description	Nomenclature	APC	Price
GPS REFERENCE MODULE W/RB OSCILLATOR	-	DSTRAK910115	906	\$12,910.00
FAULT SENSE UNIT WITH NTS/NTP AND SNMP NETWORK MANAGEMENT CAPABILITY	-	DSTRAK910414	906	\$3,238.00
GPS REFERENCE MODULE W/DOXCO	-	DSTRAK910116	906	\$6,005.00

Field Replaceable Units

Description	Full Description	Nomenclature	APC	Price
LIGHTNING/SURGE SUPPRESSOR (N-N) FOR TRAK GPS	-	DSTRAK4702354	906	\$645.00
ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111	906	\$1,878.00
ANTENNA KIT FOR 9100 - 1 ANT, 100 FT OF CABLE/ WITH LIGHTNING PROT.	-	DSTRAKL70N	906	\$2,163.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111KIT	906	\$2,838.00

TRAK 8835 Models

Description	Full Description	Nomenclature	APC	Price
GPS CLOCK, 10MHZ, DOXCO, 48VDC INCL ANT,100' COAX W/DONGLE SNMPV3	-	DSTRAK88358M	906	\$9,383.00
GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 100' COAX W/DONGLE SNMPV3	-	DSTRAK88353M	906	\$14,788.00

Accessories

Description	Full Description	Nomenclature	APC	Price
AC POWER SUPPLY FOR 8835 GPS CLOCK	-	DSTRAK001134	906	\$240.00
ENHANCED FILTER ANTENNA (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111	906	\$1,878.00
MOUNTING SHELF FOR 8835 GPS CLOCK	-	DSTRAK4008245101	906	\$390.00
ENHANCED FILTER ANTENNA KIT (N CONN) FOR TRAK 9100 AND 8835	-	DSTRAK002111KIT	906	\$2,838.00

ASTRO Intrusion Detection System (IDS)

Step 1: Order the IDS Kit (Required)

Description	Full Description	Nomenclature	APC	Price
IDS INTRUSION DETECTION SYSTEM KIT	The IDS kit model includes the IDS Appliance Hardware (SRX1500), certified version of Junos OS software, and the SRX1500 software subscription license for IDS signature updates.	SQM01SUM0327	147	\$40,000.00

Step 2: Select the appropriate system release option (Required)

Description	Full Description	Nomenclature	APC	Price
ADD: IDS (A7.17.0)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.0.	CA03598AA	147	\$0.00
ADD: IDS (A7.17.3)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.17.3.	CA03598AB	147	\$0.00
ADD: IDS (A7.18)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A7.18.	CA03598AC	147	\$0.00
ADD: IDS (A2019.X)	This option contains the required system software for the UEM, UNC, and Domain Controller to support IDS on A2019.2.	CA03598AD	147	\$0.00

Step 3: Order the Internetworking Firewall (Optional)

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	-	T8586	877	\$3,300.00
FORTINET FIREWALL RECOVERY MEDIA	-	T8128	147	\$100.00

Step 4: Order Misc Items if needed (Optional)

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE RECOVERY MEDIA	This model contains certified version of Junos OS used with the IDS Appliance (SRX1500).	T8684	147	\$100.00

IDS Appliance Spare / FRU - If an "IDS Appliance" spare or FRU needs to be order, below is the part number to order.

Description	Full Description	Nomenclature	APC	Price
IDS APPLIANCE	This model only contains the hardware.	T8668	147	\$10,900.00

NICE Inform Recording (NIR) Logging Recorder

Models

Description	Full Description	Nomenclature	APC	Price
PARALLEL TELEPHONY RECORDERS BASE BUNDLE	-	TT3289	229	\$22,000.00
SINGLE TELEPHONY RECORDER BASE BUNDLE	-	TT3290	229	\$13,000.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00

Recording Interface Boards

Description	Full Description	Nomenclature	APC	Price
ANALOG DIGITAL TRUNK SHORT LENGTH PCI E INTERFACE BOARD NO CABLE	-	DDN2486	229	\$1,375.00
ANALOG DIGITAL TRUNK FULL LENGTH PCI E INTERFACE BOARD WITH NO CABLE	-	DDN2487	229	\$2,200.00

Contact Closure Boards

Description	Full Description	Nomenclature	APC	Price
ACTIVITY DETECTION BY EXTERNAL TRIGGER (SQUELCH) (24 INPUTS) (MAX 1)	-	DDN1691	229	\$2,150.00
ADDITIONAL 24 PORTS OF ACTIVITY DETECTION BY EXTERNAL TRIGGER	-	DDN1692	229	\$960.00

HP Servers and Chassis Options

Description	Full Description	Nomenclature	APC	Price
NICE APPLICATIONS SERVER	-	TT2694	229	\$13,936.00
1TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2109	229	\$627.00
6TB LFF DRIVE FOR NRX SERVER BUNDLE OR EXPAN	-	DDN2110	229	\$2,800.00
QUAD PORT ETHERNET GIGABIT (NICE PA	-	DDN2161	229	\$1,440.00

Cables and Patch Panels

Description	Full Description	Nomenclature	APC	Price
CONNECTION CABLE 6M FOR ANALOG DIGITAL CARDS	-	DDN2501	229	\$120.00
CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS	-	DDN2502	229	\$178.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90M	-	DDN2503	229	\$240.00
RIGHT ANGLE CONNECTION CABLE 10M FOR ANALOG DIGITAL CARDS 180M TO 90F	-	DDN2504	229	\$240.00
CONNECTION CABLE 15M FOR ANALOG DIGITAL CARDS	-	DDN2505	229	\$356.00
CONNECTION CABLE 20M FOR ANALOG DIGITAL CARDS	-	DDN2506	229	\$466.00

EXTERNAL 600 OHM TERMINATION KIT OF UP TO 10 PAIRS FOR RADIO	-	DDN2507	229	\$580.00
SPLIT SERIAL CABLE RS232 10 METER USED FOR CDR	-	DDN2508	229	\$356.00
MOXA NPORT 1 PORT DEVICE SVR 1 DB9M RS232 PORT 1 10 100 NETWORK PORT	-	DDN2509	229	\$620.00
Trunk Patch Panels & Cables				
Description	Full Description	Nomenclature	APC	Price
1U PATCH PANEL 8 E1(S) INPUT OUTPUT LOOPBACK	-	DDN2112	229	\$480.00
1U PATCH PANEL 8 PCM32 S INPUT OUTPUT OUTPUT FOR BT	-	DDN2510	229	\$876.00
1U PP 24A P TWO WIRE INPUT PLUS 10M CABLE TO TELCO CONN	-	DDN2511	229	\$548.00
PRI CABLE 3 X RJ45 TO TELCO 2.5M	-	DDN2220	229	\$274.00
PRI CABLE 3 X RJ45 TO TELCO 4.6M	-	DDN2219	229	\$328.00
RJ45 E1 LOOP BACK ADAPTER USED FOR EADS	-	DDN2512	229	\$138.00
1U PATCH PANEL 8 E1 S INPUT OUTPUT OUTPUT LOOPBACK	-	DDN2513	229	\$876.00
Media Pack Physical Delivery				
Description	Full Description	Nomenclature	APC	Price
MEDIA PACK PHYSICAL SOFTWARE DELIVERY PER INSTALLED SITE	-	DDN2517	229	\$330.00
Accessories				
Alarm Options, SQL/MySQL Server/Operating Systems, Miscellaneous Items				
Description	Full Description	Nomenclature	APC	Price
SNMP MANAGEMENT APPLICATION	-	DDN7532	229	\$2,400.00
RELAY BOARD FOR EXTERNAL ALARMING 12V	-	DDN2518	229	\$3,000.00
RELAY BOARD FOR EXTERNAL ALARMING 24V	-	DDN2519	229	\$3,000.00
MYSQL SERVER LICENSE STANDARD EDITION	-	DDN2523	229	\$440.00
MYSQL SERVER LICENSE ENTERPRISE EDITION	-	DDN2524	229	\$10,800.00
ELTIMA SERIAL SPLITTER SOFTWARE	-	DDN2527	229	\$110.00
MICROSOFT WINDOWS 2016	-	DDN2525	229	\$980.00
MICROSOFT WINDOWS 2008	-	DDN2526	229	\$800.00
WINDOWS SERVER 2012 STD OS	-	DDN2262	229	\$1,000.00
SPARES TO SUPPORT DL 380 G9	-	DDN2107	229	\$4,706.00
SPARES TO SUPPORT ML350 G9	-	DDN2116	229	\$3,392.00
NRX UPGRADE EXPANSION KIT FOR ML350	-	DDN2162	229	\$2,024.00
VOICE AND DATA LOGGING, 17 IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 1	-	DDN2092	229	\$7,924.00
17IN LCD DRAWER WITH KEYBOARD AND MOUSE, KVM 8 PORTS, CABLES	-	DDN2093	229	\$6,358.00

NICE Inform Release R9.0

Description	Full Description	Nomenclature	APC	Price
PARALLEL ASTRO RECORDERS BASE BUNDLE	-	TT3284	229	\$52,500.00
SINGLE ASTRO RECORDER BASE BUNDLE	-	TT3285	229	\$40,500.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE PRO	-	TT3286	229	\$139,730.00
SINGLE ASTRO 120 SIMUL CALL RECORDER BASE BUNDLE PRO	-	TT3287	229	\$109,600.00
PARALLEL ASTRO 120 SIMUL CALL RECORDERS BASE BUNDLE ELITE	-	TT3288	229	\$206,306.00
ADD: PROFESSIONAL RECORDING CHANNEL	-	TT06303AA	229	\$715.00
ADD: ELITE RECORDING CHANNEL	-	TT06304AA	229	\$1,650.00
ADD: IP LOGGING RECORDER FOR USE ON 7.14 SYSTEMS	-	TT05717AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.15 SYSTEMS	-	TT05718AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.16 SYSTEMS	-	TT05719AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.17 SYSTEMS	-	TT05720AA	229	\$0.00
ADD: IP LOGGING RECORDER FOR USE ON 7.18 SYSTEMS	-	TT06273AA	229	\$0.00
ADD: INFORM PRO RESILIENT CHANNEL PER CHANNEL	-	TT06308AA	229	\$220.00
ADD: INFORM PRO MODULE RESILIENCE PER CHANNEL	-	TT06309AA	229	\$55.00
ADD: INFORM PRO PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06310AA	229	\$220.00
ADD: INFORM PRO RESILIENT PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06311AA	229	\$110.00
ADD: INFORM ELITE PER ADD ON PER MATRIX CHANNEL PER RESOURCE	-	TT06316AA	229	\$550.00
ADD: ASTRO RECORDING CHANNEL	-	TT06305AA	229	\$220.00
ADD: SCREEN RECORDING CHANNEL	-	TT06306AA	229	\$550.00
ADD: INFORM PRO TEXT RECORDING CHANNEL LICENSE	-	TT06312AA	229	\$220.00
ADD: INFORM PRO EVIDENCE COMPLIANCE PACK ORGANIZER AND MEDIA PLAYER	-	TT06313AA	229	\$220.00
ADD: INFORM PRO QA PACK EVALUATOR AND REPORTER	-	TT06314AA	229	\$220.00
ADD: INFORM ELITE INCIDENT INTELLIGENCE DASHBOARDS	-	TT06318AA	229	\$330.00

NITRO

NITRO CBSDs

MODEL	DESCRIPTION	MSRP
AAE50048INB2ANSC	SLX 5000 OUTDOOR CBSD 3550-3700M 2W (Mandatory): Includes: CBSD w/ 64 active stream support, choice of including an integrated 17dBi antenna, copper ethernet or fiber backhaul, integrated GPS receiver, DC power connector, and requires -40 to -57 VDC power source. Price is dependent upon integrated antenna option.	
	SELECT WITH OR WITHOUT INTEGRATED ANTENNA (Must Select One):	
CA03731AASC	ADD SLX5000 WITHOUT INTEGRATED ANTENNA	\$9,872.31
CA03732AASC	ADD SLX5000 WITH INTEGRATED ANTENNA	\$10,938.46
	SELECT SLX5000 INSTALLATION EQUIPMENT (Mandatory):	
	Includes GPS Antenna, all necessary mounting brackets & hardware, connectors, DC and RF surge protectors, power supplies & converters.	
AAE50048INB2ANEQSC	ADD SLX5000 EQUIPMENT	\$2,512.38
	SELECT CONNECTOR ADAPTER MANDATORY (Must Select One):	
CA03684ABSC	ADD ADAPTOR, RJ45, SLX 5000. Used for copper connection	\$117.69
CA03685AASC	ADD ADAPTOR, SFP, SLX 5000. Used for Fiber connection	\$131.54
	SELECT DC POWER CABLE (Must Select One):	
	Power cables of varying length dependent upon site requirements.	
CB000981A01SC	ADD 10m DC POWER CABLE	\$526.15
CB000981A02SC	ADD 50m DC POWER CABLE	\$1,100.77
CB000981A03SC	ADD 75m DC POWER CABLE	\$1,239.23
	SELECT ANTENNA (Must Select One):	
	If CBSD Dual Carrier is enabled AND the CBSD does not have the Integrated Antenna Option, Qty 2 Antennas must be ordered.	
AN000368A01SC	ADD 9DBI OMNIDIRECTIONAL ANTENNA (Requires qty 1 PCS Micro Filter per Omni Antenna)	\$325.38
DSJS33006517001SC	ADD 16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$587.42
DSAW3170-14CSC	ADD ALPHA WIRELESS 3300-3800MHZ 2X2 33 DEG 20.5DBI FIZED DOWNTILT 4 DEGREE N-TYPE	\$818.31
	SELECT RF LIGHTENING ARRESTOR TYPE (Must Select One per Rx/Tx Path):	
	RF Lightening Arrestor, Qty 1 for each Rx/Tx path. The Arrestor comes in female/female or male/female configurations. Male/Female connects directly to the Antenna	
DSLPGTVNFFSC	ADD DC-7000 MHz N FEM BI-DIRECTION, 150W MAX SURGE CURRENT: 10KA MULTIPLE	\$74.77
DSLPGTVNFMSC	ADD DC-7000 MHz N Male & N Female Bi-Directional	\$72.00
DSLXLMEC	ADD PCS MICRO FILTER PROTECTOR (for Omni Antennas only)	\$123.23
	SELECT ANTENNA CONNECTOR (Must Select Qty 1 per Antenna):	
DSL2TNMPLSC	ADD 3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$30.12

SELECT REMOTE MOUNT FOR GPS ANTENNA:		
	Used if remote mounting of the GPS Antenna is desired instead of direct mounting (default) on the CBSD.	
DSGPSTGLMNTSC	ADD L MNT FOR GPS TIMING	\$33.23
DSGPS06NFFSC	ADD BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W,	\$148.15
SELECT SOFTWARE USER AGREEMENT (Must Select One):		
SLX5000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.		
MSV03S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$1,495.38
MSV03S02019SC12	ADD 1 YEAR DUAL CARRIER	\$2,492.31
MSV03S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$2,990.77
MSV03S02019SC22	ADD 2 YEAR DUAL CARRIER	\$4,984.62
MSV03S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$7,476.92
MSV03S02019SC52	ADD 5 YEAR DUAL CARRIER	\$12,461.54
MODEL	DESCRIPTION	MSRP
AAE40048ENB2ANSC	SLX 4000 INDOOR/OUTDOOR CBSD 3550-3700M 316mW (Mandatory): Includes: CBSD w/ 64 active stream support, copper ethernet backhaul, DC power connector, integrated GPS Receiver, and requires -40 to -57 VDC power source.	\$9,346.15
SELECT SLX4000 INSTALLATION EQUIPMENT (Mandatory):		
Includes GPS Antenna, all necessary mounting brackets & hardware, connectors, AC and RF surge protectors, power supplies & converters.		
AAE50048NB2ANEQSC	ADD SLX4000 EQUIPMENT	\$2,519.31
SELECT CONNECTOR ADAPTER (Mandatory):		
CA03684ABSC	ADD ADAPTOR, RJ45, SLX 4000. Used for copper connection	\$117.69
SELECT DC POWER CABLE (Must Select One):		
Power cables of varying length dependent upon site requirements.		
CB000981A01SC	ADD 10m DC POWER CABLE	\$526.15
CB000981A02SC	ADD 50m DC POWER CABLE	\$1,100.77
CB000981A03SC	ADD 75m DC POWER CABLE	\$1,239.23
DSEDSG2051GTXSFPSC	SELECT FIBER ADAPTER KIT (Optional)	\$1,536.92
Used when the SLX4000 requires a connection to Fiber backhaul. This kit includes a fiber to ethernet conversion switch (SFP not included), switching power supply, and weather proof enclosure with mounting rails. Needs to be wired for power. (Recommended to have a MOXA SFP at both ends ordered separately)		
SELECT ANTENNA (Must Select One):		
If CBSD Dual Carrier enabled, Qty 2 Antennas must be ordered.		
AN000368A01SC	ADD 9DBI OMNIDIRECTIONAL ANTENNA (Requires qty 1 PCS Micro Filter per Omni Antenna)	\$325.38
DSLXLMESEC	ADD PCS MICRO FILTER PROTECTOR (for Omni Antennas only)	\$123.23
DSJS33006517001SC	ADD 16DBI, 2X2 MIMO SECTOR ANTENNA, 3.3-3.8GHZ, VSWR 1.5:1	\$587.42
DSAW3170-74CSC	ADD ALPHA WIRELESS 3300-3800MHZ 2X2 33 DEG 20.5DBI FIZED DOWNTILT 4 DEGREE N-TYPE	\$818.31
SELECT ANTENNA CONNECTOR (Must Select Qty 1 per Antenna)		
DSL2TNMPLSC	ADD 3/8" TYPE N MALE POSITIVE LOCK CONNECTOR LDF2-50 CABLE	\$30.12
SELECT REMOTE MOUNT FOR GPS ANTENNA:		
	Used if remote mounting of the GPS Antenna is desired instead of direct mounting (default) on the CBSD.	
DSGPSTGLMNTSC	ADD L MNT FOR GPS TIMING	\$33.23
DSGPS06NFFSC	ADD BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W,	\$148.15
SELECT SOFTWARE USER AGREEMENT (Must Select One):		
SLX4000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.		
MSV02S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$1,329.23
MSV02S02019SC12	ADD 1 YEAR DUAL CARRIER	\$2,326.15
MSV02S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$2,658.46
MSV02S02019SC22	ADD 2 YEAR DUAL CARRIER	\$4,652.31
MSV02S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$6,646.15
MSV02S02019SC52	ADD 5 YEAR DUAL CARRIER	\$11,630.77
MODEL	DESCRIPTION	MSRP
AAE20048ENA1ANSC	SLX 2000 INDOOR CBSD 3550-3700M 250mW (Mandatory): Includes: CBSD w/ 64 active stream support, integrated 8dbi antenna, copper ethernet or fiber backhaul, DC power connector, POE++ or 12V DC input, integrated GPS antenna.	\$6,161.54
SELECT SLX2000 POWER OPTION (Must Select One):		
Choose 12V DC or POE++ power		
PMLN773ASC	ADD SLX2000 POWER ADAPTER KIT FOR INDOOR APPLICATIONS WITH POWER CORD	\$307.38
DSPOE171A60SC	ADD POE-171A-60 SINGLE-PORT 10/100/1000MBPS 802.3BT POE INJECTOR (60W)	286.62
SELECT NETWORK EXTENDERS (Optional):		
Depending upon power option, choose ethernet or ethernet/POE extenders if cable runs exceed 100m. Qty 1 extender is needed for each 100m of cable length.		
DSVERVORORLSC	ADD VERACITY OUTREACH LITE ETHERNET EXTENDER	\$408.46
DSVERVORORMSC	ADD VERACITY OUTREACH MAX ETHERNET AND POE EXTENDER	\$447.23
SELECT FIBER KIT (Optional)		
Select this kit when the SLX2000 requires a connection to Fiber backhaul. Contains Optics SFP and SFP MM		
DSEXSP1GELXSC	ADD JUNIPER 1000BASE-LX GBE OPTICS SFP, 10 KM TRANS ON SMF	\$1,190.77
SELECT CEILING MOUNT KIT (Optional):		
Contains all necessary hardware to mount the CBSD from a suspended ceiling.		
BR000448A01SC	ADD SLX2000 SUSPENDEED CEILING MOUNT KIT	\$249.23
SELECT TIMING SOURCE (Must Select One):		
Network timing can be achieved via GPS or via a Grandmaster PTP. Typical deployments use PTP since up to 256 CBSDs can be serviced via a single Grandmaster. The PTP includes a AC/DC converter, power cable, and rack shelf. If GPS use is desired, Qty 1 GPS Antenna is required per CBSD.		
EQ000235A01SC	ADD uFALCON MXG PTP BNDL w/ Shelf HW + ACDC PSU, 5YR HW/SW	\$8,148.46
PMAN4010ASC	ADD ANTENNA GPS/GLONASS MAG MOUNT	\$95.54
SELECT SOFTWARE USER AGREEMENT (Must Select One):		
SLX2000 Software User Agreements are dependent upon contract term and if the CBSD has been enabled with Single or Dual Carrier.		
MSV01S02019SC11	ADD 1 YEAR SINGLE CARRIER	\$591.54
MSV01S02019SC12	ADD 1 YEAR DUAL CARRIER	\$1,578.46
MSV01S02019SC21	ADD 2 YEAR SINGLE CARRIER	\$1,163.08
MSV01S02019SC22	ADD 2 YEAR DUAL CARRIER	\$3,156.92
MSV01S02019SC51	ADD 5 YEAR SINGLE CARRIER	\$2,907.69
MSV01S02019SC52	ADD 5 YEAR DUAL CARRIER	\$7,892.31

NITRO NETWORKING EQUIPMENT		
NITRO FIREWALL ROUTERS		
MODEL	DESCRIPTION	MSRP
SELECT FIREWALL	Note: Mandatory Qty 2 of any Firewall/Router model is required	
T8577ASC	JUNIPER SRX 345 FIREWALL Includes 5yr SW and 1 year HW support. Typically used in small deployments where max aggregate throughput requirements are 0.6 Gbps or less	\$2,229.23
T8789ASC	JUNIPER SRX 1500 FIREWALL W/ RED PS & JUNOS SW Includes 5 years of SW and 1 year of HW support. Typically used in low/medium sized deployments where max aggregate throughput requirements are greater than 0.6 Gbps but don't exceed 2.9 Gbps This firewall router is also typically used in deployments utilizing a layer 3 architecture.	\$17,792.31
DSIGSRX4100SYSJBACSC	JUNIPER SRX 4100 FIREWALL w/ JUNOS SW (SRX4200-JSB) Includes 5 years of SW and HW support. Typically used in medium/large deployments where max aggregate throughput requirements are at greater than 2.9 Gbps but don't exceed 8 Gbps	\$80,239.85
DSIGSRX4200SYSJBACSC	JUNIPER SRX 4200 FIREWALL w/ JUNOS SW (SRX4200-JSB) Includes 5 years of SW and HW support. Typically used in larger deployments where max aggregate throughput requirements exceed 8 Gbps to a max of 15Gbps	\$141,183.69
NITRO ON-PREM EDGE GATEWAY		
MODEL	DESCRIPTION	MSRP
SQM01SUM0319ASC	NITRO ONPREM EDGE GATEWAY Standard Capacity Gateway. Includes: Nitro On-Prem Edge Gateway hardware, NA AC power cord, and software. If redundancy or expansion is required, order quantity two (2). Includes 5 year HW & SW warranty.	\$8,792.31
SQM01SUM0332A	HIGH CAPACITY NITRO ONPREM EDGE GATEWAY High Capacity Gateway. Typically used in medium to large deployments where higher throughput is required. Includes: Nitro On-Prem Edge Gateway hardware, NA AC power cord, and software. If redundancy or expansion is required, order quantity two (2). Includes 5 year HW & SW warranty.	\$33,923.08
	SELECT SOFTWARE USER AGREEMENT (Must Select One): Each Nitro OnPrem Edge Gateways requires an additional Software User Agreement to connect to the Nitro Cloud Core. Important: Duration of the SUA must be the same length as the duration of the CBSD SUA.	
MSV04S02019ASC1	ADD 1 year	\$664.62
MSV04S02019ASC2	ADD 2 year	\$1,329.23
MSV04S02019ASC5	ADD 5 year	\$3,323.08
NITRO PTP TIMING SOURCE		
MODEL	DESCRIPTION	MSRP
EQ000235A01SC	uFalcon MXG PTP BNDL w/ Shelf HW + ACDC PSU, 5YR HW/SW Bundle with PTP, AC/DC Power Supply, Rack Shelf SELECT GPS ANTENNA (Must Select One): Includes remote GPS mounting equipment	\$8,148.46
DSGNSS1TMG26NSC	ADD GLOBAL GNSS TIMING ANTENNA, 26DB, GPS, GLONASS, GALILEO AND BEIDOU	\$527.53
DSGNSS1TMG40NSC	ADD GLOBAL GNSS TIMING ANTENNA, 40DB, GPS, GLONASS, GALILEO AND BEIDOU	\$556.61
	SELECT PTP OPTIONAL EQUIPMENT	
DSFPA40SC	ADD AC (100-240V) TO DC (48V) POWER ADAPTER, 40W Spare power supply	\$373.85
	SELECT EQUIPMENT CABLE RUN LENGTH 100m	
DSC240NFSM1MSC	ADD CA:CNT240 BRAIDED CABLE ASSEMBLY 1M	\$61.62
DSEC150HFSC	ADD Coaxial Cable, 1/4" Hiflex, 50 ohm with black PE jacket	\$2.52
DSNF50B14XSC	ADD Connector, N female interface for EC1-50-HF	\$35.65
DSNM50B14XSC	ADD Connector, N male interface for EC1-50-HF	\$35.65
	SELECT EQUIPMENT CABLE RUN LENGTH 200m	
DSC240NFSM1MSC	ADD CA:CNT240 BRAIDED CABLE ASSEMBLY 1M	\$61.62
DSEC450HFSC	ADD Coaxial Cable, 1/2" Hiflex, 50 ohm with black PE jacket	\$3.32
DSNF50B12XSC	ADD Connector, N female interface for EC4-50-HF	\$40.50
DSNM50B12XSC	ADD Connector, N male interface for EC4-50-HF	\$40.50
DSNM50BL12XSC	ADD Connector, N male right angle interface for EC4-50-HF	\$65.10
	SELECT OTHER CABLE OPTIONS	
DSCNT240500SC	ADD .240" BRAIDED STD CBL 500 FT	\$582.92
DSCNT400500SC	ADD MINIMUM 500 FEET, CNT-400 BRAIDED COAXIAL CABLE 500 FT (ON REEL)	\$789.23
DS240BPNMCCRSC	ADD 240BPNM-C-CR CONNECTOR,CNT-240 N STRAIGHT MALE	\$11.84
DS240APNFCRSC	ADD CONNECTOR: CNT-240 N STRAIGHT FEMALE	\$14.61
NITRO SWITCHES		
MODEL	DESCRIPTION	MSRP
EQ000238A01SC	EX3400-24P SWITCH BNDL W/ RED 600W PSU, 2 US PWRCRDS Includes 1 EX3400-24P switch with NA power cord and redundant 600W PSU with power cord. Includes Juniper Enhanced Limited Lifetime Warranty. Base 24-port Switch for connecting up to 14 CBSD's via standard ethernet. If an OnPrem Edge Gateway is connected, up to 12 CBSD's can be connected via standard ethernet. In addition, 2 CBSD's can be connected via fiber SFP (sold separately). Note Copper connections must be within 100m else ethernet extenders and POE extenders (if POE is used within the deployment) must be incorporated.	\$2,956.15
	SELECT OPTIONAL ACCESSORIES	
DSJPSU600ACAFOSC	ADD Juniper EX3400 600W AC Power Supply, front-to-back airflow Expansion PSU allows for PSU redundancy. Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$542.77
DSCBLEXPWRC13USC	ADD Juniper AC power cable, U.S. for EX3400-24P Switch	\$29.08
DSEXSFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF One SFP is needed for the CBSD and another one is needed for the switch.	\$793.38
DSEXSFP1GESXR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF One SFP is needed for the CBSD and another one is needed for the switch.	\$397.38
DSEX430032FSC	Juniper EX4300 32-port 100/1000BASE-X FIBER SWITCH	\$6,583.85

	Includes base 32-port Fiber Switch for connecting up to 12 CBSDs via SFP (fiber or copper). Additionally, 12 switches can be connected via SFP (fiber): up to 10 EX3400 and up to 2 EX4300. Includes Juniper Enhanced Limited Lifetime Warranty. Hub Switch for greater than 4 sites or outdoor CBSDs (all fiber). Power cord must be ordered separately; see DSCBLEXPWRC13US below.	
DSCBLEXPWRC13USSC	ADD Juniper AC power cable, U.S. for EX3400-24P Switch	\$29.08
DSJPSU600ACAFOSC	SELECT OPTIONAL ACCESSORIES ADD Juniper EX3400 600W AC Power Supply, front-to-back airflow Expansion PSU allows for PSU redundancy. Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$408.46
DSEXSFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF One SFP is needed for the CBSD and another one is needed for the switch.	\$793.38
DSEXSFP1GESXR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF One SFP is needed for the CBSD and another one is needed for the switch.	\$397.38
DSEXSFP1GETR20SC	ADD Juniper Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module	\$299.08
EQ000239A01SC	Juniper EX4300-48MP SWITCH BNDL W/ RED 1400W PSU, 2 US PWRCRDS, 24XPERP 1G 24X100M1G/2 5G/5G/10G COPPER	\$9,069.23
	Includes 1 EX4300-48MP switch with NA power cord and redundant 1400W PSU with power cord. Includes Juniper Enhanced Limited Lifetime Warranty. Base 48-port Switch, POE++ Capable. Note Copper connections must be within 100m of ethernet extenders and POE extenders (if POE is used within the deployment) must be incorporated.	

SELECT OPTIONAL ACCESSORIES

MODEL	DESCRIPTION	MSRP
DSJPSU1400ACAFOSC	ADD Juniper EX4300-MP 1400W AC Power Supply Expansion PSU allows for redundant PSU capability. Power cord must be ordered separately; see DSCBLEXPWRC13US below.	\$830.77
DSCBLEXPWRC15MHTUSSC	ADD Juniper AC power cable, U.S. for EX4300-48MP Switch	\$74.77
DSEXUM4SFPMRSC	ADD Juniper EX4300MP 4-port 1GbE/10GbE SFP+ Uplink Module - required for Fiber connections	\$1,102.15
DSEXSFP1GELXSC	ADD Juniper 1000Base-LX GbE Optics SFP, 10 km transmission on SMF Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics SFP 1000BASE-LX Gigabit Ethernet Optics, 1310 nm for 10 km transmission on SMF. One SFP is needed for the CBSD and another one is needed for the switch.	\$793.38
DSEXSFP1GESXR20SC	ADD Juniper 1000Base-SX GbE Optics SFP, 550m transmission on MMF Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics SFP 1000BASE-SX Gigabit Ethernet Optics, 850 nm for up to 550m transmission on MMF. One SFP is needed for the CBSD and another one is needed for the switch.	\$397.38

SFP GUIDE

CABLE AND CONNECTOR OPTIONS

MODEL	DESCRIPTION	MSRP
DSIGEXSFP10GEDAC1MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 1M	\$116.31
DSIGEXSFP10GEDAC3MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 3M	\$162.00
DSIGEXSFP10GEDAC5MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 5M	\$200.77
DSIGEXSFP10GEDAC7MSC	ADD SFP+ 10 GB ETHERNET DIRECT ATTACH COPPER CABLE - 7M	\$231.23
DSEXSFP1GETR20SC	ADD Juniper Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module	\$299.08
DSIGEXSFP10GESRSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) SR OPTICS	\$1,156.15
DSIGEXSFP10GELRMSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) LRM OPTICS	\$1,348.62
DSIGEXSFP10GEURSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ULTRA SHORT REACH	\$578.77
DSIGEXSFP10GEZSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ZR OPTICS	\$10,782.00
DSIGEXSFP10GEERSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) ER OPTICS	\$7,701.23
DSIGEXSFP10GELRSC	ADD SMALL FORM FACTOR PLUGGABLE 10GB ETHERNET (SFP+) LR OPTICS	\$3,080.77
DSQFXSFPDACA1MSC	ADD QSFP+ TO QSFP+ ETH CABLE 1M DIRECT ATTACH COPPER	\$231.23
DSLGC220ASC	ADD MEDIA CONVERTER 10GBPS ETHERNET	\$1,009.38

FIBER OPTIC CABLING OPTIONS

MODEL	DESCRIPTION	MSRP
DS943980541075SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 7.5M	\$113.54
DS9439805410015SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 15M	\$154.04
DS9439805410030SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 30M	\$235.38
DS9439805410050SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 50M	\$343.73
DS9439805410075SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 75M	\$479.08
DS9439805410100SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 100M	\$614.77
DS9439805410150SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 150M	\$886.15
DS9439805410200SC	ADD JUMPER, LC/PC(D), 62.5/125 INDOOR/OUTDOOR, 200M	\$1,156.15
DS942984731075SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 7.5M	\$357.92
DS9429847310015SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 15M	\$382.85
DS9429847310030SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 30M	\$436.15
DS9429847310050SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 50M	\$499.85
DS9429847310075SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 75M	\$582.92
DS9429847310100SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 100M	\$666.35
DS9429847310150SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 150M	\$833.54
DS9429847310200SC	ADD JUMPER, IP-FX - LC/UPC(D) G.657 OFNR/LSZH, I/O, 200M	\$1,000.04

NITRO USER EQUIPMENT

NITRO SIMS

MODEL	DESCRIPTION	MSRP
HK2116ASC	Nitro SIM Card (10-Pack) - Includes Qty 10 of the Singleton Triple-SIM (2FF, 3FF, 4FF)	\$138.46

NITRO USER EQUIPMENT

A variety of user equipment is available to meet network connectivity requirements.

MODEL	DESCRIPTION	MSRP
DS1104331SC	SIERRA WIRELESS RV55 WiFi LTE PRO CAT 12: Education - This device can only be used for NITRO Education Deployments - Includes 1 Yr ALMS Remote Management Support and HW warranty - AC Power Adapter, Cellular Paddle Antennas, and WiFi Paddle Antennas must be ordered with this unit.	\$553.85
DS6001111ESC	ADD Paddle Antenna WiFi only: Education Qty 2 Required per RV55 PRO CAT 12 unit	\$12.12
DS6001111OESC	ADD Paddle Antenna Cellular only: Education Qty 2 Required per RV55 PRO CAT 12 unit	\$12.12
DS200579ESC	ADD AC Power Adapter: Education	\$20.77
DOSIERRA9010279SC	ADD 1 Yr Extension option ALC (includes ALMS, Support and HW warranty up to 5 yrs Optional Service Support to extend ALMS Remote Management Support and HW Warranty. Order Qty is tied to desired number of years for extended support.	\$69.23
DS1104331SC	SIERRA WIRELESS RV55 WiFi LTE PRO CAT 12: Enterprise - This device can only be used for NITRO Deployments outside of Education - Includes 1 Yr ALMS Remote Management Support and HW warranty - AC Power Adapter, Cellular Paddle Antennas, and WiFi Paddle Antennas must be ordered with this unit.	\$851.54
DS6001111ESC	ADD Paddle Antenna WiFi only: Enterprise Qty 2 Required per RV55 PRO CAT 12 unit	\$14.54
DS6001111OESC	ADD Paddle Antenna Cellular only: Enterprise Qty 2 Required per RV55 PRO CAT 12 unit	\$14.54
DS200579ESC	ADD AC Power Adapter: Enterprise	\$24.92
DOSIERRA9010279SC	ADD 1 Yr Extension option ALC (includes ALMS, Support and HW warranty up to 5 yrs Optional Service Support to extend ALMS Remote Management Support and HW Warranty. Order Qty is tied to desired number of years for extended support.	\$69.23

DSTX010500C7CNESC	CRADLEPOINT R500 W/1 YEAR NETCLOUD REMOTE MANAGEMENT: EDUCATION - This device can only be used for NITRO Education Deployments - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$623.08
DSTX030500C7CNESC	CRADLEPOINT R500 W/3 YEAR NETCLOUD REMOTE MANAGEMENT: EDUCATION - This device can only be used for NITRO Education Deployments - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$760.15
DSTX030500C7CNSSC	CRADLEPOINT R500 W/3 YEAR NETCLOUD REMOTE MANAGEMENT: ENTERPRISE - This device can be used for NITRO Deployments outside of Education - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$821.08
DSTX050500C7CNSSC	CRADLEPOINT R500 W/5 YEAR NETCLOUD REMOTE MANAGEMENT: ENTERPRISE - This device can be used for NITRO Deployments outside of Education - Includes device, NetCloud Essentials Subscription, 4 antennas (2 CBRS, 2 wifi), 1 power supply, full warranty	\$1,024.62
EQ000246A01SC	MULTITECH LTE CBRS CELL-ETH BRIDGE INT V2, US ACCESSORY KIT INCLUDED - Includes power supply and all antennas - Can be used for all deployment types - Unit does not have Wifi capability, CBRS/Ethernet Bridge only. - Can be paired with the TP-Link Archer A5 Wireless Router to add Wifi	\$546.92
DSARCHERA5SC	TP-LINK ARCHER A5 WIRELESS ROUTER W	\$67.87

NITRO DATA PLANS

MODEL	DESCRIPTION	MSRP
SWV03S0223AUM10SC	1 YR MSI Device Unlimited Data 0-100 Devices	\$182.77
SWV03S0223AUJ310SC	1 YR 3rd Party Unlimited Data 0-100 Devices	\$199.38
SWV03S0223AUM11SC	1 YR MSI Device Unlimited Data 101-500 Devices	\$149.54
SWV03S0223AUJ311SC	1 YR 3rd Party Unlimited Data 101-500 Devices	\$166.15
SWV03S0223AUMH2SC	1 YR MSI Device Unlimited Data 501+ Devices	\$121.79
SWV03S0223AUJ312SC	1 YR 3rd Party Unlimited Data 501+ Devices	\$138.41
SWV03S0223AUM20SC	2 YR MSI Device Unlimited Data 0-100 Devices	\$365.54
SWV03S0223AUJ320SC	2 YR 3rd Party Unlimited Data 0-100 Devices	\$398.77
SWV03S0223AUM21SC	2 YR MSI Device Unlimited Data 101-500 Devices	\$299.08
SWV03S0223AUJ321SC	2 YR 3rd Party Unlimited Data 101-500 Devices	\$332.31
SWV03S0223AMU22SC	2 YR MSI Device Unlimited Data 501+ Devices	\$243.58
SWV03S0223AUJ322SC	2 YR 3rd Party Unlimited Data 501+ Devices	\$276.81
SWV03S0223AUM50SC	5 YR MSI Device Unlimited Data 0-100 Devices	\$913.85
SWV03S0223AUJ350SC	5 YR 3rd Party Unlimited Data 0-100 Devices	\$996.92
SWV03S0223AUM51SC	5 YR MSI Device Unlimited Data 101-500 Devices	\$747.69
SWV03S0223AUJ351SC	5 YR 3rd Party Unlimited Data 101-500 Devices	\$830.77
SWV03S0223AUM52SC	5 YR MSI Device Unlimited Data 501+ Devices	\$608.95
SWV03S0223AUJ352SC	5 YR 3rd Party Unlimited Data 501+ Devices	\$692.03
SWV03S0223ABM10SC	1 YR MSI Device Basic Data 0-100 Devices	\$182.77
SWV03S0223AB310SC	1 YR 3rd Party Basic Data 0-100 Devices	\$199.38
SWV03S0223ABM11SC	1 YR MSI Device Basic Data 101-500 Devices	\$149.54
SWV03S0223AB311SC	1 YR 3rd Party Basic Data 101-500 Devices	\$166.15
SWV03S0223ABM12SC	1 YR MSI Device Basic Data 501+ Devices	\$121.79
SWV03S0223AB312SC	1 YR 3rd Party Basic Data 501+ Devices	\$138.41
SWV03S0223ABM20SC	2 YR MSI Device Basic Data 0-100 Devices	\$365.54
SWV03S0223AB320SC	2 YR 3rd Party Basic Data 0-100 Devices	\$398.77
SWV03S0223ABM21SC	2 YR MSI Device Basic Data 101-500 Devices	\$299.08
SWV03S0223AB321SC	2 YR 3rd Party Basic Data 101-500 Devices	\$332.31
SWV03S0223ABM22SC	2 YR MSI Device Basic Data 501+ Devices	\$243.58
SWV03S0223AB322SC	2 YR 3rd Party Basic Data 501+ Devices	\$276.81
SWV03S0223ABM50SC	5 YR MSI Device Basic Data 0-100 Devices	\$913.85
SWV03S0223AB350SC	5 YR 3rd Party Basic Data 0-100 Devices	\$996.92
SWV03S0223ABM51SC	5 YR MSI Device Basic Data 101-500 Devices	\$747.69
SWV03S0223AB351SC	5 YR 3rd Party Basic Data 101-500 Devices	\$830.77
SWV03S0223ABM52SC	5 YR MSI Device Unlimited Basic 501+ Devices	\$608.95
SWV03S0223AB352SC	5 YR 3rd Party Basic Data 501+ Devices	\$692.03

NITRO MSI DEVICES

MODEL	DESCRIPTION	MSRP
HK2136ASC	EVOLVE SMART HANDHELD WITH STANDARD BATTERY	\$1,383.00
HK2156ASC	EVOLVE SMART HANDHELD WITH HIGH CAPACITY BATTERY	\$1,494.00
QA07787AAC	ADD NITRO SIM CARD * SIM CARD OPTION ONLY REQUIRED FOR OPERATION ON NITRO CBRS NETWORKS	\$0.00
	Must Select One: EVOLVE portables require purchase of either Standard Essential 3-Year Software and Repair option covering parts and labor warranty or Essential with Accidental Damage to add coverage for accidental breakage and liquid damage.	
STDESS0845AASC	ADD 3 Year Essential Service	\$58.33
QA08142AASC	ADD ENH: 3Y ESSENTIAL W ACCIDENT DAMAGE	\$88.33
	Wave PTT Service EVOLVE supports Wave PTT services. Basic PTT is provided by the Collaboration package. If advanced features such as Emergency call or support of large talk groups (i.e. greater than 250) are desired, select the Safeguard package.	
WV001SC	ADD Collaboration	\$11.08
WV002SC	ADD Safeguard	\$27.69
	EVOLVE OPTIONAL ACCESSORIES	
BT000592A01SC	BATT LIION 2900T	\$110.77
BT000593A01SC	BATT LIION TIA4950 5800T	\$221.54
PS000150A11SC	WALL CUBE,AC,DC,POWER SUPPLY WALL CUBE,AC,DC,7.5W,100V-240V,MICROUSB,US/JP	\$34.62
HKLN5001ASC	COVER-DOOR,COVER-DOOR BATTERY STD 2900 MAH	\$33.23
HKLN5002ASC	COVER-DOOR,COVER-DOOR BATTERY HIGH CAP 5800 MAH	\$33.23
PMLN8254ASC	CARRY ACCESSORY-PLASTIC CARRY HOLSTER WITH 3" BELT CLIP	\$49.85
PMMN4125BSC	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE	\$168.92
PMMN4127ASC	AUDIO ACCESSORY-OPERATIONAL CRITICAL WIRELESS REMOTE SPEAKER MIC WM500	\$267.23
PMLN8123ASC	EP910W OPERATIONAL CRITICAL WIRELESS EARPIECE PTT	\$103.85
PMLN8191ASC	AUDIO ACCESSORY-EARPIECE,1-WIRE ENH CLEAR TUBE EARPIECE, 2.5MM SINGLE PIN, ANGLED	\$69.23
PMPN4169ASC	CHGR VEHICULAR ADAPTER VPA	\$90.00
PMLN7965BSC	3" BELT CLIP	\$16.62
NTN8266BSC	BELT CLIP KIT (2.5")	\$16.62
PMLN8092ASC	ACCESSORY KIT,ACOUSTIC TUBE WITH RUBBER EARBUD, REPLACEMENT KIT	\$16.62

SLN 1000 Portable - 3.5 GHz Band OnGo

MODEL	DESCRIPTION	MSRP
HK2120ASC	SLN 1000 TWO-WAY RADIO	\$807.00
QA07787AACSC	ADD NITRO SIM CARD * SIM CARD OPTION ONLY REQUIRED FOR OPERATION ON NITRO CBRS NETWORKS	\$0.00

Must Select One		
	SLN 1000 provide 3 year Essential Service covering parts and labor warranty at no charge. Additional Accidental Damage to add coverage for accidental breakage and liquid damage is a required option.	
STDESS0845AASC	3 Year Essential Service	\$0.00
QA08142AASC	ADD ENH: 3Y ESSENTIAL W ACCIDENT DAMAGE	\$145.38
	Wave PTT Service	
	SLN 1000 supports Wave PTT services. Basic PTT is provided by the Collaboration package. If advanced features such as Emergency call or support of large talk groups (i.e. greater than 250) are desired, select the Safeguard package.	
WV001SC	ADD Collaboration	\$11.08
WV002SC	ADD Safeguard	\$27.69
	SLN1000 OPTIONAL ACCESSORIES	
HKAN4004ASC	Stubby LTE Antenna	\$35.58
PMNN4578ASC	Li-Ion 2500T Battery	\$91.38
PMLN7932ASC	Swivel Carry Holster	\$17.31
PMLN7128ASC	Belt Clip (Heavy-Duty)	\$15.92
PMLN6074ASC	Nylon Wrist Strap	\$12.46
PS000150A11SC	Level 6 Micro USB Wall Charger	\$34.62
PMLN7101ASC	MUC Charger US/NA	\$311.54
PMLN7109ASC	SUC Charger US/NA	\$62.31
PMLN7189ASC	Swivel Earpiece, In-Line Mic & PTT	\$40.15
PMLN7156ASC	Earbud with In-Line Mic/PTT, Mag One	\$27.69
PMLN7157ASC	2-Wire with Translucent Tube, Black	\$59.54
PMLN7158ASC	One-Wire Surveillance Earpiece, In-Line Mic & PTT	\$55.38
PMLN7159ASC	Adjustable D-Style Earpiece, In-Line Mic & PTT	\$59.54
HKLN4678ASC	Battery Door	\$48.46
5080384F72SC	Replacement Foam Plug-Ins	\$161.31
RLN6242ASC	Quick Disconnect Acoustic Tube	\$10.94
RLN6282SC	Replacement Ear Tips, Pack of 50	\$62.65

NS-1

Main Model	Description	Nomenclature	Price
	NS-1	FDKT00460	\$35,000

PUBLIC SAFETY LTE OPERATIONS SUPPORT PLATFORM 'OSP'

Configuration

SINGLE NODE ENM:

For a new system purchase, order the following items:

HARDWARE:

Description	Full Description	Nomenclature	APC	Price
ENM HW	-	DDN2551	53	\$447,240.00

GENERAL SW:

General SW, consisting of Cloud and Backup server SW and licenses. Order Quantity 1 per ENM system for each of the below.

Description	Full Description	Nomenclature	APC	Price
CLOUD SW AND LICENSES	-	DDN2552	53	\$68,960.00
BACKUP SERVER SW AND LICENCES	-	DDN2553	53	\$47,060.00

FEATURES:

EPC support for ENM. This is priced per kilo IP (kIP or 1000 IP) sessions. Order Quantity 1.75 X # of kIP sessions.

Description	Full Description	Nomenclature	APC	Price
EPC SUPPORT	-	DDN2554	53	\$480.00

IMS support for ENM. This is priced per kilo Active (kActive or 1000 Active) users. Order Quantity 0.75 x # of kActive users.

Description	Full Description	Nomenclature	APC	Price
IMS SUPPORT	-	DDN2555	53	\$850.00

RAN support per ENM. This is priced per sector. Order Quantity # of sectors per eNB X # of eNB to account for the total # of sectors.

Description	Full Description	Nomenclature	APC	Price
ACC NTWK SUP COMB LTE BP ADV MO SCR	-	DDN2560	53	\$990.00

FRONTAUL network support per ENM. Order Quantity 1 per Fronthaul mode.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT FRONTHAUL	-	DDN2561	53	\$530.00

MICROWAVE network support per ENM. Order Quantity 1 per Microwave mode.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT MICROWAVE	-	DDN2562	53	\$100.00

ROUTER 6000 network support per ENM. Order Quantity 1 per Router 6000 mode.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT ROUTER 60	-	DDN2563	53	\$90.00

BASEBAND T network support per ENM. Order Quantity 1 per Baseband T mode.

Description	Full Description	Nomenclature	APC	Price
TRANSPORT NETWORK SUPPORT BASEBANDT	-	DDN2565	53	\$90.00

SOUTHBOUND network support (example eMBMS) per ENM. Order Quantity 1 per integrated node.

Description	Full Description	Nomenclature	APC	Price
SOUTH BOUND INTERFACE - NEW NODE	-	DDN2566	53	\$2,660.00

PDR8000

Model

Description	Full Description	Nomenclature	APC	Price
PDR 8000 - VHF	-	TT3148	482	\$14,850.00
PDR 8000 - UHF 380-430	-	TT3149	482	\$14,850.00
PDR 8000 - UHF 450-470	-	TT3150	482	\$14,850.00
PDR 8000 - UHF 470-512	-	TT3151	482	\$13,500.00
PDR 8000 - 700	-	TT3152	482	\$14,850.00

Options

Operation

Description	Full Description	Nomenclature	APC	Price
PDR8000 V.24 WIRELINE OPERATION	-	TT06253AA	482	\$5,750.00
ADD: DFSI CAPABILITY	-	TT06582AA	482	\$5,750.00
PDR8000 DEPLOYMENT PROFILES CAPABILITY	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	TT06319AA	482	\$700.00

Duplexer

(One of these options, including "No Duplexer", must be chosen)

Description	Full Description	Nomenclature	APC	Price
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Description	Full Description	Nomenclature	APC	Price
PDR8000 NO DUPLEXER REQUIRED	-	TT06261AA	482	\$0.00
PDR8000 DUPLEXER VHF	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass.	TT06254AA	482	\$950.00
PDR8000 DUPLEXER UHF 380-430MHZ	Minimum 10MHz Tx to Rx Separation. 100kHz bandpass	TT06255AA	482	\$950.00
PDR8000 DUPLEXER UHF 380-430MHZ	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06256AA	482	\$950.00
PDR8000 DUPLEXER UHF 450-470MHZ	Minimum 5MHz Tx to Rx Separation. 500kHz bandpass	TT06257AA	482	\$950.00
PDR8000 DUPLEXER 700MHZ	30MHz Tx to Rx Separation. 6MHz bandpass	TT06259AA	482	\$950.00
PDR8000 DUPLEXER 800MHZ	45MHz Tx to Rx Separation. 10MHz bandpass	TT06260AA	482	\$950.00

Case Colors
(One case color option must be chosen)

Description	Full Description	Nomenclature	APC	Price
PDR8000 STANDARD BLACK CASE	-	TT06281AA	482	\$0.00
PDR8000 OPTIONAL OLIVE DRAB GREEN CASE	Optional color choice. Replaces standard black case.	TT06251AA	482	\$350.00
PDR8000 OPTIONAL YELLOW CASE	Optional color choice. Replaces standard black case.	TT06252AA	482	\$350.00

Mag Mount Antennas

Description	Full Description	Nomenclature	APC	Price
VHF UNITY GAIN ANTENNA	-	DDN9014	571	\$286.00
UNITY GAIN ANTENNA UHF	-	DDN9015	571	\$286.00
UNITY GAIN ANTENNA FOR TRANSPORTABLE DVR (764-869)	-	DDN9016	571	\$286.00

Add-On Features
These items can be purchased as incremental functionality if not ordered with original model.

Description	Full Description	Nomenclature	APC	Price
PDR8000 DEPLOYMENT PROFILES CAPABILITY	Provides up to 10 pre-configurable profiles for easier switching on the go. Standard model only provides 1 profile.	DDN2633	482	\$800.00
PDR8000 V.24 WIRELINE OPERATION	Adds V.24 capability to fielded units.	DDN2634	482	\$7,115.00
PDR8000 DFSI CAPABILITY	Adds DFSI capability to fielded units.	DDN3285A	482	\$7,115.00

Booster Packs

Description	Full Description	Nomenclature	APC	Price
VHF PDR8000 BOOSTER PACK	-	DDN2732	482	\$11,900.00
UHF 380-430 MHZ PDR8000 BOOSTER PACK	-	DDN2733	482	\$11,900.00
UHF 450-470 MHZ PDR8000 BOOSTER PAC	-	DDN2734	482	\$11,900.00
700/800 MHZ PDR8000 BOOSTER PACK	-	DDN2735	482	\$11,900.00

Extended Warranty

Description	Full Description	Nomenclature	APC	Price
PDR8000 1 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2302	482	\$170.00
PDR8000 4 YEAR EXTENDED HARDWARE WARRANTY	-	DDN2303	482	\$605.00

Spares

Description	Full Description	Nomenclature	APC	Price
PDR8000 SPARE AC POWER CABLE - 6 FT	-	DDN2300	482	\$225.00
PDR8000 SPARE DC POWER CABLE - 8 FT	-	DDN2301	482	\$295.00
SPARE PDR8000 DC CABLE (UNTERMINAT	-	DDN2332	482	\$212.00
BATTERY BACKUP FOR PDR8000	-	DDN2336	482	\$3,241.00
SPARE CHARGER FOR DVR-LX / PDR8000 BATTERY BACK UP	-	DDN2334	482	\$800.00
ZIPPERED ACCESSORY POUCH	-	DDN2335	482	\$203.00
SPARE PDR DUPLEXER - 700	-	DDN2318	482	\$950.00
SPARE PDR DUPLEXER - VHF	-	DDN2313	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2314	482	\$950.00
SPARE PDR DUPLEXER - UHF 380-430	-	DDN2315	482	\$950.00
SPARE PDR DUPLEXER - UHF 450-470	-	DDN2316	482	\$950.00
SPARE PDR DUPLEXER - 800	-	DDN2319	482	\$950.00
BACKPACK SLING COYOTE COLOR	-	DDN2885	571	\$2,118.00
BACKPACK SLING MULTI-CAM COLOR	-	DDN2886	571	\$2,118.00

PMP (Point to Multi-Point) Portfolio

PMP 450 Series

Description	Full Description	Nomenclature	APC	Price
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 4 MBPS	-	DSC054045C001	904	\$301.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, 20 MBPS	-	DSC054045C003	904	\$422.00
5 GHZ PMP 450 INTEGRATED SUBSCRIBER MODULE, UNCAPPED	-	DSC054045C004	904	\$543.00
PMP 450 CONNECTORIZED WIDEBAND ACCESS POINT	-	DSC054045A001	904	\$3,503.00

PMP 450i Series
PMP 450m
PMP Kits/Packs

Description	Full Description	Nomenclature	APC	Price
SURGE SUPPRESSOR 25 BULK PK	-	DSHK1948A	904	\$853.00

Accessories
CMMs

Description	Full Description	Nomenclature	APC	Price
ASSY,PRD OTH,CMM4 W/RUGGEDIZED SW AND GPS	-	DS1090CKBA	904	\$4,415.00
CMM4 NO SWITCH	-	DS1091AA	904	\$2,376.00
ASSEMBLY,CMM4 RACK MOUNT ASSEMBLY	-	DS1092AA	904	\$1,800.00

Power Supplies
Antennas

Description	Full Description	Nomenclature	APC	Price
ANT,ANT,GPS ANT W/O MT	-	DSGPSANTPNM03D	904	\$200.00
5 GHZ - 90 DEG SECTOR ANTENNA	-	DS85009324001	904	\$848.00

Mounting Brackets

Description	Full Description	Nomenclature	APC	Price
ASSY,KIT,UNIV MTG KIT	-	DSMMB1A	904	\$53.00
ASSY,ASSY,UNIV MTG BRKT-HEAVY DUTY	-	DSMMB2A	904	\$75.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
ASSY,SRG PROT,SURGE SUPR FOR CMM PWR SPLY	-	DS200SSB	904	\$35.00
SURGE PROTECTOR	-	DS600SSD	904	\$46.00
SURGE SUPPRESSOR 25 BULK PK	-	DSHK1948A	904	\$853.00
ASSY,ASSY,ALIGN TOOL HSET	-	DSACATHS-01A	904	\$55.00

Wireless Manager Software MODELS
Wireless Manager 4.0

Description	Full Description	Nomenclature	APC	Price
WIRELESS MANAGER 4.0, INCLUDES 10 NODE LICENSES	-	DSC00000L056	904	\$220.00
WM 4.0 NODE LICENSE, QTY = 1	-	DSC00000L057	904	\$55.00
WIRELESS MANAGER 4.0, HA, INCLUDES 10 NODE LICENSES	-	DSC00000L061	904	\$330.00
WM 4.0 NODE LICENSE, HA, QTY = 1	-	DSC00000L062	904	\$77.00

Policy and Charging Rules Function (PCRF)

New System Ordering Guidelines

Description	Full Description	Nomenclature	APC	Price
PCRF HW/SW 5K IP SESSIONS	-	DDN1834	54	\$210,710.00
SAPC HW/SW 10K IP SESSIONS	-	DDN1835	54	\$282,920.00
PCRF HW/SW 25K IP SESSIONS	-	DDN1836	54	\$339,790.00
PCRF HW/SW 50K IP SESSIONS	-	DDN1837	54	\$462,130.00
PCRF HW/SW 100K IP SESSIONS	-	DDN1838	54	\$679,100.00
PCRF HW/SW 250K IP SESSIONS	-	DDN1839	54	\$1,298,580.00

PCRF HW/SW 500K IP SESSIONS	-	DDN1840	54	\$2,163,980.00
PCRF HW/SW 1M IP SESSIONS	-	DDN1841	54	\$3,616,590.00
Existing System Capacity Expansion Guidelines				
Description	Full Description	Nomenclature	APC	Price
PCRF HW/SW FROM 5K TO 10K IP SESSIONS	-	DDN1842	54	\$57,440.00
PCRF HW/SW FROM 10K TO 25K IP SESSIONS	-	DDN1843	54	\$84,560.00
PCRF HW/SW FROM 25K TO 50K IP SESSIONS	-	DDN1844	54	\$134,590.00
PCRF HW/SW FROM 50K TO 100K IP SESSIONS	-	DDN1845	54	\$238,670.00
PCRF HW/SW FROM 100K TO 150K IP SESSIONS	-	DDN1846	54	\$271,820.00
PCRF HW/SW FROM 150K TO 250K IP SESSIONS	-	DDN1847	54	\$406,300.00
PCRF HW/SW FROM 250K TO 350K IP SESSIONS	-	DDN1848	54	\$419,330.00
PCRF HW/SW FROM 350K TO 500K IP SESSIONS	-	DDN1849	54	\$531,320.00
PCRF HW/SW FROM 500K TO 750K IP SESSIONS	-	DDN1850	54	\$820,650.00
PCRF HW/SW FROM 750K TO 1M IP SESSIONS	-	DDN1851	54	\$772,400.00
Spares				
Description	Full Description	Nomenclature	APC	Price
DUST FILTER UNIT FOR BFD 538	-	DDN1863	54	\$1,010.00
GEP3-24GB NODE MANAGEMENT/APPLICATION LOADER	-	DDN1864	54	\$26,244.00
GEP3-HD600 IO PROCESSOR	-	DDN1865	54	\$31,588.00
PFM LOD POWER AND FAN MODULE	-	DDN1866	54	\$3,502.00
SCXB2 SWITCH BOARD	-	DDN1867	54	\$9,956.00

PREMIERONE® SUITE - PUBLIC SAFETY APPLICATIONS

Model	Description	Full Description	Nomenclature	APC	Price
	PREMIERONE COMMON SERVICES LICENSES	-	T8149	513	\$0.00
Common Services License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE QUERY SERVICE SERVER LICENSE	-	CA02712AA	513	\$60,000.00
	ADD: PREMIERONE GIS EDITING CLIENT PLUG-IN LICENSE	-	CA02715AA	513	\$18,000.00
	ADD: PREMIERONE MAPPING SERVER LICENSE	-	CA02716AA	513	\$24,000.00
	ADD: PREMIERONE CAD & MOBILE REPORTING SERVICE SERVER LICENSE	-	CA02717AA	513	\$24,000.00
	ADD: PREMIERONE RECORDS REPORTING SERVICE SERVER LICENSE	-	CA02718AA	226	\$20,000.00
	ADD: PREMIERONE RTVI INTEGRATION	-	CA02719AA	513	\$20,000.00

PremierOne CAD Licenses
IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model	Description	Full Description	Nomenclature	APC	Price
	PREMIERONE CAD LICENSES	-	T8150	513	\$0.00
Server License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE CAD SERVER LICENSE (PRIMARY)	-	CA02721AA	513	\$180,000.00
	ADD: PREMIERONE CAD SERVER LICENSE (DR BACKUP SITE)	-	CA02722AA	513	\$90,000.00
	ADD: CAD TO CAD INTERFACE	-	CA02723AA	513	\$50,000.00
	ADD: CAD TO CAD API	-	CA02724AA	513	\$50,000.00
	ADD: PREMIERONE AVL VEHICLE TRACKING MODULE LICENSE	-	CA02725AA	513	\$84,000.00
	ADD: ARL VEHICLE AND RESPONDER LOCATION TRACKING MODULE LICENSE	-	CA02726AA	513	\$120,000.00
	ADD: FSA INTERFACE LICENSE	-	CA02727AA	513	\$25,000.00
	ADD: PERSONNEL API	-	CA02904AA	513	\$35,000.00
	ADD: ROLL CALL API	-	CA02905AA	513	\$35,000.00
	ADD: PERSONNEL AND ROLL CALL API	-	CA02906AA	513	\$50,000.00
	ADD: PREMIERONE CAD TO 3RD PARTY MOBILE API	-	CA02955AA	513	\$50,000.00

Client License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.00
	ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.00
	ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$2,000.00
	ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.00
	ADD: PREMIERONE ENTERPRISE SITE LICENSE FOR CAD CLIENT USAGE	-	CA03245AA	513	\$1.00
	ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING (PER CONCUR USER)	-	CA03257AA	513	\$1,200.00
	ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING (50 CONCUR USERS)	-	CA03259AA	513	\$50,000.00

NG 9-1-1 Call Control License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR VOICE	-	CA02733AA	513	\$10,000.00
	ADD: PREMIERONE NG9-1-1 CALL CONTROL CLIENT LICENSE FOR TEXT	-	CA02734AA	513	\$1,000.00
	ADD: PREMIERONE NG9-1-1 CALL CONTROL INTERFACE LICENSE-INTRADO	-	CA02735AA	513	\$5,995.00
	ADD: PREMIERONE NG911 CONVERTIBLE CALL CONTROL INTERFACE LIC-INTRADO	-	CA02737AA	513	\$7,995.00

PremierOne NG9-1-1 Call Control License
Notes on NG9-1-1 Call Control:
 PremierOne Mobile and Handheld Licenses
IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model	Description	Full Description	Nomenclature	APC	Price
	PREMIERONE MOBILE AND HANDHELD LICENSES	-	T8170	513	\$0.00
Server License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE MOBILE SERVER LICENSE (PRIMARY)	-	CA02738AA	513	\$50,000.00
	ADD: PREMIERONE MOBILE SERVER LICENSE (DR BACKUP SITE)	-	CA02739AA	513	\$25,000.00
	ADD: PREMIERONE MOBILE CLIENT API LICENSE	-	CA02740AA	513	\$50,000.00
	ADD: PREMIERONE HANDHELD SERVER LICENSE	-	CA02741AA	513	\$25,000.00
	ADD: PREMIERONE HANDHELD MAPPING SERVER LICENSE	-	CA02742AA	513	\$5,000.00

Client License Options					
	Description	Full Description	Nomenclature	APC	Price
	ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.00
	ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.00
	ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.00
	ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
	ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.00
	ADD: PREMIERONE MOBILE W/ MAPPING & RECORDS CLNT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.00
	ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00
	ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
	ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
	ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
	ADD: HANDHELD FOR ANDROID QUERY/MESSAGING CLIENT LIC (CONCUR USER)	-	CA03216AA	513	\$555.00
	ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.00
	ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC (CONCUR USER)	-	CA03218AA	513	\$1,070.00
	ADD: PREMIERONE ENT SITE LIC FOR MOBILE/HANDHELD CLIENT USAGE	-	CA03244AA	513	\$1.00
	ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03396AA	513	\$1,270.00
	ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00

PremierOne Records Licenses
IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE RECORDS LICENSES	-	T8171	513	\$0.00	
Server License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE RECORDS TIER 3 SERVER LICENSE (1 TO 50 USERS)	-	CA02752AA	226	\$80,000.00	
ADD: PREMIERONE RECORDS TIER 2 SERVER LICENSE (51 TO 500 USERS)	-	CA02753AA	516	\$120,000.00	
ADD: PREMIERONE RECORDS TIER 1 SERVER LICENSE (501 TO 1000 USERS)	-	CA02754AA	226	\$180,000.00	
ADD: PREMIERONE RECORDS TIER 0 SERVER LICENSE (1001+ USERS)	-	CA02755AA	226	\$240,000.00	
ADD: PROPERTY AND EVIDENCE MODULES LICENSE	-	CA02756AA	516	\$50,000.00	
ADD: PREMIERONE RECORDS STANDARD API LICENSE	-	CA02757AA	513	\$50,000.00	
ADD: PREMIERONE JAIL MODULES LICENSE	-	CA02758AA	513	\$50,000.00	
ADD: PREMIERONE RECORDS DATA CONVERT ON DEMAND SOFTWARE LICENSE	-	CA02893AA	513	\$80,000.00	
Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.00	
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00	
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.00	
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00	
ADD: PREMIERONE ENTERPRISE SITE LICENSE FOR RECORDS CLIENT USAGE	-	CA03246AA	513	\$1.00	

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIER MOBILE DATA COMPUTING (PMDC) LICENSES	-	T8151	513	\$0.00	
Server License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIER MDC SERVER LICENSE (1-50 UNITS)	-	CA02689AA	513	\$48,000.00	
ADD: PREMIER MDC SERVER LICENSE (51-100 UNITS)	-	CA02762AA	513	\$60,000.00	
ADD: PREMIER MDC SERVER LICENSE (101-500 UNITS)	-	CA02763AA	513	\$80,000.00	
ADD: PREMIER MDC SERVER LICENSE (501-1000 UNITS)	-	CA02764AA	513	\$115,000.00	
ADD: PREMIER MDC SERVER LICENSE (1001+ UNITS)	-	CA02765AA	513	\$215,000.00	
ADD: PMDC CLIENT API TO 3RD PARTY CLIENT APPLICATION LICENSE	-	CA02766AA	513	\$10,000.00	
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (50 TO 100 UNITS)	-	CA02767AA	513	\$12,000.00	
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (100 TO 500 UNITS)	-	CA02768AA	513	\$20,000.00	
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE (500 TO 1000 UNITS)	-	CA02769AA	513	\$35,000.00	
ENH: PREMIER MDC SERVER SOFTWARE LICENSE UPGRADE(1000 TO 1000+ UNITS)	-	CA02770AA	513	\$100,000.00	
Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.00	
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00	
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00	
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00	
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00	
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00	
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00	
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00	
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00	

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIER MOBILE DATA COMPUTING (PMDC) CLIENT LICENSES (ADD-ON)	-	T8152	513	\$0.00	
Add-on Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.00	
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00	
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00	
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00	
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00	
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00	
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00	
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00	
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00	
ATM Mobile (ATMM) License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00	
ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00	
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00	
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00	
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00	

ADD-ON AFTER GO-LIVE SOFTWARE LICENSES:

PremierOne CAD Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE CAD CLIENT LICENSES (ADD-ON)	-	T8180	513	\$0.00	
Add-on Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE CAD CLIENT WITH MAPPING LICENSE (PER WORKSTATION)	-	CA02728AA	513	\$14,500.00	
ADD: PREMIERONE CAD CLIENT LICENSE WITHOUT MAPPING (PER WORKSTATION)	-	CA02729AA	513	\$12,500.00	
ADD: PREMIERONE CAD MAPPING CLIENT LICENSE (PER WORKSTATION)	-	CA02730AA	513	\$2,000.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/O MAPPING (PER CONCUR USER)	-	CA02731AA	513	\$1,000.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING (PER CONCUR USER)	-	CA03257AA	513	\$1,200.00	
ADD: PREMIERONE CAD VIEW-ONLY CLIENT LIC W/MAPPING(50 CONCUR USERS)	-	CA03259AA	513	\$50,000.00	

Premier Mobile Data Computing (PMDC) Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIER MOBILE DATA COMPUTING (PMDC) CLIENT LICENSES (ADD-ON)	-	T8152	513	\$0.00	
Add-on Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIER MDC CLIENT LICENSE (1-50 UNITS)	-	CA02690AA	513	\$1,100.00	
ADD: PREMIER MDC CLIENT LICENSE (51-100 UNITS)	-	CA02771AA	513	\$800.00	
ADD: PREMIER MDC CLIENT LICENSE (101-500 UNITS)	-	CA02772AA	513	\$750.00	
ADD: PREMIER MDC CLIENT LICENSE (501-1000 UNITS)	-	CA02773AA	513	\$600.00	
ADD: PREMIER MDC CLIENT LICENSE (1001+ UNITS)	-	CA02774AA	513	\$500.00	
ADD: PMDC TEXT-TO-VOICE CLIENT MODULE LICENSE	-	CA02776AA	513	\$60.00	
ADD: PMDC BAR CODE CLIENT MODULE (MAGSTRIPE OR SCANNER) LIC	-	CA02777AA	513	\$80.00	
ADD: PMDC GPS INTEGRATION CLIENT MODULE LICENSE	-	CA02778AA	513	\$50.00	
ADD: PMDC MOBILE MAPPING CLIENT MODULE (3RD PARTY MAP) STD INTEGR LIC	-	CA02880AA	513	\$50.00	

PremierOne Records Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE RECORDS CLIENT LICENSES (ADD-ON)	-	T8181	513	\$0.00	
Add-on Client License Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02759AA	513	\$1,850.00	
ADD: PREMIERONE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02814AA	513	\$750.00	
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER CONCURRENT USER)	-	CA02760AA	513	\$1,850.00	
ADD: PREMIERONE MOBILE RECORDS CLIENT LICENSE (PER DEVICE)	-	CA02761AA	513	\$750.00	

PremierOne Mobile and Handheld Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Model					
Description	Full Description	Nomenclature	APC	Price	
PREMIERONE MOBILE AND HANDHELD CLIENT LICENSES (ADD-ON)	-	T8182	513	\$0.00	
Add-on Client License Options					

Description	Full Description	Nomenclature	APC	Price
ADD:PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING(PER CONCURRENT USER)	-	CA02743AA	513	\$1,850.00
ADD: PREMIERONE MOBILE CLIENT LICENSE WITH MAPPING (PER DEVICE)	-	CA02744AA	513	\$1,390.00
ADD:PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING(PER CONCURRENT USER)	-	CA02745AA	513	\$1,000.00
ADD: PREMIERONE MOBILE CLIENT LICENSE W/O MAPPING (PER DEVICE)	-	CA02746AA	513	\$750.00
ADD: PREMIERONE MOBILE WITH MAPPING & RECORDS CLIENT LIC (PER DEVICE)	-	CA02747AA	513	\$1,950.00
ADD:PREMIERONE MOBILE W/ MAPPING & RECORDS CLNT LIC (PER CONCUR USER)	-	CA02890AA	513	\$2,950.00
ADD: HANDHELD FOR ANDROID QUERY AND MESSAGING CLIENT LIC	-	CA02748AA	513	\$425.00
ADD: HANDHELD FOR ANDROID INTEGRATED SUITE CLIENT LICENSE	-	CA02749AA	513	\$975.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT BUNDLED W/MSI DEVICE	-	CA02750AA	513	\$775.00
ADD: PREMIERONE MOBILE MAPPING CLIENT LICENSE (PER DEVICE)	-	CA02751AA	513	\$640.00
ENH: MOBILE LICENSE WITH MAPPING UPGRADE (DEVICE TO CONCUR USER)	-	CA03133AA	513	\$460.00
ENH: MOBILE LICENSE W/O MAPPING UPGRADE (DEVICE TO CONCUR USER)	-	CA03134AA	513	\$250.00
ENH: MOBILE LIC W/MAPPING & RECORDS UPGRADE (DEVICE TO CONCUR USER)	-	CA03135AA	513	\$1,000.00
ADD: HANDHELD FOR ANDROID QUERY/MESSAGING CLIENT LIC(CONCUR USER)	-	CA03216AA	513	\$555.00
ADD: HANDHELD FOR ANDROID INT SUITE CLIENT LIC (CONCUR USER)	-	CA03217AA	513	\$1,270.00
ADD: HANDHELD FOR ANDROID INT SUITE W/MSI DEVICE LIC(CONCUR USER)	-	CA03218AA	513	\$1,070.00
ENH:HANDHELD FOR ANDROID QUERY/MESSAGING LIC UPG:DEVICE TO CONCUR	-	CA03223AA	513	\$130.00
ENH: HANDHELD FOR ANDROID INT SUITE LIC UPGRADE: DEVICE TO CONCUR	-	CA03224AA	513	\$295.00
ENH: HANDHELD FOR ANDROID INT SUITE W/MSI DEV LIC UPG TO CONCUR	-	CA03225AA	513	\$295.00
ADD: HANDHELD FOR IOS INT. SUITE CLIENT LIC (PER CONCUR USER)	-	CA03396AA	513	\$1,270.00
ADD: HANDHELD FOR IOS INTEGRATED SUITE CLIENT LIC	-	CA03397AA	513	\$975.00
ENH: HANDHELD FOR IOS INT. SUITE LIC UPGRADE (DEVICE TO CONCUR USER)	-	CA03395AA	513	\$295.00

Advanced Tactical Mapping Mobile (ATMM) Client Licenses (Add-on)

IMPORTANT: WARRANTY SERVICES ARE NOT INCLUDED WITH LICENSES AND MUST BE ORDERED SEPARATELY

Description	Full Description	Nomenclature	APC	Price
ADVANCED TACTICAL MAPPING MOBILE (ATMM) LICENSES (ADD-ON)	-	T8183	513	\$0.00

Add-on Client License Options

Description	Full Description	Nomenclature	APC	Price
ADD: ATM VEHICLE CLIENT (1-50) - CHARGE PER USER	-	CA02781AA	513	\$800.00
ADD: ATM VEHICLE CLIENT (51-100) - CHARGE PER USER	-	CA02782AA	513	\$650.00
ADD: ATM VEHICLE CLIENT (101-500) - CHARGE PER USER	-	CA02783AA	513	\$625.00
ADD: ATM VEHICLE CLIENT (501-1000) - CHARGE PER USER	-	CA02784AA	513	\$550.00
ADD: ATM VEHICLE CLIENT (1001+) - CHARGE PER USER	-	CA02785AA	513	\$500.00

WARRANTY/MAINTENANCE SERVICES ORDERING

Description	Full Description	Nomenclature	APC	Price
LRMS MAINTENANCE ACCEPTANCE	-	PTRLRMSMAINTACCEPT	513	\$1.00
PREMIER MDC M&S	-	SVC850PMDC	850	\$1.00
CAD MAINTENANCE ACCEPTANCE	-	PTRCADMAINTACCEPT	513	\$1.00

Description	Full Description	Nomenclature	APC	Price
PREMIERONE MICROSOFT SYSTRDATACTR ALNG EMB 2012R2 MVL 2 PROC	-	DSP1AVSD12R2MVL	330	\$2,725.00
PREMIERONE MICROSOFT SYSTRDATACTR ALNG EMB MNTNCE 2012R2 MVL 2 PROC	-	DSP1AVSD12R2EMVL	702	\$718.00
PREMIERONE MICROSOFT SQL SVR ENTERPRISE RUNTIME 2012 EMB 2 CORE LIC	-	DDN2214	513	\$7,173.00
PREMIERONE MICROSOFT SQL SVR ENT RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2212	513	\$1,511.00
PREMIERONE MICROSOFT SQL SVR STANDARD RUNTIME 2012 EMB 2 CORE LIC	-	DDN2215	513	\$1,888.00
PREMIERONE MICROSOFT SQL SVR STD RUNTIME 2012 EMB MAINT 2 CORE LIC	-	DDN2213	513	\$398.00

PremierOne Interface Annual Fees

Interface Annual Fees	APC	Annual Fee
NetClock	702	\$0
Plant EquipmentCML Vesta E911	702	\$1,800
PlantCML Vesta TDD	702	\$1,800
Third Party Paging Device or Service (TAP)	702	\$1,800
Third Party Paging Device or Service (SMTP)	702	\$1,800
MCC 7500 Radio Console	702	\$1,800
Motorola Astro Flexible ATIA	702	\$1,800
Law RMS datafeed	702	\$1,800
Fire RMS datafeed	702	\$1,800
ProQA Medical	702	\$1,800
ProQA Fire	702	\$1,800
ProQA Law	702	\$1,800
Deccan LiveMUM	702	\$1,800
CrimeView	702	\$1,800
LINX	702	\$1,800
CopLink	702	\$1,800
CryWolf False Alarm Billing Interface - Bidirectional	702	\$1,800
CAD and Mobile Bulk Provisioning	702	\$1,800
Image System Query	702	\$1,800
Legacy RMS Query	702	\$1,800
DSI Jail Send	702	\$1,800
DSI Jail/Picture Link Query	702	\$1,800
State/NCIC	702	\$1,800
State Query Interface Transaction Bundle	702	\$1,800
SMTP Server interface	702	\$1,800

Private Broadband Networks

Configuration

Description	Full Description	Nomenclature	APC	Price
IN-LINE FILTER WITH RJ-11 CONNECTOR.	-	65603	963	\$15.00
IN-LINE FILTER FOR "IN WALL" INSTALLATION	-	65602	963	\$15.00
T3 WIRELESS WALL PLATE	-	45010	963	\$495.00
T3 POWERBROADBAND SWITCH	-	45225	963	\$3,295.00
XLP-6824 MASTER UNIT FOR POWERBROADBAND POE. 4 UTP PORTS.	-	43114	963	\$3,995.00
XLT-401 BROADBAND SWITCH 4 10/100 PORTS. 1 UTP PORT	-	42211	963	\$2,195.00
XL68A 2-WIRE ADAPTER OPTION FOR XLP-6824 AND ALL XLT-400 SERIES SWITCH	-	42202	963	\$79.00

Customer Programming Software (CPS)

Description	Full Description	Nomenclature	APC	Price
PROGAMMING ACCESS KEY (PAK) 3.5" MEDIA	-	CVN6143	647	\$750.00

PSC 9600 Site Controller for

ASTRO® 25® Digital Trunking Solutions

Configuration

Description	Full Description	Nomenclature	APC	Price
ASTRO 25 TRUNKING SOFTWARE	-	T6931	537	\$0.00

Options

Software Field Upgrades

Description	Full Description	Nomenclature	APC	Price
ADD: PSC 9600 SOFTWARE UPGRADE	Purchased a subitem to T6931, the desired quantity should reflect the number of fielded PSC 9600s requiring an upgrade. Example, if there are 300 fielded PSC 9600 controllers, please order a quantity of 300 of CA00276AA.	CA00276AA	537	\$500.00

Accessories

Description	Full Description	Nomenclature	APC	Price
Cable(s)				
CBL W/MODE PLUG 8 COND	One cable MUST be ordered for each pair of PSC 9600s.	3084225N24	207	\$11.00
Manual(s)				
PSC 9600 SERVICE MANUAL	-	6.88E+28	537	\$99.00

Point to Point Wireless Ethernet Bridges

PTP 820 Licensed Microwave Backhaul:

Description	Full Description	Nomenclature	APC	Price
PTP 800 CMU / PTP-SYNC 19INCH RACK MOUNT INSTALLATION KIT	-	DSWB3486H	908	\$107.00
PTP800 MODEM 1000/100BASET WITH CAPACITY CAP 10 MBPS	-	DSWB3480HH	908	\$2,650.00
ODU-B 23GHZ, TR1200, LO, B5 ((22800.0 - 23200.0 MHZ), RECTANGULAR WG,	-	DS85009319004	908	\$3,398.00

PTP820C

PTP 820C is an all-outdoor, multi-core unit.

11GHz

Additional Accessories

PTP Accessories

Lightening Protection Unit (LPU)

Description	Full Description	Nomenclature	APC	Price
TRIMBLE ACUTIME GPS / ADAPTER CABLE KIT	-	DSWB4141HH	907	\$917.00
PTP300/500/600 PIDU WITH US LEAD	-	DSWB3025H	907	\$436.00
LPU END KIT PTP 250/300/500 (2 KITS REQUIRED PER LINK)	-	DSWB2378H	907	\$214.00
PTP 300/500 SERIES E1/T1 SPLITTER (PER END)	-	DSWB3476H	907	\$68.00
PTP-SYNC, COMPLETE PACKED UNIT	-	DSWB3665HH	907	\$462.00
LPU END KIT PTP 600 (2 KITS REQUIRED PER LINK)	-	DSWB2907H	907	\$528.00
PTP-SYNC TRIMBLE ADAPTER CABLE	-	DSWB3961H	907	\$141.00

Accessories

Description	Full Description	Nomenclature	APC	Price
TAPERED TRANSITION, WR75 - WR90, PBR120, UDR100	-	DS58010077001	908	\$464.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB1811B	907	\$158.00
PTP600 SERIES MULTI-MODE OPTICAL CONVERSION KIT (PER END)	-	DSWB2312H	907	\$726.00
PTP 300/500/600 SERIES BLANKING PLUG PACK (QTY 10)	-	DSHDW-2358H	907	\$66.00
TYCO/AMP CRIMP TOOL	-	DSWB3211A	907	\$390.00
GROUNDING LUG KIT	-	DSWB1812	907	\$71.00
PTP SER EMC CABLE GLAND (GROUNDING)	-	DSWB2289A	907	\$119.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$201.00

PTP Unlicensed Software License Keys

Description	Full Description	Nomenclature	APC	Price
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - END	-	DSWB3608	907	\$908.00
PTP 300 SERIES TO PTP500 LITE UPGRADE KEY - LINK	-	DSWB3584	907	\$2,904.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - LINK	-	DSWB3585	907	\$6,776.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ LINK	-	DSWB3262	907	\$3,630.00
PTP 49600 SOFTWARE KEY X -20 MHZ END ONLY	-	DSWB3268	907	\$3,993.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - END ONLY	-	DSWB2402A	907	\$1,452.00
PTP 49600 SOFTWARE KEY X -20 MHZ LINK	-	DSWB3263	907	\$7,260.00
PTP 600 SERIES GROUP ACCESS UPGRADE KEY - LINK	-	DSWB3607	907	\$1,815.00
PTP 49600 SOFTWARE KEY 5 - 10 MHZ END ONLY	-	DSWB3267	907	\$1,997.00
PTP 300/500/600 SERIES AES LICENCE KEY 128BIT - LINK	-	DSWB2519A	908	\$2,903.00
PTP600 SERIES FIPS INCLUDING 256BIT AES - LINK	-	DSWB3413	907	\$6,050.00
PTP600 SERIES UC-APL INCLUDING 256BIT AES AND FIPS - LINK	-	DSWB4149	907	\$7,865.00
PTP 300 SERIES TO PTP500 FULL UPGRADE KEY - END	-	DSWB3881	907	\$3,727.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - END ONLY	-	DSWB2607A	907	\$2,118.00
PTP 300/500/600 SERIES AES LICENCE KEY 256BIT - LINK	-	DSWB2511A	908	\$4,235.00

Antennas

Description	Full Description	Nomenclature	APC	Price
4.4-5.0 GHZ, 2-FT (0.6M), H-POL & V-POL, WITH FINE ADJUSTMENTS	-	DSRDH4499A	907	\$2,376.00
3-FT. (0.9M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4500A	907	\$3,696.00
4-FT. (1.2M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4501A	907	\$4,686.00
6-FT. (1.8M), 4.4-5.0 GHZ, DUAL-POL	-	DSRDH4502A	907	\$6,336.00
2FT 5.25-5.85GHZ W/FINE ADJ.DUAL POLE	-	DSRDH4503B	907	\$1,353.00
4-FT. (1.2M), 5.25-5.85 GHZ	-	DSRDH4505B	907	\$2,871.00
2-FT.(0.6M), HIGH PERFORMANCE DUAL	-	DSRDH4508B	907	\$1,551.00
6-FT. (1.8M), 5.25-5.85 GHZ, DUAL-POL, H-POL & V-POL	-	DSRDH4506B	907	\$4,217.00
5.25-5.85 GHZ, 3-FT (0.9M), HIGH PERFORMANCE DUAL-POL	-	DSRDH4509B	907	\$2,779.00
4-FT.(1.2M), HIGH PERFORMANCE DUAL-POL, 5.25 - 5.85 GHZ	-	DSRDH4510B	907	\$4,838.00
HPD6-4.7 6-FT.(1.8M), HP, 4.5-5.0GH	-	DSRDH4515A	907	\$13,134.00
HPD3-4.7 3-FT.(0.9M), HP, 4.5-5.0GH	-	DSRDH4517A	907	\$4,121.00
HPD2-4.7 2-FT.(0.6M), HP, 4.5-5.0G	-	DSRDH4518A	907	\$2,235.00
HP4 - 4FT SP ANTENNA, 5.725 - 6.425	-	DS85009328001	908	\$6,349.00
ANTENNA SYSTEM, PAR6 - 6FT SP ANTENNA, 5.925 - 7.125 GHZ WITH RADOME,	-	DS85009294001	908	\$5,029.00
PAR6 - 6FT SP ANTENNA, 10.7 -11.7 GHZ WITH RADOME, SINGLE POL	-	DS85009294005	908	\$5,029.00
HP4 - 4FT SP ANTENNA, 10.7- 11.7 GHZ WITH RADOME, SINGLE	-	DS85009301001	908	\$6,124.00
4FT HP ANTENNA, 7.125 - 8.5 GHZ, SINGLE POL, MOT INTERFACE	-	DS85010089051	908	\$6,050.00
2-FT (0.6M), MOLDED RADOME, UV INHIBITED	-	DSRRDNT140B	907	\$515.00

PTP Accessories:

Description	Full Description	Nomenclature	APC	Price
WR75 FLEX TWIST HANGER KIT,11-13GHZ	-	DS07010118003	908	\$68.00
PRESSURE WINDOW FOR WR90, 8.2-12.4 GHZ, MATES TO CPR90G	-	DS58009283002	908	\$207.00
CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	907	\$37.00
MAINS LEAD- EU WITH DUAL EARTH TO C5 (PTP800 AC-DC PSU)	-	DSWB3620A	908	\$13.00
1000 FT REEL, OUTDOOR COPPER CLAD CAT5E	-	DSWB3175A	907	\$1,782.00
AC-DC POWER SUPPLY CONVERTOR (NO LEAD CABLE INCLUDED)	-	DSWB3622A	908	\$321.00
COAXIAL CABLE INSTALLATION ASSEMBLY KITS (W/O SURGE ARRESTOR)	-	DSWB3616A	908	\$404.00
PRESSURE WINDOW FOR WR137, 5.85-8.2 GHZ, MATES TO CPR137G	-	DS58009283001	908	\$207.00
328 FT (100 M) REEL OUTDOOR COPPER CLAD CAT5E	-	DSWB3176A	907	\$653.00
TYPE N FEMALE TO TNC MALE ADAPTER	-	DSN000081L007	908	\$32.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,640.00
WR42 FLEX TWIST HANGER KIT,18-26GHZ	-	DS07010118005	908	\$75.00
TYCO/AMP CRIMP TOOL	-	DSWB3211A	907	\$390.00
MAINS LEAD- US 3PIN TO C5 (PTP800 AC-DC PSU)	-	DSWB3618A	908	\$14.00
50 OHM BRAIDED COAXIAL CABLE - 75 METER	-	DS30010194001	908	\$554.00
LPU END KIT PTP800 (1 KIT REQUIRED PER COAXIAL CABLE)	-	DSWB3657A	907	\$728.00
CRIMP TOOL FOR N-TYPE CONNECTOR	-	DS66010063001	908	\$201.00
TNC MALE RIGHT ANGLE FOR CNT-400 BR	-	DSN000081L006	907	\$34.00

Description	Full Description	Nomenclature	APC	Price
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EWP90 - PREMIUM ELLIPTICAL WAVEGUIDE, 10.7 - 11.7 GHZ (PER FT)	-	DS58009273002	908	\$34.00
2 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280002	908	\$693.00
GROUNDING KIT FOR WAVEGUIDE EWP90	-	DS07009343002	908	\$55.00
HOISTING GRIP FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009344001	908	\$72.00
1 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280001	908	\$693.00
3 FT FLEX WAVEGUIDE 6 GHZ - CRP137G/CRP137G	-	DS58009280003	908	\$783.00
GROUNDING KIT FOR WAVEGUIDE EWP52 AND EWP63	-	DS07009343001	908	\$62.00
2 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279002	908	\$624.00
EWP52 - PREMIUM ELLIPTICAL WAVEGUIDE, 5.725 - 6.425 GHZ (PER FT)	-	DS58009273001	907	\$46.00
HOISTING GRIP FOR WAVEGUIDE EWP90	-	DS07009344002	908	\$63.00
1 FT FLEX WAVEGUIDE 11 GHZ - CRP90G/CRP90G	-	DS58009279001	908	\$594.00
Cable				
Description	Full Description	Nomenclature	APC	Price
RF CNNCTR,N,MALE,RT ANGL 400 CBL	-	DS01010589001	908	\$35.00
FIXED-TUNED CPR90G CONNECTOR FOR EWP90	-	DS09009399002	908	\$603.00
FIXED-TUNED CPR137G CONNECTOR FOR EWP52	-	DS09009399001	908	\$866.00
50 OHM BRAIDED COAXIAL CABLE - 500 METER	-	DS30010195001	908	\$2,640.00
HOISTING GRIP FOR CNT-400 CABLE	-	DS07009304001	907	\$28.00
RF CNNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	907	\$16.00
Kits				
Description	Full Description	Nomenclature	APC	Price
WR137 FLEX-TWIST HANGER KIT - 6 GHZ	-	DS07010118001	907	\$95.00
WR75 FLEX TWIST HANGER KIT,11-13GHZ	-	DS07010118003	908	\$68.00
WR42 FLEX TWIST HANGER KIT,18-26GHZ	-	DS07010118005	908	\$75.00
WR28 FLEX TWIST HANGER KIT, 28 - 38 GHZ	-	DS07010118006	908	\$75.00
RF CNNCTR,N,MALE,STRT FOR -400 CBL	-	DS09010091001	907	\$16.00
CABLE GROUNDING KITS FOR 1/4 INCH AND 3/8 INCH CABLE	-	DS01010419001	907	\$37.00
PTP FCC License Coordination (Optional):				
Description	Full Description	Nomenclature	APC	Price
FCC M/W FREQ PROTECTION SERVICE - 5 ADDITIONAL YR	-	DSWB4113	908	\$605.00
FCC M/W FREQ PROTECTION SERVICE - 10 ADDITIONAL YR	-	DSWB4114	908	\$1,210.00
FCC M/W FREQ COORDINATION SERVICE	-	DSWB3659	908	\$1,386.00

**Public Safety and Private LTE
Core L2/L3 Switch (AC Power)**

Models

AC Power:

Description	Full Description	Nomenclature	APC	Price
SUMMIT X670 G2 48X 4Q BASE UNIT	-	TT3685	55	\$26,281.00
EXT I-MGBIC-GTX COMPATIBLE 1000BASE-T SFP COPPER RJ-45, 100M	-	TT3776	55	\$48.00

Options

Description	Full Description	Nomenclature	APC	Price
SUMMIT X670 FAN MODULE FB	-	TT06560AA	55	\$673.00
SUMMIT 550W AC PSU FB	-	TT06561AA	55	\$809.00
SUMMIT X670 SERIES CORE LICENSE	-	TT06562AA	55	\$5,947.00
PWR CORD,10A,CEE 7/7,C13	-	TT06564AA	55	\$17.25
SUMMIT X670 MPLS FEATURE PACK	-	TT06563AA	55	\$3,963.00

eNB L2 Switch - DC Power

Description	Full Description	Nomenclature	APC	Price
R6471 DC PACKAGE FROM ERS	-	TT3511	51	\$3,220.00

Cabinet or open rack mounting is already included in the R6471 DC package. For R6371, order Quantity 1 per eNodeB Site.

Description	Full Description	Nomenclature	APC	Price
R6371 DC PACKAGE FROM ERS	-	TT3506	51	\$3,750.00

Description	Full Description	Nomenclature	APC	Price
POLE INSTALLATION KIT, 6371	-	DDN2817	51	\$220.00

For mounting on a wall, order Quantity 1 per R6371.

Description	Full Description	Nomenclature	APC	Price
WALL AND POLE MOUNTING KIT,6371	-	DDN2818	51	\$160.00

Extreme Network Switch:

For X460-G2, order Quantity 1 of the following per eNodeB site:

Description	Full Description	Nomenclature	APC	Price
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	55	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	55	\$230.00

For X460-G2, order Quantity 2 of the following per eNodeB site:

Description	Full Description	Nomenclature	APC	Price
SUMMIT 300W +24V/-48V DC POWER SUPPLY UNIT	-	DDN2810	55	\$620.00

Options

Order Quantity 1 per switch port, depending on the port to be used in consideration of its characteristics:

Description	Full Description	Nomenclature	APC	Price
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	51	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	51	\$120.00

Extreme Switch Features:

Order Quantity 1 per switch:

Description	Full Description	Nomenclature	APC	Price
CORE LIC FROM ADV EDGE - X460/-G	-	TT3501	55	\$1,450.00
MPLS FEATURE PACK - X460/-G2	-	TT3502	55	\$1,450.00

Order Quantity 1 per switch port, depending on the port to be used in consideration of its characteristics:

Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	55	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	55	\$1,170.00

Spares

Description	Full Description	Nomenclature	APC	Price
ROUTER 6471/2 DC SYSTEM W/10X1G ENABLED	-	TT3508	51	\$1,720.00
ROUTER 6371 DC SYSTEM W/6X1G ENABLED	-	TT3512	51	\$2,400.00
SFP+ SM 10.3GB/S 1.4KM 1310NM	-	DDN2377	51	\$40.00
100/1000 TX SSR, SFP	-	DDN2812	51	\$120.00

Extreme Switch:

Description	Full Description	Nomenclature	APC	Price
10/100/1000BASE-T SFP, HI	-	DDN1893	55	\$230.00
10GB SFP+ 10GBASE-T	-	DDN1894	55	\$1,170.00
X460-G2-24T-GE4-BASE DC VERSION	-	TT3500	55	\$2,890.00
SUMMIT FAN MODULE FB	-	DDN2811	55	\$230.00
SUMMIT 300W +24V/-48V DC POWER SUPPLY UNIT	-	DDN2810	55	\$620.00

EPC NTP Server

Models

Description	Full Description	Nomenclature	APC	Price
UFALCON MXGD PTP BNDL W/ SHELF HW + ACDC PSU, 5YR HW/SW	-	EQ000235A01	156	\$5,885.00

Options

Accessories		Description	Full Description	Nomenclature	APC	Price
		AC (100-240V) TO DC (48V) POWER ADAPTER, 40W	-	DSFPA40	156	\$270.00
		19" RACK SHELF, UP TO 2DLAXX, LTAXX AND OTHER HALF RACKS	-	DSRM2	156	\$137.00
		GLOBAL GNSS TIMING ANTENNA, 26DB, GPS, GLONASS, GALILEO AND BEIDOU	-	DSGNSS1TMG26N	291	\$250.00
		GLOBAL GNSS TIMING ANTENNA, 40DB, GPS, GLONASS, GALILEO AND BEIDOU	-	DSGNSS1TMG40N	291	\$271.00
		MOUNT KIT, COLLAR BRACKET	-	DSGPSTMGMINT	291	\$32.50
		L MNT FOR GPS TIMING	-	DSGPSTMGLMINT	291	\$24.00
		BULKHEAD COAXIAL RF SURGE PROTECTOR, TYPE N F/F, 1.2GHZ - 1.6GHZ, 10W, CA: CNT240 BRAIDED CABLE ASSEMBLY 1M	-	DSGPST06NFF	207	\$107.00
		COAXIAL CABLE, 1/4" HIFLEX, 50 OHM WITH BLACK PE JACKET	-	DSC240NFSM1M	351	\$44.50
		CONNECTOR, N FEMALE INTERFACE FOR EC1-50-HF	-	DSEC150HF	351	\$2.70
		CONNECTOR, N MALE INTERFACE FOR EC1-50-HF	-	DSNF50B14X	351	\$28.00
		COAXIAL CABLE, 1/2" HIFLEX, 50 OHM WITH BLACK PE JACKET	-	DSNM50B14X	351	\$31.00
		CONNECTOR, N FEMALE INTERFACE FOR EC4-50-HF	-	DSEC450HF	351	\$3.65
		CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	-	DSNF50B12X	351	\$43.00
		CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	-	DSNM50B12X	351	\$43.00
		CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	-	DSNM50BL12X	351	\$52.00

L2/L3 Aggregation Switch/Router (copper)

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00

Accessories		Description	Full Description	Nomenclature	APC	Price
		MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
		10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
		SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00

L2/L3 Aggregation Switch/Router (fiber)

Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00

COPPER PLUG-INS:

Accessories		Description	Full Description	Nomenclature	APC	Price
		MINI GBIC 1000BASESX WITH 1 LC MM PORT	-	DDN1344A	454	\$474.00
		10GBASE-LR, SFP+ OPTIC (LC), 10KM SMF	-	DDN1345A	454	\$1,998.00
		SFP (FIBER PLUG-IN)- UP TO 70 KM	-	DDN1346A	454	\$3,820.00
		SFP (COPPER PLUG-IN) - ALL LENGTHS	-	DDN1347A	454	\$375.00

L2/L3 Remote EPG Switch - Copper

Models		Description	Full Description	Nomenclature	APC	Price
AC Power Core Copper						
		CES2048X COPPER AC INC MPLS LICENSE	-	TT2718	55	\$26,492.00
DC Power Core Copper						
		CES2048X COPPER DC INC MPLS LICENS	-	TT2719	55	\$26,895.00
Options						
AC Power Supply						
		CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	55	\$744.00
DC Power Supply						
		CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	55	\$1,147.00
10G XFP (FIBER PLUG-IN)						
		10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	55	\$705.00
Accessories						
AC Power Core Copper						
		CES2048X COPPER AC INC MPLS LICENSE	-	DDN1767	55	\$26,492.00
DC Power Core Copper						
		CES2048X COPPER DC INC MPLS LICENS	-	DDN1768	55	\$26,895.00
AC Power Supply						
		CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	55	\$744.00
DC Power Supply						
		CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	55	\$1,147.00
10G XFP (FIBER PLUG-IN)						
		10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	55	\$721.00

L2/L3 Remote EPG Switch - Fiber

Models		Description	Full Description	Nomenclature	APC	Price
AC Power Core Fiber						
		CES2048X FIBER AC INC MPLS LICENSE	-	TT2720	55	\$29,373.00
DC Power Core Fiber						
		CES2048 FIBER DC INC MPLS LICENSE	-	TT2721	55	\$29,776.00
Options						
AC Power Supply						
		CES2048X AC RED POWER SUPPLY 500W	-	TT05883AA	55	\$744.00
DC Power Supply						
		CES2048X DC RED POWER SUPPLY 500W	-	TT05884AA	55	\$1,147.00
10G XFP (FIBER PLUG-IN)						
		10G XFP (FIBER PLUG-IN) UP TO 300M	-	TT05885AA	55	\$705.00
1G (FIBER PLUG-IN)						

SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00

Accessories				
AC Power Core Fiber				
Description	Full Description	Nomenclature	APC	Price
CES2048X FIBER AC INC MPLS LICENSE	-	DDN1769	55	\$29,373.00
DC Power Core Copper/Fiber				
Description	Full Description	Nomenclature	APC	Price
CES2048 FIBER DC INC MPLS LICENSE	-	DDN1770	55	\$29,776.00
AC Power Supply				
Description	Full Description	Nomenclature	APC	Price
CES2048X AC RED POWER SUPPLY 500W	-	DDN1771	55	\$744.00
DC Power Supply				
Description	Full Description	Nomenclature	APC	Price
CES2048X DC RED POWER SUPPLY 500W	-	DDN1772	55	\$1,147.00
10G XFP (FIBER PLUG-IN)				
Description	Full Description	Nomenclature	APC	Price
10GBASE-SR, SFP+OPTIC (LC), 300M MMF	-	DDN1773	55	\$721.00
1G (FIBER PLUG-IN)				
Description	Full Description	Nomenclature	APC	Price
SFP (FIBER PLUG-IN) - UP TO 500 M	-	TT05640AA	55	\$470.00
SFP (FIBER PLUG-IN)- UP TO 10 KM	-	TT05639AA	55	\$990.00
SFP (FIBER PLUG-IN)- UP TO 70 KM	-	TT05638AA	55	\$3,820.00

eNodeB Antenna

Models				
Remote Electrical Tilt Antenna				
Description	Full Description	Nomenclature	APC	Price
698-869MHZ LOW-PIM/Hi-PIP, 9.5DBD, 65DEG HP, +/-45-DEGREE POLARIZATION	High-performance Dual-pol directional Panel antenna optimized for 698-869 MHz applications requiring strong pattern control in a 65-degree Horizontal-aperture package, 2 ports antenna, 9.5 dBd Gain. Height x Width x Depth – in., nom. (not including clamps): 48 x 11 x 6 Weight, antenna and hardware 15 lbs. Mechanical downtilt kit is optional	DQSP6Z10PP65XD	66	\$2,600.00
Description	Full Description	Nomenclature	APC	Price
DUAL COLUMN, X-POL, 698-960 698-960	Dual band antenna 4 ports, XX Pol, 65°Horizontal Beamwidth 690-960/690-960MHz 16.6/16.6dBi gain, E-Tilt. 0-10/0-10 Integrated RCU	DDN2417	66	\$1,590.00

eNodeB Band Class 14

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00
SITE SYNCHRONIZATION REQUIREMENTS:				
Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00
4T4R configuration RBS6301:				
Order quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	51	\$72,960.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
2T4R configuration RBS6301:				
Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	51	\$46,300.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
**HW license upgrade to 4T4R. Order Quantity 1 per RRU:				
Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00
OUTDOOR CONFIGURATIONS (AC):				
2T2R configuration Enclosure 6160:				
Order quantity 1 of TT3702A for an eNodeB in an Enclosure 6160 with baseband 6620.				
Description	Full Description	Nomenclature	APC	Price
6160 -48VDC 3SECTOR, BB6620, 3RRU 4478 BC14, 40W, 2T4R MIMO 5+5 MHZ	-	TT3702	51	\$69,650.00
Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3247	51	\$72,960.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
2T4R configuration RBS6301:				
Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC14, 40W, 5+5 MH	-	TT3252	51	\$46,300.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00
For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:				
Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00
**HW license upgrade to 4T4R. Order Quantity 1 per RRU:				
Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00
4T4R configuration Power 6135:				

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3246	51	\$73,540.00

2T4R configuration Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC14, 40W, 5+5 MHZ	-	TT3251	51	\$46,890.00

**HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00

4T4R configuration BB6620 with RRU:

Order Quantity 1 per site:2

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 4T4R MIMO 5+5 MHZ	-	TT3249	51	\$70,660.00

If a 19" rack is needed, the following 2.35 ft. rack in height can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

2T4R Configuration BB6620 with RRUs:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
2T4R LIMIT 6620 INDOOR -48VDC 3SECTOR, 3RRU BC14, 40W, 5+5 MHZ	-	TT3254	51	\$44,000.00

If a 19" rack is needed, the following 2.35 foot rack in height can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

**HW license upgrade to 4T4R. Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
HW SUPPORT LICENSE FULL 4T4R CAPACITY IN RADIO 4478 B14 (PER RADIO)	-	DDN2421	51	\$8,890.00

All the following features or VPs are priced per sector and per 20 MHz carrier (order Quantity 1 per RRU):

Basic Motorola Value Pack:

Description	Full Description	Nomenclature	APC	Price
BASIC MOTOROLA VALUE PACK FEATURES	-	DDN2482	51	\$3,890.00

License to Increase Throughput (75 Mbps CL/37.5 Mbps UL Increment)

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	51	\$3,170.00

License to Increase Bandwidth by 5+5 MHz Increment

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	-	DDN2667	51	\$450.00

License to Increment Radio Power by 20W

Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
OUTPUT POWER HWAC 20W INCR.STEPS (P)	-	DDN2452	51	\$370.00

All the following features or VPs are priced per sector and per 20MHz carrier (order Quantity 1 per RRU):

Support for IP Security:

Description	Full Description	Nomenclature	APC	Price
INTEGRATED IP SECURITY	-	DDN2666	51	\$150.00

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
LICENSE 4 WAY RECEIVE DIVERSITY	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	51	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00

External Alarm Requirements:

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00

SURGE PROTECTION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
SURGE PROTECTION DEVICE, SPD KIT-4	-	DDN2596	51	\$120.00

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00

Spares

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	51	\$15,050.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00

RBS6135 and BB6620 with RRUs

Description	Full Description	Nomenclature	APC	Price
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SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
RADIO 4478 B14 (700MHZ), US SPEC, 2	-	TT3240	51	\$15,050.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00

eNodeB Band Class 20

BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00

RBS SELECTION:

OUTDOOR CONFIGURATIONS (DC):

RBS6301:

Order quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	51	\$47,530.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

OUTDOOR CONFIGURATIONS (AC):

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3267	51	\$47,530.00

-48V DC TO 230VAC FOR RBS 6301

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2428	51	\$2,100.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2401	51	\$640.00

GENERIC BASE FRAME FOR RBS 6301 AND

Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3266	51	\$48,120.00

BB6220 with RRU:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ	-	TT3269	51	\$43,790.00

6620 INDOOR -48VDC 3SECTOR, 3RRU BC20, 40W, 2X2 MIMO 5+5 MHZ

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

FEATURE SELECTION:

All the following features or VPs are priced per sector and per 20 MHz carrier (order quantity 1 per RRU):

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
LICENSE 4 WAY RECEIVE DIVERSITY	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00

Support for Combined Cell:

Description	Full Description	Nomenclature	APC	Price
COMBINED CELL	-	DDN2449	51	\$1,070.00

Support for Carrier Aggregation:

Description	Full Description	Nomenclature	APC	Price
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00

Support for Maximum Cell Range up to 100 km:

Description	Full Description	Nomenclature	APC	Price
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00

EXTERNAL ALARM REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00

SURGE PROTECTION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	51	\$120.00

For the Indoor BB6620 with RRU, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00

Spares

RBS6301

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
SPARE RADIO 2217 B20	-	TT3303	51	\$6,580.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
ENCLOSURE 6135 and BB6620 with RRUs				
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B20	-	TT3303	51	\$6,580.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00

eNodeB Band Class 26

Ordering Requirements and Models

BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00
If GPS mounting is needed for the GPS receiver unit, order Quantity 1 per site of the following:				
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00

OUTDOOR CONFIGURATIONS (DC):

RBS6301:

Order quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212	-	TT3272	51	\$47,530.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

OUTDOOR CONFIGURATIONS (AC):

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212	-	TT3272	51	\$47,530.00
-48V DC TO 230VAC FOR RBS 6301	-	DDN2428	51	\$2,100.00
For mounting the site to a wall, use the following kit. Order Quantity 1 per site:				
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3271	51	\$48,120.00

BB6620 with RRU:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC26D, 40W, 2X2 MIMO 5+5 MHZ	-	TT3274	51	\$43,790.00

If a 19" rack is needed, the following 2.35 ft. rack (in height) can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

FEATURE SELECTION:

License to Increase Throughput (75 Mbps CLJ37.5 Mbps UL Increment)

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
5212/6620 HW UTILIZATION PACKAGE 75	-	DDN2450	51	\$3,170.00

License to Increase Bandwidth by 5+5 MHz Increment

Order Quantity 1 per RRU:

Description	Full Description	Nomenclature	APC	Price
INCREMENT BY 5+5 MHZ BANDWIDTH FOR LTE ENB	-	DDN2667	51	\$450.00

All the following features or VPs are priced per sector and per 20 MHz carrier (order Quantity 1 per RRU):

Support for IP Security:

Description	Full Description	Nomenclature	APC	Price
INTEGRATED IP SECURITY	-	DDN2666	51	\$150.00

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
COORDINATED MULTIPOINT TRANSMISSION FEATURE	-	DDN2422	51	\$900.00

Quad Antenna Support 4X2 Downlink MIMO:

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
LICENSE, 4 WAY RECEIVE DIVERSITY	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:

Description	Full Description	Nomenclature	APC	Price
SECURE OAM AND SECURITY LOGGING	-	DDN2448	51	\$50.00

Support for Large eNodeB, starting with the 7th cell and beyond:

Description	Full Description	Nomenclature	APC	Price
LARGE ENODEB FEATURE	-	DDN2423	51	\$50.00

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00
Support for Combined Cell:				
COMBINED CELL	-	DDN2449	51	\$1,070.00
Support for Carrier Aggregation:				
CARRIER AGGREGATION FEATURE	-	DDN2425	51	\$1,010.00
Support for Maximum Cell Range up to 100 km:				
MAXIMUM CELL RANGE, UP TO 100 KM FEATURE	-	DDN2424	51	\$1,810.00
EXTERNAL ALARM REQUIREMENTS:				
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00
SURGE PROTECTION REQUIREMENTS:				
SURGE PROTECTION DEVICE, SPD KIT -4	-	DDN2596	51	\$120.00

For the Indoor BB6620 with RRU, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00

Spares

Description	Full Description	Nomenclature	APC	Price
RBS6301				
SPARE BASEBAND 5212 INITIAL HW PACK	-	TT3300	51	\$15,820.00
SPARE RADIO 2217 B26D	-	TT3302	51	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
PDU 03 01, POWER DISTRIBUTION UNIT	-	DDN2594	51	\$930.00

RBS6135 and BB6620 with RRU

Description	Full Description	Nomenclature	APC	Price
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B26D	-	TT3302	51	\$8,320.00
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00

For the Indoor BB6620 with RRU, order Quantity 1 per site of DDN2403 DC Surge Protection, assuming 3 sectors per site:

Description	Full Description	Nomenclature	APC	Price
DC SURGE PROTECTION, 3 RRU	-	DDN2403	51	\$290.00

eNodeB Band Class 28 Macro

BASE TERMINAL EQUIPMENT REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
DC POWER CABLE 2-POLE OPEN END 1.5	-	DDN2471	51	\$50.00

SITE SYNCHRONIZATION REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
GPS ANTENNA KIT	-	DDN1884	51	\$572.00
SET OF MATERIALS/DIN RAIL MOUNTING SET	-	DDN1335	51	\$10.00

OUTDOOR CONFIGURATIONS (DC):

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3262	51	\$47,530.00

A global base frame is required for non-battery backup solutions. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GBF 6101 BASE FRAME, SIDE INLETS	-	DDN2429	51	\$430.00

For mounting the site to a wall, use the following kit. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

OUTDOOR CONFIGURATIONS (AC):

RBS6301:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6301 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3262	51	\$47,530.00

-48V DC TO 230VAC FOR RBS 6301

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00

For mounting the site over the GBF, which itself connects to the site ground, use the following. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

RBS6135 AND BB6620 with RRU

Description	Full Description	Nomenclature	APC	Price
GPS 03 01, GPS RECEIVER UNIT	-	DDN2595	51	\$3,810.00
FAN TRAY, 24 VDC, 1.0 A	-	DDN2593	51	\$1,720.00
SPARE BASEBAND 6620 INITIAL HW PACK	-	TT3301	51	\$10,820.00
SPARE RADIO 2217 B28B	-	TT3305	51	\$6,580.00

Power 6135:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6135 OUTDOOR ENCL 3SECTOR, BB6620, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3261	51	\$48,120.00

Indoor Configurations (DC):

RBS6201:

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6620 INDOOR -48VDC 3SECTOR, 3RRU BC28A, 40W, 2X2 MIMO 5+5 MHZ	-	TT3264	51	\$43,790.00

If a 19" track is needed, the following 2.35 ft. rack (in height) can be used. Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
RACK FRAME 19, BASIC KIT WALL, 16U	-	DDN2447	51	\$120.00

Indoor Configuration (AC):

RBS6201

Order Quantity 1 per site:

Description	Full Description	Nomenclature	APC	Price
6101 OUTDOOR -48VDC 3SECTOR, BB5212, 3RRU BC28B, 40W, 2X2 MIMO 5+5 MHZ	-	TT3255	51	\$48,020.00

Description	Full Description	Nomenclature	APC	Price
PREPARE OUTDOOR AC 1BAY ENODEB FOR	-	DDN2665	51	\$570.00

FEATURE SELECTION:

Description	Full Description	Nomenclature	APC	Price
INTEGRATED IP SECURITY	-	TT05618AA	51	\$450.00

License to Increment Radio Power by 20W

Order Quantity 1 per RRU:

All the following features or VPs are priced per sector and per 20MHz carrier (order Quantity 1 per RRU):

Support for IP Security:

Description	Full Description	Nomenclature	APC	Price
IPSEC ENABLE AND LICENSE	-	TT05615AA	51	\$154.00

VoLTE Performance Package:

Description	Full Description	Nomenclature	APC	Price
VOLTE PERFORMANCE LICENSE, PER ENODE B SECTOR	-	TT2840	51	\$320.00

Support for CS Fallback:

Description	Full Description	Nomenclature	APC	Price
CS FALLBACK	-	TT3093	51	\$130.00

Support for High Load Handling:

Description	Full Description	Nomenclature	APC	Price
HIGH LOAD HANDLING	-	TT3092	51	\$620.00

Support for Coordinated Multi-Point Transmission (CoMP):

Description	Full Description	Nomenclature	APC	Price
4 X 2 DOWNLINK MIMO	-	TT3095	51	\$500.00

Quad Antenna Support 4-Way Receiver Diversity:

Description	Full Description	Nomenclature	APC	Price
LICENSE, 4 WAY RECEIVE DIVERSITY	-	TT2763	51	\$1,000.00

Support for Shared Networks:

Description	Full Description	Nomenclature	APC	Price
SHARED NETWORKS	-	TT3096	51	\$3,440.00

Support for Secure OAM and Security Logging:

Support for Large eNodeB, starting with the 7th cell and beyond:

Support for Multi-Carrier Load Management:

Description	Full Description	Nomenclature	APC	Price
MULTICARRIER LOAD MANAGEMENT	-	TT3094	51	\$750.00

Support for Combined Cell:

Support for Carrier Aggregation:

Support for Extended Cell Range 15-30 KM:

Description	Full Description	Nomenclature	APC	Price
EXTENDED CELL RANGE FROM 15 TO 30 KM	-	DDN2042	51	\$540.00

Support for Maximum Cell Range up to 100 km:

EXTERNAL ALARM REQUIREMENTS:

Description	Full Description	Nomenclature	APC	Price
SAU - SUPPORT ALARM UNIT KIT (8 ALARMS) INCLUDING OVP KIT	-	DDN1431	51	\$90.00
SAU KIT, DF-OVP V3, 10M (32 ALARMS)	-	DDN1434	51	\$130.00

eNodeB Battery Backup

RBS6101:

BBU6101. Order Quantity 1 per site.

Description	Full Description	Nomenclature	APC	Price
BBU 6101	-	DDN2456	51	\$9,500.00

One string possible for BBU6101 from the below. Order Quantity 1 of either 100 Ah or 180 Ah per site.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00
BATTERY KIT 180AH	-	DDN2466	51	\$2,380.00

In-cabinet battery for RBS6101. Order Quantity 1 per site:

One string possible for In-cabinet battery for RBS6101. Order Quantity 1 per site.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00

BBS6101

Description	Full Description	Nomenclature	APC	Price
BBS 6101	-	DDN2454	51	\$9,580.00

Up to three strings possible from the below for BBS6101. Order Quantity 1-3 based on the number of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00
BATTERY KIT 180AH	-	DDN2466	51	\$2,380.00

Power 6135

BBS05 with ground mounting kit

Description	Full Description	Nomenclature	APC	Price
BBS05	-	DDN2460	51	\$2,560.00

Up to two strings possible from the below for BBS05. Order Quantity 1-2 based on the # of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00

RBS6301:

Description	Full Description	Nomenclature	APC	Price
BBS 6301	-	DDN2458	51	\$7,090.00

Up to one string possible from the below for BBS6301. Order Quantity 1, based on the number of strings.

Description	Full Description	Nomenclature	APC	Price
BATTERY KIT 100AH	-	DDN2465	51	\$1,510.00

Wall mount kit option. Order Quantity 1 per site, depending on mounting option selected for RBS6301.

Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT REAR FOR RBS 6301 AND BBS 6301	-	DDN2401	51	\$640.00

Ground base frame option. Order Quantity 1 per site, depending on mounting option selected for RBS6301.

Description	Full Description	Nomenclature	APC	Price
GENERIC BASE FRAME FOR RBS 6301 AND	-	DDN2402	51	\$400.00

Site Ancillary for Public Safety LTE

CABLES:

1/2" Jumper Cable

Description	Full Description	Nomenclature	APC	Price
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 3 M	4.3-10(m)-4.3-10 (m), 3 m	DDN2418	51	\$20.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 5 M	4.3-10(m)-4.3-10 (m), 5 m	DDN2440	51	\$30.00
1/2" JUMPER CABLE, 4.3-10(M)-4.3-10(M), 10 M	4.3-10(m)-4.3-10 (m), 10 m	DDN2441	51	\$50.00

Configuration

Remote Electrical Tilt (RET) Control Cable:

RET cable on the RET enabled antenna and RRU side.

Order Quantity 1 per RRU.

Description	Full Description	Nomenclature	APC	Price
RET CONTROL CABLE , BLACK 1.0 M TTO	1 m	DDN2412	51	\$30.00
RET CONTROL CABLE , BLACK 2.0 M TTO	2 m	DDN2413	51	\$30.00
RET CONTROL CABLE , BLACK 3.0 M TTO	3 m	DDN2414	51	\$30.00
RET CONTROL CABLE , BLACK 5.0 M TTO	5 m	DDN2415	51	\$40.00
RET CONTROL CABLE , BLACK 15.0 M TT	15 m	DDN2416	51	\$70.00

Optical Cable:

Optical cable between BB and RRUs, order Quantity 1 per RRU.

Description	Full Description	Nomenclature	APC	Price
2F LC(FULLAXS)-LC SM, 5 M	5 m	DDN2387	51	\$50.00
2F LC(FULLAXS)-LC SM, 10 M	10 m	DDN2388	51	\$70.00
2F LC(FULLAXS)-LC SM, 20 M	20 m	DDN2389	51	\$80.00
2F LC(FULLAXS)-LC SM, 30 M	30 m	DDN2390	51	\$100.00
2F LC(FULLAXS)-LC SM, 50 M	50 m	DDN2391	51	\$140.00
2F LC(FULLAXS)-LC SM, 70 M	70 m	DDN2392	51	\$170.00
2F LC(FULLAXS)-LC SM, 100 M	100 m	DDN2393	51	\$151.00
2F LC(FULLAXS)-LC SM, 150 M	150 m	DDN2394	51	\$310.00
2F LC(FULLAXS)-LC SM, 200 M	200 m	DDN2395	51	\$390.00
2F LC(FULLAXS)-LC SM, 250 M	250 m	DDN2396	51	\$470.00
2F LC(FULLAXS)-LC SM, 300 M	300 m	DDN2397	51	\$550.00
2F LC(FULLAXS)-LC SM, 500 M	500 m	DDN2398	51	\$890.00

DC Power Cable:

The 2-wire power cable between RBS and RRUs, typical assumption bay be 50m per radio, total length spooled across all eNBs:

Description	Full Description	Nomenclature	APC	Price
100M DC POWER CABLE, 2X10 MM2, SUP	100 m	DDN2373	51	\$653.00
300M DC POWER CABLE, 2X10 MM2, SUPP	300 m	DDN2374	51	\$1,870.00
500M DC POWER CABLE, 2X10 MM2, SUPP	500 m	DDN2378	51	\$2,800.00

Weatherproofing for connectors:

The suggested quantity is 1 per 2T2R radio or 2 per 2T4R or 4T4R RRU:

Description	Full Description	Nomenclature	APC	Price
WK-U, UNIVERSAL WEATHERPROOFING KIT	WK-U, UNIVERSAL WEATHERPROOFING KIT	DSWKU	351	\$43.50

Rail mounting. Review with RAN PdM dependency on the radio dimensions in the RBS configurations for ordering the quantity per RRU.

Description	Full Description	Nomenclature	APC	Price
RAIL 180MM	180 mm	DDN2365	51	\$20.00
RAIL 300MM	300 mm	DDN2366	51	\$30.00
RAIL 450MM	450 mm	DDN2367	51	\$40.00
RAIL 1100MM	1100 mm	DDN2436	51	\$110.00

Location Services

Models

Description	Full Description	Nomenclature	APC	Price
CONVERGED SERVICES/APP CENTRAL CLIENT	-	T8080	63	\$0.00
LOCATION SERVICES CLIENT LICENSE	-	T8326	63	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100 LICENSES	-	UA00324AA	63	\$4,900.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00328AA	63	\$80,000.00
ADD: LOCATION CLIENT LEX 755 LIC	-	UA00126AA	63	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00334AA	63	\$1,800,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00330AA	63	\$255,000.00
ADD: LOC CLIENT WINDOWS LIC	-	CA02614AA	63	\$0.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00327AA	63	\$43,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 250 LICENSES	-	UA00325AA	63	\$11,750.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00326AA	63	\$22,500.00
ADD: LOCATION SERVICES CLIENT - 1 LICENSE	-	UA00322AA	63	\$53.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00332AA	63	\$650,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00329AA	63	\$185,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00333AA	63	\$1,100,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00331AA	63	\$300,000.00
ADD: LOCATION SERVICES CLIENT - BUNDLE OF 10 LICENSES	-	UA00323AA	63	\$500.00

Presence Services

	Ordering Guide
Add: Presence Services Client - 1 License	Please order T8327A, followed by UA00335AA.
Add: Presence Services Client - 10 License	Please order T8327A, followed by UA00336AA.
Add: Presence Services Client - 100 License	Please order T8327A, followed by UA00337AA.
Add: Presence Services Client - 250 License	Please order T8327A, followed by UA00338AA.
Add: Presence Services Client - 500 License	Please order T8327A, followed by UA00339AA.
Add: Presence Services Client - 1,000 License	Please order T8327A, followed by UA00340AA.
Add: Presence Services Client - 2,000 License	Please order T8327A, followed by UA00341AA.
Add: Presence Services Client - 5,000 License	Please order T8327A, followed by UA00342AA.
Add: Presence Services Client - 7,500 License	Please order T8327A, followed by UA00343AA.
Add: Presence Services Client - 10,000 License	Please order T8327A, followed by UA00344AA.
Add: Presence Services Client - 25,000 License	Please order T8327A, followed by UA00345AA.
Add: Presence Services Client - 50,000 License	Please order T8327A, followed by UA00346AA.
Add: Presence Services Client - 100,000 License	Please order T8327A, followed by UA00347AA.

Configuration

Description	Full Description	Nomenclature	APC	Price
PRESENCE SERVICES CLIENT LICENSE	-	T8327	63	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 100,000 LICENSES	-	UA00347AA	63	\$1,800,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 5,000 LICENSES	-	UA00342AA	63	\$185,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 10,000 LICENSES	-	UA00344AA	63	\$300,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 7,500 LICENSES	-	UA00343AA	63	\$255,000.00
ADD: PRESENCE SERVICES CLIENT - 1 LICENSE	-	UA00335AA	63	\$53.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 1,000 LICENSES	-	UA00340AA	63	\$43,000.00
ADD: PRESENCE CLIENT LEX 755 LIC	-	UA00127AA	63	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 50,000 LICENSES	-	UA00346AA	63	\$1,100,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 25,000 LICENSES	-	UA00345AA	63	\$650,000.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 500 LICENSES	-	UA00339AA	63	\$22,500.00
ADD: PRE CLIENT WINDOWS LIC	-	CA02602AA	63	\$0.00
ADD: PRESENCE SERVICES CLIENT - BUNDLE OF 2,000 LICENSES	-	UA00341AA	63	\$80,000.00

PRIORITY MANAGER

Description	Full Description	Nomenclature	APC	Price
Priority Management Super Model	-	SQM01SUM0245	63	\$0.00
PM User License Intervals	-	T7884	63	\$0.00
PM R9 TO R11 SOFTWARE UPGRADE KIT	-	T8412	63	\$2,780.00
PM R11.X TO R11.3 SOFTWARE UPGRADE KIT	-	T8522	63	\$0.00

Options				
Description	Full Description	Nomenclature	APC	Price
ADD: PM SINGLE SERVER OPTION	-	CA02230AB	63	\$28,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 500 CAPACITY	-	UA00361AA	63	\$158,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 1000 CAPACITY	-	UA00362AA	63	\$174,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 5000 CAPACITY	-	UA00363AA	63	\$254,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 10,000 CAPACITY	-	UA00364AA	63	\$314,000.00
ADD: PRIORITY MANAGER TIER 1 WITH 25,000 CAPACITY	-	UA00365AA	63	\$506,800.00
ADD: PRIORITY MANAGER TIER 1 WITH 50,000 CAPACITY	-	UA00366AA	63	\$784,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00367AA	63	\$1,297,800.00
ADD: PRIORITY MANAGER TIER 2 WITH 500 CAPACITY	-	UA00368AA	63	\$79,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 1000 CAPACITY	-	UA00369AA	63	\$87,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 5000 CAPACITY	-	UA00370AA	63	\$127,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 10,000 CAPACITY	-	UA00371AA	63	\$157,000.00
ADD: PRIORITY MANAGER TIER 2 WITH 25,000 CAPACITY	-	UA00372AA	63	\$253,400.00
ADD: PRIORITY MANAGER TIER 2 WITH 50,000 CAPACITY	-	UA00373AA	63	\$392,100.00
ADD: PRIORITY MANAGER TIER 2 WITH 100,000 CAPACITY	-	UA00374AA	63	\$649,000.00
ADD: PRIORITY MANAGER TIER 1 LOCAL REDUNDANCY	-	UA00375AA	63	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 LOCAL REDUNDANCY	-	UA00376AA	63	\$15,000.00
ADD: PRIORITY MANAGER TIER 1 GEO-REDUNDANCY	-	UA00377AA	63	\$30,000.00
ADD: PRIORITY MANAGER TIER 2 GEO-REDUNDANCY	-	UA00378AA	63	\$15,000.00
ADD: PRIORITY MGMT TIER-1 USER LICENSES 500	-	UA00200AA	63	\$17,600.00
ADD: Priority Mgmt Tier-1 User Licenses 1K	-	UA00025AA	63	\$25,920.00
ADD: Priority Mgmt Tier-1 User Licenses 5K	-	UA00026AA	63	\$123,200.00
ADD: Priority Mgmt Tier-1 User Licenses 10K	-	UA00027AA	63	\$189,200.00
ADD: Priority Mgmt Tier-1 User Licenses 25K (5 x 5K Packs)	-	UA00028AA	63	\$401,280.00
ADD: Priority Mgmt Tier-1 User Licenses 50K (10 x 5K Packs)	-	UA00029AA	63	\$706,310.00
ADD: Priority Mgmt Tier-1 User Licenses 100K (20 x 5K Packs)	-	UA00201AA	63	\$1,271,380.00
ADD: PRIORITY MGMT TIER-2 USER LICENSES 500	-	UA00202AA	63	\$8,800.00
ADD: Priority Mgmt Tier-2 User Licenses 1K	-	UA00030AA	63	\$17,600.00
ADD: Priority Mgmt Tier-2 User Licenses 5K	-	UA00031AA	63	\$61,600.00
ADD: Priority Mgmt Tier-2 User Licenses 10K	-	UA00032AA	63	\$94,600.00
ADD: Priority Mgmt Tier-2 User Licenses 25K (5 x 5K Packs)	-	UA00033AA	63	\$200,640.00
ADD: Priority Mgmt Tier-2 User Licenses 50K (5 x 10K Packs)	-	UA00034AA	63	\$353,210.00
ADD: Priority Mgmt Tier-2 User Licenses 100K (10 x 10K Packs)	Accessories	UA00203AA	63	\$635,800.00

Accessories				
Description	Full Description	Nomenclature	APC	Price
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00
24 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2838	55	\$9,470.00
48 PORT SWITCH BUNDLE - AC POWER (CORE LICENSE)	-	TT2839	55	\$11,460.00
24 PORT SWITCH BUNDLE - DC PO	-	TT2846	55	\$7,380.00
48 PORT SWITCH BUNDLE - DC PO	FRUs / FREs for Hardware	TT2847	55	\$9,360.00

FRUs / FREs for Hardware				
FRUs for Hardware (HP DL380):				
Description	Full Description	Nomenclature	APC	Price
FRU: DL380-GX 1.2TB 6G SAS 10KSPF HDD	Hard Drive for ISSI/Dynamic Transcoder Server (DLN6976)	DLN6983	56	\$1,414.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00

FREs for Hardware (HP DL380):				
Description	Full Description	Nomenclature	APC	Price
FRE: DL380 G9 HC NO DISK	High Capacity UNC server	DLN6974	877	\$23,405.00

**QUANTAR®
Software and Hardware FLASHport® Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE & HARDWARE UPGRADE KIT	-	SQM01SUM0130	509	\$0.00

Options				
Current System Types				
Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKED UPGRADE	-	CA00134AA	729	\$0.00
ENH: CONVENTIONAL UPGRADE	-	X788AA	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AA	729	\$0.00

Software Refresh				
Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	-	X795AF	729	\$1,200.00

System Software				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL ASTRO CAI UPGRADE	For Conventional Analog(X597) migrating to Conventional ASTRO CAI.	X806AY	729	\$1,782.00
ENH: 6809 TRUNKING ASTRO CAI UPGRADE	REQUIRED --One Cable Option (X244, X337, X338, X339)	X900AD	729	\$1,250.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AH	729	\$1,200.00
ADD: 6.X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRES: --ONE Cable Option(X244, X337, X338, X339)	X897AE	729	\$1,961.00
ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: INTELLIREPEATER OPERATION	-	X999AH	729	\$3,768.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED --One Cable Option (X148, X149, X150, X844, X841, X145, X146, X147)	X898AE	729	\$5,793.00
ADD: CONV/6809 TO P25 TRUNKING UPG	-	X422AA	729	\$4,350.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable (X244, X337, X338 or X339)	X997AG	729	\$1,200.00

Control Board				
Description	Full Description	Nomenclature	APC	Price
ENH: EPIC BOARD ALREADY IN USE	Conventional/6809 Trunked Stations built after 3/95 and IntelliRepeater Stations built after 5/95	X793	509	\$0.00
ADD: INTELLIREPEATER EPIC CONTROL BOARD	-	X792AB	195	\$3,200.00
ADD: CONVENTIONAL/6809 TRUNKING EPIC BOARD	-	X791AB	729	\$2,000.00
ADD: CONTROL BOARD UPGRADE TO P25 TRUNKING	REQUIRES X591(Site Repeater) Contains Exciter Firmware	CA00255AA	509	\$3,200.00

DLAN Cables				
Ethernet Cables				
Description	Full Description	Nomenclature	APC	Price
ADD: 2' ETHERNET CABLE UPGRD	-	X844	729	\$70.00
ADD: 6' ETHERNET CABLE UPGRD	-	X841	729	\$120.00
ADD: 10' ETHERNET CABLE UPGRD	-	X145	729	\$170.00
ADD: 25' ETHERNET CABLE UPGRD	-	X146	729	\$200.00

Feature Enhancement(s)				
Description	Full Description	Nomenclature	APC	Price
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not compatible with ASTRO capabilities	CA57AC	729	\$100.00
ENH: 8 WIRE WIRELINE INTERFACE CAPABILITY UPGRADE	-	X144AH	729	\$200.00
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	-	C115AA	729	\$700.00
ENH: FALLBACK IN CABINET REPEAT UPGRADE	-	U764AC	729	\$200.00
ENH: MAIN STANDBY OPERATION UPGRADE	-	C753AA	729	\$350.00

Description	Full Description	Nomenclature	APC	Price
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operatio	C101AE	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AD	729	\$300.00
ENH: BASIC WILDCARD UPGRADE		X233AA	729	\$400.00
ENH: ANALOG SIMULCAST UPGRADE	Requires Conventional Analog or 6809 Analog Trunking Operation.	X777AC	729	\$600.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupled and 8 which are transistors) and 10 outputs (4 which are relay closures and 6 which are transistor closure to ground). Not compatible with X233. Requires 8 wire Wireline board (Option X797).	X157AC	729	\$800.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations: user selects one or the other with the RSS:	X286AB	729	\$400.00
ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AE	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	When ordered with Quantar Receivers, adds Password Protection Capability to standard Remote RSS feature. Requires a Wireline with modem at both ends. Standard Remote RSS feature allows the use of RSS from a remote location.	X288AE	729	\$200.00
ENH: SPECTRA-TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation. Requires that station be equipped with a 4 wire or 8 wire Wireline.	X269AD	729	\$254.00
ADD: NON-MATRIXED INTERCONNECT	Not compatible with X873 or X932. Requires IntelliRepeater Operation. Includes Phone interconnect board (PIB) module.	X122	195	\$2,000.00

Hardware				
Description	Full Description	Nomenclature	APC	Price
ADD: IR SITE TERMTN HDW UPRGRD	-	X843	195	\$25.00

Trunking Cables				
Wireline Options				
Description	Full Description	Nomenclature	APC	Price
ENH: WIRELINE BOARD IN USE	Conventional, 6809 Trunked, amd IntelliRepeater stations built after 9/15/96.	U438	729	\$0.00
ADD: 4 WIRE WIRELINE BOARD	-	X216AG	729	\$1,000.00
ADD: 8 WIRE WIRELINE BOARD	-	X797AB	729	\$1,300.00
ADD: V.24 WIRELINE INTERFACE	-	X889AF	729	\$500.00

Accessories				
Firmware				
Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

**QUANTAR®
SOFTWARE Only FLASHport® Upgrades**

Models				
Description	Full Description	Nomenclature	APC	Price
SOFTWARE UPGRADE KIT	-	T6693	509	\$0.00

Options				
Current System Types				
Description	Full Description	Nomenclature	APC	Price
ENH: CONVENTIONAL UPGRADE	-	X788AB	729	\$0.00
ENH: 6809 TRUNKED UPGRADE	-	CA00134AB	729	\$0.00
ENH: INTELLIREPEATER UPGRADE	-	CA00135AB	729	\$0.00
ADD: ASTRO 25 SITE REPEATER UPG	-	X418	729	\$0.00

Software Refresh				
Description	Full Description	Nomenclature	APC	Price
ENH: LATEST SHIPPING SOFTWARE	Provides latest version of conventional software, with no feature upgrades. See below for available feature upgrades. This option CANNOT be ordered with any System Software or Feature Enhancements.	X795AG	729	\$1,200.00

System Software				
Description	Full Description	Nomenclature	APC	Price
ENH: 6809 TRUNKING ASTRO CAI UPGRADE	REQUIRED --One Cable FRU (DKN6112, DKN6113, DKN6114, DKN6115)	X900AE	729	\$1,250.00
ENH: SMARTZONE ASTRO CAI INTELLIREPEATER UPGRADE	REQUIRED --One Cable FRU's (DKN6103, DKN6104, DKN6105, DKN6106, DKN6107, DKN6108, DKN6109, DKN6110)	X898AF	729	\$5,793.00
ENH: SMARTZONE 6809 ASTRO CAI UPGRADE	REQUIRED: --One Cable FRU's (DKN6112, DKN6113, DKN6114, DKN6115)	X897AF	729	\$1,961.00
ENH: CONVENTIONAL ANALOG OPERATION	-	X597AJ	729	\$1,200.00
ADD: 6.X MULTI SITE UPGRADE	-	CA00025AE	195	\$1,200.00
ADD: ASTRO25 SITE REPEATER UPGRADE	Migration from 6.0 to 6.1 systems REQUIRES new EPIC board CA00255 and CA00135. NOT compatible with QUANTRO stations.	X591AB	729	\$1,200.00
ENH: CONVENTIONAL ASTRO CAI UPGRADE	-	X806AZ	729	\$1,782.00
ENH: 6809 TRUNKING CAPABILITY UPGRADE	REQUIRED 1 Cable FRU (DKN6112, DKN6113, DKN6114 or DKN6115)	X997AH	729	\$1,200.00

Feature Enhancement(s)				
Description	Full Description	Nomenclature	APC	Price
ENH: DC REMOTE CONTROL UPGRADE	Requires Conventional Analog Operation	C101AF	729	\$100.00
ENH: FAST KEY UP UPGRADE	Allows Quantar stations to be keyed up by an external device (i.e. Data Controller) in approximately 12 milliseconds for Quantar VHF or 10 milliseconds for all other stations. De-key time on all Quantar stations is 30 milliseconds. Limits station to single channel operation	U453AE	729	\$300.00
ENH: MAIN STANDBY OPERATION UPGRADE	Provides Console TRC control, external closure or hot switchover. Requires Conventional Analog Operation.	C753AB	729	\$350.00
ENH: LIMITED ANALOG PRIORITY SCAN UPGRADE	Allows the station to be programmed for analog scan. This option works in analog mode only. It does not include Analog Priority Re-Check capability. Not compatible with ASTRO Operation.	C457AD	729	\$100.00
ENH: CONSOLE PRIORITY INTERFACE CAPABILITY UPGRADE	REQUIRED --6809 Trunking Operation (X997) --8 Wire Wireline Interface Module (FRU CLN1296)to also provide for Centralized Telephone Interconnect (CTI) capability	C115AB	729	\$700.00
ENH: FALLBACK IN CABINET REPEAT UPGRADE	-	U764AD	729	\$200.00
ENH: ANALOG SIMULCAST UPGRADE	-	X777AD	729	\$600.00
ENH: GPS SIMULCAST UPGRADE	Requires ASTRO Operation.	X888AF	729	\$1,000.00
ENH: REMOTE RSS CAPABILITY	-	X288AF	729	\$200.00
ENH: SPECTRA-TAC/DIGITAC/ASTRO-TAC CAPABILITY UPGRADE	Requires Conventional or 6809 Trunking Operation (X597 or X997). Requires station be equipped with 4 wire or 8 wire Wireline Board (CLN1295 or CLN1296).	X269AE	729	\$254.00
ENH: BASIC WILDCARD UPGRADE	-	X233AB	729	\$400.00
ENH: MULTI PL CAPABILITY UPGRADE	Provides two modes of operations: user selects one or the other with the RSS:	X286AC	729	\$400.00
ENH: ENHANCED WILDCARD UPGRADE	Offers additional states and commands than the Basic Wildcard feature. Provides capability for up to 12 inputs (4 which are optocoupler and 8 which are transistors) and 10 outputs (4 which are relay closures and 6 which are transistor closure to ground). Not compatible with X233 or X84. Requires 8 wire Wireline Board (FRU CLN1296).	X157AD	729	\$800.00

Accessories				
DLAN Cables				
Description	Full Description	Nomenclature	APC	Price
FRU: 10' DLAN CABLE	-	DKN6103	729	\$170.00
FRU: 25' DLAN CABLE	-	DKN6104	729	\$200.00
FRU: 50' DLAN CABLE	-	DKN6105	729	\$245.00

Ethernet Cables				
Description	Full Description	Nomenclature	APC	Price
FRU: 2' ETHERNET CABLE	-	DKN6110	729	\$70.00
FRU: 6' ETHERNET CABLE	-	DKN6109	729	\$120.00
FRU: 10' ETHERNET CABLE	-	DKN6106	454	\$170.00
FRU: 25' ETHERNET CABLE	-	DKN6107	454	\$200.00
FRU: 50' ETHERNET CABLE	-	DKN6108	729	\$245.00

Ethernet Kits/FTP Kits				
Description	Full Description	Nomenclature	APC	Price
FRU: IR SITE TERMINATION HW	-	DKN6111	729	\$25.00

Firmware				
Description	Full Description	Nomenclature	APC	Price
FRU: EXCITER FIRMWARE	Provides exciter version EX_020.09.018 or later	DLN1289A	729	\$25.00

Trunking Cables				
Description	Full Description	Nomenclature	APC	Price

FRU: 25' TRUNKING CABLE	-	DKN6112	729	\$50.00
FRU: 50' TRUNKING CABLE	-	DKN6113	729	\$87.00
FRU: 75' TRUNKING CABLE	-	DKN6114	729	\$124.00

**Access Solutions
RAD**

Models

Description	Full Description	Nomenclature	APC	Price
IPMUX-24 PWE, 4 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881220000	947	\$2,957.00
MEGAPLEX 2100 4U MODULAR MP, 115 VAC, RDNT 10BT MNG, P	-	DS7646220000	947	\$6,406.00
MEGAPLEX-4104 RED 90 TO 260 VAC & 95 TO 300 VDC RED DS0 CROSS CONNECT	-	DS6640310000	947	\$5,569.00
OP-106-4 T1 FIBER MUX,ST,1310 NM SM SHORT HAUL	-	DS5200200000	947	\$739.00
MEGAPLEX TDMOIP MAIN LINK WITH ECHO CANCEL OPTION	-	DS7649220000	947	\$2,834.00
SFP GIGE TWP COPPER, UP TO 100M, RJ-45 CONNECTOR (GIGE ONLY)	-	DS1278090000	947	\$241.00
SFP SM/13L FOR 1GBETH 10KM, DDM	-	DS1278310000	947	\$158.00
RM-33-2: RACK MOUNT KIT FOR ONE OR TWO UNITS	-	DS1900640000	947	\$33.00
OP-106-4 T1 & ETHERNET FIBER MUX,RED POWER,SC,1310NM SM SHORT HAUL	-	DS5200280000	947	\$1,060.00
SFP FAST ETHERNET/STM 1, 850 NM, MULTIMODE, 2 KM (1.2 MI)	-	DS1278650000	947	\$99.00
MEGAPLEX SINGLE T1 MAIN LINK MODULE WITH 1 RJ-45/T1 WAN PORT	-	DS7646230000	947	\$1,478.00
Airmux-400P 250M ODU, Connectorized ant (2x N-type), supp. 5.8 GHz FCC	-	DS3750040000	947	\$3,136.00
MEGAPLEX-4104 RED -48 VDC, RED DS0 CROSS CONNECT	-	DS6640280000	947	\$5,569.00
SFP SM 1310 NM LC CONNECTOR	-	DS1278050000	947	\$136.00
MEGAPLEX POWER SUPPLY MODULE FOR MP-2100/2104, -48 VDC	-	DS7651750000	947	\$1,478.00
SF2 Rugg SCADA & routing, -24DC, 2 GE SFP 8 FE UTP, 2 ports w/Airmux POE	-	DS6801120000	947	\$2,262.00
MEGAPLEX T1 FIBER MAIN LINK FOR MP-2100, SC CONN 1310NM LASER	-	DS7651570000	947	\$2,156.00
MEGAPLEX4 U MOD. VOICE MOD. 4 E&M AND OMNIBUS	-	DS7651360000	947	\$2,218.00
MEGAPLEX PSEUDOWIRE MODULE, 8 E1/T1 PORTS FOR MP-4100, 3 UTP PORTS	-	DS4640510000	947	\$2,710.00
MEGAPLEX 4U VOICE MODULE 16CH E&M, TYPE 2, POSITIVE VOLTAGE	-	DS7651850000	947	\$1,971.00
AIRMUX 5000HBS, BASE CONN(2X N-TYPE), MULTI FREQ 5.XGHZ, DEFAULT 5.8GHZ	-	DS6490060000	947	\$4,480.00
MEGAPLEX 8 PORT E&M CARD	-	DS7647670000	947	\$1,109.00
CBL-HSR/F 1-2 PORT SPLITTER FOR HSR/RS-232 MP LOW SPEED DATA MODULE	-	DS5010760000	947	\$44.00
AIRMUX-400 DISH ANT, 2FT, DUAL POL, GAIN 28DBI, 4.90-6.06 GHZ	-	DS5260180000	947	\$885.00
MEGAPLEX ALARM & DIAGNOSTIC MODULE	-	DS7644130000	947	\$862.00
MEGAPLEX DUAL T1 MAIN LINK	-	DS7643930000	947	\$1,971.00
DXC 3U 4-PORT T1 MODULE, BERT, LTU, LOOPBACK PER TS, FRAMED	-	DS7723310000	947	\$1,275.00
MEGAPLEX MP-4104 COMMON LOGIC 2, DS0 CROSS CONNECT ONLY	-	DS6700130000	947	\$1,848.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE	-	DS3790010000	947	\$1,792.00
RADVIEW LICENSE, 1 ENW POINT	-	DS2170360000	947	\$7.00
SF2 RUGG SCADA & ROUTING, -48DC, 2 GE SFP 8 FE UTP, 2 PORTS W/AIRMUX POE	-	DS6800280000	947	\$2,016.00
IPMUX-1E 4E&M MULTIPLEXER WITH ETHERNET PORT	-	DS1151290000	947	\$1,818.00
FCD WITH 2 SERIAL PORTS OVER T1	-	DS3900110000	947	\$728.00
IPMUX-24 PWE, 2 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881200000	947	\$2,033.00
MEGAPLEX FIBER ML-IP MAIN LINK, ST CONNECTOR, 1310 NM LASER	-	DS7649690000	947	\$3,573.00
AIRMUX CABLE TERM KIT FOR OUTDOOR CABLES, INCL 10 GLANDS & 10 RJ-45	-	DS5260190000	947	\$140.00
Airmux-400P 250M ODU, Integrated ant (2x N-type), supp. 5.8 GHz FCC	-	DS3750030000	947	\$3,360.00
MEGAPLEX 200 WATT POWER SUPPLY MODULE FOR MP-2100	-	DS7651720000	947	\$1,109.00
RICI-T1 FAST ETHERNET TO T1 W/ EXTENDED TEMPERATURE RANGE	-	DS2750050000	947	\$795.00
RM-35/P1 RACK MOUNT KIT FOR 1/2 1/9 INCH, 1 DEVICE PER SHELF	-	DS1900540000	947	\$22.00
MEGAPLEX 2100 W/ NEW COMMON LOGIC, NO ML	-	DS7646140000	947	\$3,696.00
ETX-102 2 NETWORK SFP PORTS, 4 PORT 10/100BT ETHERNET SWITCH	-	DS3770410000	947	\$647.00
MEGAPLEX-4100 8-PORT T1 MODULE, 3 UTP PORTS	-	DS4640370000	947	\$2,464.00
RM-17: RACK MOUNT KIT	-	DS1900160000	947	\$31.00
SFP GE DDM, INDUSTRIALLY HARDENED, 1610 NM, CWDM, 24 DB, BUDGET	-	DS1278830000	947	\$986.00
IPMUX-1E 4E&M MULTIPLEXER W/ ETHERNET & USER	-	DS1151220000	947	\$2,631.00
MEGAPLEX 4U MODULE, ETHERNET SWITCH, 10/100BT 4 UTP.	-	DS7649670000	947	\$1,971.00
MP-4100 T3 MODULE FOR THE MP-4	-	DS3680120000	947	\$3,696.00
RM-35 RACK MOUNT	-	DS8034260000	947	\$44.00
OP-106 4T1/ETH FIBERMUX, ST, 1310 NM, MM	-	DS5200450000	947	\$1,084.00
MEGAPLEX 16 T1 PORTS FOR MP-4100	-	DS4640610000	947	\$3,080.00
RADVIEW-PC CARRIER CLASS NETWORK MANAGEMENT SYSTEM	-	DS5760190000	947	\$9,856.00
ETX-102 1 NET PORT SM, 1310NM, 1 NULLNET SFP PORT, 4 USER 10/100 PORTS	-	DS3770430000	947	\$764.00
MEGAPLEX 4 CHANNEL PCM VOICE MODULE; E&M	-	DS7651860000	947	\$739.00
IPMUX-216 PWE 16 T1 PORTS, AC POWER, 3 FE UTP RJ-45 ETH PORTS	-	DS4901180000	947	\$7,756.00
AIRMUX DC OUTDOOR POE, 10VDC-60VDC POWER FEEDING	-	DS5261220000	947	\$353.00
MEGAPLEX 2104 5 SLOT CHASSIS - 48VDC, 1 COMMON LOGIC MODULE, & RINGER	-	DS7650730000	947	\$3,450.00
RICI-16 16 T1 PORTS, SW LICENSE FOR 16 E1/T1 LINKS RED POWER SUPPLY	-	DS2541130000	947	\$3,006.00
SFP SM, 1310NM, UP TO 15KM, LC, 100BASEFX OR STM1	-	DS1278020000	947	\$118.00
USE DS1278320000 SFP MM 850NM, UP TO 550M, LC CONN, 1000 BASE-SX	-	DS1278060000	947	\$68.00
ETX-1 ETH DEMARC SWITCH, AC, 2 EMPTY SFP SLOTS, 4 UTP PORTS, HARDENED	-	DS1960150000	947	\$924.00
MEGAPLEX 2 I/O SLOT BLANK PANEL FOR MP-2100	-	DS7645540000	947	\$18.00
MEGAPLEX 4 PORT RS-232 MEGAPLEX LOW SPEED DATA MODULE (HS-R)	-	DS7653140000	947	\$1,232.00
MEGAPLEX 16 PORT E&M CARD	-	DS7646750000	947	\$1,971.00
DXC 4 PORT COMPACT AC/DC E1/T1 GROOMING DEVICE W/DUAL POWER SUPPLIES	-	DS3790020000	947	\$1,904.00
MEGAPLEX CBL CONVERT E&M INTRFACE 68-PIN SCSI CONN TO 8XRJ-45	-	DS0000AT0002	947	\$176.00
AIRMUX POE 100BASET/GE FOR AIRMUX-5000 BASE STATION W/AC POWER	-	DS6260210000	947	\$90.00
RICI-4T1- FAST ETHERNET OVER 4 X T1 NETWORK TERMINATION UNIT	-	DS4670120000	947	\$1,404.00
MEGAPLEX 2104 E1/T1 MULTIPLEXER W/O MAIN LINK+ETH	-	DS7651140000	947	\$2,464.00
MIRICI GIGABIT ETHERNET TO E1/T1 (WAN) CONVERTER.	-	DS5130040000	947	\$828.00
SFP MM, 1310NM, UP TO 2KM, LC, 100BASEFX OR STM1	-	DS1278010000	947	\$118.00
MEGAPLEX SINGLE SLOT IO BLANK PANEL	-	DS7645530000	947	\$15.00
IPMUX-24 PWE, 1 T1 PORT, 3 10/100 UTP RJ-45 PORTS	-	DS4881190000	947	\$1,109.00
** USE DS1278180000** SFP SM, 1310NM, UP TO 40KM, LC, GBE, DDM	-	DS1278080000	947	\$355.00
IPMUX-1E 4E&M PORTS, 1-LC SM FIBER WAN PORT, 10/100BT USER ETHERNET, AC	-	DS1152030000	947	\$3,191.00
VMUX COMPRESSED VOICE GATEWAY AC POWER, 8 E&M CHANNELS	-	DS1850340000	947	\$2,710.00
OP-125 FIBER MUX, 16 T1+ETHERNET, RED POWER, ALARM, 100 MBPS ETHERNET	-	DS4010650000	947	\$1,707.00

Advanced System Key Solution (ASK)

Configuration

Advanced System Key & Accessories

Description	Full Description	Nomenclature	APC	Price
MASTER SYSTEM KEY STARTER KIT	Ships with 1 master system key DS1996L iButton, 5 blank DS1996L iButtons, 5 USB dongles. ONLY compatible with XTS/XTL 1500, 2500, 5000 and APX radios.	DVN4046B	430	\$500.00
IC, 64KBIT RAM & TIME IBUTTON	Single DS1996L iButton, used with XTS/XTL 1500, 2500, 5000 and APX radios	5184054Y03	362	\$53.25
I-BUTTONS ASK REPLACEMENT DS1996	Quantity 5 blank DS1996L iButtons, used with XTS/XTL 1500, 2500, 5000 and APX radios	DVN4316	430	\$200.00
IC, 4KBIT RAM & TIME IBUTTON	Single DS1994L iButton, used with MCS and MTS radios, Limited Availability for Legacy and Astro Spectra Subscribers	5184054Y01	362	\$42.00
IBUTTON FOR USB ADAPTOR	Quantity 5 blank DS1994L iButtons, Used for MCS and MTS radios, Limited Availability for Legacy and Astro Spectra Subscribers.	DVN4181	362	\$200.00
INTFC, SER, IC USB PORT ADPTR	Quantity 1 DS9490B USB Dongle. Compatible with DS1994L and DS1996L iButtons.	5.19E+81	280	\$47.00
ADV'D SYSTEM KEY READER REPLACEMENT	Quantity 5 DS9490B USB Dongles. Compatible with DS1994L and DS1996L iButtons.	DVN4050	362	\$400.00

800/900 MHz Receiver Multicouplers

Configuration

RFI PARTS				
Description	Full Description	Nomenclature	APC	Price
8 PORT RECEIVER MULTICOUPLER, 698-690 MHZ, -48VDC, BNC	RFI PART#: RX6996-3408-31-48B SPEC SHEET LINK: TBD	DSRX699634083148B	457	\$5,077.00
8 PORT RECEIVER MULTICOUPLER, 698-690 MHZ, 110-240VAC, BNC	RFI PART#: RX6996-3408-31-ACB SPEC SHEET LINK: TBD	DSRX6996340831ACB	457	\$5,206.00
DBSPECTRA PARTS				
Description	Full Description	Nomenclature	APC	Price
RMC06, 8 CH HIGH GAIN AMP UNIV/RMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-08CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608CA	457	\$3,624.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-08CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608CD	457	\$4,245.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-16CA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616CA	457	\$4,715.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 700-902MHZ	DBSPECTRA PART#: DSRMC06-16CD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616CD	457	\$4,945.00
RMC EXPANSION KIT, 16CH	DBSPECTRA PART#: DSRMC06-EXP SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC06EXP	457	\$690.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 796-901 MHZ, W/NO ALARM BO	DBSPECTRA PART#: DSRMC0616CAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616CAN	457	\$3,099.00
700-902 MHZ RXMC ASSEMBLY 8 CH DC	DBSPECTRA PART#: DSRMC0608CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608CDN	457	\$2,639.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 796-901 MHZ, W/NO ALA	DBSPECTRA PART#: DSRMC0616CDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616CDN	457	\$3,328.00
TXRX PARTS				
Description	Full Description	Nomenclature	APC	Price
896 901 MHZ QUAD RECEIVER MULTICOUPLER 16 PORT	TXRX PART#: 42-94C-02 SPEC SHEET LINK: TBD	DS4294C02	457	\$6,279.00
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, 110AC	TXRX PART#: 42-83J-05-08 SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzsmAIVnK84PxAkmmMYs-w09kzPBI/view?usp=sharing	DS4283J0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 796-902MHZ, UNIVERSAL SINGLE PATH, -48VDC	TXRX PART#: 42-63J-05-08-48 SPEC SHEET LINK: https://drive.google.com/file/d/1RHvzsmAIVnK84PxAkmmMYs-w09kzPBI/view?usp=sharing	DS4283J050848	457	\$4,485.00

UHF Band Receiver Multicouplers

Configuration

RFI PARTS				
Description	Full Description	Nomenclature	APC	Price
8 PORT ACTIVE QUADRATURE RECEIVER MULTICOUPLER, -48VDC, 200-550 MHZ	RFI PART#: RX3852-3408-31-48 SPEC SHEET LINK: https://www.friwireless.com.au/media/downloads/pdfs/RX3852-3408-31_P-41831-1.pdf	DSRX385234083148	457	\$3,096.00
TXRX AND COMBILENT PARTS				
Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER, 220-400 MHZ, RX, 16 PORTS, BNC CONNECTOR	TXRX PART#: 42-53-01 SPEC SHEET LINK: TBD	DS425301	457	\$4,209.00
MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR	TXRX PART#: 42-53-01-08 SPEC SHEET LINK: TBD	DS42530108	457	\$3,015.00
MULTICOUPLER, 220-400 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC	TXRX PART#: 42-53-01-08-48 SPEC SHEET LINK: TBD	DS4253010848	457	\$3,189.00
RX MULTICOUPLER, COMPACT, 380-520 MHZ, 16 PORT EMC	TXRX PART#: 42-57-01 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS425701	457	\$3,450.00
MULTICOUPLER RX COMPACT 380-520 MHZ 4 W 'N'	TXRX PART#: 42-57-01-04N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570104N	457	\$2,553.00
MULTICOUPLER RX COMPACT 380-520 MHZ	TXRX PART#: 42-57-01-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108	457	\$3,243.00
MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, BNC CONNECTOR, -48VDC	TXRX PART#: 42-57-01-08-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS4257010848	457	\$3,015.00
MULTICOUPLER RX COMPACT 380-520 MHZ 8W N	TXRX PART#: 42-57-01-08N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N	457	\$3,243.00
MULTICOUPLER, 380-512 MHZ, RX, 8 PORTS, N CONNECTOR -48VDC	TXRX PART#: 42-57-01-08N-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570108N48	457	\$3,215.00
MULTICOUPLER, 380-512 MHZ, RX, 12 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-12N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570112N	457	\$3,657.00
MULTICOUPLER, 380-512 MHZ, RX, 16 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-16N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570116N	457	\$3,947.00
MULTICOUPLER, 380-512 MHZ, RX, 24 PORTS, N CONNECTOR	TXRX PART#: 42-57-01-24N SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-57-Series.pdf	DS42570124N	457	\$5,924.00
QUAD RCVR MTCPLR 380-520 MHZ 16 PORT -48VDC	TXRX PART#: 42-57-02-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570248	457	\$4,972.00
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT	TXRX PART#: 42-57-03 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS425703	457	\$3,302.00
QUAD RX MULTICOUPLER, 380-520 MHZ 8-PORT -48 VDC	TXRX PART#: 42-57-03-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570348	457	\$3,302.00
QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT	TXRX PART#: 42-57-04 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS425704	457	\$3,039.00
QUAD RX MULTICOUPLER, 380-520 MHZ 4-PORT -48 VDC	TXRX PART#: 42-57-04-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/42-57-03.pdf	DS42570448	457	\$3,039.00
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	TXRX PART#: 42-57D-05-08 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 380-512MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	TXRX PART#: 42-57D-05-08-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC06%20Multicoupler%20Universal%20Single%20Path.pdf	DS4257D050848	457	\$4,485.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 110VAC	TXRX PART#: 42-U-05-1 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42U051	457	\$3,080.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK UHF, 48VDC	TXRX PART#: 42-U-05-1-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42U05148	457	\$3,676.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 110VAC	TXRX PART#: 42-UU-05-2 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UU052	457	\$4,485.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK UHF/UHF, 48VDC	TXRX PART#: 42-UU-05-2-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UU05248	457	\$5,083.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF 110VAC	TXRX PART#: 42-UUU-05-3 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUU053	457	\$5,884.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK UHF/UHF/UHF, 48VDC	TXRX PART#: 42-UUU-05-3-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUU05348	457	\$6,482.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF 110VAC	TXRX PART#: 42-UUUU-05-4 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUUU054	457	\$7,284.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK UHF/UHF/UHF/UHF, 48VDC	TXRX PART#: 42-UUUU-05-4-48 SPEC SHEET LINK: http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42UUUU05448	457	\$7,284.00
RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP00946 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00946	457	\$4,140.00
RMC 450 MHZ INCL. DUAL BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP00950 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_DS18826_.pdf	DSCP00950	457	\$7,360.00
RMC UHF 420 MHZ RMC 450 MHZ INCL. SINGLE BAND PRE-SELECTOR	TXRX-COMBILENT PART#: CP05444 SPEC SHEET LINK: https://www.combilent.com/fileadmin/user_upload/documents/MSI_products/RMC_UHF_Federal_DS1885_5_.pdf	DSCP05444	457	\$4,140.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
380-512MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA PART#: BCRMC08U SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/DSBCRMC08.pdf	DSBCRMC08U	457	\$6,813.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-08BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608BA	457	\$3,624.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ, NO ALARM BOARD.	DBSPECTRA PART#: DSRMC0608BAN SPEC SHEET LINK: TBD	DSDSRMC0608BAN	457	\$2,409.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-08BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608BD	457	\$4,025.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC0608BDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608BDN	457	\$2,639.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-16BA SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616BA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC0616BAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616BAN	457	\$3,099.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC06-16BD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616BD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 350-512MHZ	DBSPECTRA PART#: DSRMC0616BDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616BDN	457	\$3,329.00
380-512 MHZ, 16 CH RXMC , WITH PDU, WITH DIGITAL CURRENT METER,	DBSPECTRA PART#: DBSMCP116B41 SPEC SHEET LINK: http://www.dbspectra.com/specifications/DBSMCP_Series.pdf	DSDBSMCP116B41	457	\$5,898.00

VHF Band Receiver Multicouplers

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
138-174MHZ MURS INTEGRATED RX FILTER AND MULTICOUPLER 2RU HOUSING	DBSPECTRA # - BCRMC08V SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/DSBCRMC08.pdf	DSBCRMC08V	457	\$6,813.00
RMC06, 8 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-08AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608AA	457	\$3,624.00
RXMC ASSEMBLY, 8CH AC	DBSPECTRA # - DSRMC0608AAN SPEC SHEET LINK - www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608AAN	457	\$2,409.00
RMC06, 8 CH HIGH GAIN AMP UNIV/RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-08AD SPEC SHEET LINK: http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0608AD	457	\$4,245.00
RMC06 8 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0608ADN SPEC SHEET LINK - www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608ADN	457	\$2,639.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-16AA SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616AA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616AAN SPEC SHEET LINK - TBD	DSDSRMC0616AAN	457	\$3,099.00
RMC06, 16 CH HIGH GAIN AMP UNIV RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC06-16AD SPEC SHEET LINK - http://www.dbspectra.com/specifications/Motorola/096000-195_B_(DSBCRMC06.B).pdf	DSDSRMC0616AD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 150-174MHZ	DBSPECTRA # - DSRMC0616ADN SPEC SHEET LINK - TBD	DSDSRMC0616ADN	457	\$3,329.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-08JA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JA	457	\$3,624.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0608JAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JAN	457	\$2,409.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-08JD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JD	457	\$3,854.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0608JDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608JDN	457	\$2,639.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-08KA SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KA	457	\$3,624.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0608KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KAN	457	\$2,409.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-08KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KD	457	\$3,854.00
RMC06 08 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0608KDN SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0608KDN	457	\$2,639.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-16JA SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 118-150 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0616JAN SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JAN	457	\$3,099.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ	DBSPECTRA PART#: DSRMC06-16JD SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 118-150 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0616JDN SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616JDN	457	\$3,330.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-16KA SPEC SHEET LINK: LINK:www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KA	457	\$4,715.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, AC POWER, 217-222 MHZ W/NO ALARM BOAR	DBSPECTRA PART#: DSRMC0616KAN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KAN	457	\$3,099.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ	DBSPECTRA PART#: DSRMC06-16KD SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KD	457	\$4,945.00
RMC06 16 CH UNIVERSAL RMC SYSTEM, -48 VDC POWER, 217-222 MHZ, W/ NO ALA	DBSPECTRA PART#: DSRMC0616KDN SPEC SHEET LINK: www.dbspectra.com/specifications/DSRMC06_RX_Multicoupler_096000-195_Rev_Gta.pdf	DSDSRMC0616KDN	457	\$3,329.00

Accessories

TXRX PARTS

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER, 118-174 MHz, RX, 16 PORTS, BNC CONNECTOR	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS423301	457	\$3,450.00
MULTICOUPLER RX COMPACT 118-174MHZ 4W 'N'	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330104N	457	\$2,553.00
MULTICPLR RX COMPACT 118-174 MHZ	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108	457	\$3,243.00
MULTICPLR RX COMPACT 118-174MHZ 8W 'N'	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N	457	\$3,243.00
MULTICPLR RX COMPACT 118-174 MHz 8W 'N' CONN 220 VAC	TXRX # - SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330108N220	457	\$3,284.00
RECEIVER MULTICOUPLER 118-174 MHz 12 N PORTS	TXRX # - 42-33-01-12N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330112N	457	\$3,657.00
MULTICOUPLER, 118-174 MHz, RX, 16 PORTS, N CONNECTOR	TXRX # - 42-33-01-16N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330116N	457	\$3,915.00
MULTICOUPLER, 118-174 MHz, RX, 24 PORTS, N CONNECTOR	TXRX # - 42-33-01-24N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/Multicouplers-Compact-Receiver-42-33-Series.pdf	DS42330124N	457	\$5,430.00
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 110AC	TXRX # - 42-36C-05-08 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS4236C0508	457	\$4,140.00
RECEIVE MULTICOUPLER, 135-175MHZ, UNIVERSAL HIGH GAIN AMP, 48VDC	TXRX # - 42-36C-05-08-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS4236C050848	457	\$4,485.00
16 PORT QUADRATURE VHF RX MULTICOUPLER DECK	TXRX # - 42-38-02 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423802	457	\$5,179.00
MULT RX 132-174MHZ 16 W 48 VDC	TXRX # - 42-38-02-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42380248	457	\$5,179.00
MULTI RX 132-174 MHz 16 W QUAD MOT -48VDC REDUNDANT SUPPLY	TXRX # - 42-38-02-48R SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42380248R	457	\$5,320.00

MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423803	457	\$4,208.00
MULTI RX 132-174 MHZ 8 W QUAD MOT	TXRX # - 42-38-03N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423803N	457	\$4,693.00
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423804	457	\$4,041.00
MULTI RX 132-174 MHZ 4 W QUAD MOT -48 VDC	TXRX # - 42-38-04-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42380448	457	\$4,041.00
MULTI RX 132-174 MHZ 8 W QUAD MOT -48 VDC	TXRX # - 42-38-03-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42380348	457	\$4,208.00
MULTI RX 132-174 MHZ 4 W QUAD MOT	TXRX # - 42-38-04N SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS423804N	457	\$4,052.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 110VAC	TXRX # - 42-V-05-1 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42V051	457	\$3,191.00
RECEIVE MULTICOUPLER, SINGLE PATH NETWORK VHF, 48VDC	TXRX # - 42-V-05-1-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42V05148	457	\$3,787.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 110VAC	TXRX # - 42-VV-05-2 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42V052	457	\$4,706.00
RECEIVE MULTICOUPLER, DUAL PATH NETWORK VHF/VHF, 48VDC	TXRX # - 42-VV-05-2-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42V05248	457	\$5,303.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF 110VAC	TXRX # - 42-VVV-05-3 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VV053	457	\$6,216.00
RECEIVE MULTICOUPLER, TRIPLE PATH NETWORK VHF/VHF/VHF, 48VDC	TXRX # - 42-VVV-05-3-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VV05348	457	\$6,813.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF 110VAC	TXRX # - 42-VVVV-05-4 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVV054	457	\$7,725.00
RECEIVE MULTICOUPLER, QUAD PATH NETWORK VHF/VHF/VHF/VHF, 48VDC	TXRX # - 42-VVVV-05-4-48 SPEC SHEET LINK - http://btgmotorola.securespsites.com/Rx%20Multicouplers/RMC07%20Datasheet.pdf	DS42VVV05448	457	\$8,323.00
RECEIVE MULTICOUPLER, 8 PORT EXPANSION KIT	TXRX PART#: 42-05-05-08-EXP SPEC SHEET LINK: https://drive.google.com/file/d/1RHzvzMAItVnK84PxAkmmYs-w09zkPB/view?usp=sharing	DS42050508EXP	457	\$1,537.00

RF POWER MONITOR

COMBIENT PARTS

Description	Full Description	Nomenclature	APC	Price
FREQUENCY SELECTICE DPM UHF	COMBIENT - TXRX PART#: CP01109 SPEC SHEET LINK: https://www.combielent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01109	457	\$3,450.00
FREQUENCY SELECTICE DPM 7/800 MHZ	COMBIENT - TXRX PART#: CP01110 SPEC SHEET LINK: https://www.combielent.com/fileadmin/user_upload/documents/MSI_products/DS19788-1B.pdf	DSCP01110	457	\$3,450.00

RFI PARTS

Description	Full Description	Nomenclature	APC	Price
ADVANCED POWER MONITOR, 132-174 MHZ, 36-60 V DC (INC SINGLE COUPLER)	RFI PART#: APM1317-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K248	457	\$5,253.00
ADVANCED POWER MONITOR, 132-174 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM1317-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K2AC	457	\$6,171.00
ADVANCED POWER MONITOR, 380-520 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2	457	\$5,870.00
ADVANCED POWER MONITOR, 380-520 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART # APM3852-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248	351	\$5,870.00
ADVANCED POWER MONITOR, 746-870 MHZ, 9-36 VDC	RFI PART #: APM7487-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2	351	\$5,870.00
ADVANCED POWER MONITOR, 746-870 MHZ, 36-60 VDC	RFI PART # APM7487-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248	351	\$5,870.00
ADVANCED POWER MONITOR, 740-870 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM7487-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 380-520 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM3852-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K2AC	351	\$6,000.00
ADVANCED POWER MONITOR, 870-960 MHZ, 36-60V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K248 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248	351	\$5,870.00
ADVANCED POWER MONITOR, 870-960 MHZ, 90-246V AC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2AC	351	\$6,000.00
UPLOADER SOFTWARE LICENSE FOR APM, SINGLE PC, 2 YEARS	RFI PART#: RUP-001 SPEC SHEET LINK: TBD	DSRUP001	457	\$1,150.00
RECEIVE SYSTEMS MONITOR, 36-60VDC	RFI PART#: RSM0000-48 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 48VDC APMs	DSRSM000048	351	\$1,742.00
ADVANCED POWER MONITOR, 870-960 MHZ, 9-36V DC (INC SINGLE COUPLER)	RFI PART#: APM8796-K2 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K2	351	\$5,870.00
ANT LINE COUPLER 380-550MHZ 40DB 4-PORTS SUIT APM3852 SERUES 750W 1 RU	RFI PART#: SP3855-4440-DF11R SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSPP38554440DF11R	351	\$805.00
ANT LINE COUPLER 130-180MHZ 40DB 4-PORTS SUIT APM1317 SERIES 750W 1RU	RFI PART#: SP1318-2440-DF11R SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSPP13182440DF11R	351	\$1,156.00
RECEIVE SYSTEMS MONITOR, 9-36VDC	RFI PART #: RSM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/RSM0000-XX_ASM_P-42487-1.pdf NOTES: USED WITH 110VAC & 12VDC APMs	DSRSM0000	351	\$1,742.00
SITE ALARM MODULE, TEMPERATURE SENSOR, -67 TO +257 DEGREES F	RFI PART#: SAM0000-TS SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000TS	351	\$117.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 9-36VDC	RFI PART#: SAM0000 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/SAM0000-APM-Product-Brief.pdf	DSSAM0000	351	\$3,547.00
ANT LINE COUPLER 740-960MHZ 40DB 4-PORTS SUIT APM748 AND APM8796	RFI PART#: SP7496-4440-DF11R SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSPP74964440DF11R	351	\$706.00
ADVANCED POWER MONITOR 132-174MHZ 36-60VDC/110-240VAC	RFI PART#: APM1317-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM1317K248AC	457	\$6,171.00
ADVANCED POWER MONITOR 380-520MHZ 36-60VDC/110-240VAC	RFI PART#: APM3852-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM3852K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 740-870MHZ 36-60VDC/110-240VAC	RFI PART#: APM7487-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM7487K248AC	351	\$6,000.00
ADVANCED POWER MONITOR 870-960MHZ 36-60VDC/110-240VAC	RFI PART#: APM8796-K248AC SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSAPM8796K248AC	351	\$6,000.00
SITE ALARM MODULE, PTT ACTIVATED 10 CHAN, 4 EXT ALARM INPUTS, 36-60VDC	RFI PART#: SAM0000-48 \ SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/10/APM-41323-1-Advanced-Power-Monitor.pdf	DSSAM000048	351	\$3,546.00
DIRECTIONAL COUPLER, 698-2700MHZ, 10DB, 3 PORTS, PIM RATED, N CONNECTO	DBSPECTRA PART#: SP6927-2310-11 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927231011	457	\$151.00
DIRECTIONAL COUPLER, 698-2700MHZ, 20DB, 3 PORTS, PIM RATED, N CONNECT	DBSPECTRA PART#: SP6927-2320-11 SPEC SHEET LINK: https://www.rfwireless.com.au/media/downloads/pdfs/SP6927-23xx-11_P-42390-1.pdf	DSSP6927232011	457	\$153.00
ANTENNA SYSTEM,POWER SUPPLY	RFI PART#: APM0000USAC SPEC SHEET LINK: TBD	DSAPM0000USAC	351	\$189.00

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ADFAC	457	\$3,623.00
138-174 MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ADFDC	457	\$3,623.00
138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DBSPECTRA PART#: DSXPM5A-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ANFAC	457	\$3,508.00
138-174MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5A-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5ANFDC	457	\$3,623.00
UHF POWER MONITOR (AC MODEL) BIDIRECTIONAL, 350 - 512 MHZ, 2 RU PANEL	DPSPECTRA PART#: DSXPM5B-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BDFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BDFDC	457	\$3,623.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5B-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BNFAC	457	\$3,508.00
350-512MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DBSPECTRA PART#: DSXPM5B-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5BNFDC	457	\$3,623.00

746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5C-DFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CDFAC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT DIN F/F CONNECTORS, DC	DPSPECTRA PART#: DSXPM5C-DFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CDFDC	457	\$3,623.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, AC	DPSPECTRA PART#: DSXPM5C-NFAC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CNFAC	457	\$3,508.00
746-960MHZ POWER MONITOR, 0-500 WATT N F/F CONNECTORS, DC	DPSPECTRA PART#: DSXPM5C-NFDC SPEC SHEET LINK: www.dbspectra.com/specifications/096000-298_A_DSXPM_Power_Monitor_1.9.18.pdf	DSDSXPM5CNFDC	457	\$3,623.00
138-150 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA1DDC	457	\$3,623.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMA2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DAC	457	\$3,508.00
150-174 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMA2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMA2DDC	457	\$3,623.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DAC	457	\$3,508.00
380-430 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB1DDC	457	\$3,623.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DAC	457	\$3,508.00
430-470 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB2DDC	457	\$3,623.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMB3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DAC	457	\$3,508.00
470-512 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMB3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMB3DDC	457	\$3,623.00
763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC1DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DAC	457	\$3,508.00
763-776 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC1DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC1DDC	457	\$3,623.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC2DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DAC	457	\$3,508.00
851-869 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC2DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC2DDC	457	\$3,623.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, AC	DBSPECTRA PART#: DSCHPMC3DAC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DAC	457	\$3,508.00
935-941 MHZ, 0-600W SMART CHANNELIZED POWER MONITOR, 7/16 DIN, DC	DBSPECTRA PART#: DSCHPMC3DDC SPEC SHEET LINK: www.dbspectra.com/specifications/DSCHPM_Smart_Channelized_Power_Monitor.pdf	DSDSCHPMC3DDC	457	\$3,623.00

RF 1-1/4" CABLES AND ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650A	DSEC650A	351	\$10.25
COAXIAL CABLE, "A" SERIES 1-1/4" 50 OHM CORRUGATED COPPER	EUPEN PART NUMBER: EC650AHLFR	DSEC650AHLFR	351	\$12.75
EUPEN 1-1/4" CABLE CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC6-50-A	EUPEN PART#: 4.3-10F50V114N1 SPEC SHEET LINK: https://drive.google.com/open?id=1mCNrdu2nFddKcCq_VxjDG6C3nee8a3z	DS4310F50V114N1	351	\$117.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V114N1	DS716F50V114N1	351	\$114.00
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V114N1	DS716M50V114N1	351	\$115.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NF50V114N1	DSNF50V114N1	351	\$124.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC6-50-A	EUPEN PART#: NM50V114M	DSNM50V114M	351	\$109.00
EUPEN 1-1/4" CABLE TOOLS AND TORQUE WRENCHES				
Description	Full Description	Nomenclature	APC	Price
1 1/4" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F114	DSF114	351	\$640.00
TORQUE WRENCH FOR BACK NUT 1 1/4" CONNECTORS	EUPEN PART#: TQ11116F29	DSTQ11116F29	351	\$270.00
GROUND KIT PREP TOOL FOR 1 1/4" FOAM COAX CABLE	EUPEN PART#: GKTEC6	DSGKTEC6	351	\$270.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ347	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TK-114	DSTK114	351	\$1,060.00
1 1/4" MINI KIT				
EUPEN 1-1/4" CABLE ACCESSORIES				
Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1 1/4" CABLE, EACH	EUPEN PART#: BA-114-1A	DSBA1141A	351	\$35.50
BARREL CUSHION, UNIVERSAL FOR 1-1/4" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U114	DSBCU114	351	\$55.00
BH-114 BUTTERFLY HANGER FOR 1-1/4 AIRCELL COAX,PKG OF 10	EUPEN PART#: BH-114	DSBH114	351	\$54.50
HANGER CLAMP BLOCKS FOR 1-1/4", KIT OF 10	EUPEN PART#: CB-A114	DSBA114	351	\$35.00
CLIP ON GROUND KIT FOR 1 1/4" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO H	EUPEN PART#: GK-C114	DSGKC114	351	\$35.00
STANDARD GROUND KIT FOR 1 1/4" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO	EUPEN PART#: GK-S114	DSGKS114	351	\$31.50
HG-114, LACE-UP GRIP FOR 1-1/4 COAX	EUPEN PART#: HG-114	DSHG114	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	EUPEN PART#: HG-114L	DSHG114L	351	\$74.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1 1/4" CABLE , EACH	EUPEN PART#: SC-114-1	DSSC1141	351	\$8.10
STACKABLE SNAP-IN HANGER FOR 11N AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S114	DSSSH114	351	\$66.00
SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U114	DSSHU114	351	\$52.00
TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CABLES				
Description	Full Description	Nomenclature	APC	Price
AT114J50, 1-1/4" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT114J50	DSAT114J50	351	\$10.00
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114FX50	DSAT114FX50	351	\$8.55
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114FV50	DSAT114FV50	351	\$8.95
1-1/4" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT114R50	DSAT114R50	351	\$9.75
AR114J50, 1-1/4" RADIATING, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AR114J50	DSAR114J50	351	\$17.75
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114FX50	DSAR114FX50	351	\$16.25
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AR114FV50	DSAR114FV50	351	\$18.25
1-1/4" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR114R50	DSAR114R50	351	\$20.25
1-1/4" RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR114FV50-2C	DSAR114FV502C	351	\$19.00
TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM CONNECTORS				
Description	Full Description	Nomenclature	APC	Price
SITE EQUIPMENT, NMA11450, N MALE FOR 1-1/4"	TRILOGY PART#: NMA11450	DSNMA11450	351	\$202.00
NFA11450, N FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: NFA11450	DSNFA11450	351	\$201.00
DMA11450, 7/16 DIN MALE FOR 1-1/4" CABLE	TRILOGY PART#: DMA11450	DSDMA11450	351	\$202.00
DFA11450, 7/16 DIN FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: DFA11450	DSDFA11450	351	\$201.00
4.3-10 FEMALE FOR 1-1/4" CABLE	TRILOGY PART#: 43FA11450 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/43FA11450-Spec.pdf	DS43FA11450	351	\$247.00
4.3-10 MALE FOR 1-1/4" CABLE	TRILOGY PART#: 43MA11450 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/43MA11450-Spec.pdf	DS43MA11450	351	\$215.00
TRILOGY 1-1/4" 50 OHM AND RADIATING 50 OHM TOOLS				
Description	Full Description	Nomenclature	APC	Price
CT11450P, POWER PREP TOOL FOR 1-1/4" CABLE	TRILOGY PART#: CT11450P	DSC11450P	351	\$798.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114/158RB/3PK	DSC114158RB3PK	351	\$420.00

RF 1/2" CABLES AND ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC450	DSEC450	351	\$3.15
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450PL	DSEC450PL	351	\$3.10

COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC450HLFR	DSEC450HLFR	351	\$4.15
COAXIAL CABLE, 1/2" HIFLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC450HF	DSEC450HF	351	\$3.65
COAXIAL CABLE, 1/2" HIFLEX, 50 OHM CORRUGATED COPPER	EUPEN PART#: EC450HFFLFR	DSEC450HFFLFR	351	\$3.80
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC4-50-PL-BLK	DSEC450PLBLK	183	\$4.25
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC4-50-PL-BLU	DSEC450PLBLU	183	\$4.25
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC4-50-PL-RED	DSEC450PLRED	183	\$4.35
COAXIAL CABLE, 1/2" 50 OHM CORRUGATED COPPER WITH PLENUM RATED JACKET,	EUPEN PART#: EC4-50-PL-WHT	DSEC450PLWHT	183	\$4.25

EUPEN 1/2" STANDARD AND HI-FLEX CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50	EUPEN PART#: 716F50V12N1	DS716F50V12N1	351	\$25.50
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50	EUPEN PART#: 716M50V12N1	DS716M50V12N1	351	\$25.50
CONNECTOR, N FEMALE INTERFACE FOR EC4-50	EUPEN PART#: NF50V12	DSNF50V12	351	\$28.00
CONNECTOR, N MALE INTERFACE FOR EC4-50	EUPEN PART#: NM50V12	DSNM50V12	351	\$24.50
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC4-50	EUPEN PART#: 4310F50V12N1	DS4310F50V12N1	351	\$27.00
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50	EUPEN PART#: 4310M50V12N1	DS4310M50V12N1	351	\$27.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: 716M50VL12	DS716M50VL12	351	\$49.50
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50	EUPEN PART#: NM50VL12	DSNM50VL12	351	\$44.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716F50B12X	DS716F50B12X	351	\$39.00
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50B12X	DS716M50B12X	351	\$39.00
CONNECTOR, N FEMALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NF50B12X	DSNF50B12X	351	\$43.00
CONNECTOR, N MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: NM50B12X	DSNM50B12X	351	\$43.00
CONNECTOR, 4.3-10 MALE INTERFACE FOR EC4-50-HF	EUPEN PART#: 4310M50B12X	DS4310M50B12X	351	\$39.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: 716M50BL12X	DS716M50BL12X	351	\$52.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC4-50-HF	EUPEN PART#: NM50BL12X	DSNM50BL12X	351	\$52.00

EUPEN 1/2" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/2" STANDARD CONNECTORS	EUPEN PART#: SPTC50AV12	DSSTC50AV12	351	\$290.00
CONNECTORS PREP TOOL FOR 1/2" STANDARD CONNECTORS, PLENUM CABLE	EUPEN PART#: SPTC50AV12F	DSSTC50AV12F	351	\$540.00
TORQUE WRENCH BACK NUT 1/2" STANDARD AND HIFLEX CONNECTORS	EUPEN PART#: TQ34F20	DSSTQ34F20	351	\$220.00
GROUND KIT PREP TOOL FOR 1/2" STANDARD FOAM COAX CABLE	EUPEN PART#: GKTEC4	DSGKTEC4	351	\$230.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

EUPEN 1/2" ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-1A	DSBA121A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 2 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-2A	DSBA122A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 3 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-3A	DSBA123A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 4 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-4A	DSBA124A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 5 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE, EA	EUPEN PART#: BA-12-5A	DSBA125A	351	\$35.50
BARREL CUSHION, UNIVERSAL FOR 1/2" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U12	DSBCU12	351	\$21.50
BH-12 BUTTERFLY HANGER FOR 1/2 AIRCELL COAX PKG OF 10	EUPEN PART#: BH-12	DSBH12	351	\$54.50
HANGER CLAMP BLOCKS FOR 1/2", KIT OF 10	EUPEN PART#: CB-A12	DSCBA12	351	\$15.00
CLIP ON GROUND KIT FOR 1/2" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HOL	EUPEN PART#: GK-C12	DSGKC12	351	\$32.50
STANDARD GROUND KIT FOR 1/2" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HO	EUPEN PART#: GK-S12	DSGKS12	351	\$30.00
HG-12, LACE-UP GRIP FOR 1/2 COAX	EUPEN PART#: HG-12	DSHG12	351	\$49.00
PRE-LACED HOISTING GRIP FOR 1/2" STANDARD CABLES, EACH	EUPEN PART#: HG-12L	DSHG12L	351	\$23.00
STANDARD PORT CUSHION W/ 1 HOLE FOR 1/2 AIRCELL COAX	EUPEN PART#: SC-12-1	DSSC121	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 1/2 AIRCELL COAX	EUPEN PART#: SC-12-2	DSSC122	351	\$11.25
STANDARD PORT CUSHION W/ 3 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-3	DSSC123	351	\$8.10
STANDARD PORT CUSHION W/ 4 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-4	DSSC124	351	\$8.10
STANDARD PORT CUSHION W/ 5 HOLE FOR 1/2" STANDARD AND HI-FLEX CABLE ,	EUPEN PART#: SC-12-5	DSSC125	351	\$8.10
STACKABLE SNAP-IN HANGER FOR 1/IN AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S12	DSSH12	351	\$66.00
SH-U12, UNIV SNAP HANGER 1/2 ,PKG10	EUPEN PART#: SH-U12	DSSHU12	351	\$52.00
CONNECTOR PREP TOOL FOR 1/2" HIFLEX RIGHT ANGLE CONNECTORS	EUPEN PART#: SPTC50BL12X	DSSTC50BL12X	351	\$250.00

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CABLES

Description	Full Description	Nomenclature	APC	Price
AT012J50, 1/2" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT012J50	DSAT012J50	351	\$2.15
AT012J50, 1/2IN TRANSMISSION LINE, 50OHM, FIRE RETARDANT PER FT	TRILOGY PART#: AT012FX50	DSAT012FX50	351	\$2.45
1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012FV50	DSAT012FV50	351	\$1.90
1/2 TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETAR	TRILOGY PART#: AT012R50	DSAT012R50	351	\$2.00
AP6012J50, 1/2" PLENUM, 50OHM, CORRUG (GGHZ), JCKTED UL-910, CATVP PER FT	TRILOGY PART#: AP6012J50	DSAP6012J50	183	\$3.50
1/2" RED PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP,	TRILOGY PART#: AP6012J50-RD	DSAP6012J50RD	183	\$3.30
1/2" BLUE PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP,	TRILOGY PART#: AP6012J50-BU	DSAP6012J50BU	351	\$3.75
1/2" GRAY PLENUM, 50 OHM, CORRUGATED (6 GHZ), JACKETED CMP	TRILOGY PART#: AP6012J50-GY	DSAP6012J50GY	351	\$3.75
AR012J50, 1/2 RADIATING, PER FT	TRILOGY PART#: AR012J50	DSAR012J50	183	\$5.45
1/2IN RED PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED	TRILOGY PART#: APC012J50-RD	DSAPC012J50RD	183	\$5.50
1/2IN PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP	TRILOGY PART#: APC012J50	DSAPC012J50	183	\$4.00
AQ012J50, 1/2 PLENUM RAD, PER FT	TRILOGY PART#: AQ012J50	DSAQ012J50	183	\$4.70
1/2 PLENUM RADIATING, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#: ACQ012J50	DSACQ012J50	351	\$13.00
AP012U50, 1/2" CONDUIT CABLE, 50OHM, CORRUGATED, UL-444 PER FT	TRILOGY PART#: AP012U50	DSAP012U50	351	\$3.50
1/2" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR012FX50	DSAR012FX50	351	\$7.40
1/2IN RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JA	TRILOGY PART#: AR012R50	DSAR012R50	183	\$9.65
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, BLACK POLYETHYLENE JACKET	TRILOGY PART#: AC012J50	DSAC012J50	351	\$2.95
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: ACC012R50	DSACC012R50	351	\$3.70
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR	TRILOGY PART#: ACC012J50	DSACC012J50	351	\$4.25
1/2 IN-CONDUIT, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW-SMOKE	TRILOGY PART#: ACC012R50	DSACC012R50	351	\$4.90

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT CONNECTORS

Description	Full Description	Nomenclature	APC	Price
N MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NMA01250B	DSNMA01250B	351	\$35.25
N FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: NFA01250B	DSNFA01250B	351	\$35.25
7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DMA01250B	DSDMA01250B	351	\$35.25
4.3-10 FEMALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43FA01250B SPEC SHEET LINK: http://www.trilogyrf.com/wp-content/uploads/2018/12/43FA01250B-Spec.pdf	DS43FA01250B	351	\$39.00
7/16 DIN FEMALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)	TRILOGY PART#: DFFA01250B	DSDF01250B	351	\$35.25
4.3-10 MALE FOR 1/2" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2)	TRILOGY PART#: 43MA01250B	DS43MA01250B	351	\$39.00
4.3-10 MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: 43MP01250-PIM	DS43MP01250PIM	351	\$40.00
4.3-10 FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: 43FP01250-PIM	DS43FP01250PIM	351	\$40.00
4.3-10 MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: 43MPR01250-PIM	DS43MPR01250PIM	351	\$62.00
DMP01250, DIN MALE FOR 1/2" CABLE	TRILOGY PART#: DMP01250	DSMP01250	351	\$36.25
DIN MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DSDMP01250-PIM	DSMP01250PIM	351	\$38.50
DFF01250, DIN FEMALE FOR 1/2" CABLE	TRILOGY PART#: DFF01250	DSDF01250	351	\$36.00
DIN FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DSDFF01250-PIM	DSFF01250PIM	351	\$38.50
DMPR01250, 1/2" DIN MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: DMPR01250	DSMPR01250	351	\$57.00
DIN MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: DSDMPR01250-PIM	DSMPR01250PIM	351	\$60.50
NMP01250, N MALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NMP01250	DSNMP01250	351	\$36.00
N MALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DSNMP01250-PIM	DSNMP01250PIM	351	\$38.50
NMPR01250, 1/2" N MALE RIGHT ANGLE CONNECTOR FOR PLENUM CABLE	TRILOGY PART#: NMPR01250	DSNMPR01250	351	\$57.00
N MALE RIGHT ANGLE, PLENUM & IN-CONDUIT FOR 1/2" CABLE	TRILOGY PART#: DSNMPR01250-PIM	DSNMPR01250PIM	351	\$60.50
NFP01250, N FEMALE, PLENUM FOR 1/2" CABLE	TRILOGY PART#: NFP01250	DSNFP01250	351	\$36.00
N FEMALE, PLENUM & IN-CONDUIT FOR 1/2" CABLE, OPTIMIZED FOR PIM	TRILOGY PART#: DSNFP01250-PIM	DSNFP01250PIM	351	\$38.50

TRILOGY 1/2" 50 OHM, PLENUM 50 OHM, PLENUM RADIATING 50 OHM, AND CONDUIT TOOLS AND WRENCHES

Description	Full Description	Nomenclature	APC	Price
CT01250AIO-2, PREP TOOL FOR 1/2" CABLE, 50 OHM	TRILOGY PART#: CT01250AIO-2	DSCCT01250AIO2	351	\$561.00
PREP TOOL FOR 1/2" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT01250AIO	DSCCT01250AIO	351	\$476.00

REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIO2RB3PK	DSCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIORB2PK	DSCTAIORB2PK	351	\$42.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRILOGY PART#: W-CU	DSWCU	351	\$231.00

RF 1/4" CABLES AND ACCESSORIES

EUPEN 1/4" STANDARD AND HI-FLEX CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 1/4" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC150	DSEC150	351	\$2.60
COAXIAL CABLE, 1/4" HIFLEX, 50 OHM WITH BLACK PE JACKET	EUPEN PART#: EC150HF	DSEC150HF	351	\$2.70

EUPEN 1/4" STANDARD AND HI-FLEX CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, N FEMALE INTERFACE FOR EC1-50	EUPEN PART#: NF50V14	DSNF50V14	351	\$24.25
CONNECTOR, N MALE INTERFACE FOR EC1-50	EUPEN PART#: NM50V14	DSNM50V14	351	\$24.25
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50B14X	DS716M50B14X	351	\$34.25
CONNECTOR, N FEMALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NF50B14X	DSNF50B14X	351	\$28.00
CONNECTOR, N MALE INTERFACE FOR EC1-50-HF	EUPEN PART#: NM50B14X	DSNM50B14X	351	\$31.00
CONNECTOR, 7/16 DIN MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: 716M50BL14X	DS716M50BL14X	351	\$46.00
CONNECTOR, N MALE RIGHT ANGLE INTERFACE FOR EC1-50-HF	EUPEN PART#: NM50BL14X	DSNM50BL14X	351	\$49.00

EUPEN 1/4" STANDARD AND HI-FLEX CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
CONNECTOR PREP TOOL FOR 1/4" STANDARD CONNECTORS	EUPEN PART#: SPTC50AV14	DSSPTC50AV14	351	\$220.00
CONNECTOR PREP TOOL FOR 1/4" HIFLEX CONNECTORS	EUPEN PART#: SPTC50B14X	DSSPTC50B14X	351	\$220.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

TRILOGY 1/4" CABLE PARTS

Description	Full Description	Nomenclature	APC	Price
1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, LOW S	TRILOGY PART#: ACC014J50 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/ACC014J50-Spec.pdf	DSACC014J50	351	\$2.75
1/4" PLENUM, 50 OHM, CORRUGATED, COPPER OUTER CONDUCTOR, JACKETED CMP,	TRILOGY PART#: APC014J50 SPEC SHEET LINK: https://www.trilogyrf.com/wp-content/uploads/2020/04/ACC014J50-Spec.pdf	DSAPC014J50	351	\$5.75

TRILOGY 1/4" CABLE CONNECTOR PARTS

Description	Full Description	Nomenclature	APC	Price
N FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NFA01450	DSNFA01450	351	\$26.00
N MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMA01450	DSNMA01450	351	\$26.00
CONNECTOR 4.3-10 FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: 43FA01450	DS43FA01450	351	\$31.00
CONNECTOR 4.3-10 MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: 43MA01450	DS43MA01450	351	\$31.00
CONNECTOR 7/16 DIN FEMALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: DFA01450	DSDF01450	351	\$28.25
CONNECTOR 7/16 DIN MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: DMA01450	DSDMA01450	351	\$31.00
CONNECTOR QMA MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: QMA01450	DSQMA01450	351	\$26.00
CONNECTOR TNC MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: TNA01450	DSNA01450	351	\$26.00
CONNECTOR BNC MALE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: BNA01450	DSBNA01450	351	\$26.00
CONNECTOR MINI UHF FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: MUA01450	DSMUA01450	351	\$26.00

TRILOGY 1/4" CABLE ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
N FEMALE BULKHEAD FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NFB01450	DSNFB01450	351	\$27.25
N MALE RIGHT ANGLE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMR01450	DSNMR01450	351	\$38.75

RF 1-5/8" CABLES AND ACCESSORIES

EUPEN 1-5/8" CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750A	DSEC750A	351	\$11.25
COAXIAL CABLE, "A" SERIES 1-5/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC750AHLFR	DSEC750AHLFR	351	\$14.00

EUPEN 1-5/8" CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC7-50-A	EUPEN PART#: 4.3-10F50V158N1	DS4310F50V158N1	351	\$145.00
CONNECTOR, 7/16 DIN FEMALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716F50V158N1	DS716F50V158N1	351	\$142.00
CONNECTOR, 7/16 DIN MALE INTERFACE WITH CAPTIVATED CENTER PIN	EUPEN PART#: 716M50V158N1	DS716M50V158N1	351	\$142.00
CONNECTOR, N FEMALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NF50V158N1	DSNF50V158N1	351	\$151.00
CONNECTOR, N MALE INTERFACE WITH CAPTIVATED CENTER PIN FOR EC7-50-A	EUPEN PART#: NM50V158N1	DSNM50V158N1	351	\$136.00

EUPEN 1-5/8" TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
1 5/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F158	DSF158	351	\$640.00
TORQUE WRENCH FOR BACK NUT 1 5/8" CONNECTORS	EUPEN PART#: TQ214F37	DSTQ214F37	351	\$270.00
GROUND KIT PREP TOOL FOR 1 5/8" FOAM COAX CABLE	EUPEN PART#: GKTEC7	DSGKTEC7	351	\$300.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00
1 5/8" MINI KIT	EUPEN PART#: TK-158	DSTK158	351	\$1,080.00

EUPEN 1-5/8" CABLE ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 1 5/8" CABLE, EACH	EUPEN PART#: BA-158-1A	DSBA1581A	351	\$35.50
BARREL CUSHION, UNIVERSAL FOR 1-5/8" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U158	DSBCU158	351	\$38.00
BH-158 BUTTERFLY HANGER FOR 1-5/8" AIRCELL COAX.PKG OF 10	EUPEN PART#: BH-158	DSBH158	351	\$54.50
HANGER CLAMP BLOCKS FOR 1-5/8", KIT OF 10	EUPEN PART#: CBA158	DESCBA158	351	\$32.50
CLIP ON GROUND KIT FOR 1 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO H	EUPEN PART#: GK-C158	DSGKC158	351	\$33.00
STANDARD GROUND KIT FOR 1 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO	EUPEN PART#: GK-S158	DSGKS158	351	\$21.00
HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	EUPEN PART#: HG-158	DSHG158	351	\$26.00
PRE-LACED HOISTING GRIP FOR 1-5/8" AIRCELL COAX	EUPEN PART#: HG-158L	DSHG158L	351	\$74.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1-5/8" AIRCELL COAX	EUPEN PART#: SC-158	DSSC1581	351	\$11.25
STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S158	DSHSH158	351	\$66.00
SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U158	DSSHU158	351	\$52.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CABLES

Description	Full Description	Nomenclature	APC	Price
AT158J50, 1-5/8" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE, JCKT PER FT	TRILOGY PART#: AT158J50	DSAT158J50	351	\$12.75
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158FX50	DSAT158FX50	351	\$11.00
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158FV50	DSAT158FV50	351	\$11.50
1-5/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT158R50	DSAT158R50	351	\$12.50
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FX50	DSAR158FX50	351	\$23.75
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158FV50	DSAR158FV50	351	\$26.50
1-5/8" RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR158FV50-1B	DSAR158FV501B	351	\$27.25
1-5/8" RADIATING, 50 OHM, 150 -1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR158FV50-1C	DSAR158FV501C	351	\$27.25
1-5/8" RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT J	TRILOGY PART#: AR158R50	DSAR158R50	351	\$29.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
NFA15850, N FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: NFA15850	DSNFA15850	351	\$221.00
DMA15850, 7/16 DIN MALE FOR 1-5/8" CABLE	TRILOGY PART#: DMA15850	DSDMA15850	351	\$220.00
DFA15850, 7/16 DIN FEMALE FOR 1-5/8" CABLE	TRILOGY PART#: DFA15850	DSDFA15850	351	\$252.00
4.3-10 FEMALE FOR 1-5/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT15850P)	TRILOGY PART#: 43FA15850B SPEC SHEET LINK: TBD	DS43FA15850B	351	\$234.00

TRILOGY 1-5/8" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT15850P, POWER PREP TOOL FOR 1-5/8 INCH CABLE	TRILOGY PART#: CT15850P	DSCCT15850P	351	\$1,036.00
REPLACEMENT BLADES FOR 1 1/4"-1 5/8" PREP TOOLS CT (3 BLADES OF CB214)	TRILOGY PART#: CT114/158RB/3PK	DSCCT114158RB3PK	351	\$420.00

RF 5/8" CABLES AND ACCESSORIES

EUPEN 5/8" CABLES

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, 5/8" 50 OHM CORRUGATED COPPER WITH BLACK PE JACKET	EUPEN PART#: EC4550	DSEC4550	351	\$5.60

EUPEN 5/8" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, N FEMALE INTERFACE FOR EC4.5-50	EUPEN PART#: NF50V58	DSNF50V58	351	\$53.00
CONNECTOR, N MALE INTERFACE FOR EC4.5-50	EUPEN PART#: NM50V58	DSNM50V58	351	\$52.25

EUPEN 5/8" TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
5/8" CABLE PREP TOOL	EUPEN PART#: SPTC50AV58	DSSPTC50AV58	351	\$540.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

EUPEN 5/8" ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
BH-58 BUTTERFLY HANGER FOR 5/8 AIRCELL COAX.PKG OF 10	EUPEN PART#: BH-58	DSBH58	351	\$54.50
CLIP ON GROUND KIT FOR 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HOL	EUPEN PART#: GK-C58	DSGKC58	351	\$30.25
STANDARD GROUND KIT FOR 5/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HO	EUPEN PART#: GK-S58	DSGKS58	351	\$37.50
HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	EUPEN PART#: HG-58L	DSHG58L	351	\$67.25
PRE-LACED HOISTING GRIP FOR 5/8" CABLES, EACH	EUPEN PART#: HG-58L	DSHG58L	351	\$24.00
STANDARD PORT CUSHION W/ 1 HOLE FOR 5/8 AIRCELL COAX	EUPEN PART#: SC-58-1	DSSC581	351	\$11.25
STANDARD PORT CUSHION W/ 3 HOLE FOR 5/8" CABLE , EACH	EUPEN PART#: SC-58-3	DSSC583	351	\$8.10
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U58	DSSHU58	351	\$52.00

RF 7/8" CABLES AND ACCESSORIES

EUPEN 7/8" CABLES

PRICE IS PER FOOT

Description	Full Description	Nomenclature	APC	Price
COAXIAL CABLE, "A" SERIES 7/8 IN 50 OHM CORRUGATED COPPER W/ BLACK PE	EUPEN PART#: EC550A	DSEC550A	351	\$5.60
COAXIAL CABLE, "A" SERIES 7/8" 50 OHM CORRUGATED COPPER	EUPEN PART#: EC550AHLFR	DSEC550AHLFR	351	\$7.20

EUPEN 7/8" CABLE CONNECTORS

Description	Full Description	Nomenclature	APC	Price
CONNECTOR, 7/16 DIN FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716F50V78N1	DS716F50V78N1	351	\$36.00
CONNECTOR, 7/16 DIN MALE INTERFACE FOR EC5-50-A	EUPEN PART#: 716M50V78N1	DS716M50V78N1	351	\$36.00
CONNECTOR, N FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: NFN50V78N1	DSNF50V78N1	351	\$38.00
CONNECTOR, N MALE INTERFACE FOR EC5-50-A	EUPEN PART#: NNM50V78N1	DSNM50V78N1	351	\$34.75
CONNECTOR, 4.3-10 FEMALE INTERFACE FOR EC5-50-A	EUPEN PART#: 4310F50V78N1	DS4310F50V78N1	351	\$38.25

EUPEN 7/8" CABLE TOOLS AND TORQUE WRENCHES

Description	Full Description	Nomenclature	APC	Price
7/8" DRILL MOUNTED CABLE PREP TOOL	EUPEN PART#: F78	DSF78	351	\$640.00
TORQUE WRENCH FOR BACK NUT 7/8" CONNECTORS	EUPEN PART#: TQ30MMF22	DSTQ30MMF22	351	\$220.00
GROUND KIT PREP TOOL FOR 7/8" FOAM COAX CABLE	EUPEN PART#: GKTEC5	DSGKTEC5	351	\$240.00
7/16 DIN TORQUE WRENCH	EUPEN PART#: TQ114F18M	DSTQ114F18M	351	\$220.00
N COUPLER TORQUE WRENCH	EUPEN PART#: TQ34F7	DSTQ34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TQ78F6	DSTQ78F6	351	\$220.00

EUPEN 7/8" CABLE ACCESSORIES

Description	Full Description	Nomenclature	APC	Price
4" BOOT ASSEMBLY KIT W/ 1 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-1A	DSBA781A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 2 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-2A	DSBA782A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 3 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-3A	DSBA783A	351	\$35.50
4" BOOT ASSEMBLY KIT W/ 4 HOLE FOR 7/8" CABLE, EACH	EUPEN PART#: BA-78-4A	DSBA784A	351	\$35.50
BARREL CUSHION, UNIVERSAL FOR 7/8" HANGER, CABLE RANGE 14MM - 25MM,	EUPEN PART#: BC-U78	DSBCU78	351	\$24.00
BH-78 BUTTERFLY HANGER FOR 7/8 AIRCELL COAX.PKG OF 10	EUPEN PART#: BH-78	DSBH78	351	\$54.50
HANGER CLAMP BLOCKS FOR 7/8", KIT OF 10	EUPEN PART#: CB-A78	DSCBA78	351	\$17.00
CLIP ON GROUND KIT FOR 7/8" CABLES, 5' LEAD W/ UNATTACHED 3/8" TWO HOL	EUPEN PART#: GK-C78	DSGKC78	351	\$32.00
HG-78, LACE-UP GRIP FOR 7/8 COAX	EUPEN PART#: HG-78	DSHG78	351	\$67.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 7/8 AIRCELL COAX	EUPEN PART#: SC-78-1	DSSC781	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 7/8" CABLE , EACH	EUPEN PART#: SC-78-2	DSSC782	351	\$8.10
STANDARD PORT CUSHION W/ 3 HOLE FOR 7/8" CABLE , EACH	EUPEN PART#: SC-78-3	DSSC783	351	\$8.10
STANDARD PORT CUSHION W/ 4 HOLE FOR 7/8" CABLE , EACH	EUPEN PART#: SC-78-4	DSSC784	351	\$8.10
STACKABLE SNAP-IN HANGER FOR 7/8" AIRCELL COAX (PACKAGE OF 10)	EUPEN PART#: SH-S78	DSSH78	351	\$66.00
SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	EUPEN PART#: SH-U78	DSSHU78	351	\$52.00

TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM CABLES

PRICE IS PER FOOT

Description	Full Description	Nomenclature	APC	Price
7/8" TRANSMISSION LINE, 50 OHM, UNJACKETED	TRILOGY PART#: AT078J50	DSAT078J50	351	\$4.20
AT078J50, 7/8" TRANSMISSION LINE, 50OHM, BLACK POLYETHYLENE JCKT PER FT	TRILOGY PART#: AT078J50	DSAT078J50	351	\$5.20
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078FV50	DSAT078FV50	351	\$4.40
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078FV50	DSAT078FV50	351	\$4.65
7/8" TRANSMISSION LINE, 50 OHM, LOW-SMOKE, NON-HALOGENATED	TRILOGY PART#: AT078R50	DSAT078R50	351	\$5.05
AR078J50, 7/8 RADIATING, PER FT	TRILOGY PART#: AR078J50	DSAR078J50	183	\$10.75
TRANSMISSION LINE 7/8IN RADIATING, 50 OHM, LOW-SMOKE, FIRE RETARDANT J	TRILOGY PART#: AR078FV50	DSAR078FV50	183	\$11.25
7/8 RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JAC	TRILOGY PART#: AR078FV50	DSAR078FV50	351	\$11.00
7/8IN RADIATING, 50 OHM, LOW-SMOKE, NON-HALOGENATED, FIRE RETARDANT JA	TRILOGY PART#: AR078R50	DSAR078R50	183	\$12.50
7/8 RADIATING, 50 OHM, 150 - 2700 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR078FV50-3B	DSAR078FV503B	351	\$11.75
7/8 RADIATING, 50 OHM, 150 - 1000 MHZ, LOW-SMOKE, NON-HALOGENATED,	TRILOGY PART#: AR078FV50-3C	DSAR078FV503C	351	\$11.75

TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM CONNECTORS

Description	Full Description	Nomenclature	APC	Price
4.3-10 FEMALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT01250AIO-2	TRILOGY PART#: 43FA01250B	DS43FA01250B	351	\$39.00
N MALE FOR 7/8" CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: NMA07850B	DSNMA07850B	351	\$50.25
N FEMALE FOR 7/8" CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: NFA07850B	DSNFA07850B	351	\$50.25
7/16 DIN MALE FOR 7/8" CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: DMA07850B	DSDMA07850B	351	\$50.25
7/16 DIN FEMALE FOR 7/8" CABLE (USE WITH CT07850AIO-2)	TRILOGY PART#: DSDFA07850B	DSDF07850B	351	\$50.25
4.3-10 MALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2)	TRILOGY PART#: 43MA07850B	DS43MA07850B	351	\$57.25
4.3-10 FEMALE FOR 7/8" CABLE, OPTIMIZED FOR PIM (USE WITH CT07850AIO-2	TRILOGY PART#: 43FA07850B	DS43FA07850B	351	\$52.00

TRILOGY 7/8" 50 OHM AND RADIATING 50 OHM TOOLS

Description	Full Description	Nomenclature	APC	Price
CT07850AIO-2, PREP TOOL FOR 7/8" CABLE, 50 OHM	TRILOGY PART#: CT07850AIO-2	DSCCT07850AIO2	351	\$480.00
PREP TOOL FOR 7/8" CABLE, 75 OHM & 50 OHM	TRILOGY PART#: CT07850AIO	DSCCT07850AIO	351	\$480.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIO-2RB/3PK	DSCCTAIO2RB3PK	351	\$378.00
REPLACEMENT BLADES FOR 1/2"-7/8" PREP TOOLS CT AIO-2	TRILOGY PART#: CTAIORB/2PK	DSCCTAIO2RB2PK	351	\$42.00

RF CABLES - GENERAL TOOLS AND ACCESSORIES

EUPEN TOOLS & ACCESSORIES ADAPTERS

Description	Full Description	Nomenclature	APC	Price
ANGLE ADAPTOR W/ 3/8" TAPPED HOLES, STAINLESS STEEL, BUTTLERFLIES	EUPEN PART#: AA-SL	DSAAAL	351	\$70.00
AA-US, SST ANGLE ADAPTOR, SNAP IN VERSION, PKG OF 10	EUPEN PART#: AA-US	DSAAUS	351	\$138.00
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, NO HOSE CLAMP INCLUDED, STAINL	EUPEN PART#: SA-38S	DSSA38S	351	\$40.00
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, 2" - 3" OD MEMBERS, STAINLESS	EUPEN PART#: SA-38S200	DSSA38S200	351	\$63.25
STAND OFF ADAPTOR W/ 3/8" TAPPED HOLE, 3" - 4" OD MEMBERS, STAINLESS	EUPEN PART#: SA-38S300	DSSA38S300	351	\$67.50
STAND-OFF ADAPTER, 3 WAY, KIT OF 10	EUPEN PART#: SA-38X	DSSA38X	351	\$29.00
STAND OFF ADAPTOR W/ 3/4" HOLE, NO HOSE CLAMP INCLUDED, STAINLESS STEE	EUPEN PART#: SA-SS	DSSASS	351	\$42.50
STAND OFF ADAPTOR W/ 3/4" HOLE, 3" - 4" OD MEMBERS, STAINLESS STEEL,	EUPEN PART#: SA-SS300	DSSASS300	351	\$73.50
UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	EUPEN PART#: AA-U	DSAAU	351	\$143.00
RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	EUPEN PART#: RM-A200	DSRAM200	351	\$33.50
RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	EUPEN PART#: RM-A300	DSRAM300	351	\$37.75
EUPEN TOOLS & ACCESSORIES - GROUND KITS				
UNIVERSAL GROUND BAR ATTACHMENT KIT, EACH	EUPEN PART#: GB-HK-U	DSGBHKU	351	\$43.50
STANDARD GROUND KIT FOR 3/8" CABLES, 5' LEAD WITH UNATTACHED 3/8" TWO	EUPEN PART#: GK-S38	DSGKS38	351	\$32.00
UNIVERSAL GROUND KIT, 5' LEAD W/ UNATTACHED 1/4" AND 3/8" TWO HOLE LUG	EUPEN PART#: GK-U2H5-U	DSGKU2H5U	351	\$39.00
GROUND BUSS BAR, 1/4" X 2" X 10", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0210-NH	DSGB0210NH	351	\$65.00
GROUND BUSS BAR, 1/4" X 2" X 10", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0210-U	DSGB0210U	351	\$114.00
GROUND BUSS BAR, 1/4" X 2" X 10" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0210T-NH	DSGB0210TNH	351	\$73.00
GROUND BUSS BAR, 1/4" X 2" X 10" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0210T-U	DSGB0210TU	351	\$127.00
GROUND BUSS BAR, 1/4" X 2" X 14", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0214-NH	DSGB0214NH	351	\$83.00
GROUND BUSS BAR, 1/4" X 2" X 14", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0214-U	DSGB0214U	351	\$126.00
GROUND BUSS BAR, 1/4" X 2" X 14" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0214T-NH	DSGB0214TNH	351	\$120.00
GROUND BUSS BAR, 1/4" X 2" X 14" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0214T-U	DSGB0214TU	351	\$181.00
GROUND BUSS BAR, 1/4" X 4" X 12", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0412-NH	DSGB0412NH	351	\$203.00
GROUND BUSS BAR, 1/4" X 4" X 12", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0412-U	DSGB0412U	351	\$246.00
GROUND BUSS BAR, 1/4" X 4" X 12" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0412T-NH	DSGB0412TNH	351	\$1,390.00
GROUND BUSS BAR, 1/4" X 4" X 12" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0412T-U	DSGB0412TU	351	\$185.00
GROUND BUSS BAR, 1/4" X 4" X 20", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0420-NH	DSGB0420NH	351	\$154.00
GROUND BUSS BAR, 1/4" X 4" X 20" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0420T-NH	DSGB0420TNH	351	\$238.00
GROUND BUSS BAR, 1/4" X 4" X 20" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#:	DSGB0420TU	351	\$286.00
GROUND BUSS BAR, 1/4" X 4" X 24", HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0424-NH	DSGB0424NH	351	\$294.00
GROUND BUSS BAR, 1/4" X 4" X 24", HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0424-U	DSGB0424U	351	\$343.00
GROUND BUSS BAR, 1/4" X 4" X 24" (TINNED), HARDWARE NOT INCLUDED, EACH	EUPEN PART#: GB-0424T-NH	DSGB0424TNH	351	\$335.00
GROUND BUSS BAR, 1/4" X 4" X 24" (TINNED), HARDWARE INCLUDED, EACH	EUPEN PART#: GB-0424T-U	DSGB0424TU	351	\$382.00
EUPEN TOOLS & ACCESSORIES - HANGERS AND HANGER HARDWARE				
HANGER HARDWARE KIT, 3/8" X 1" SLOTTED HEAD BOLTS, LOCK WASHERS, AND H	EUPEN PART#: HK-100-10	DSHK10010	351	\$12.00
HANGER HARDWARE KIT, 3/8" X 3/4" SLOTTED HEAD BOLTS, LOCK WASHERS, AND	EUPEN PART#: HK-34-10	DSHK3410	351	\$10.50
HARDWARE KIT, 3/8", GALVANIZED, FOR (2) 1-5/8" COAX SUPPORT BLOCK, 7"	EUPEN PART#: HK-DSCB158	DSHKDSCB158	351	\$17.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (2) 1-5/8" COAX SUPPORT BLOCK	EUPEN PART#: HK-DSCB158SS	DSHKDSCB158SS	351	\$57.00
HARDWARE KIT, 3/8", GALVANIZED, FOR (1) 1-5/8" COAX SUPPORT BLOCK, 4.2	EUPEN PART#: HK-SSCB158	DSHKSSCB158	351	\$14.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (1) 1-5/8" COAX SUPPORT BLOCK	EUPEN PART#: HK-SSCB158SS	DSHKSSCB158SS	351	\$45.00
HARDWARE KIT, 3/8", STAINLESS STEEL, FOR (3) 1-5/8" COAX SUPPORT BLOCK	EUPEN PART#: HK-TSCB158SS-12	DSHKTSCB158SS12	351	\$87.00
EUPEN TOOLS & ACCESSORIES - HOISTING GRIPS				
LACE UP HOISTING GRIP FOR 3/8" CABLES, EACH	EUPEN PART#: HG-38	DSHG38	351	\$15.00
PRE-LACED HOISTING GRIP FOR 3/8" CABLES, EACH	EUPEN PART#: HG-38L	DSHG38L	351	\$18.00
EUPEN TOOLS & ACCESSORIES - MISC.				
TAPE, 3M 1700C ELECTRICAL, BLUE, 3/4" X 66', EACH	EUPEN PART#: CM-TB	DSCMTB	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, BROWN, 3/4" X 66', EACH	EUPEN PART#: CM-TBR	DSCMTBR	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, GREEN, 3/4" X 66', EACH	EUPEN PART#: CM-TG	DSCMTG	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, ORANGE, 3/4" X 66', EACH	EUPEN PART#: CM-TO	DSCMTO	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, RED, 3/4" X 66', EACH	EUPEN PART#: CM-TR	DSCMTR	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, WHITE, 3/4" X 66', EACH	EUPEN PART#: CM-TW	DSCMTW	351	\$4.10
TAPE, 3M 1700C ELECTRICAL, YELLOW, 3/4" X 66', EACH	EUPEN PART#: CM-TY	DSCMTY	351	\$4.10
4" ENTRY PANEL, 1 PORT, 1 X 1, STANDARD, EACH	EUPEN PART#: EP-220	DSEP220	351	\$27.50
4" ENTRY PANEL, 1 PORT, 1 X 1, COMPACT, EACH	EUPEN PART#: EP-574	DSEP574	351	\$24.25
ELECTRICAL TAPE, 3/4" X 44', EACH	EUPEN PART#: MT-464	DSMT464	351	\$3.50
ELECTRICAL TAPE, 2" X 66', EACH	EUPEN PART#: MT-465	DSMT465	351	\$10.50
ELECTRICAL TAPE, 2" X 20', EACH	EUPEN PART#: MT-465-1	DSMT4651	351	\$3.00
TAPE, RAPID WRAP, SELF AMALGAMATING, 1 1/2" X 15', 30 MIL, EACH	EUPEN PART#: SAT1515	DSAT1515	351	\$11.50
SNAP IN, 3/8" ADAPTER, FOR USE WITH 1/2" SNAP HANGER, KIT OF 10	EUPEN PART#: SH-A38	DSSHA38	351	\$22.00
SNAP HANGER, UNIVERSAL, FOR 3/8" CORRUGATED COAX, KIT OF 10	EUPEN PART#: SH-U38	DSSHU38	351	\$21.50
N COUPLER TORQUE WRENCH	EUPEN PART#: TO-34-F7	DSTO34F7	351	\$220.00
4.3-10 COUPLER TORQUE WRENCH	EUPEN PART#: TO-78-F6	DSTO78F6	351	\$220.00
TRILOGY TOOLS AND ACCESSORIES - CABLE PREP TOOLS				
ICST, INNER CONDUCTOR STRIP TOOL	TRILOGY PART#: ICST	DSICST	351	\$96.50
ICST-RB, INNER CONDUCTOR STRIP TOOL REPLACEMENT BLADE	TRILOGY PART#: ICST-RB	DSICSTRB	351	\$28.00
PST012, PLENUM STRIP TOOL	TRILOGY PART#: PST012	DSPST012	351	\$189.00
PST012-RB, PLENUM STRIP TOOL REPLACEMENT BLADE	TRILOGY PART#: PST012-RB	DSPST012RB	351	\$42.00
POWER PLENUM STRIP TOOL FOR NON-RADIATING	TRILOGY PART#: PCT012-2	DSPCT0122	351	\$504.00
REPLACEMENT BLADES FOR PREP TOOLS PCT012-2	TRILOGY PART#: PCT012-2RB/3PK	DSPCT0122RB3PK	351	\$378.00
POWER PLENUM STRIP TOOL FOR NON-RADIATING, OPTIMIZED FOR PIM	TRILOGY PART#: PPT012-PIM	DSPPT012PIM	351	\$595.00
FLARING TOOL FOR POWER PLENUM STRIP TOOL FOR NON-RADIATING	TRILOGY PART#: PPT-FT	DSPPTFT	351	\$141.00
TUBING CUTTER	TRILOGY PART#: TC1000	DSTC1000	351	\$126.00
KNIFE-BOX CUTTER	TRILOGY PART#: TC10099	DSTC10099	351	\$23.75
KNIFE-BOX CUTTER	TRILOGY PART#: TC63050	DSTC63050	351	\$126.00
15" CHROME PLATED, UNIVERSAL ADJUSTABLE WRENCH FOR 1/2" TO 1-5/8" CONN	TRILOGY PART#: W-CU	DSWCU	351	\$231.00
MID-SPAN JACKET STRIP TOOL FOR 1-5/8" CABLE (FOR ATTACHING GROUND KIT)	TRILOGY PART#: JST158MCJ	DSJST158MCJ	351	\$420.00
REPLACEMENT BLADES FOR PREP TOOL PPT012-PIM	TRILOGY PART#: PPT012-PIMRB	DSPPT012PIMRB	351	\$258.00
MANUAL PREP TOOL FOR 1/4" ACC SERIES CABLE, 50 OHM	TRILOGY PART#: PST014	DSPST014	351	\$223.00
TRILOGY CABLE TOOLS AND ACCESSORIES - ADAPTERS				
AA-GU, UNIVERSAL GALVANIZED ANGLE ADAPTOR, PKG OF 10	TRILOGY PART#: AA-GU	DSAAGU	351	\$99.50
AA-38L, GALVANIZED ANGLE ADAPTOR, LARGE W/ 3/8" TAPPED HOLES, PKG OF 10	TRILOGY PART#: AA-38L	DSAA38L	351	\$99.50
UNIVERSAL STAINLESS STEEL ANGLE ADAPTOR PKG OF 10	EUPEN PART#: AA-U	DSAAU	351	\$143.00
UNIVERSAL ROUND MEMBER SUPPORT BRACKET (KIT OF 10)	TRILOGY PART#: RM-USBG	DSRMUSBG	351	\$294.00
SA-SS200, UNIV SST STAND-OFF ADAPTOR FOR 2"-3" OD MEMBERS, PKG OF 10	EUPEN PART#: SA-SS200	DSSASS200	351	\$95.25
N MALE RIGHT ANGLE FOR 1/4" ACC SERIES CABLE	TRILOGY PART#: NMR01450	DSNMR01450	351	\$38.75
TRILOGY CABLE TOOLS AND ACCESSORIES - HANGERS AND HANGER HARDWARE				
BH-12 BUTTERFLY HANGER FOR 1/2" AIRCELL COAX, PKG OF 10	TRILOGY PART#: BH-12	DSBH12	351	\$54.50
BH-58 BUTTERFLY HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: BH-58	DSBH58	351	\$54.50
BH-78 BUTTERFLY HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: BH-78	DSBH78	351	\$54.50
BH-114 BUTTERFLY HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	TRILOGY PART#: BH-114	DSBH114	351	\$54.50
BH-158 BUTTERFLY HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: BH-158	DSBH158	351	\$54.50
BHK-34-10, HANGER HARDWARE 3/8" X 3/4" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-34-10	DSBHK3410	351	\$20.00
BHK-100-10, HANGER HARDWARE 3/8" X 1" HEX BOLT W/ WASHER & NUT, PKG 10	TRILOGY PART#: BHK-100-10	DSBHK10010	351	\$19.50
SH-U12, UNIV SNAP HANGER 1/2", PKG10	TRILOGY PART#: SH-U12	DSSHU12	351	\$52.00
SH-U12, UNIVERSAL SNAP-IN HANGER FOR 5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U58	DSSHU58	351	\$52.00
SH-U78, UNIVERSAL SNAP-IN HANGER FOR 7/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U78	DSSHU78	351	\$52.00
SH-U114, UNIVERSAL SNAP-IN HANGER FOR 1-1/4" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U114	DSSHU114	351	\$52.00
SH-U158, UNIVERSAL SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX, PKG OF 10	TRILOGY PART#: SH-U158	DSSHU158	351	\$52.00

Description	Full Description	Nomenclature	APC	Price
STACKABLE SNAP-IN HANGER FOR 1/IN AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-12	DSSH12	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 7/8IN AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-78	DSSH78	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 11IN AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-114	DSSH114	351	\$66.00
STACKABLE SNAP-IN HANGER FOR 1-5/8" AIRCELL COAX (PACKAGE OF 10)	TRIOLOGY PART#: SHS-158	DSSH158	351	\$66.00
CLC#15, PLASTIC SELF-LOCKING HANGERS FOR 1/2" AIRCELL COAX,PKG OF 100	TRIOLOGY PART#: CLC#15	DSCL15	351	\$160.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX	TRIOLOGY PART#: CLC#20	DSCL20	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 5/8 AIRCELL COAX, RISER RATED	TRIOLOGY PART#: CLC#22	DSCL22	351	\$206.00
PLASTIC SELF-LOCKING CABLE HANGERS FOR 7/8" AIRCELL COAX, UNJACKETED	TRIOLOGY PART#: CLC#25	DSCL25	351	\$157.00
CLC#28, PLASTIC SELF-LOCKING HANGERS FOR 7/8" AIRCELL COAX, PKG OF 50	TRIOLOGY PART#: CLC#28	DSCL28	351	\$157.00
CLC#40, PLASTIC SELF-LOCKING HANGERS FOR 1-1/4" AIRCELL COAX, PKG OF 25	TRIOLOGY PART#: CLC#40	DSCL40	351	\$175.00
CLC#51, PLASTIC SELF-LOCKING HANGERS FOR 1-5/8" AIRCELL COAX, PKG OF 25	TRIOLOGY PART#: CLC#51	DSCL51	351	\$189.00
CLC#78P, PLASTIC RADIATING CABLE HANGER FOR 7/8" AIRCELL COAX	TRIOLOGY PART#: CLC#78P	DSCL78P	351	\$5.05
CLC#114P, PLASTIC RADIATING CABLE HANGER FOR 1-1/4" AIRCELL COAX	TRIOLOGY PART#: CLC#114P	DSCL114P	351	\$7.70
CLC#158P, PLASTIC RADIATING CABLE HANGER FOR 1-5/8" AIRCELL COAX	TRIOLOGY PART#: CLC#158P	DSCL158P	351	\$11.00
CLC#78M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 7/8	TRIOLOGY PART#: CLC#78M	DSCL78M	351	\$15.50
CLC#114M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-1/4	TRIOLOGY PART#: CLC#114M	DSCL114M	351	\$19.50
CLC#158M, RADIATING CABLE FIRE SAFETY METAL COLLAR HANGER FOR 1-5/8	TRIOLOGY PART#: CLC#158M	DSCL158M	351	\$21.25
CLC#MSG78, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 7/8	TRIOLOGY PART#: CLC#MSG78	DSCLMSG78	351	\$6.90
CLC#MSG114, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-1/4	TRIOLOGY PART#: CLC#MSG114	DSCLMSG114	351	\$7.55
CLC#MSG158, PLASTIC RADIATING CABLE MESSENGER WIRE HANGER FOR 1-5/8	TRIOLOGY PART#: CLC#MSG158	DSCLMSG158	351	\$8.25
TRIOLOGY CABLE TOOLS AND ACCESSORIES - GROUND KITS				
Description	Full Description	Nomenclature	APC	Price
GB-02519T-U, TIN PLATED, 1/4 X 2-1/2 X 19-1/2, W/UNIVERSAL HARDWARE KIT	TRIOLOGY PART#: GB-02519T-U	DSGB02519TU	351	\$294.00
GK-S12AC, STD GROUND KIT FOR 1/2" AIRCELL COAX	TRIOLOGY PART#: GK-S12AC	DSGKS12AC	351	\$49.00
STD GROUND KIT FOR 5/8 AIRCELL COAX	TRIOLOGY PART#: GK-S58AC	DSGKS58AC	351	\$49.00
GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX	TRIOLOGY PART#: GK-S78AC	DSGKS78AC	351	\$49.00
GK-S114/158AC, STD GROUND KIT FOR 1-1/4" & 1-5/8" AIRCELL COAX	TRIOLOGY PART#: GK-S114/158AC	DSGKS114158AC	351	\$49.00
TRIOLOGY CABLE TOOLS AND ACCESSORIES - HOISTING GRIPS				
Description	Full Description	Nomenclature	APC	Price
HG-12, LACE-UP GRIP FOR 1/2 COAX	TRIOLOGY PART#: HG-12	DSHG12	351	\$49.00
HG-12, LACE-UP HOISTING GRIP FOR 5/8" AIRCELL COAX	TRIOLOGY PART#: HG-58	DSHG58	351	\$67.25
HG-78, LACE-UP GRIP FOR 7/8 COAX	TRIOLOGY PART#: HG-78	DSHG78	351	\$67.25
HG-114, LACE-UP GRIP FOR 1-1/4 COAX	TRIOLOGY PART#: HG-114	DSHG114	351	\$74.25
PRE-LACED HOISTING GRIP FOR 1-1/4 AIRCELL COAX	TRIOLOGY PART#: HG-114L	DSHG114L	351	\$74.25
HG-158, LACE-UP HOISTING GRIP FOR 1-5/8" AIRCELL COAX	TRIOLOGY PART#: HG-158	DSHG158	351	\$26.00
PRE-LACED HOISTING GRIP FOR 1-5/8IN AIRCELL COAX	TRIOLOGY PART#: HG-158L	DSHG158L	351	\$74.25
TRIOLOGY CABLE TOOLS AND ACCESSORIES - SPACERS AND FLANGE/STUD				
Description	Full Description	Nomenclature	APC	Price
CLC#LT101, FLANGE INSERTS INTO HANGER SLOT. USE 1/4-20 STUD ROD, PKG 100	TRIOLOGY PART#: CLC#LT101	DSCLCLT101	351	\$143.00
STRUTCATCHER PKG OF 100	TRIOLOGY PART#: CLC#LT109	DSCLCLT109	351	\$462.00
CLC#LT45, PLASTIC STANDOFF POSTS W/ 1-5/8" LNGTH(2" STANDOFF), PKG OF 100	TRIOLOGY PART#: CLC#LT45	DSCLCLT45	351	\$391.00
PLASTIC STANDOFF POSTS (PROVIDES 4" STANDOFF) PKG OF 50	TRIOLOGY PART#: CLC#LT85	DSCLCLT85	351	\$511.00
PLASTIC 2" STAND-OFF SPACER AND WALL ANCHOR WITH SCREW	TRIOLOGY PART#: CLC#SS	DSCLCSS	351	\$5.05
PREMIUM PLASTIC 3" STAND-OFF SPACER	TRIOLOGY PART#: CLC#SS80	DSCLCSS80	351	\$8.40
CLC#SSM, METAL 2" STAND-OFF SPACER AND WALL ANCHOR WITH 8MM HOLE	TRIOLOGY PART#: CLC#SSM	DSCLCSSM	351	\$10.25
PREMIUM STAINLESS 4" STAND-OFF SPACER	TRIOLOGY PART#: CLC#SSM4	DSCLCSSM4	351	\$14.00
TRIOLOGY CABLE TOOLS AND ACCESSORIES - MISC.				
Description	Full Description	Nomenclature	APC	Price
MINI COAX SUPPORT BLOCKS FOR 1-5/8 AIRCELL COAX	TRIOLOGY PART#: CB-158	DSCB158	351	\$63.00
HARDWARE KIT FOR THREE 1-5/8 AIRCELL SUPPORT BLOCKS PKG OF 10	EUPEN PART#: HK-TSCB158	DSHKTSB158	351	\$54.50
4" BOOT ASSEMBLY, CUSHION NOT INCLUDED	EUPEN PART#: BA-400	DSBA400	351	\$54.50
STANDARD PORT CUSHION W/ 1 HOLE FOR 1/2 AIRCELL COAX	TRIOLOGY PART#: SC-12-1	DSSC121	351	\$11.25
STANDARD PORT CUSHION W/ 2 HOLE FOR 1/2 AIRCELL COAX	TRIOLOGY PART#: SC-12-2	DSSC122	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 5/8 AIRCELL COAX	TRIOLOGY PART#: SC-58-1	DSSC581	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 7/8 AIRCELL COAX	TRIOLOGY PART#: SC-78-1	DSSC781	351	\$11.25
STANDARD PORT CUSHION W/ 1 HOLE FOR 1-5/8IN AIRCELL COAX	TRIOLOGY PART#: SC-158-1	DSSC1581	351	\$11.25
RM-A100, ROUND MEMBER ADAPTOR 1"-2" OD, PKG OF 10	TRIOLOGY PART#: RM-A100	DSRMA100	351	\$29.50
RM-A200, ROUND MEMBER ADAPTOR 2"-3" OD, PKG OF 10	EUPEN PART#: RM-A200	DSRMA200	351	\$33.50
RM-A300, ROUND MEMBER ADAPTOR 3"-4" OD, PKG OF 10	EUPEN PART#: RM-A300	DSRMA300	351	\$37.75
WK-U, UNIVERSAL WEATHERPROOFING KIT	EUPEN PART#: WK-U	DSWKU	351	\$43.50
COLD SHRINK WEATHERPROOFING 1/2" TO 1-5/8" AIRCELL COAX	TRIOLOGY PART#: CSU-12158	DSCSU12158	351	\$71.50
3M SCOTCH COTE SPRAY SEALER, 13OZ. CAN	TRIOLOGY PART#: MT-461	DSMT461	351	\$188.00
TRM-NM-1W, TERMINATION N-MALE, 1 WATT	TRIOLOGY PART#: TRM-NM-1W	DSTRNM1W	351	\$63.00

Secure VOIP Services

Models	Description	Full Description	Nomenclature	APC	Price
	G9 SERVER HARDWARE	-	SQM01SUM0295	704	\$18,000.00
Options	Description	Full Description	Nomenclature	APC	Price
	ADD: LXN 6000 OPEN RACK INSTALL KIT	-	CA03082AA	60	\$115.00
	ADD: LXN 6000 CABINET RACKING INSTALL KIT	-	CA03083AA	60	\$20.00

ASTRO 25 Security Monitoring Service

Description	Nomenclature	APC	Standard Support Price	Extended Support Price
Network Security Monitoring	SVCO1SVC0033A	519		
Network Security Monitoring-CTD	SVCO1SVC0053A	519		
ASTRO25 L-Core	L1 Master Site		\$2,719.20	\$3,534.96
	L2 Master Site		\$2,719.20	\$3,534.96
	Console Ops		\$656.70	\$853.71
	Firewall		\$6,798.00	\$8,837.40
	Intrusion Detection System		\$6,798.00	\$8,837.40
	Centralized Syslog		\$3,399.00	\$4,418.70
ASTRO25 M-Core	M1 Master Site		\$2,719.20	\$3,534.96
	M2 Master Site		\$2,719.20	\$3,534.96
	M3 Master Site (First Zone)		\$2,719.20	\$3,534.96
	M3 Master Site (Add'l Zone)		\$2,719.20	\$3,534.96
	DSR Site		\$2,719.20	\$3,534.96
	Console Ops		\$656.70	\$853.71
	Firewall		\$6,798.00	\$8,837.40
	Intrusion Detection System		\$6,798.00	\$8,837.40
	Centralized Syslog		\$3,399.00	\$4,418.70

ASTRO CAC/PIV SUPPORT SERVICES

MONTHLY PATCHING SECURITY UPDATE SERVICE (RSUS)

Configuration

Description	Part Model	APC	Price
Monthly Remote Security Update Service	LSV01S01676A	969	\$300,000 per core per year

On Premises Security Ops Center

On Premises Security Ops Center (OPSOC)

Description	Nomenclature	APC	Price
OPSOC PRIMARY LICENSE 2GB	SVC04SVC0620A	519	\$28,325.00
OPSOC PRIMARY LICENSE 5GB	SVC04SVC0716A	519	\$33,990.00
OPSOC PRIMARY LICENSE 10GB	SVC04SVC0717A	519	\$42,487.00

SECURITY UPDATE SERVICE

Security Update Service (SUS) & Security Update Remote Delivery Service

Description	Nomenclature	APC	Price	Extended Price
Security Update Service	SVC04SVC0016C	969	\$0.00	\$0.00
ASTRO25 K-Core	Windows Client		\$968.00	\$1,258.40
ASTRO25 L-Core	L1 Master Site		\$2,783.00	\$3,617.90
	L2 Master Site		\$5,566.00	\$7,235.80
	Windows Client		\$968.00	\$1,258.40
ASTRO25 M-Core	M1 Master Site		\$3,561.03	\$4,629.34
	M2 Master Site		\$5,743.87	\$7,467.03
	M3 Master Site (First Zone)		\$7,180.14	\$9,334.18
	M3 Master Site (Add'l Zones)		\$3,590.07	\$4,667.09
	DSR Site		\$3,590.07	\$4,667.09
	Windows Client		\$1,331.00	\$1,730.30
Remote Security Update Service	SVC01SVC0140A	560	\$0.00	\$0.00
ASTRO25 L-Core	L1 Master Site		\$13,358.40	\$17,365.92
	L2 Master Site		\$13,358.40	\$17,365.92
	Windows Client		\$363.00	\$471.90
			0	0
ASTRO25 M-Core	M1 Master Site		\$8,470.00	\$11,011.00
	M2 Master Site		\$15,427.50	\$20,055.75
	M3 Master Site (First Zone)		\$20,570.00	\$26,741.00
	M3 Master Site (Add'l Zones)		\$20,872.50	\$27,134.25
	DSR Site		\$20,872.50	\$27,134.25
	Windows Client		\$363.00	\$471.90

SFS Lite

APX Devices

TIER	Service Item	APX PORTABLE AND MOBILE1 PRODUCTS	1-499 Units	500-1499 Units
4	LSV01S00019A	MT1500, PR1500, APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$54.00	\$52.44
5	LSV01S00020A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$66.00	\$64.08
6	LSV01S00021A	APX Consolettes	\$100.80	\$97.80
7	LSV01S00144A	PM1500, XTL2500, APX1500, APX4500	\$78.60	\$76.20
8	LSV01S00143A	APX6500, APX6500LI, APX7500, APX8500	\$100.80	\$97.80
9	LSV01S00764A	XTL2500 WITH DUAL CONTROL HEAD, XTL5000 WITH DUAL CONTROL HEAD	\$129.00	\$125.16

PCR/MOTOTRBO DEVICES

TIER	SERVICE ITEM	PORTABLE AND MOBILE PRODUCTS	1-9 Units	10-29 Units
2	LSV03S00034A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, SL300	\$38.40	\$37.20
3	LSV03S00731A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$48.00	\$46.56
32	LSV03S01190A	SL3500e, XPR3300e, XPR3500e, XPR2500	\$40.00	\$38.76

Data/Pager Devices

TIER	SERVICE ITEM	DATA AND PAGER PORTABLE AND MOBILE PRODUCTS	1-499 Units	500-1499 Units
16	LSV03S00247A	MINITOR VI PAGER	\$23.00	\$22.50
18	LSV01Q00573A	MXV 1000	\$153.36	\$150.72

Service from the Start (SfS) Comprehensive

APX Devices					
TIER	SERVICE ITEM	APX PORTABLE AND MOBILE1 PRODUCTS	1-499 Units	500-1499 Units	
4	LSV01S00022A	APX900, APX1000, APX3000, APX4000, SRX2200	\$100.08	\$96.96	
5	LSV01S00023A	APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$122.04	\$118.32	
6	LSV01S00024A	APX Consolettes	\$141.00	\$136.80	
7	LSV01S00146A	APX1500, APX4500	\$118.20	\$114.60	
8	LSV01S00145A	APX6500, APX6500LI, APX7500, APX8500	\$141.00	\$136.80	

**Switching and Routing Center (SRC 7500)
ASTRO 25 7.16
Expansions and Upgrades**

SRC 7500 Expansions and Upgrades Main Model (Mandatory)

Order the model below to expand or upgrade an existing SRC 7500.

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00

SRC 7500 EXPANSION CONFIGURATIONS

SRC 7500 System Release Expansions (Mandatory)

These options will ensure the appropriate licenses are generated for the options ordered applicable to a system release.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.13 / 7.14	-	CA02651AA	147	\$0.00
ADD: SRC 7500 FOR 7.15 AND BEYOND	-	CA02652AA	147	\$0.00
ADD: SRC 7500 FOR 7.16	SRC 7500 M-Core Gateway Expansion	CA02870AA	147	\$0.00

SRC 7500 M-Core Gateway Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M-Core Ethernet Core Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00

SRC 7500 M-Core Ethernet Interzone Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core CWR Interzone Router Expansion

Available for M1 and M3 only.

SRC 7500 M-Core High Availability Data Expansion

A7.16 systems ship with a GGSN and a VPN/Firewall standard in each SRC 7500. High Availability Data requires a second GGSN and a second firewall.

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M-Core Backhaul Switch Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$2,250.00

SRC 7500 M-Core Fiber Connectivity Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTV BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTV BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00

SRC 7500 UPGRADE CONFIGURATIONS

SRC 7500 System Release (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 7.15 UPGRADE	-	CA02935AA	358	\$1,400.00
ADD: SRC 7500 7.16 UPGRADE	SRC 7500 M-Core Gateway License	CA02936AA	358	\$1,400.00

SRC 7500 M-Core Gateway License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Core Router License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00

Please note: Last date for T1 System Release support is 12/31/2022.

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00

SRC 7500 M-Core GGSN License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00

SRC 7500 M-Core Site Router License

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00

SRC 7500 M-Core Ethernet Switch License

Description	Full Description	Nomenclature	APC	Price
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00

SRC 7500 M-Core Additional Media CDs

Description	Full Description	Nomenclature	APC	Price
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02943AA	358	\$50.00
ADD: MNR SOFTWARE UPGRADE ADDITIONAL CD	-	CA02944AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA02946AA	358	\$50.00

SRC 7500 Expansions FRU Kits

Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00

3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00
FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00
SSGS FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSGS HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00

SRC 7500 Upgrades FRU Kits

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00
MNR GGSN SOFTWARE UPGRADE	Provides media required to upgrade a GGSN to the latest system release (A7.15). One SW Upgrade required for each GGM 8000 or S6000.	ST5102	147	\$500.00
MNR ASTRO/SMARTZONE SOFTWARE UPGRADE	Provides media required to upgrade MNR Routers to the latest system release (A7.15). One SW Upgrade required for each GGM 8000, S6000 or S2500. -GGSN software NOT INCLUDED, it must be ordered separately.	ST5100	147	\$500.00

Switching and Routing Center (SRC 7500)

ASTRO 25 7.17

Expansions and Upgrades

SRC 7500 Expansions and Upgrades Main Model (Mandatory)

Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER SOFTWARE UPGRADE/EXPANSION	-	SQM01SUM0294	147	\$0.00

SRC 7500 EXPANSION CONFIGURATIONS

SRC 7500 System Release Expansions (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.17	SRC 7500 M-Core Gateway Expansion	CA03130AA	147	\$0.00

SRC 7500 M-Core Gateway Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DT1 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00

SRC 7500 M-Core Ethernet Core Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00

SRC 7500 M-Core CWR Core Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER CWR	Intent to Cancel Date:131-Dec-2019	CA01422AA	147	\$40,000.00
ADD: QTY 1 PAIR CORE ROUTERS CWR	SRC 7500 M-Core Ethernet Interzone Router Expansion Intent to Cancel Date:131-Dec-2019	CA01346AA	147	\$70,000.00

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core Ethernet Interzone Router Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	SRC 7500 M-Core CWR Interzone Router Expansion	CA02867AA	147	\$66,420.00

SRC 7500 M-Core CWR Interzone Router Expansion

Last date of Shipments 12/31/2017.

Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date:131-Dec-2019	CA02653AA	147	\$40,000.00
ADD: INTERZONE CAPABILITY CWR	SRC 7500 M-Core High Availability Data Expansion Intent to Cancel Date:131-Dec-2019	CA01358AA	147	\$70,000.00

SRC 7500 M-Core High Availability Data Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00

SRC 7500 M-Core Encryption/FIPS 140-2 Expansion (GGM 8000 Only)

Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00

SRC 7500 M3 Zone Core Protection (ZCP) bundle Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	SRC 7500 M-Core Backhaul Switch Expansion	CA03129AA	147	\$19,500.00

SRC 7500 M-Core Backhaul Switch Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network	CA01424AA	147	\$2,250.00

SRC 7500 M-Core Fiber Connectivity Expansion

Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTY BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
ADD: FIBER CONN 4 SWITCHES	Provides fiber connectivity for two core LAN switches and two backhaul switches; replaces the trunked connections.	CA01364AA	147	\$6,400.00
ADD: FIBER CONTVTY BTWN 5 SWITCHES	Provides fiber connectivity between three Core LAN switches and two Backhaul switches; replaces the trunked connections.	CA01489AA	147	\$8,000.00

SRC 7500 UPGRADE CONFIGURATIONS

SRC 7500 System Release (Mandatory)

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 7.17 UPGRADE	SRC 7500 M-Core Gateway License	CA03226AA	358	\$1,400.00

SRC 7500 M-Core Gateway License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GATEWAY ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Core Router License	CA02937AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Core Router License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 CORE ROUTER UPGRADE	SRC 7500 M-Core Ethernet/CWR Interzone Router License	CA02938AA	358	\$500.00

SRC 7500 M-Core Ethernet/CWR Interzone Router License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 EXIT ROUTER UPGRADE	SRC 7500 M-Core GGSN License	CA02939AA	358	\$500.00

SRC 7500 M-Core GGSN License

Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 GGSN UPGRADE	SRC 7500 M-Core Site Router License	CA02940AA	358	\$500.00

SRC 7500 M-Core Site Router License

Description	Full Description	Nomenclature	APC	Price
ADD: MOTOROLA NETWORK SITE ROUTER UPGRADE	SRC 7500 M-Core Ethernet Switch License	CA02941AA	358	\$300.00

SRC 7500 M-Core Ethernet Switch License

Description	Full Description	Nomenclature	APC	Price
ADD: HP ETHERNET SWITCH UPGRADE	SRC 7500 M-Core Additional Media CDs	CA02942AA	358	\$500.00
SRC 7500 M-Core Additional Media CDs				
Description	Full Description	Nomenclature	APC	Price
MNR SOFTWARE UPGRADE 7.17	-	CA03227AA	358	\$50.00
ADD: HP SWITCH SOFTWARE UPGRADE ADDITIONAL CD	-	CA03231AA	358	\$50.00
SRC 7500 Expansions FRU Kits				
Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
FRU: FIBER CABLE	-	CKN6906A	454	\$100.00
FRU: MINI GBIC (J4858B)	-	CLN8490A	454	\$750.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
FORTINET HIGH TIER FIREWALL APPLIANCE	(For A7.15 and beyond) Please consult with System Planning to determine if your system configuration will require the high tier 1000C firewall or if T8126 may be used.	T8125	147	\$32,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00
SSGS FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
SSGS HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8875	147	\$800.00
SRC 7500 Upgrades FRU Kits				
Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL RECOVERY MEDIA	(For A7.15 and later)	T8128	147	\$100.00
JUNIPER FIREWALL RECOVERY MEDIA	(For A7.13 and A7.14)	T7413	877	\$100.00
HP PROCURVE OS UPGRADE	-	ST5140A	147	\$500.00
LX TERMINAL SERVER SW UPGRADE	-	T7336	147	\$100.00

**Switching and Routing Center (SRC 7500)
ASTRO 25 7.17 (Updated for A7.17.2) New Systems**

SRC 7500 Main Model (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
SRC7500 SWITCHING ROUTING CENTER (7.13 AND BEYOND)	-	SQM01SUM0238	147	\$1,200.00
Description	Full Description	Nomenclature	APC	Price
ADD: SRC 7500 FOR 7.17.2	-	CA03332AA	147	\$0.00
SRC 7500 M1 CONFIGURATIONS				
SRC 7500 M1 Core LAN Switch Option (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE LAN SWITCH	-	CA03323AA	147	\$14,300.00
ADD: SRC FOR M1 ADDITIONAL CORE CAPACITY	-	CA03328AA	147	\$22,400.00
SRC 7500 M1 Gateway Router Option (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE GATEWAY ROUTER STANDARD	Provides a single Gateway Routers; does not support Gold Elite or DTI 1000 Telephone Interconnect.	CA01421AA	147	\$15,700.00
SRC 7500 M1 Core Router Option (Ethernet)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE ROUTER ETH	Provides a core router for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01423AA	147	\$20,700.00
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: THREE SINGLE CORE ROUTERS ETHERNET	-	CA02862AA	147	\$62,100.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
SRC 7500 M1 Core Router Option (CWR)				
SRC 7500 M1 Interzone Options (Required for DSR)				
Description	Full Description	Nomenclature	APC	Price
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (ETHERNET)	-	CA02654AA	147	\$20,700.00
ADD: SINGLE COMBINED CORE-EXIT CONNECTIVITY (ETHERNET)	-	CA02866AA	147	\$33,120.00
ADD: SINGLE CORE MASTER SITE CONNECTIVITY (CWR)	Intent to Cancel Date: 31-Dec-2019	CA02653AA	147	\$40,000.00
SRC 7500 M1 Encryption/FIPS (GGM 8000 Only)				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M1 Core Backhaul Switch Option				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCH FOR M1	Provides a backhaul switch to connect Ethernet links, e.g. point-to-point Ethernet links, or to connect to multiple ports on the Ethernet WAN transport network.	CA03333AA	147	\$2,500.00
SRC 7500 M1 Fiber Connectivity Option				
Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
SRC 7500 M2 CONFIGURATION				
SRC 7500 M2 Core LAN Switch Option (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL CORE LAN SWITCHES	-	CA03322AA	147	\$22,300.00
ADD: SRC FOR M2 ADDITIONAL CORE CAPACITY	-	CA03329AA	147	\$25,600.00
SRC 7500 M2 Gateway Router (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.00
SRC 7500 M2 Core Router Option (Ethernet)				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.00
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01353AA	147	\$165,600.00
SRC 7500 M2 Dual T1/E1 or FT1/FE1 Site Links Option				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
ADD: DUAL LINK 2 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00
SRC 7500 M2 High Availability Data Option				
Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00
SRC 7500 M2 Encryption Option (GGM 8000 Only)				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00

Description	Full Description	Nomenclature	APC	Price
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M2 Core Backhaul Switch Option				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00
SRC 7500 M2 Fiber Connectivity Options				
Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
SRC 7500 M3 CONFIGURATION				
SRC 7500 M3 Mounting Options (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: MOUNT SRC IN 7.5FT OPEN RACK	-	CA02873AA	147	\$495.00
ADD: MOUNT SRC IN 42 RU CABINET	-	CA02874AA	147	\$3,000.00
SRC 7500 M3 Core LAN Switch Options (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: HIGH TIER CORE LAN SWITCHES (96 PORTS)	-	CA03324AA	147	\$24,100.00
ADD: HIGH TIER CORE LAN SWITCHES (144 PORTS)	-	CA03325AA	147	\$29,100.00
SRC 7500 M3 Gateway Router Option (Mandatory)				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL GATEWAY ROUTERS STANDARD	Provides two Gateway Routers; does not have support to interface with Gold Elite or DTI 1000 Telephone Interconnect.	CA01345AA	147	\$31,400.00
SRC 7500 M3 Core Router Options (Ethernet)				
Description	Full Description	Nomenclature	APC	Price
ADD: QTY 1 PAIR CORE ROUTERS ETH	Provides a redundant pair of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01350AA	147	\$41,400.00
ADD: QTY 2 PAIRS CORE ROUTERS ETH	Provides two redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01351AA	147	\$82,800.00
ADD: QTY 3 PAIRS CORE ROUTERS ETH	Provides three redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01352AA	147	\$124,200.00
ADD: QTY 4 PAIRS CORE ROUTERS ETH	Provides four redundant pairs of core routers for use in systems with Ethernet Site links only. This option will not support the use of T1/E1 or FT1/FE1 site links.	CA01353AA	147	\$165,600.00
SRC 7500 M3 Dual T1/E1 or FT1/FE1 Site Links Options				
Description	Full Description	Nomenclature	APC	Price
ADD: DUAL LINK 1 PAIR CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core Routers. Intent to Cancel Date: 31-Dec-2019	CA01354AA	147	\$7,500.00
ADD: DUAL LINK 2 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01355AA	147	\$15,000.00
ADD: DUAL LINK 3 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01356AA	147	\$22,500.00
ADD: DUAL LINK 4 PAIRS CWR	Adds dual T1/E1 or FT1/FE1 site link capability; not for use with Ethernet Core routers. Intent to Cancel Date: 31-Dec-2019	CA01357AA	147	\$30,000.00
SRC 7500 M3 Interzone Options (Required for DSR)				
Description	Full Description	Nomenclature	APC	Price
ADD: INTERZONE CAPABILITY ETHERNET	Provides router gear for Interzone connectivity via Ethernet.	CA01359AA	147	\$41,400.00
ADD: COMBINED CORE-EXIT ROUTER INTERZONE CAPABILITY (1 PAIR)	-	CA02867AA	147	\$66,420.00
ADD: INTERZONE CAPABILITY CWR	Provides router gear for Interzone connectivity via T1/E1 Intent to Cancel Date: 31-Dec-2019	CA01358AA	147	\$70,000.00
SRC 7500 M3 High Availability Data Option				
Description	Full Description	Nomenclature	APC	Price
ADD: GGSN	Provides a GGSN to support IV&D and HPD.	CA01361AA	147	\$16,000.00
ADD: SECOND FIREWALL AND HA FUNCTIONALITY	(Replaces CA02197AA)	CA02688AA	147	\$2,800.00
SRC 7500 M3 Encryption/FIPS Options (GGM 8000 Only)				
Description	Full Description	Nomenclature	APC	Price
ADD: ENCRYPTION (7.12 OR LATER)	Order one per each GGM 8000 gateway.	CA02087AA	147	\$1,500.00
ADD: COMMON CRITERIA	Encryption (CA02087AA) is required with this option. Order one per each GGM 8000 gateway.	CA02134AA	147	\$500.00
SRC 7500 M3 Zone Core Protection (ZCP) bundle				
Description	Full Description	Nomenclature	APC	Price
ADD: ZCP BUNDLE	-	CA03129AA	147	\$19,500.00
SRC 7500 M3 Core Backhaul Switch Option				
Description	Full Description	Nomenclature	APC	Price
ADD: CORE BACKHAUL SWITCHES	Provides backhaul switches to connect Ethernet site links and/or Ethernet interzone links.	CA03334AA	147	\$5,400.00
SRC 7500 M3 Fiber Connectivity Options				
Description	Full Description	Nomenclature	APC	Price
ADD: FIBER CONN 2 SWITCHES	Provides fiber connectivity for two core LAN switches; replaces the trunked connections.	CA01362AA	147	\$3,200.00
ADD: FIBER CONTVTV BTWN 3 SWITCHES	-	CA01491AA	147	\$4,800.00
FRU Kits				
Description	Full Description	Nomenclature	APC	Price
HP X311 REDUNDANT POWER SUPPLY	-	CLN1857	454	\$1,000.00
3800-48 ETHERNET SWITCH	-	CLN1858	454	\$9,600.00
2930F 24-PORT SWITCH	-	CLN1868	147	\$2,500.00
FRU: 1M DAC CABLE	-	CLN1866	147	\$200.00
ASSY,CBL,3 FT,RELAY PNL,CWR,S6000	-	DKN6144A	454	\$475.00
ASSY,CBL,6 FT,RELAY PNL,CWR,S6000	-	DKN6129B	454	\$550.00
48 PORT TERMINAL SERVER	Replaces TT2021.	CLN8489	147	\$8,000.00
TERMINAL SERVER	(16 Port)	T7385	147	\$6,500.00
FORTINET FIREWALL APPLIANCE	(Firewall for A7.15 and later)	T8126	147	\$3,200.00
SSGS FIREWALL WITH HA DATA LICENSE KEY	(For A7.13 and A7.14)	CLN8874	147	\$2,000.00
S6000 4-PORT ULTRAWAN MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6010	454	\$3,000.00
S6000 12 PORT T1/E1 I MODULE	For ASTRO 7.5 or earlier system releases; replaced with ST6017 in later releases	ST6015	147	\$9,000.00
S6000 12 PORT T1/E1 II MODULE	For ASTRO 7.6 and later system releases; this replaces ST6015 module Intent to Cancel Date: 31-Dec-2019	ST6018	454	\$9,000.00
S6000 MNR MULTI-PROTOCOL ROUTER	Base MNR S6000 unit is a stand alone router with three ethernet ports, single power supply, 1 console port, and two I/O module slots. Intent to Cancel Date: 31-Dec-2019	ST6000	147	\$15,995.00
S6000 ENCRYPTION MODULE	Intent to Cancel Date: 31-Dec-2019	ST6016	454	\$1,000.00
FRU: FIPS 140-2 LEVEL 2 ENCRYPTION CERT LABELS	-	TYN4008	147	\$500.00

SRX™ 2200 P25 Portable Radio Series

Models

1: Main Model (Must Select One)

Description	Full Description	Nomenclature	APC	Price
SRX2200 PLUS 7/800 MODEL 1.5 PORTABLE	-	H99UCD9PW5BN	470	\$2,663.00
SRX2200 PLUS 7/800 MODEL 3.5 PORTABLE	-	H99UCH9PW7BN	470	\$3,045.00
SRX2200 PLUS VHF MODEL 1.5 PORTABLE	-	H99GD9PW5BN	470	\$2,663.00
SRX2200 PLUS VHF MODEL 3.5 PORTABLE	-	H99GH9PW7BN	470	\$3,045.00
SRX2200 UHFR1 MODEL 1.5 PORTABLE	-	H99QDD9PW5BN	470	\$2,663.00
SRX2200 PLUS UHFR1 MODEL 3.5 PORTABLE	-	H99QDH9PW7BN	470	\$3,045.00

2: Operation Mode (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE TRUNKING 9600 BAUD, 3600 BAUD, AND TDMA	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00580AG: TDMA Oper., QA00583AH: Bluetooth Oper.)	QA02591	470	\$2,822.00
ENH: SOFTWARE P25 CONVENTIONAL	(Includes H35BX: Conventional Oper., Q806BT: ASTRO Digital CAI Oper., & QA00583AH: Bluetooth Oper.)Requires AES when ordering the Military Package.	QA02593	470	\$1,282.00
ENH: SOFTWARE TRUNKING 9600 BAUD AND 3600 BAUD	(Includes H38BX: SmartZone Oper., Q361AW: P25 9600 Baud Trunking, Q806BT: ASTRO Digital CAI Oper., Q173BK: SmartZone OmniLink (Non-P25), QA00583AH: Bluetooth Oper.)	QA02592	470	\$2,382.00

Military Data Package (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary."	QA02590	470	\$633.00

4: System Enhancement Options (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: MANDOWN OPERATION	APX6000 customers ONLY - with radios using tanpaps with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843	481	\$165.00
ADD: GROUP SERVICES	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (requires digital)	QA09008	655	\$165.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data)	QA03399	656	\$165.00
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, G996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Please note H02 option STUN/KILL does not require encryption. We do "Recommend ordering encryption (other than ADP only selection), otherwise radios will be susceptible to remote STUN/KILL from an adversary."	QA02590	470	\$633.00
ADD: WIFI CAPABILITY	Enables Wi-Fi capability in the radio. Supports codeplug updates, firmware refreshes, and FLASHport upgrades over pre-provisioned wireless networks. Requires Radio Management SW (ordered separately). Must order Out of the Box Wi-Fi Provisioning option (QA09007) if provisioning the radios out of the box using Wi-Fi is desired.	QA09001	579	\$330.00
ADD: ADAPTIVE NOISE SUPPRESSION	Adaptive Noise Suppression is available on APX6000/XE and SRX2200 BN Models only. Adaptive Noise Suppression is not available on any APX6000LI models, or on APX6000/XE and SRX2200 AN Models.	QA09006	579	\$165.00
ADD: MISSION CRITICAL GEOFENCING	Requires GPS (QA00782).	QA09012	426	\$165.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5	QA01768	470	\$0.00
ADD: OUT OF THE BOX WIFI PROVISIONING	Requires Wi-Fi (QA09001). Must be added if provisioning the radios out of the box using Wi-Fi is desired. Refer to the 'Out of the Box Wi-Fi Provisioning' section above for details.	QA09007	579	\$0.00
ADD: MULTICAST VOTING SCAN	-	Q387	470	\$220.00
ADD: FRONT PANEL PROGRAMMING & CLONING (FEDERAL)	-	Q52	470	\$165.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 9600 Trunking	QA01767	470	\$110.00
ADD: EXTREME 1-SIDED NOISE REDUCTION	-	QA01833	470	\$28.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	579	\$0.00
ADD: DATA MODEM TETHERING	Requires WiFi (QA09001).	QA09011	681	\$110.00
ADD: SITE SELECTABLE ALERT FOR P25 TRUNKING	-	QA00982	656	\$165.00

System Key Software (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You cannot order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error. Order HARDWARE KEY (QA01648) if required to operate/program on a trunking system. Not compatible with conventional.	QA01648	655	\$6.00

Algorithm Types (Optional)

All APX 8000 Radios ship P25 "clear" (QA05751 will internally generate) unless an encryption option is ordered.

Description	Full Description	Nomenclature	APC	Price
ENH: AES ENCRYPTION AND ADP	ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	Q629	470	\$523.00
ENH: DVP-XL ENCRYPTION AND ADP	Compatible with Digital and Analog (25KHz Only) operations. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES.	H797	470	\$536.00
ENH: DES/DES-XL/DES-OFB ENCRYPTION AND ADP	Compatible with Analog 25KHz/DES-OFB Digital 12.5KHz Only. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES. ADP Privacy ships standard with Single Key. Multikey is required for multiple algorithms, such as ADP/AES or ADP/DES	Q625	470	\$659.00
ADD: AES/DES-XL/DES-OFB ENCRYPTION AND ADP	-	Q15	470	\$879.00

Multikey Types (Optional)

Description	Full Description	Nomenclature	APC	Price
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Tactical OTAR (H04). Tactical OTAR (H04) can only be utilized when IV&D (Q947) is purchased.	Q498	470	\$814.00
ENH: MULTIKEY	-	H869	470	\$363.00
ADD: MULTI SYSTEM OTAR	Requires Q498 ASTRO 25 OTAR W/ MULTIKEY	QA07680	655	\$165.00

Antenna (Optional- Can Only Select One)

Description	Full Description	Nomenclature	APC	Price
DEL: DELETE STANDARD ANTENNA (NAF5085A)	For SRX2200, deletes standard antenna. NAF5085 (7/800), NAR6593 (VHF) or PMAE4065 (UHF).	H112	470	(\$10.00)
ALT: 1/4 WAVE 7/8 STUBBY (NAR6595)	-	H122	470	\$26.00
ALT: UHRF1 GPS STUBBY ANTENNA (FAF5259A)	ALT: UHRF1 GPS STUBBY ANTENNA (FAF5259A)	QA02017	470	\$0.00
ALT: GPS STUBBY ANTENNA	GPS Only (NAG4000A)	QA00785	426	\$20.00

7. Battery (Optional- Can Only Select One)

HAZLOC Approved

Description	Full Description	Nomenclature	APC	Price
ALT: TIA4950 BATT IMPRES 2 LIION 4600MAH	This option will delete the standard battery and replace it with (PMNN4573) BATT IMPRES 2 LIION TIA4950 R IP68 4600T	QA07576	673	\$182.00

Not Compatible if HAZLOC Certification is Required.

Description	Full Description	Nomenclature	APC	Price
ALT: LI-ION IMPRES 2 IP68 3400 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 3400MAH(PMNN4486). Compatible with all APX6000/XE/Li & SRX2200 AN & BN model numbers. Compatible with the APX7000XE.	QA05570	562	\$110.00
ALT: LI-ION IMPRES 2 IP68 5100MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 5100MAH (PMNN4494).	QA05573	655	\$149.00
ALT: LI-ION IMPRES 2 IP68 4850 MAH	This option will delete the standard battery and replace it with IMPRES 2 LIION 4850MAH (PMNN4487).	QA05571	655	\$127.00
DEL: DELETE STANDARD BATTERY	Deletes the standard SLIM IMPRES 2 LIION 2550MAH battery for the APX6000/LI AN/BN Models, or the standard LIION IMPRES 2 LIION 2650MAH battery for the APX6000XE AN/BN Models.	H207	481	(\$30.00)

Cable (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: APX DATA CABLE	PMKN4012B- Used to program the radio with Customer Programming Software and Tuner Software. PMKN4013C - Used to program and service the radio with Customer Programming Software and Tuner Software. Compatible on ALL APX Portable Radios	Q157	655	\$83.00

Packaging (Optional)

Description	Full Description	Nomenclature	APC	Price
ADD: SRX2200 SINGLE UNIT PACKAGING	-	H842	470	\$0.00

Service Options (Must Select One)

Description	Full Description	Nomenclature	APC	Price
ADD: 3Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full three (3) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00048	386	\$170.00

Description	Full Description	Nomenclature	APC	Price
ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 5 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00025AG	185	\$378.00
ADD: 3Y ESSENTIAL SERVICE	Provides 3 years of hardware coverage beginning at time of purchase. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	H885BK	185	\$95.00
ADD: 3Y ESSENTIAL ACCIDENTAL DAMAGE	Provides for extended hardware repair coverage and chemical, liquid, and other physical damage on your Motorola portable and mobile subscriber radios. Comprehensive coverage starts from the first day the radio is put into use and last for 3 YEARS. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	HA00022AB	185	\$246.00
ADD: 5Y ESSENTIAL SERVICE	Provides 5 years of hardware coverage beginning at time of shipment. Repairs will be made only at the designated Motorola repair depot. Local services are not included. Motorola will pay the inbound shipping charges only with use of the Motorola designated delivery service. Motorola will pay for outbound shipping via Motorola's normal shipping methods. No discounts are allowed on this option.	Q887	185	\$170.00
ADD: 5Y ESSENTIAL SVC CANADA	Upgrades the standard warranty period to a full five (5) years of hardware service coverage on the internal components of your radio equipment. Repairs will be made only at Motorola authorized service centers. No discounts are allowed on this option.	HA00049	185	\$233.00
Documentation (Optional)				
Description	Full Description	Nomenclature	APC	Price
ADD: DATA LINK MANAGER APP CD- PORTABLES	Option provides the NVN5424 Data CD. Please order this option if you would like the Data CD, and are unable to obtain it through other sources such as MOL.	QA00205	655	\$0.00
ADD: USER GUIDE.CD.SRX2200 CD UG & SAFETY	-	H88	470	\$28.00
ADD: TEST RESULTS PRINTOUT	-	H799	470	\$11.00

ASTRO® Digital SRX 2200
FLASHport® Aftermarket Upgrades

Configuration

Description	Full Description	Nomenclature	APC	Price
DIGITAL CONVENTIONAL	-	T7985	430	\$0.00
TDMA	-	T7989	430	\$0.00
9600 AND 3600 DIGITAL TRUNKING WITH INTEROP	-	T8013	430	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL CONVENTIONAL TO TDMA	-	QA04018AA	430	\$2,226.00
ENH: DIGITAL CONVENTIONAL TO P25 TRUNKING W/ INTEROP	-	QA04019AA	430	\$1,657.00
ENH: P25 TRUNKING WITH INTEROP TO TDMA	-	QA04020AA	430	\$569.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ADD: SITE SELECTABLE ALERT FLP PORTABLE	-	QA00982AC	430	\$190.00
ENH: MILITARY DATA PACKAGE	Includes Q947: Radio Packet Data, C996: Programming Over P25 (POP25), QA00782AH: Internal Activation & GPS Basic Func., H02: Stun Kill/Tactical Inhibit, Night Vision Goggle (NVG) Profile, Infinite UKEK Retention, MGRS Coordinate Display in GPS App, TX/RX icon support on Portable Top Display, Permanent Disable TX/RX LED, Clear Mode alert upon receipt of an unencrypted transmission, Ignore clear voice when in secure only operation. Required to order AES encryption when using the Military Package with Conventional operation.	QA02590AC	430	\$727.00
ADD: DIGITAL TONE SIGNALING	-	QA09000AB	430	\$190.00
ADD: GROUP SERVICES FLP	Group Services offers Conventional Alias updates, Trunking Alias updates and Trunking Group Messaging. This option requires G/Q806 for Conventional only capabilities and G/Q361 for any Trunking only capabilities. You can now also do Over the Air Firmware Updates with this feature. (Requires Digital.	QA09008	430	\$190.00
ADD: MISSION CRITICAL GEOFENCING FLP	Requires GPS (FL/QA00782).	QA09012AB	430	\$190.00
ADD: THIRD PARTY DATA MODEM TETHERING	Requires WiFi (QA09001)	QA09011AB	430	\$127.00
ENH: WI-FI CAPABILITY FLP	-	QA09001AC	430	\$380.00
ADD: Adaptive Noise Suppression	-	QA09006	430	\$190.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: CONV VOTING SCAN UPGRADE	-	Q387AX	430	\$253.00
ADD: DVRS PSU ACTIVATION APX PORTABLE FLASHPORT	-	QA00631AC	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ADD: P25 LINK LAYER AUTHENTICATION	Requires P25 Trunking (Q361).	QA01767AV	430	\$127.00
ENH: ENHANCED ZONE BANK	This option will increase the channel/talkgroup capacity on a Model 1.5 Radio	QA01768AD	430	\$95.00
ADD: EXTREME NOISE REDUCTION	-	QA01833AF	430	\$32.00
ADD: MANDOWN OPERATION	-	QA01843	426	\$165.00
ADD: MANDOWN OPERATION	APX6000 customers ONLY- with radios using tanapas with revision A or B will also need to order the APX6000 MAN DOWN UPGRADE HW KIT in addition to the Man Down SW flashport option QA01843AB. Please contact your sales representative for further details.	QA01843AB	430	\$190.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q847) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00
ADD: SMARTCONNECT	Requires P25 9600 Trunking Q361, WiFi QA09001 and Service offering SSV01S01663A	QA07682	430	\$0.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ENH: MULTIKEY	-	H869CC	430	\$417.00
ENH: ASTRO 25 OTAR W/ MULTIKEY	-	Q498BA	430	\$936.00

Description	Full Description	Nomenclature	APC	Price
ADD: SOFTWARE LICENSE ONLINE DELIVERY	-	UA00083AA	430	\$0.00

STR 3000 Base Radio sub-system
FLASHport® Aftermarket Upgrades

Configuration

Description	Full Description	Nomenclature	APC	Price
800 MHZ SIMULCAST SW MIGRATION	-	T6759	729	\$0.00
700 MHZ SIMULCAST SW MIGRATION	-	T6956	729	\$0.00
700 MHZ SITE REPEATER SW MIGRATION	-	T6957	729	\$0.00

Options

Description	Full Description	Nomenclature	APC	Price
ENH: STR 3000 LATEST SHIPPING SOFTWARE	-	X870AA	729	\$2,300.00

Customer Technician Dispatch Service

Configuration
CUSTOMER TECHNICIAN DISPATCH SERVICE Service for Astro25 System Releases in Standard Support

Description	Nomenclature	APC	Price	Extended Support Price
Dispatch Service	SVC01SVC1102C	6		
Cust Tech Dispatch	SVC01SVC1105C	6		
ASTRO25 K-Core	K1 Master Site		\$1,068.43	\$1,388.96
	K2 Master Site		\$1,068.43	\$1,388.96
	Prime Site		\$1,068.43	\$1,388.96
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 L-Core	L1 Master Site		\$2,670.47	\$3,471.61
	L2 Master Site		\$2,670.47	\$3,471.61
	Prime Site		\$1,335.84	\$1,736.59
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 M-Core	M1 Master Site		\$8,011.41	\$10,414.83
	M2 Master Site		\$8,011.41	\$10,414.83
	M3 Master Site (First Zone)		\$8,008.99	\$10,411.69
	M3 Master Site (Add'l Zones)		\$8,008.99	\$10,411.69
	DSR Site		\$2,617.23	\$3,402.40
	Prime Site		\$3,285.15	\$4,270.70
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66

Dispatch Service

Configuration

Description	Nomenclature	APC	Standard Support Price	Extended Support Price
Dispatch Service	SVC01SVC1102C	6		
ASTRO25 K-Core	K1 Master Site		\$1,068.43	\$1,388.96
	K2 Master Site		\$1,068.43	\$1,388.96
	Prime Site		\$1,068.43	\$1,388.96
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 L-Core	L1 Master Site		\$2,670.47	\$3,471.61
	L2 Master Site		\$2,670.47	\$3,471.61
	Prime Site		\$1,335.84	\$1,736.59
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66
ASTRO25 M-Core	M1 Master Site		\$8,011.41	\$10,414.83
	M2 Master Site		\$8,011.41	\$10,414.83
	M3 Master Site (First Zone)		\$8,008.99	\$10,411.69
	M3 Master Site (Add'l Zones)		\$8,008.99	\$10,411.69
	DSR Site		\$2,617.23	\$3,402.40
	Prime Site		\$3,285.15	\$4,270.70
	Remote Site		\$214.17	\$278.42
	Dispatch Site		\$400.51	\$520.66

Infrastructure Repair Service

Configuration

Description	Nomenclature	APC	Price	Extended Price	
Infrastructure Repair	SVC01SVC1108C	929			
ASTRO25 K-Core	K1 Master Site		\$2,277.22	\$2,960.39	
	K2 Master Site		\$2,930.62	\$3,809.81	
	Prime Site		\$1,138.61	\$1,480.19	
	Console Ops		\$1,258.40	\$1,635.92	
	RF Stations		\$907.50	\$1,179.75	
	MIP5000 Gateway		\$73.81	\$95.95	
	ASTRO25 L-Core	L1 Master Site		\$4,030.51	\$5,239.66
		L2 Master Site		\$7,590.33	\$9,867.43
Prime Site			\$2,015.86	\$2,620.62	
Console Ops			\$1,258.40	\$1,635.92	
RF Stations			\$907.50	\$1,179.75	
MIP5000 Gateway			\$73.81	\$95.95	
SmartX Site Converter			\$499.73	\$649.65	
ISSI Network Gateway			\$523.93	\$681.11	
ASTRO25 M-Core	M1 Master Site		\$7,327.76	\$9,526.09	
	M2 Master Site		\$13,086.15	\$17,012.00	
	M3 Master Site		\$18,843.33	\$24,496.33	
	DSR Site		\$7,851.69	\$10,207.20	
	Prime Site		\$10,353.97	\$13,460.16	
	Console Ops		\$1,258.40	\$1,635.92	
	RF Stations		\$907.50	\$1,179.75	
	MIP5000 Gateway		\$73.81	\$95.95	
	SmartX Site Converter		\$499.73	\$649.65	
	ISSI Network Gateway		\$523.93	\$681.11	

Infrastructure Repair with Advanced Replacement Service

Configuration

Description	Nomenclature	APC	Price	Extended Price
Infrastructure Repair with Advanced Replacement	SVC01SVC1101C	929		
ASTRO25 K-Core	K1 Master Site		\$2,799.94	\$3,639.92
	K2 Master Site		\$3,611.85	\$4,695.41

	Prime Site	\$1,399.97	\$1,819.96
	Console Ops	\$1,511.29	\$1,964.68
	RF Stations	\$1,360.04	\$1,768.05
	MIP5000 Gateway	\$106.48	\$138.42
ASTRO25 L-Core	L1 Master Site	\$5,626.50	\$7,314.45
	L2 Master Site	\$10,574.19	\$13,746.45
	Prime Site	\$2,813.25	\$3,657.23
	Console Ops	\$1,511.29	\$1,964.68
	RF Stations	\$1,360.04	\$1,768.05
	MIP5000 Gateway	\$106.48	\$138.42
	SmartX Site Converter	\$790.13	\$1,027.17
	ISSI Network Gateway	\$726.00	\$943.80
ASTRO25 M-Core	M1 Master Site	\$10,468.92	\$13,609.60
	M2 Master Site	\$18,320.61	\$23,816.79
	M3 Master Site	\$26,172.30	\$34,023.99
	DSR Site	\$10,992.85	\$14,290.71
	Prime Site	\$12,424.28	\$16,151.56
	Console Ops	\$1,511.29	\$1,964.68
	RF Stations	\$1,360.04	\$1,768.05
	MIP5000 Gateway	\$106.48	\$138.42
	SmartX Site Converter	\$790.13	\$1,027.17
	ISSI Network Gateway	\$726.00	\$943.80

AdvancedServices for ASTRO 25 Systems

Configuration	Description	Nomenclature	APC	Price
	Infrastructure Repair with Advanced Replacement	SVC01SVC1101A	929	
		ASTRO Express for Supported Releases		
		ASTRO Express Remote Site		\$1,125.00
		ASTRO Express Station		\$1,012.00
		ASTRO Express Operator Positions		\$1,125.00
		ASTRO25 Infrastructure for Supported Releases		
		K1 Master Site		\$2,545.40
		K2 Master Site		\$3,283.50
		Prime Site		\$1,272.70
		Remote Site		\$-
		Dispatch Site		\$-
		Operator Position		\$1,373.90
		Stations		\$1,236.40
		L1 Master Site		\$5,115.00
		L2 Master Site		\$9,612.90
		Prime Site		\$2,557.50
		Remote Site		\$-
		Dispatch Site		\$-
		Operator Position		\$1,373.90
		Stations		\$1,236.40
		M1 Master Site		\$9,517.20
		M2 Master Site		\$16,655.10
		M3 Master Site		\$23,793.00
		DSR Site		\$9,993.50
		Prime Site		\$11,294.80
		Remote Site		\$0.00
		Dispatch Site		\$0.00
		Operator Position		\$1,373.90
		Stations		\$1,236.40
		MIP5000 Gateway		\$96.80
		SmartX Site Converter		\$718.30
		ISSI Network Gateway		\$660.00
		MCC5500 Console		\$605.00
		E911 Infrastructure for Supported Releases		
		Gold Series Elite or E911 Airbus Vesta Maars (Standard)		874.94
		MCC5000 or E911 Airbus Vesta Maars (Standard)		\$604.80
	Mototrbo Infrastructure Repair with Advanced Replacement	SVC01SVC0331A	23	
		XRT9000 Gateway		\$1,285.20
		XRC9000 Single Site Controller		\$1,285.20
		XRC9000 Multi Site Controller		\$1,285.20
		SLR5000 Repeater		\$198.00
		MTR3000 Repeater		\$271.92
		MIP5000 Gateway		\$85.08
		MIP5000 Console		\$409.50
		SLR8000		\$420.00

LINK Services

Configuration	Item	Description	APC	Price
	* Services Setup (one-time fee for each LINK customer)	Includes all Hardware, Software, and labor required to integrate existing systems and set up the services to meet required Service level agreements.	989	\$10,000 /unit
	** Recurring Monthly User Fees	Fees associated with providing ongoing services to meet coverage, capacity, availability, and resilience commitments. Includes infrastructure network and security operations services, software, and hardware.	989	Cat. A \$30 Cat. B \$50 Cat. C \$70 Cat. D \$90 Cat. E \$110

Local Device Combo Package

Local Device Combo	TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price

4	LSV00S00051A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$132.00
5	LSV00S00052A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$168.00
6	LSV00S00053A	CONSOLETTTE	\$168.00
7	LSV00S00156A	APX1500, APX4500 APX2500 (CA only)	\$114.00
8	LSV00S00157A	APX6500, APX6500LI, APX7500, APX8500	\$168.00
2	LSV00S00049A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$66.00
3	LSV00S00050A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$84.00
32	LSV00S01296A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$75.00

Local Device Combo w Pickup and Delivery

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00214A	MT1500, PR1500, APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$162.00
5	LSV00S00215A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$198.00
6	LSV00S00216A	APX7500 CONSOLETTTE	\$198.00
7	LSV00S00217A	PM1500, XTL2500, APX1500, APX4500 APX2500 (CA only)	\$144.00
8	LSV00S00218A	APX6500, APX6500LI, APX7500, APX8500	\$198.00
2	LSV00S00212A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$96.00
3	LSV00S00213A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$114.00
32	LSV00S01298A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$105.00

Local Radio Support Service

Local Device Support

TIER	SERVICE ITEM	DEVICE PRODUCTS	List Price
4	LSV00S00046A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$66.00
5	LSV00S00047A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$78.00
6	LSV00S00048A	CONSOLETTTE	\$78.00
7	LSV00S00154A	APX1500, APX4500 APX2500 (CA only)	\$66.00
8	LSV00S00155A	APX6500, APX6500LI, APX7500, APX8500	\$78.00
2	LSV00S00152A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$26.40

3	LSV00S00153A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$33.00
32	LSV00S01295A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$33.00

Local Device Support w Pickup and Delivery

TIER	SERVICE ITEM	MOTOTRBO PORTABLE AND MOBILE PRODUCTS	List Price
4	LSV00S00206A	APX900, APX1000, APX3000, APX4000, SRX2200 APX2000 (CA ONLY)	\$96.00
5	LSV00S00207A	APX4000XH, APX6000, APX6000LI, APX6000XE, APX7000, APX7000LI, APX7000XE, APX8000, APX8000XE	\$108.00
6	LSV00S00208A	APX7500 CONSOLETTTE	\$108.00
7	LSV00S00209A	PM1500, XTL2500, APX1500, APX4500, APX2500 (CA only)	\$96.00
8	LSV00S00210A	APX6500, APX6500LI, APX7500, APX8500	\$108.00
2	LSV00S00204A	CM200, CM300, CM200d, CM300d, CP185, CP200d, PM400, PR400, PRO2150, SL300	\$56.40
3	LSV00S00205A	XPR 7550e / XPR 7580e, XPR 7350e / XPR 7380e, XPR 5550e / XPR 5580e, XPR 5350e / XPR 5380e, SL 7550e / SL 7580e / SL 7590e, SL 7550 / SL 7580 / SL 7590, XPR 7550 / XPR 7580, XPR 7350 / XPR 7380, XPR 5550 / XPR 5580, XPR 5350 / XPR 5380, EX600 XLS, HT750, HT1250, HT1250 LS, HT1250 LS+, MULTI-UNIT CHARGERS, SL7550, SL7590, SL7580, XPR4350 VHF/UHF, XPR4380, XPR4550, XPR4580, XPR6380, XPR6580, HT750 MSHA	\$63.00
32	LSV00S01297A	SL3500e, XPR3300e, XPR3500e, XPR2500e	\$63.00

Subscriber Diagnostics Service

Configuration

Description	Full Description	Nomenclature	APC	Price
DiagX Overair Wave Form Analyzer		SVC03SVC0319A	293	\$54,900.00
Single Protocol/Dual Band		SVC03SVC0321A	293	\$57,900.00
Dual Protocol/Single Freq Band		SVC03SVC0322A	293	\$69,500.00
Dual Protocol/Dual Freq Band		SVC03SVC0323A	293	\$72,500.00
Subscriber Diag Protocol Upgrade		SVC01SVC0228A	293	\$19,900.00
Subscriber Diag Extended Warranty		SVC01SVC0229A	293	\$4,900.00
Subscriber Diag 3 Yr Ext Serv Plus Prtd Upgrade		SVC01SVC0214A	293	\$19,000.00

SURGE PROTECTION DEVICES (SPDs)

SPD, TYPE 2A, 120/240VAC 1-PHASE NEMA 4X ENCLOSURE, SAD/MOV		DSAPEXIMAX808	207	\$2,266.00
SPD, TYPE 2A, 120/208VAC, 3 PHASE NEMA 4X ENCLOSURE, SAD/MOV		DSAPEXIMAX809	207	\$2,678.00
Type 2 SPDs				
SPD, TYPE 2B, 120/240VAC, 1-PHASE, NEMA 4X ENCLOSURE, MOV		DSAPEXIMAX808MM	207	\$1,339.00
SPD, TYPE 2B, 120/208VAC, 3-PHASE, NEMA 4X ENCLOSURE, MOV		DSAPEXIMAX809MM	207	\$1,926.00
Type 3 120V Hard Wire SPDs				
PDU, 120V HARDWIRE (8) 20A OUTLET PDU WITH TYPE 3 SAD PROTECTION		DSOP820B	207	\$1,154.00
Type 3 120V Plug-In SPDs				
SPD, TYPE 3, 120VAC, 15A PLUG-IN WITH 15A SIMPLEX OUTLET		DSSL120	207	\$132.00
SPD, TYPE 3, 120V RACK MOUNT, 20A TWIST LOCK DUAL FEED INPUT W/4 PER		DS1400	207	\$1,000.00
SPD, TYPE 3, 120V RACK MOUNT, 20A STD PLUG-IN INPUT W/ 4 OUTLETS PER		DSRMP420B	207	\$1,686.00
SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS		DSRMP615A	207	\$258.00
Data and Telephony SPDs				
SPD, RJ-11 CONNECTED FOR DIAL-UP, POTS, FAX, MODEM LINES		DSCP2278	207	\$85.00
SPD, SHIELDED RJ-45 JACK, SINGLE LINE GBE (100MBPS) R56 COMPLIANT		DS1101990	207	\$140.00
SPD, RJ-45 OR HARDWIRE CONNECTED FOR T1/E1, PROTECTS 4 WIRES		DSTSJ48CLT	207	\$123.00
PROTECTION MODULE, OPERATOR STATIC EME PROTECTOR W/ DB15 MF CONNECTOR		DSVPR3MCC	207	\$251.00
SPD, HPD GPS DATA LINE, 48VDC, HARD WIRE WITH ISOLATED GROUNDING		DSIX2L1M1DC48IG	207	\$225.00
SPD, PUNCH DOWN FOR M66 BLOCK, PAIR PROTECTION 40V FOR ALARM CIRCUITS		DSPBM6607	207	\$66.00
Data and Telephony Rack Mount SPDs				
SPD, RJ-45 CONN (16) LINE 10/100BT ETHERNET 11VPL PINS (1,2) & (3,6)		DSCPX1101984	207	\$1,152.00
SPD, RJ-45 CONNECTED (16) LINE GIGE ETHERNET, 11VPL ON ALL PINS		DSCPX1101985	207	\$1,627.00
SPD, RJ-45 CONNECTED (16) LINE T1/E1, 11VPL ON PINS (1,2) & (4,5)		DSCPX1101986	207	\$1,118.00

Adapter Plates

Description	Full Description	Nomenclature	APC	Price
RACK MT ADAPTER PLATE, 19 IN FOR DSOP820B, DSOP820B2 & DSNOP820B		DS1101378	207	\$62.00
RACK MT ADAPTER PLATE, 19 IN SCH FOR DSOP820B, DSOP820B2 & DSNOP820B		DS11013781	207	\$73.00
RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS		DSTSJADP	207	\$100.00
International Hard Wire Applications				
PDU, 240V HW (8) IEC 320 OUTLET PDU W/TYPE 3 SAD PROTECTION		DSOP820B2	207	\$1,479.00
Miscellaneous				
PDU, 120/240 SPLIT PH OR N+1 REDUNDANT, 60A MAX PER PHASE, SIX DEDICAT		DS11011188	207	\$2,790.00
BREAKER, 5 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)		DS3750295	207	\$61.00
BREAKER, 10 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)		DS3750296	207	\$69.00
BREAKER, 15 AMP, CB UL 489 LISTED FOR AC EDGE II (1101-1188)		DS3750297	207	\$62.00
RF SPDs and Filters				
RF SPD, 700-1000MHZ BROADBAND 15 VDC PASS NM ANT, NF EQUIP PIP, ASIG		DS1090501WA	207	\$168.00
RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NM ANTENNA, NF EQUIPMENT SIDE		DSISB50HNC2MA	207	\$96.00
RF SPD, 125-1000MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE		DSIS50NXC2MA	207	\$73.00
RF SPD, 698-2700MHZ DC BLOCK HI PWR, DIN FEM/FEM BI-DIR W/ BRACKET		DSTSXFDFBF	207	\$178.00
RF SPD, 1.5-700MHZ DC BLOCK FLANGE MT NM ANTENNA, NF EQUIPMENT SIDE		DSIS50NXC0MA	207	\$80.00
RF SPD, 100-512MHZ DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP		DSVHF50DMAPGR	207	\$189.00
RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN FEMALE/FEMALE BI-DIRECTIONA		DSTUSXDFM	207	\$175.00
RF SPD, 125-1000MHZ DC BLOCK BULKHEAD MT NF ANTENNA, NF EQUIPMENT SIDE		DSISB50HNC2	207	\$96.00
RF SPD, 400-1200MHZ HYBRID +36 VDC PASS NM ANTENNA, NF EQUIPMENT		DSCG236NMNFA	207	\$127.00
RF SPD, 125-1000MHZ DC BLOCK BROADBAND BULKHEAD MT, NM ANT, NF EQUIP		DSISB50LNC2MA	207	\$87.00
RF SPD, 300-1200MHZ DC BLOCK HIGH PWR, DIN MALE/FEMALE BI-DIRECTIONAL		DSTUSXDFM	207	\$176.00
RF SPD, 698 MHz-2.7 GHz, 60VDC PASS, DIN, MALE/FEM PIM/PIM RATED, ASIG		DSTSXDCCDFM	207	\$165.00
RF SPD, 698-2700MHZ DC BLOCK HIGH PWR, DIN FEM/MALE BI-DIR W/ BRACKET		DSTSXFDFBF	207	\$178.00
RF SPD, 2.6GHZ DC BLOCK FILTER 10W, NF ANTENNA SIDE, NF EQUIPMENT SIDE		DSALLSXM	207	\$62.00
RF SPD, 700-1000MHZ BROADBAND 12 VDC PASS NF ANT, NF EQUIP PIP, ASIG		DS1090501WD	207	\$158.00
4.3-10 M/F BULKHEAD COAX RF SURGE PROTECTOR, 698MHZ - 2.7GHZ PIM		DSTX4310FFMP	207	\$172.00
4.3-10 F/F BULKHEAD COAX RF SURGE PROTECTOR, 698MHZ - 2.7GHZ PIM		DSTX4310FFFP	207	\$169.00
DC PASS, BIDIRECTIONAL FEMALE/MALE 698MHZ - 2.7GHZ, PIM RATED		DSTSXDCA310FM	207	\$203.00
DC PASS, BIDIRECTIONAL FEMALE/FEMALE 698MHZ - 2.7GHZ, PIM RATED		DSTSXDCA310FF	207	\$203.00
4.3-10 F/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT UP		DSVHF50B43BU	207	\$202.00
4.3-10 F/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT DN		DSVHF50B43BD	131	\$202.00
4.3-10 M/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT UP		DSVHF50B43MABU	207	\$202.00
4.3-10 M/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT DN		DSVHF50B43MABD	207	\$202.00
4.3-10 F/M RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT UP		DSVHF50B43MEBU	207	\$202.00
4.3-10 F/M RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, BKT DOWN		DSVHF50B43MEBD	207	\$202.00
4.3-10 F/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BKT UP		DSVHF50B43PGRBU	207	\$218.00
4.3-10 F/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BKT DN		DSVHF50B43PGRBD	207	\$218.00
4.3-10 M/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BKT UP		DSVHF50B43MAPGRBU	207	\$218.00
4.3-10 M/F RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BRKT DN		DSVHF50B43MAPGRBD	207	\$218.00
4.3-10 F/M RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BKT UP		DSVHF50B43MEPGRBU	207	\$218.00
4.3-10 F/M RF SPD, 100-520MHZ, DC BLOCK, 750W, 20KA, LOW-PIM, BKT DN		DSVHF50B43MEPGRBD	207	\$218.00

Enhanced Telephone Interconnect for ASTRO 25 Systems A7.17.3 and later releases

Master Enhanced Telephone Interface Model

Description	Full Description	Nomenclature	APC	Price
NEC BASE SYSTEM IP PBX BUNDLE FOR 3 LINE SYSTEM PLUS 2 YR SUPPORT	NEC BASE SYSTEM IP PBX BUNDLE FOR 3 LINE SYSTEM PLUS 2 YR SUPPORT	TT3315	207	\$17,906.00
THREE LINE NON-JITC COMPLIANT ADD-ON TO MSI BASE SYSTEM PLUS 2 YR MAIN	THREE LINE JITC COMPLIANT ADD-ON TO MSI BASE SYSTEM PLUS 2 YR MAIN	TT3316	207	\$18,044.00
MOTO BASE DL160 (RADIO ONLY)	NEC IP PBX Server HPE DL160 G10 Server IP PBX BUNDLE FOR 3 LINE SYSTEM PLUS 2 YR SUPPORT	DSQ24FR00000139550	207	\$18,743.00

MSI Certification

Choose ONE option (Mandatory)

NEC Media Gateways

Options

Additional Capacity

Description	Full Description	Nomenclature	APC	Price
ADD: CAPACITY FOR 3 CALL LINES	-	CA01778AA	281	\$12,000.00

Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: AES ALGORITHM, ETI	-	CA00182AU	281	\$750.00
ADD: DES-OFB ALGORITHM, ETI	-	CA00143AE	281	\$750.00
ADD: ADP ALGORITHM, ETI	-	CA00245AB	281	\$750.00
ADD: DVI-XL ALGORITHM, ETI	-	CA00145AL	281	\$750.00
ADD: DVP-XL ALGORITHM, ETI	-	CA00146AM	281	\$750.00
ADD: DES-XL ALGORITHM, ETI	-	CA00144AD	281	\$750.00

Additional Licenses

Description	Full Description	Nomenclature	APC	Price
LICENSING, ADDITIONAL 3 SIM. LINES, 2 YRS SUPPORT	-	TT05501AA	207	\$3,240.00

Accessories

Firewall

Description	Full Description	Nomenclature	APC	Price
FORTINET FIREWALL APPLIANCE	Fortinet 101E Firewall Appliance	T8586	877	\$3,300.00

Rack Mount Hardware

Description	Full Description	Nomenclature	APC	Price
VPM POWER SUPPLY MOUNTING KIT	Used primarily when the T7599 is used as a SmartX Site Converter. Holds up to three power supplies.	BLN1297	277	\$250.00

TOWER TOP AMPLIFIERS 700/800 MHZ

DBSPECTRA TTA PARTS - ESS

Description	Full Description	Nomenclature	APC	Price
8 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND T	DBSPECTRA PART#: A07SYSSD08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD08AN	351	\$24,484.00
16 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD16AN	351	\$25,634.00
24 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD24AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD24AN	351	\$26,784.00
32 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD32AN	351	\$27,934.00
8 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND T	DBSPECTRA PART#: A07SYSSD08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD08AM	351	\$24,829.00
16 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD16AM	351	\$25,979.00
24 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD24AM	351	\$27,129.00
32 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND	DBSPECTRA PART#: A07SYSSD32AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD32AM	351	\$28,279.00
8 CHANNEL STAND ALONE DUAL BRANCH TTA SYSTEM INCLUDES C&DU UNITS AND T	DBSPECTRA PART#: A07SYSSD08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSSD08DN	351	\$24,944.00

8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08DN	457	\$12,472.00
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16DN	457	\$13,047.00
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24DN	457	\$13,622.00
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32DN	457	\$14,197.00
8 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS08DM	457	\$12,645.00
16 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS16DM	457	\$13,220.00
24 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS24DM	457	\$13,794.00
32 CHANNEL STAND ALONE SINGLE BRANCH TTA SYSTEM INCLUDES C&DU AND TTA,	DBSPECTRA PART#: A07SYSS32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07SYSS32DM	457	\$14,370.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNECT	DBSPECTRA PART#: A07CUSM08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08AN	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNEN	DBSPECTRA PART#: A07CUSM16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16AN	457	\$6,452.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, N CONNEN	DBSPECTRA PART#: A07CUSM32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32AN	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 CO	DBSPECTRA PART#: A07CUSM08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08AM	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16AM	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , AC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24AM	457	\$7,027.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNECT	DBSPECTRA PART#: A07CUSM08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08DN	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEN	DBSPECTRA PART#: A07CUSM16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16DN	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEN	DBSPECTRA PART#: A07CUSM24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24DN	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, N CONNEN	DBSPECTRA PART#: A07CUSM32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32DN	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 CO	DBSPECTRA PART#: A07CUSM08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM08DM	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM16DM	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM24DM	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE MAIN CONTROL UNIT , DC SUPPLY, 4.3-10 C	DBSPECTRA PART#: A07CUSM32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSM32DM	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N CO	DBSPECTRA PART#: A07CUSD08AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08AN	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD16AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16AN	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD24AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24AN	457	\$7,027.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, N C	DBSPECTRA PART#: A07CUSD32AN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32AN	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3-	DBSPECTRA PART#: A07CUSD08AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08AM	457	\$5,877.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD16AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16AM	457	\$6,452.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD24AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24AM	457	\$7,027.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , AC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD32AM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32AM	457	\$7,602.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N CO	DBSPECTRA PART#: A07CUSD08DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08DN	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD16DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16DN	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD24DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24DN	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, N C	DBSPECTRA PART#: A07CUSD32DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32DN	457	\$7,832.00
8 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3-	DBSPECTRA PART#: A07CUSD08DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD08DM	457	\$6,107.00
16 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD16DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD16DM	457	\$6,682.00
24 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD24DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD24DM	457	\$7,257.00
32 CH, 700/800 MHZ STAND ALONE DIVERSITY CONTROL UNIT , DC SUPPLY, 4.3	DBSPECTRA PART#: A07CUSD32DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07CUSD32DM	457	\$7,832.00
700/800 MHZ DIVERSITY TTA, N CONNECTOR	DBSPECTRA PART#: A07TTA-DN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTADN	457	\$6,365.00
700/800 MHZ DIVERSITY TTA, 4.3-10 CONNECTOR	DBSPECTRA PART#: A07TTA-DM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTADM	457	\$6,538.00
700/800 MHZ MAIN TTA, N CONNECTOR	DBSPECTRA PART#: A07TTA-MN SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTAMN	457	\$6,365.00
700/800 MHZ MAIN TTA, 4.3-10 CONNECTOR	DBSPECTRA PART#: A07TTA-MM SPEC SHEET LINK: www.dbspectra.com/specifications/700-800_MHz_Diversity_Tower_Top_Amplifier_System.pdf	DSA07TTAMM	457	\$6,538.00
900 MHZ, TOWER TOP CONTROL UNIT, -48VDC	DBSPECTRA PART#: NPD2537A-CUD SPEC SHEET LINK: www.dbspectra.com/specifications/NPD2537ASYS_SpecSheet.pdf	DSNP2537ACUD	457	\$6,797.00

Configuration

FILTRONIC ESS FULLY REDUNDANT TTA - INCLUDES DIVERSITY AND NON DIVERSITY MODELS

Description	Full Description	Nomenclature	APC	Price
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, N-CONNECTORS	FILTRONIC PART#: SAC001-V1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSAC001V1P	457	\$5,466.00
TOWER TOP AMPLIFIER, 700/800MHZ REDUNDANT AMP, 4.3-10 CONNECTORS	FILTRONIC PART#: SAC001-V2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSAC001V2P	457	\$5,456.00
CONTROL UNIT, ESS, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG001-F1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG001F1P	457	\$2,984.00
CONTROL UNIT, ESS, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG001-F2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG001F2P	457	\$3,274.00
POWER SUPPLY ADAPTER, 110V AC TO 48V DC, SINGLE OUTPUT	FILTRONIC PART#: PSU-000001-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/PSU-000001-Globtek-TR9CX1250T0CIR6B.pdf	DSPSU000001P	457	\$90.00
SURGE PROTECTOR, LIGHTNING, (ANT. N-F) TO (EQUIP. N-F), DC PASS THRU	FILTRONIC PART#: MVG002V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/MVG002-P-Polyphaser-lightening-protector-109-0501W-D.pdf	DSMVG002V1P	457	\$367.00
TERMINATOR, 50 OHM, BNC	FILTRONIC PART#: CON-000460-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/CON-000460.pdf	DSCON000460P	457	\$6.50
MOUNTING KIT, TTA, SINGLE UNIT	FILTRONIC PART#: KIT-000044-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSKIT000044P	457	\$85.00
MOUNTING KIT, TTA, DUAL, N-TYPE CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V1-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSKIT000045V1P	457	\$371.00
MOUNTING KIT, TTA, DUAL, 4.3-10 CONNCTR, W/TEST PORT POWER SPLTR	FILTRONIC PART#: KIT-000045-V2-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSKIT000045V2P	457	\$371.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG005-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG005P	457	\$8,826.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, NON-DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG006-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG006P	457	\$8,535.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, DUAL PWR SUPPLY, -48	FILTRONIC PART#: SGG007-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG007P	457	\$17,907.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG008-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG008P	457	\$17,327.00
700/800 MHZ, TTA SYSTEM, ESS, N-TYPE, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG009-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P-ESS.pdf	DSSG009P	457	\$8,519.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY,	FILTRONIC PART#: SGG012-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P-ESS.pdf	DSSG012P	457	\$16,137.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, DUAL PWR SUPPLY,	FILTRONIC PART#: SGG013-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSG013P	457	\$8,826.00

700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, NON-DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG014-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG014P	457	\$8,535.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, DUAL PWR SUPPLY	FILTRONIC PART#: SGG015-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG015P	457	\$17,907.00
700/800 MHZ, TTA SYSTEM, ESS, 4.3-10, DIVERSITY, SINGLE PWR SUPPLY	FILTRONIC PART#: SGG016-P SPEC SHEET LINK: https://filtronic.com/msi/sgg0xx-p-ess/	DSSGG016P	457	\$17,327.00
SHELF, 1U, HOLDS UP TO (4) DSPSU000001P POWER SUPPLY ADAPTERS	FILTRONIC PART#: MGG002-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/DTS-MGG002-V1-P-1.pdf	DSMGG002V1P	457	\$187.00

FILTRONIC STAND ALONE (SA) TTA - FULLY REDUNDANT INCLUDES DIVERSITY AND NON DIVERSITY MODELS

CONSULT THE FILTRONIC SPEC SHEET FOR ORDERING GUIDE WITH DIRECTIONS ON HOW TO ORDER FILTRONIC TTA SYSTEMS

Description	Full Description	Nomenclature	APC	Price
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, NON-DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG025-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG025P	457	\$10,087.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG026-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG026P	457	\$9,769.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, NON-DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG033-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG033P	457	\$10,086.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG034-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG034P	457	\$9,769.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG045-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG045P	457	\$10,776.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG046-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG046P	457	\$10,349.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG053-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG053P	457	\$10,776.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG054-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG054P	457	\$10,349.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG065-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG065P	457	\$12,041.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG066-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG066P	457	\$11,615.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, NON-DIVERSITY, DUAL	FILTRONIC PART#: SGG073-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG073P	457	\$12,041.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, NON-DIVERSITY, SINGLE	FILTRONIC PART#: SGG074-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG074P	457	\$11,615.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG023-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG023P	457	\$19,658.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, SINGLE PWR S	FILTRONIC PART#: SGG024-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG024P	457	\$18,867.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG027-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG027P	457	\$20,428.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG028-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG028P	457	\$19,794.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG031-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG031P	457	\$19,658.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG032-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG032P	457	\$18,867.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, DUAL PWR SUP	FILTRONIC PART#: SGG035-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG035P	457	\$20,428.00
700/800 MHZ, TTA SYSTEM, S.A. 8-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG036-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG036P	457	\$19,794.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG043-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG043P	457	\$20,960.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG044-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG044P	457	\$19,962.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG047-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG047P	457	\$21,808.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG048-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG048P	457	\$20,955.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG051-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG051P	457	\$20,960.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG052-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG052P	457	\$19,962.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG055-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG055P	457	\$21,808.00
700/800 MHZ, TTA SYSTEM, S.A. 16-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG056-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG056P	457	\$20,955.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG063-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG063P	457	\$23,347.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG064-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG064P	457	\$22,349.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG067-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG067P	457	\$24,339.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, N-TYPE, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG068-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG068P	457	\$23,860.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG071-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG071P	457	\$23,347.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG072-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG072P	457	\$22,349.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, DUAL PWR	FILTRONIC PART#: SGG075-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG075P	457	\$24,339.00
700/800 MHZ, TTA SYSTEM, S.A. 32-PORTS, 4.3-10, DIVERSITY, SINGLE PWR	FILTRONIC PART#: SGG076-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSGG076P	457	\$23,485.00
CONTROL AND DISTRIBUTION UNIT, S.A. 8-PORT, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG002-F1-V8-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F1V8P	457	\$4,218.00
CONTROL AND DISTRIBUTION UNIT, S.A. 8-PORT, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG002-F2-V8-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F2V8P	457	\$4,535.00
CONTROL AND DISTRIBUTION UNIT, S.A. 16-PORT, SINGLE -48 VDC INPUT	FILTRONIC PART#: SEG002-F1-V16-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F1V16P	457	\$4,798.00
CONTROL AND DISTRIBUTION UNIT, S.A. 16-PORT, REDUNDANT -48 VDC INPUT	FILTRONIC PART#: SEG002-F2-V16-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSSEG002F2V16P	457	\$5,225.00
EXPANSION KIT, CONTROL AND DISTRIBUTION UNIT, 16 PORT, PASSIVE	FILTRONIC PART#: MTG004-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSMTG004P	457	\$1,265.00
EXPANSION KIT, 8 PORTS TO 16 PORTS [MODULE INTERNAL TO SEG002-F*]	FILTRONIC PART#: MTG005-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/SGG0xx-P_SA.pdf	DSMTG005P	457	\$573.00
SHELF, 1U, HOLDS UP TO (4) DSPSU000001P POWER SUPPLY ADAPTERS	FILTRONIC PART#: MGG002-V1-P SPEC SHEET LINK: https://filtronic.com/wp-content/uploads/DTS-MGG002-V1-P-1.pdf	DSMGG002V1P	457	\$187.00

TXRX 440 SERIES TTA
THE 440 SERIES TTA MEETS THE NEW MSI TTA SPEC AS OF 2020, REPLACES THE TXRX 428 TTA MODEL SERIES.
440 TTA IS FULLY REDUNDANT

Description	Full Description	Nomenclature	APC	Price
TTA 440, MOTOROLA TOWER TOP UNIT, 794-824 MHZ, 4.3-10 CONNS, AUTOQUAD	TXRX PART#: 440-030221 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBws8_gu4_Coq4b607Kqaqy0/view?usp=sharing	DS440030221	457	\$6,403.00
TTA 440, MOTOROLA C&DU (SA), 794-824MHZ, 16 PORT BYPASS TEST PORT ETHE	TXRX PART#: 440-030222 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBws8_gu4_Coq4b607Kqaqy0/view?usp=sharing	DS440030222	457	\$6,010.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030677 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBws8_gu4_Coq4b607Kqaqy0/view?usp=sharing	DS440030677	457	\$6,431.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 16 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030678 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBws8_gu4_Coq4b607Kqaqy0/view?usp=sharing	DS440030678	457	\$6,304.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-030883 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPIeBws8_gu4_Coq4b607Kqaqy0/view?usp=sharing	DS440030883	457	\$6,728.00

TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 1AC	TXRX PART#: 440-030684 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440030684	457	\$4,906.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 1DC	TXRX PART#: 440-030685 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440030685	457	\$5,175.00
TTA 440, MOTOROLA C&DU (SA), 794-824MHZ, 16 PORT BYPASS TEST PORT ETHE	TXRX PART#: 440-032963 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032963	457	\$6,100.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032965 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032965	457	\$6,514.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 16 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032967 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032967	457	\$6,603.00
TTA 440, MOTOROLA C&DU (SA), 794-824 MHZ, 32 PORT, BYPASS, TEST PORT,	TXRX PART#: 440-032969 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032969	457	\$7,024.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 2AC	TXRX PART#: 440-032970 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032970	457	\$4,989.00
TTA 440, MOTOROLA CU (ESS), 794-824 MHZ, BYPASS, TEST PORT, 2DC	TXRX PART#: 440-032971 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440032971	457	\$5,479.00
TTA 440, MOTOROLA TOWER TOP UNIT, 794-824 MHZ, N CONNS, AUTOQUAD W/ BY	TXRX PART#: 440-034392 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS440034392	457	\$6,403.00
794-824 MHZ, 3 MHZ BANDWIDTH PRESELECTION FOR 440 TTA	TXRX PART#: 89-030691 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS89030691	457	\$1,311.00
794-824 MHZ, 6 MHZ BANDWIDTH PRESELECTION FOR 440 TTA	TXRX PART#: 89-030692 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS89030692	457	\$1,552.00
794-824 MHZ, 9 MHZ BANDWIDTH PRESELECTION FOR 440 TTA	TXRX PART#: 89-030693 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS89030693	457	\$1,281.00
794-824 MHZ, 15 MHZ BANDWIDTH PRESELECTION FOR 440 TTA	TXRX PART#: 89-030694 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS89030694	457	\$1,552.00
794-824 MHZ, 18 MHZ BANDWIDTH PRESELECTION FOR 440 TTA	TXRX PART#: 89-030695 SPEC SHEET LINK: https://drive.google.com/file/d/1prv6QPleBws8_gu4_Coq4b6O7Kqaqy0/view?usp=sharing	DS89030695	457	\$1,552.00

Models

TOWER TOP AMPLIFIERS

TXRX DUAL DIVERSITY TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01C110	457	\$3,705.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC	TXRX PART#: 432F-83W-01-C-48 SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01C48	457	\$4,137.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT,SNMP,	TXRX PART#: 432F-83W-01-M-110 SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01M110	457	\$5,451.00
MULTICOUPLER UNIT, DUAL DIVERSITY,796- 824 MHZ, SNMP, 48VDC	TXRX PART#: 432F-83W-01-M-48 SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01M48	457	\$6,477.00
TTA, DUAL DIVERSITY, 794-824MHZ,DUAL DIVERSITY,TOWER BOX,	TXRX PART#: 432F-83W-01-T SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01T	457	\$9,522.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,110VAC	TXRX PART#: 432F-83W-01-C-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01C110R	457	\$4,398.00
ESS DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,SNMP,48VDC,	TXRX PART#: 432F-83W-01-C-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01C48R	457	\$4,830.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-110R SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01M110R	457	\$6,144.00
SA DUAL BRANCH MONITORING UNIT, 794-824MHZ,DUAL DIVERSITY,16PORT	TXRX PART#: 432F-83W-01-M-48R SPEC SHEET LINK: https://drive.google.com/file/d/1xLlNsG6pwn3YrCP4BQ22ThpMYTYGey/view?usp=sharing	DS432F83W01M48R	457	\$7,167.00

TXRX NON REDUNDANT Tower Top Amplifier System and options

Description	Full Description	Nomenclature	APC	Price
MULTICOUPLER UNIT, 796-824 MHZ, 48 VDC	The TXRX RMC05 (DS4338301M48) should be ordered with the TXRX TTA03 (DS4338301T).	DS4338301M48	457	\$4,160.00
TTA, MINI SINGLE AMP, 796-824 MHZ, SINGLE NETWORK, TOWER BOX	The TXRX TTA03 (DS4338301T) should be ordered with the TXRX RMC05 (DS4338301M110 for 110VAC or DS4338301M48 for 48VDC).	DS4338301T	457	\$3,312.00
MULTICOUPLER UNIT, 796-824 MHZ, 110 VAC	The TXRX RMC05 (DS4338301M110) should be ordered with the TXRX TTA03 (DS4338301T).	DS4338301M110	457	\$2,783.00

TOWER TOP AMPLIFIERS 900 MHZ

DBSPECTRA TTA Fully Redundant TTA for Public Safety and options

Description	Full Description	Nomenclature	APC	Price
900 MHZ, TOWER TOP AMPLIFIER SYSTEM, -48VDC	DBSPECTRA PART#: NPD2537ASYSD SPEC SHEET LINK: www.dbspectra.com/specifications/NPD2537ASYSD_SpecSheet.pdf	DSNPD2537ASYSD	457	\$12,662.00
900 MHZ, TOWER TOP AMPLIFIER SYSTEM, AC	DBSPECTRA PART#: NPD2537A-SYS SPEC SHEET LINK: https://www.dbspectra.com/specifications/NPD2537A-SYS.pdf	DSNPD2537A-SYS	457	\$12,938.00

700 MHz Transmitter Combiners

FILTRONIC PART LIST

Description	Full Description	Nomenclature	APC	Price
7/16 DIN MALE TO 4.3-10 FEMALE ADAPTER FOR FILTRONIC COMBINERS	FILTRONIC PART#: ADP-000050 SPEC SHEET LINK: TBD	DSADP000050	457	\$159.00
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V4	DSPCD012V4	457	\$8,013.00
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V6	DSPCD012V6	457	\$9,738.00
700 MHZ 6-CHANNEL COMBINER KIT, STD. ISOLATION, QN CONNECTORS	FILTRONIC PART#: PCD012-V6QN SPEC SHEET LINK: TBD	DSPCD012V6QN	457	\$9,738.00
8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V8	DSPCD012V8	457	\$17,416.00
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V10	DSPCD012V10	457	\$19,533.00
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 762-776 MHZ	FILTRONIC#: PCD012-V12	DSPCD012V12	457	\$21,736.00
1-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCD028-V1k	DSPCD028V1K	457	\$6,618.00
2-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCD028-V2	DSPCD028V2	457	\$6,901.00
2-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#: PCD028-V2K	DSPCD028V2K	457	\$7,383.00
3-CHANNEL 700 MHZ COMBINER KIT	FILTRONIC PART#: PCD028-V3 SPEC SHEET LINK: TBD	DSPCD028V3	457	\$7,961.00
3-CHANNEL 700 MHZ COMBINER KIT, EXPANSION	FILTRONIC PART#:PCD028-V3K SPEC SHEET LINK: TBD	DSPCD028V3K	457	\$8,738.00
TX POST FILTER/PMU KIT, 762-776 MHZ	FILTRONIC WIRELESS # SPC003-V2	DSSPC003V2	457	\$1,477.00
700MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V4	DSPCD031V4	457	\$9,884.00
700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V6	DSPCD031V6	457	\$11,563.00
700MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING W/QN CONNECTORS	FILTRONIC PART#: PCD031-V6QN SPEC SHEET LINK: TBD	DSPCD031V6QN	457	\$11,563.00
700MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V8	DSPCD031V8	457	\$18,897.00
700MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V10 SPEC SHEET LINK: TBD	DSPCD031V10	457	\$20,821.00
700MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD031-V12	DSPCD031V12	457	\$22,747.00
PXC008-V2 700 MHZ DUPLER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC008-V2 SPEC SHEET LINK: TBD	DSPXC008V2	457	\$1,309.00
3-PORT CIRCULATOR, 700 MHZ	FILTRONIC PART#: 58009295001 SPEC SHEET LINK: TBD	DSCIR000003	457	\$159.00
700 MHZ CIRCULATOR FOR DROP-SHIP (FILTRONIC P/N CIR-000005)	FILTRONIC PART#: 58009298001	DSCIR000005	457	\$159.00
700 MHZ PHASING HARNESS	FILTRONIC PART#: MFG001-V3 SPEC SHEET LINK: TBD	DSMFG001V3	457	\$676.00
HIGH POWER LOAD ASSEMBLY	FILTRONIC PART#: 58009294001 SPEC SHEET LINK:	DSL0000004	457	\$94.25

DBSPECTRA PARTS

Description	Full Description	Nomenclature	APC	Price
HIGH POWER 700MHZ FILTER	DBSPECTRA PART#: DS77XFILTER SPEC SHEET LINK: TBD	DSDS77XFILTER	457	\$3,448.00
EXPANSION KIT,CERAMIC COMBINER	DBSPECTRA PART#: DSCC75-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDS7501WB	457	\$2,582.00
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC75-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDS7501WOB	457	\$2,292.00
DSCC75-02D, 2 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDS7502D	457	\$4,890.00
DSCC75-03D, 3 CH CERAMIC TRANSMIT COMBINER, 7/16DIN CON, 773-776MHZ	DBSPECTRA PART#: DSCC75-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDS7503D	457	\$7,078.00

DSCC75-04D, 4 CH CERAMIC COMBINER 7/16 DIN CONN 763-776MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC75-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7504D	457	\$9,377.00
5 CHANNEL TRANSMIT CERAMIC COMBINER, 773 - 776MHZ WITH 7/16 DIN CONN	DBSPECTRA PART#: DSCC75-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7505D	457	\$11,566.00
6 CHANNEL TRANSMIT CERAMIC COMBINER, 763 - 776MHZ WITH 7/16 DIN CONN	DBSPECTRA PART#: DSCC75-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7506D	457	\$13,754.00
CERAMIC COMBINER, 700 MHZ,7 CH	DBSPECTRA PART#: DSCC75-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7507D	457	\$16,053.00
CERAMIC COMBINER, 700 MHZ,8 CH	DBSPECTRA PART#: DSCC75-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7508D	457	\$18,241.00
CERAMIC COMBINER, 700 MHZ,9 CH	DBSPECTRA PART#: DSCC75-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7509D	457	\$20,430.00
CERAMIC COMBINER, 700 MHZ,10 CH	DBSPECTRA PART#: DSCC75-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7510D	457	\$22,730.00
CERAMIC COMBINER, 700 MHZ,11 CH	DBSPECTRA PART#: DSCC75-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7511D	457	\$27,399.00
CERAMIC COMBINER, 700 MHZ,12 CH	DBSPECTRA PART#: DSCC75-12D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC7512D	457	\$30,015.00

TXRX PARTS		Description	Full Description	Nomenclature	APC	Price
		AIRLINE JNCTN COMBINER 700 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-83B-99104-20 SPEC SHEET LINK: TBD	DS4483B9910420	457	\$5,749.00
		AIRLINE JNCTN COMBINER 700 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-83B-99104-30 SPEC SHEET LINK: TBD	DS4483B9910430	457	\$7,420.00
		AIRLINE JNCTN COMBINER 700 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-83B-99104-40 SPEC SHEET LINK: TBD	DS4483B9910440	457	\$9,627.00
		AIRLINE JNCTN COMBINER 700 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-83B-99104-50 SPEC SHEET LINK: TBD	DS4483B9910450	457	\$11,527.00
		AIRLINE JNCTN COMBINER 700 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-83B-99104-60 SPEC SHEET LINK: TBD	DS4483B9910460	457	\$13,865.00
		AIRLINE JNCTN COMBINER 700/800 MHZ 4 CH 19"	TXRX PART#: 44-83E-99104-04 SPEC SHEET LINK: TBD	DS4483E9910404	457	\$9,436.00
		COMBINER 764-806 MHZ, T-PASS, TX, 1 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-01 SPEC SHEET LINK: TBD	DS7383B112D01	457	\$3,036.00
		COMBINER 764-806 MHZ, T-PASS, TX, 2 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-02 SPEC SHEET LINK: TBD	DS7383B112D02	457	\$5,382.00
		COMBINER 764-806 MHZ, T-PASS, TX, 3 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-03 SPEC SHEET LINK: TBD	DS7383B112D03	457	\$7,590.00
		COMBINER 764-806 MHZ, T-PASS, TX, 4 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-04 SPEC SHEET LINK: TBD	DS7383B112D04	457	\$9,936.00
		COMBINER 764-806 MHZ, T-PASS, TX, 5 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-05 SPEC SHEET LINK: TBD	DS7383B112D05	457	\$12,282.00
		COMBINER 764-806 MHZ, T-PASS, TX, 6 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-06 SPEC SHEET LINK: TBD	DS7383B112D06	457	\$14,628.00
		COMBINER 764-806 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-07 SPEC SHEET LINK: TBD	DS7383B112D07	457	\$16,974.00
		COMBINER 764-806 MHZ, T-PASS, TX, 8 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-08 SPEC SHEET LINK: TBD	DS7383B112D08	457	\$19,230.00
		COMBINER 764-806 MHZ, T-PASS, TX, 9 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-09 SPEC SHEET LINK: TBD	DS7383B112D09	457	\$21,666.00
		COMBINER 764-806 MHZ, T-PASS, TX, 10 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-10 SPEC SHEET LINK: TBD	DS7383B112D10	457	\$24,012.00
		COMBINER 764-806 MHZ, T-PASS, TX, 11 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-11 SPEC SHEET LINK: TBD	DS7383B112D11	457	\$26,358.00
		COMBINER 764-806 MHZ, T-PASS, TX, 12 CHANNEL, 6" DIAMETER 3/4 WAVE	TXRX PART#: 73-83B-11-2D-12 SPEC SHEET LINK: TBD	DS7383B112D12	457	\$28,704.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858301	457	\$752.00
		HYBRID DIR CPLR 746-960 MHZ -3 DB 500W	TXRX PART#: 85-83-0101 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830101	457	\$814.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858301C	457	\$602.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -3 DB, 50%/50% SPLIT RATIO,	TXRX PART#: 85-83-01-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858301LT	457	\$359.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-0201 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830201	457	\$814.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: 85-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858302	457	\$752.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -4.8 DB, 67%/33% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858302LT	457	\$359.00
		HYBRID DIRECTIONAL COUPLER 746-960 MHZ -6DB	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858303	183	\$752.00
		HYBRID DIR CPLR 746-960 MHZ -6 DB 500W	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830301	457	\$814.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858303C	457	\$602.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -6.0 DB, 75%/25% SPLIT RATIO	TXRX PART#: SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858303LT	457	\$359.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-04 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858304	457	\$752.00
		HYBRID DIR CPLR 746-960 MHZ -7 DB 500W	TXRX PART#: 85-83-0401 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830401	457	\$530.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -7.0 DB, 80%/20% SPLIT RATIO	TXRX PART#: 85-83-04C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858304C	457	\$602.00
		HYBRID DIRECTIONAL COUPLER 746-960 MHZ -10DB	TXRX PART#: 85-83-05 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858305	207	\$752.00
		HYBRID DIR CPLR 746-960 MHZ -10 DB 25W	TXRX PART#: 85-83-0501 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830501	457	\$530.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858305C	457	\$602.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -10 DB, 90%/10% SPLIT RATIO,	TXRX PART#: 85-83-05-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858305LT	457	\$359.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858306	457	\$752.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0601 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830601	457	\$814.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO,	TXRX PART#: 85-83-06C SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858306C	457	\$602.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-06-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858306LT	457	\$359.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -20 DB, 99%/1% SPLIT RATIO,	TXRX PART#: 85-83-07 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858307	457	\$752.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -15 DB, 97%/3% SPLIT RATIO	TXRX PART#: 85-83-0701 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830701	457	\$814.00
		HYBRID DIRECTIONAL COUPLER 746-960 MHZ -30DB	TXRX PART#: 85-83-08 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858308	183	\$752.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PART#: 85-83-0801 SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS85830801	457	\$814.00
		COUPLER, 746-960 MHZ, HYBRID DIRECTIONAL, -30 DB, 99.9%/0.1% SPLIT RAT	TXRX PART#: 85-83-08-LT SPEC SHEET LINK: https://drive.google.com/file/d/1Y8Kha4EEno4usTaz_qh1_Jhw08DPyPfi/view?usp=sharing	DS858308LT	457	\$413.00
		2-WAY RCVR TYPE POWER DIVIDER, 746-960	TXRX PAER#: 84-83-01 SPEC SHEET LINK: https://drive.google.com/file/d/1cUJ-z4ZFKvYyRfSNC2icQ8xbiQ9GB0/view?usp=sharing	DS848301	457	\$178.00
		POWER DIVIDER/SIGNAL COMBINER, 4-WAY, HYBRID/WILKINSON, 746-960 MHZ,	TXRX PAER#: 84-83-02 SPEC SHEET LINK: https://drive.google.com/file/d/1cUJ-z4ZFKvYyRfSNC2icQ8xbiQ9GB0/view?usp=sharing	DS848302	457	\$214.00
		POWER DIVIDER/SIGNAL COMBINER, 3-WAY, STRIPLINE, 746-960 MHZ,	TXRX PAER#: 84-83-12 SPEC SHEET LINK: https://drive.google.com/file/d/1cUJ-z4ZFKvYyRfSNC2icQ8xbiQ9GB0/view?usp=sharing	DS848312	457	\$305.00

800 MHz Transmitter Combiners

TXRX PARTS		Description	Full Description	Nomenclature	APC	Price
		T PASS TX EXP 806-824 MHZ 6" CAV 5-60W	TXRX PART#: 21-86A-11-2C-T SPEC SHEET LINK: TBD	DS2186A112CT	457	\$1,875.00
		SINGLE TX T-PASS EXPANSION CHANNEL FOR 851-869MHZ	TXRX PART#: 21-87A-11-2C-T SPEC SHEET LINK: TBD	DS2187A112CT	457	\$1,875.00
		T PASS TX EXP 851-869 MHZ CHANNEL 6" 3-4 W V SW-100W	TXRX PART#: 21-87A-11-2D-T SPEC SHEET LINK: TBD	DS2187A112DT	457	\$1,917.00
		AIRLINE JNCTN COMBINER 800 MHZ 2 CH 19" MOUNT	TXRX PART#: 44-86A-99104-02 SPEC SHEET LINK: TBD	DS4486A9910402	457	\$5,085.00
		AIRLINE JNCTN COMBINER 800 MHZ 3 CH 19" MOUNT	TXRX PART#: 44-86A-99104-03 SPEC SHEET LINK: TBD	DS4486A9910403	457	\$6,783.00
		AIRLINE JNCTN COMBINER 800 MHZ 4 CH 19" MOUNT	TXRX PART#: 44-86A-99104-04 SPEC SHEET LINK: TBD	DS4486A9910404	457	\$8,956.00
		AIRLINE JNCTN COMBINER 800 MHZ 5 CH 19" MOUNT	TXRX PART#: 44-86A-99104-05 SPEC SHEET LINK: TBD	DS4486A9910405	457	\$10,529.00
		AIRLINE JNCTN COMBINER 800 MHZ 6 CH 19" MOUNT	TXRX PART#: 44-86A-99104-06 SPEC SHEET LINK: TBD	DS4486A9910406	457	\$12,461.00
		COMBINER, 806-960 MHZ, T-PASS, TX, 7 CHANNEL, 6" DIAMETER 3/4 WAVE CAV	TXRX PART#: 73-90-11-2D-07-LR SPEC SHEET LINK: https://brx.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D07LR	457	\$13,095.00

T-PASS TX MULTICOUPLER 10 CH 6" 3-4WV 5W-100W		TXRX PART#: 73-90-11-2D-10 SPEC SHEET LINK: https://bxr.com/wp-content/uploads/2018/11/Combiner-TPass-739011-Series-DS-11212016.pdf	DS7390112D10	457	\$19,882.00
FILTRONIC PARTS					
Description	Full Description	Nomenclature	APC	Price	
7/16 DIN MALE TO 4.3-10 FEMALE ADAPTER FOR FILTRONIC COMBINERS	FILTRONIC PART#: ADP-000050 SPEC SHEET LINK: TBD	DSADP000050	457	\$159.00	
800 MHZ PHASING HARNESS	FILTRONIC PART#: MFG002-V2 SPEC SHEET LINK: TBD	DSMFG002V2	457	\$676.00	
4 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V4	DSPCD013V4	457	\$7,475.00	
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V6	DSPCD013V6	457	\$9,740.00	
6 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ, QN	FILTRONIC PART#: PCD013-V6GN SPEC SHEET LINK: TBD	DSPCD013V6GN	457	\$9,740.00	
8 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V8	DSPCD013V8	457	\$16,871.00	
10 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V10	DSPCD013V10	457	\$18,954.00	
12 CHANNEL COMBINER KIT, STANDARD ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD013-V12	DSPCD013V12	457	\$21,619.00	
4 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V4	DSPCD014V4	457	\$9,245.00	
6 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V6	DSPCD014V6	457	\$12,163.00	
8 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V8	DSPCD014V8	457	\$20,291.00	
10 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V10	DSPCD014V10	457	\$23,360.00	
12 CHANNEL COMBINER KIT, HIGH ISOLATION, 851-870 MHZ	FILTRONIC WIRELESS # PCD014-V12	DSPCD014V12	457	\$26,278.00	
TX DIPLEXER/PMU KIT, 762-776 MHZ/851-870MHZ	FILTRONIC WIRELESS # SPC004-V2	DSSXC004V2	457	\$1,488.00	
TX POST FILTER/PMU KIT, 851-870 MHZ	FILTRONIC PART#: PCD024-V4	DSPCD024V4	457	\$9,477.00	
800 MHZ 4 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V6	DSPCD024V6	457	\$11,401.00	
800 MHZ 6 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V8	DSPCD024V8	457	\$21,195.00	
800 MHZ 8-CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V10	DSPCD024V10	457	\$23,363.00	
800 MHZ 10 CHANNEL 150 WATTS/250 KHZ T-T COMBINER KIT W/STD. ISOLATION	FILTRONIC PART#: PCD024-V12	DSPCD024V12	457	\$26,104.00	
1-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V1K	DSPCD029V1K	457	\$6,088.00	
2-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V2	DSPCD029V2	457	\$6,353.00	
2-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V2K	DSPCD029V2K	457	\$7,131.00	
3-CHANNEL 800 MHZ COMBINER, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V3	DSPCD029V3	457	\$7,396.00	
3-CHANNEL 800 MHZ COMBINER, EXPANSION, STD ISOLATION, KIT	FILTRONIC PART#: PCD029-V3K	DSPCD029V3K	457	\$8,173.00	
1-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V1K	DSPCD030V1K	457	\$6,592.00	
2-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PCD030-V2	DSPCD030V2	457	\$7,351.00	
2-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V2K	DSPCD030V2K	457	\$8,128.00	
3-CHANNEL 800 MHZ COMBINER KIT, HIGH ISOLATION	FILTRONIC PART#: PCD030-V3	DSPCD030V3	457	\$8,886.00	
3-CHANNEL 800 MHZ COMBINER KIT, EXPANSION, HIGH ISOLATION	FILTRONIC PART#: PCD030-V3K	DSPCD030V3K	457	\$9,664.00	
800MHZ 4-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V4	DSPCD032V4	457	\$9,788.00	
800MHZ 6-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V6	DSPCD032V6	457	\$11,587.00	
800MHZ 8-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V8	DSPCD032V8	457	\$18,768.00	
800MHZ 10-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V10	DSPCD032V10	457	\$20,566.00	
800MHZ 12-CHANNEL COMBINER KIT, 100 KHZ T-T SPACING	FILTRONIC PART#: PCD032-V12	DSPCD032V12	457	\$22,365.00	
800MHZ 4-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V4	DSPCD033V4	457	\$10,618.00	
800MHZ 6-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V6	DSPCD033V6	457	\$13,192.00	
800MHZ 8-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V8	DSPCD033V8	457	\$20,428.00	
800MHZ 10-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V10	DSPCD033V10	457	\$23,001.00	
800MHZ 12-CHANNEL COMBINER KIT, HIGH ISOLATION, 100 KHZ T-T SPACIN	FILTRONIC PART#: PCD033-V12	DSPCD033V12	457	\$25,573.00	
800 MHZ DUPLEXER KIT (NO RF JUMPER CABLES INCLUDED)	FILTRONIC PART#: PXC009-V2	DSPXC009V2	457	\$1,329.00	
LMR 769-869MHZ TRIPLE BANDPASS FILTER, KIT	FILTRONIC PART#: PXC034-V1	DSPXC034V1	457	\$1,126.00	
VW#N2 TRIPLE NOTCH FILTER, KIT	FILTRONIC PART#: PSC010-V1	DSPSC010V1	457	\$1,604.00	
COMBINER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000001	DSKIT000001	457	\$973.00	
KIT-000004 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000004	DSKIT000004	457	\$892.00	
KIT-000009 ANCILLARY FILTER RACK MOUNTING KIT	FILTRONIC PART#: KIT-000009	DSKIT000009	457	\$217.00	
3-PORT CIRCULATOR, 800 MHZ	FILTRONIC PART#: 58009296001	DSCIR000004	457	\$159.00	
6 PART CIRCULATOR, 800 MHZ	FILTRONIC PART#: 58009299001	DSCIR000006	457	\$159.00	
HIGH POWER LOAD ASSEMBLY	FILTRONIC PART#: 58009294001 SPEC SHEET LINK: https://www.filtronic.com/msi/DSLOD000004	DSL00000004	457	\$94.25	
LOAD,N-F,5W, TERMINATION	FILTRONIC PART#: LOD-000010	DSL0D000010	457	\$183.00	
HIGH POWER LOAD ASSEMBLY (FITS POWERWAVE COMBINERS)	FILTRONIC PART#: 58009297001	DSL0D000015	457	\$261.00	
DBSPECTRA PARTS					
Description	Full Description	Nomenclature	APC	Price	
DBS4258S10WT, 10MHZ WINDOW FILTER 806-816MHZ	DBSPECTRA PART#: DBS4258S10WT SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-081_E.pdf	DSDBS4258S10WT	457	\$1,311.00	

900 MHZ TRANSMITTERS/COMBINERS

DBSPECTRA PARTS					
Description	Full Description	Nomenclature	APC	Price	
DSCC95-01D, 1 CHANNEL CERAMIC COMBINER 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-01D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501D	457	\$2,701.00	
DSCC95-02D, 2 CHANNEL TRANSMIT CERAMIC COMBINER, 935-940MHZ, 7/16 DIN	DBSPECTRA PART#: DSCC95-02D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9502D	457	\$4,925.00	
DSCC95-03D, 3 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-03D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9503D	457	\$7,005.00	
DSCC95-04D, 4 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-04D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9504D	457	\$9,474.00	
DSCC95-05D, 5 CH CERAMIC COMBINER 7/16 DIN CONN 935-940MHZ, 150KHZ SEP	DBSPECTRA PART#: DSCC95-05D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9505D	457	\$11,698.00	
DSCC95-06D, 6 CHANNEL 935-940MHZ COMBINER, 150KHZ SEP, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-06D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9506D	457	\$13,503.00	
935-940MHZ 7 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-07D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9507D	457	\$16,247.00	
DSCC95-08D, 8 CH 935-940MHZ CERAMIC COMBINER, 150KHZ SEP	DBSPECTRA PART#: DSCC95-08D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9508D	457	\$18,471.00	
935-940MHZ 9 CHANNEL TRANSMIT CERAMIC CAVITY COMBINER, 7/16 DIN CONN	DBSPECTRA PART#: DSCC95-09D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9509D	457	\$20,694.00	
935-940MHZ, 10 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-10D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9510D	457	\$23,020.00	
935-940MHZ, 11 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-11D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9511D	457	\$27,399.00	
935-940MHZ, 12 CHANNEL CERAMIC TRANSMIT COMBINER WITH 7/16 DIN CONNECT	DBSPECTRA PART#: DSCC95-12D SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9512D	457	\$30,015.00	
FILTER, 935-941MHZ HIGH POWER TX FILTER WITH DIN CONNECTOR	DBSPECTRA PART#: MWF9AM-D SPEC SHEET LINK: ----- Microsoft Office ----- ----- Opening http://www.dbspectra.com/specifications/096000-224_C_(MWF9AM-D_MWF9AM-D_&_MWF9AM-D_Hi_Pwr_TX_Filter).pdf	DSMWF9AMD	457	\$2,254.00	
EXPANSION KIT, SINGLE CHANNEL COMBINER INCL CAVITY, ISOLATOR/LOAD, PHA	DBSPECTRA PART#: DSCC95-01WB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WB	457	\$2,812.00	
EXPANSION KIT, CERAMIC FILTER	DBSPECTRA PART#: DSCC95-01WOB SPEC SHEET LINK: http://www.dbspectra.com/specifications/DSCC_Series.pdf	DSDSCC9501WOB	457	\$2,500.00	
DSHC900-05WF, 5 CH HYBRID COMBINER , 935-940MHZ	DBSPECTRA PART#: DSHC900-05WF SPEC SHEET LINK: www.dbspectra.com/specifications/DSHC900-05WF_5-Ch_900_MHz_Hybrid_with_Filter_V1.pdf	DSDSHC90005WF	457	\$13,800.00	
896 - 901MHZ MILLED WINDOW FILTER W/CELLULAR NOTCH	DBSPECTRA PART#: MWF9BMCN-N SPEC SHEET LINK: www.dbspectra.com/specifications/096000.244.B_(MWF9BMCN-N_900_MHz_RX_WDO_Filter_with_Cell_Notch).pdf	DSMWF9BMCNN	457	\$2,473.00	
TXRX PARTS					
Description	Full Description	Nomenclature	APC	Price	
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W- 60W	TXRX PART#: 21-95-11-2C-T SPEC SHEET LINK: TBD	DS2195112CT	457	\$1,875.00	
T PASS TX EXP 835-860 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-95-11-2D-T SPEC SHEET LINK: TBD	DS2195112DT	457	\$1,917.00	
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-60W	TXRX PART#: 21-96-11-2C-T SPEC SHEET LINK: TBD	DS2196112CT	457	\$1,875.00	
T PASS TX EXP 926-960 MHZ CH 6" 3-4WV 5W-100W	TXRX PART#: 21-96-11-2D-T SPEC SHEET LINK: TBD	DS2196112DT	457	\$1,917.00	
EXPANSION CHANNEL, 926-960 MHZ, T-PASS, 6" DIAMETER 5/4 WAVE CAVITY,	TXRX PART#: 21-96-31-2HF-T SPEC SHEET LINK: TBD	DS2196312HFT	457	\$3,239.00	
T PASS TX EXP 940-960 MHZ 6" CAV 5-60W	TXRX PART#: 21-98-11-2C-T SPEC SHEET LINK: TBD	DS2198112CT	457	\$1,875.00	
T PASS TX EXP 940-960 MHZ 6" CAV 5-100W	TXRX PART#: 21-98-11-2D-T SPEC SHEET LINK: TBD	DS2198112DT	457	\$1,917.00	

800 MHZ CONTROL STATION COMBINER MILLED WINDOW TX FILTER 769-775,	DBSPECTRA PART#: MWFB8MCSTX SPEC SHEET LINK: www.dbspectra.com/specifications/096000-256_Rev_B_MWF78MCSCN_MWF8MCSCN_CSC_TX_&_RX_Filters.pdf	DSMWF8MCSTX	457	\$2,024.00
8700/800 MHZ CONTROL STATION COMBINER MILLED WINDOW FILTER DUPLEXERTX:	DBSPECTRA PART#: MWF78MCSCN SPEC SHEET LINK: www.dbspectra.com/specifications/MWF78MCSCN_700_800_MHz_CSC_Duplexer.pdf	DSMWF78MCSCN	457	\$5,302.00
700MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWF78MCSCN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWF78-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWF78MCSCN	457	\$3,533.00
800MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWF80MCSCN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWF80-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWF80MCSCN	457	\$3,533.00
900MHZ MILLED WINDOW DUPLEXER FOR CONTROL STATION COMBINERS, N-TYPE C	DBSPECTRA PART#: MWF90MCSCN SPEC SHEET LINK: www.dbspectra.com/specifications/096000-255.B (MWF90-Series Control Station Combiner Duplexer MO 700-800-900 MHz).pdf	DSMWF90MCSCN	457	\$3,533.00
DSD-HC113, 800MHZ CNTRL STATION COMBINER DUPLEXER 100 WATTS	DBSPECTRA PART#: DSD-HC113 SPEC SHEET LINK: http://www.dbspectra.com/specifications/096000-068.D (DSD-HC113).pdf	DSDSDHC113	351	\$2,875.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11804 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11804	457	\$17,250.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11808 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11808	457	\$34,500.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,138-150MHZ	DBSPECTRA PART#: BCH11812 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11812	457	\$51,750.00
4 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11904 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11904	457	\$18,975.00
8 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11908 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11908	457	\$37,950.00
12 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11912 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11912	457	\$56,925.00
16 CHANNEL CONTROL STATION COMBINER (PASSIVE), CSC02,118-128MHZ	DBSPECTRA PART#: BCH11916 SPEC SHEET LINK: www.dbspectra.com/specifications/Control Station Combiners (DSBCH)_096000-180.B.PDF	DSBCH11916	457	\$75,900.00

RFI PARTS				
Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 4 CH.	RFI PART#: CS1517-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170405SN	457	\$13,910.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 8 CH.	RFI PART#: CS1517-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15170805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 16 CH.	RFI PART#: CS0496-1605-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496160531	457	\$6,934.00
SHORT HAUL CONTROL STATION COMBINER, 40-960 MHZ 32 CH.	RFI PART#: CS0496-3205-31 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/01/CS04960805.pdf	DSCS0496320531	457	\$10,796.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 8 CH.	RFI PART#: CS1315-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13150805SN	457	\$28,241.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 16 CH.	RFI PART#: CS1315-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13151605SN	457	\$56,740.00
HYBRID CONTROL STATION COMBINER, 132-150 MHZ 32 CH.	RFI PART#: CS1315-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS13150405.pdf	DSCS13153205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 150-174 MHZ 32 CH.	RFI PART#: CS1517-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS15170405.pdf	DSCS15173205SN	457	\$113,557.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 4 CH.	RFI PART#: CS3845-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38450405SN	457	\$7,868.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 12 CH.	RFI PART#: CS3845-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451205SN	457	\$27,684.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 16 CH.	RFI PART#: CS3845-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38451605SN	457	\$33,337.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ 32 CH.	RFI PART#: CS3845-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS38450405.pdf	DSCS38453205SN	457	\$70,231.00
HYBRID CONTROL STATION COMBINER, 380-450 MHZ, HEAD END 4 PORT	RFI PART#: CS3852-01-04-HE SPEC SHEET LINK: TBD	DSCS38520104HE	457	\$3,096.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 4 CH.	RFI PART#: CS4552-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520405SN	457	\$7,867.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 8 CH.	RFI PART#: CS4552-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45520805SN	457	\$18,078.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 12 CH.	RFI PART#: CS4552-1205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521205SN	457	\$27,684.00
HYBRID CONTROL STATION COMBINER, 450-520 MHZ 16 CH.	RFI PART#: CS4552-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS45520405.pdf	DSCS45521605SN	457	\$33,337.00
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 2 CH. HEAD END	RFI PART#: CS7486-01-02-HE SPEC SHEET LINK: TBD	DSCS74860102HE	457	\$2,710.00
STANDARD CONTROL STATION COMBINER, 746-870 MHZ 4 CH. HEAD END	RFI PART#: CS7486-01-04-HE SPEC SHEET LINK: TBD	DSCS74860104HE	457	\$3,612.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 8 CH.	RFI PART#: CS7486-0805-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74860805SN	457	\$12,172.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 16 CH.	RFI PART#: CS7486-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74861605SN	457	\$26,514.00
HYBRID CONTROL STATION COMBINER, 746-869 MHZ 32 CH.	RFI PART#: CS7486-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS74860405.pdf	DSCS74863205SN	457	\$40,467.00
ANTENNA CLAMP, U BOLT WITH LOCATING PLATE, ZINC PLATED STEEL, 1" - 2"	RFI PART#: U81 SPEC SHEET LINK: TBD	DSUB1	351	\$16.50
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 4 CHANNEL	RFI PART#: CS8996-0405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-x05-SN-Series-US-41787-2.pdf	DSCS89960405SN	457	\$7,750.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 16 CHANNEL	RFI PART#: CS8996-1605-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-x05-SN-Series-US-41787-2.pdf	DSCS89961605SN	457	\$26,514.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 24 CHANNEL	RFI PART#: CS8996-2405-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-x05-SN-Series-US-41787-2.pdf	DSCS89962405SN	457	\$39,048.00
HYBRID CONTROL STATION COMBINER, 890-960 MHZ, 32 CHANNEL	RFI PART#: CS8996-3205-SN SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/CS8996-x05-SN-Series-US-41787-2.pdf	DSCS89963205SN	457	\$57,709.00
DUPLEXER TRI BAND 762-776 MHZ, 792-824 MHZ, 851-869 MHZ	RFI PART#: DP767985-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP767985-0801-32_41011-2.pdf	DSDP767985080132	457	\$2,696.00
DUPLEXER 762-776 MHZ, 792-806 MHZ	RFI PART#: DP7680-0801-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP7680-0801-32-41011-3.pdf	DSDP7680080132	457	\$1,581.00
DUPLEXER FOR 896-902 MHZ AND 935-941 MHZ PASSBANDS	RFI PART#: DP8010-0883-32 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/DP8010-0883-32_41011-4.pdf	DSDP8010088332	457	\$2,177.00
ANTENNA TRIPLEXER 30-180 MHZ, 330-520 MHZ, 746-960 MHZ	RFI PART#: SP0000-1151-11 SPEC SHEET LINK: https://rfi-motorola.com/wp-content/uploads/2015/02/SP0000-1151-11_P41011-1.pdf	DSSP0000115111	457	\$1,468.00

TXRX PARTS				
Description	Full Description	Nomenclature	APC	Price
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 4 CHANNEL	TXRX PART#: 43-05-01A-04-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwrvLpKzha6kBAwE1OhY_Gx/view?usp=sharing	DS430501A04SH	457	\$1,638.00
SHORT HAUL CONTROL STATION COMBINER, 100-1000 MHZ, 8 CHANNEL	TXRX PART#: 43-05-01A-08-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwrvLpKzha6kBAwE1OhY_Gx/view?usp=sharing	DS430501A08SH	457	\$3,276.00
COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 12 CHANNEL	TXRX PART#: 43-05-01A-12-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwrvLpKzha6kBAwE1OhY_Gx/view?usp=sharing	DS430501A12SH	457	\$4,914.00
COMBINER, 100-1000 MHZ, CONTROL STATION, SHORT-HAUL, 16 CHANNEL	TXRX PART#: 43-05-01A-16-SH SPEC SHEET LINK: https://drive.google.com/file/d/15JkEqMwrvLpKzha6kBAwE1OhY_Gx/view?usp=sharing	DS430501A16SH	457	\$6,552.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 4 CHANNEL	TXRX PART#: 43-83G-01A-04 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzV1VWcl_3np_5b5qBjImDLE7o7/view?usp=sharing	DS4383G01A04	457	\$9,467.00

Description	Full Description	Nomenclature	APC	Price
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 8 CHANNEL	TXRX PART#: 43-83G-01A-08 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzv1VWcl3np_5bSgBjImDDLaE7o7/view?usp=sharing	DS4383G01A08	457	\$13,549.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 12 CHANNEL	TXRX PART#: 43-83G-01A-12 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzv1VWcl3np_5bSgBjImDDLaE7o7/view?usp=sharing	DS4383G01A12	351	\$23,593.00
CONTROL STATION COMBINER, STANDARD, 746-869 MHZ, 16 CHANNEL	TXRX PART#: 43-83G-01A-16 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzv1VWcl3np_5bSgBjImDDLaE7o7/view?usp=sharing	DS4383G01A16	457	\$29,624.00
CONTROL STATION COMBINER, 746-869 MHZ, 24 CHANNEL	TXRX PART#: 43-83G-01A-24 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzv1VWcl3np_5bSgBjImDDLaE7o7/view?usp=sharing	DS4383G01A24	351	\$42,390.00
CONTROL STATION COMBINER, 746-869 MHZ, 28 CHANNEL CSC	TXRX PART#: 43-83G-01A-28 SPEC SHEET LINK: https://drive.google.com/file/d/1ngsBzv1VWcl3np_5bSgBjImDDLaE7o7/view?usp=sharing	DS4383G01A28	351	\$48,870.00

ASTRO 25 PDEG ENCRYPTION UNIT

Description	Full Description	Nomenclature	APC	Price
PDEG ENCRYPTION/CD SOFTWARE UPGRADE KIT	-	T8210	137	\$50.00
ADD: PDEG CD SOFTWARE UPGRADE	-	CA02854AA	137	\$50.00
Model				
HARDWARE				
ASTRO 25 PDEG ENCRYPTION UNIT	-	T7539	137	\$750.00
Options				
SOFTWARE				
ADD: AES DATA ENCRYPTION	-	CA00182AT	137	\$750.00
ADD: ASTRO 25 EID OPERATION	-	CA01483AA	137	\$6,500.00
Accessories				
RS232 CABLE FOR CRYPTR	-	DLN6693	454	\$160.00
RACK MOUNTING PLATE	-	TKN9283	811	\$60.00
RACK SUPPORT BRACKET	-	TKN9282	811	\$64.00
CABLE FOR RNC, DIU MGEQ	Keyloading cable for APX 7500, XTL 5000, XTL 2500, and ASTRO Spectra. Correct keyloading cable adaptor must be ordered separately: -HKN6182 for APX 7500, XTL 5000 (O series control head), and XTL 2500. -TRN7414 for XTL 5000 (W series control head) and ASTRO Spectra.	TKN8531C	362	\$260.00

UNINTERRUPTIBLE POWER SUPPLIES (UPS)

Description	Full Description	Nomenclature	APC	Price
Models				
On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Rackmount				
UPS, 9PX, 1800W, 120V, SOFTWARED, 30 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR18001030S	207	\$4,642.00
UPS, 9PX, 1800W, 120V, SOFTWARED, 8 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXR1800N008S	207	\$3,235.00
UPS, GXT RACKMOUNT 1000VA/900W, 7 MIN RUNTIME 120V SOFTWARED	Liebert GXT4. Includes two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR0900N007	207	\$1,320.00
UPS, 9PX, 2700W, 120V, SOFTWARED, 43 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27002043S	207	\$8,149.00
UPS, 9PX, 2700W, 120V, SOFTWARED, 23 MIN RUNTIME RACKMOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-30R receptacles.	DS9PXXR27001023S	207	\$6,742.00
UPS, GXT RACKMOUNT 10KVA/9KW, 5 MIN RUN 208V W/MBB HARDWIRED	Liebert GXT4. Hardwired input and output. Includes two post rail mounting kit and two year depot warranty.	DSGXTR9000N005HW	207	\$13,510.00
UPS, GXT RACKMOUNT 1500VA/1350W, 6 MIN RUNTIME, 120V	Liebert GXT4. Includes two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR1350N006	207	\$1,666.00
UPS, GXT RACKMOUNT 2KVA/1.8KW, 120/120V, 20 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-20P plug, (6) NEMA 5-20 T Slot receptacles.	DSGXTR18001020	207	\$2,982.00
UPS, GXT RACKMOUNT 1000VA/900W, 38 MIN RUNTIME 120V SOFTWARED	Liebert GXT4. Includes one external battery cabinet, two post rail mounting kit and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTR09001038	207	\$2,166.00
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 20 MIN RUNTIME RACK MOUNT	Eaton 9PX. Includes two post and four post rack mounting kits and two year depot warranty.	DS9PXXR45001020H	207	\$12,172.00
On-line double conversion, single phase 50/60 Hz (auto-sensing) UPS, Tower				
UPS, 9PX, 4500W, 208/240V, HARDWIRED, 3 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty.	DS9PXXT4500N003H	207	\$9,436.00
UPS, GXT TOWER 500VA/450W, 120/120V, 92 MIN RUNTIME	Liebert GXT4. Includes one external battery cabinet and two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT04501092	207	\$1,388.00
UPS, GXT TOWER 1000VA/900W, 120V, 7 MIN RUNTIME SOFTWARED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT0900N007	207	\$1,254.00
UPS, 9PX, 1800W, 120V, SOFTWARED, 8 MIN RUNTIME TOWER	Eaton 9PX. Includes two year depot warranty. 5-20P plug, (6) 5-20R and (1) L5-20R receptacles.	DS9PXXT1800N008S	207	\$3,073.00
UPS, GXT TOWER 1500VA/1350W, 120V, 6 MINUTE RUNTIME, 120/120V, SOFTWARED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT1350N006	207	\$1,564.00
UPS, GXT TOWER 500VA/450W, 17 MINUTE RUNTIME 120/120V SOFTWARED	Liebert GXT4. Includes two year depot warranty. NEMA 5-15P plug, (6) NEMA 5-15R receptacles.	DSGXTT0450N017	207	\$710.00
On-line double conversion, single phase scalable hardwired UPS				
UPS, 9170 12KVA/10KW, 16 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917010D4N0016	207	\$27,429.00
UPS, APS 20KVA/18KW 208/240V, EXT MBB, ISO XFMR, 7 MIN RUN AT FULL	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch, internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4200070512	207	\$33,768.00
UPS, 9170 9KVA/7.5KW, 27 MIN RUN	Eaton 9170. Includes MBB bypass switch, relay card, 25 in. cable, start-up and two year on-site warranty.	DS917007D4N0027	207	\$25,302.00
UPS, APS 15KVA/13.5KW 208/240V, EXT MBB, ISO XFMR, 5 MIN RUN AT FULL	Liebert APS. Includes internal bypass and external wall mount MBB bypass switch, internal ISO transformer, dry contact card, 40 in. cable, start-up and two year on-site warranty.	DSA4150050312	207	\$25,397.00
Replacement Batteries				
BATTERY MODULE FOR LIEBERT NFINITY UPS	-	DSBATTERYMOD	207	\$766.00
BATTERY MODULE FOR 1 SLOT, 9170+ UPS (INCLUDES 2 BATTERY MODULES)	-	DS9170MBATTMODULES	207	\$1,460.00
BATTERY STRING FOR LIEBERT APS UPS (CONSISTING OF TWO BATTERIES)	-	DSAPSMBATTERYSTRG	207	\$1,880.00

Vigilant

Part #	Product Type	Description	Sell Price
CDM-3-234-RHD-C	Hardware	Mobile LPR 3-Camera System, 6 ft USB extension, Light Bar Bracket, 5 Year Warranty, & Perpetual License	\$47,466.15

VERINT RECORDING FOR PUBLIC SAFETY V15.2 (FOR 17 OR LATER)

Description	Full Description	Nomenclature	APC	Price
VERINT V15 RECORDING SOLUTION	-	TT3610	229	\$0.00
Options - Primary				
VERINT RECORDER FOR USE ON 7.16 SYSTEMS	-	TT6078AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.17 SYSTEMS	-	TT6079AA	229	\$0.00
VERINT RECORDER FOR USE ON 7.18 SYSTEMS	-	TT6080AA	229	\$0.00
VERINT RECORDER FOR USE ON 2019.X SYSTEMS	-	TT6081AA	229	\$0.00
VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	TT60460AA	229	\$662.00
VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	TT60459AA	229	\$328.00

VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	TT06461AA	229	\$221.00
VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	TT06462AA	229	\$214.00
VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	TT06463AA	229	\$321.00
VERINT PUBLIC SAFETY N-N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	TT06464AA	229	\$158.00
VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	TT06465AA	229	\$158.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL ENCRYPT MGMT CHANNEL BASED	-	TT06466AA	229	\$164.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	TT06467AA	229	\$284.00
VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	TT06468AA	229	\$3,150.00
MSI RADIO P25 INTERFACE ENABLER	-	TT06469AA	229	\$20,160.00
PUBLIC SAFETY DOD HARDENING STIGS COMPLIANCE	-	TT06470AA	229	\$9,450.00
MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	TT06471AA	229	\$15,876.00
MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	TT06472AA	229	\$15,750.00
MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	TT06473AA	229	\$3,150.00

Accessories - Servers

Description	Full Description	Nomenclature	APC	Price
6000 PLATFORM STANDARD SERVER (SVR6KLE-STD)	-	DDN2909	229	\$10,104.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH1-CON-L0)	-	DDN2910	229	\$15,740.00
ADD ON MEDIA STORAGE 3X480GB SSD (RAID5, SSD-SD3R5)	-	DDN2911	229	\$2,484.00
6000 PLATFORM CONSOLIDATED SERVER L0 (SVR6KH2-CON-L0)	-	DDN2912	229	\$17,971.00
6000 PLATFORM CONSOLIDATED SERVER L1 (SVR6KH1-CON-L1)	-	DDN2913	229	\$18,943.00
6000 PLATFORM CONSOLIDATED SERVER L1 (SVR6KH2-CON-L1)	-	DDN2914	229	\$20,786.00
6000 PLATFORM RECORDER SERVER (SVR6KH1-REC)	-	DDN2915	229	\$12,850.00
6000 PLATFORM RECORDER SERVER (SVR6KH2-REC)	-	DDN2916	229	\$14,541.00
6000 PLATFORM DATA CENTER (SVR6KH1-DC)	-	DDN2917	229	\$18,891.00
6000 PLATFORM DATABASE SERVER (SVR6KH1-DB)	-	DDN2918	229	\$22,125.00
6000 PLATFORM APPLICATION SERVER (SVR6KH1-APP)	-	DDN2919	229	\$12,612.00

Accessories - Server Add Ons

Description	Full Description	Nomenclature	APC	Price
ADD ON MEDIA STORAGE 3X800GB SSD(RAID5, SSD-SD3R5)	-	DDN2920	229	\$4,234.00
ADD ON MEDIA STORAGE 3X1200GB SSD(RAID5, SSD-SD3R5)	-	DDN2921	229	\$6,521.00
ADD ON QUAD PORT INTEL I350-AE4 GBE I/O MODULE	-	DDN2922	229	\$948.00
ADD ON AUDIOCODES DP CARD DUAL SPAN PASSIVE (PCI-E)	-	DDN2923	229	\$7,344.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORTS (PCI-E)	-	DDN2924	229	\$4,439.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI-E)	-	DDN2925	229	\$7,484.00
ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI-E)	-	DDN2926	229	\$3,888.00
ADD ON AUDIOCODES NGX CARD 8 DIGITAL PORTS (PCI-E)	-	DDN2927	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 8 ANALOG PORTS (PCI-E)	-	DDN2928	229	\$1,814.00
ADD ON AUDIOCODES LD CARD 24 ANALOG PORT (PCI)	-	DDN2929	229	\$4,458.00
ADD ON AUDIOCODES DT CARD DUAL SPAN TERMINATE (PCI)	-	DDN2930	229	\$6,834.00
ADD ON AUDIOCODES NGX CARD 24 DIGITAL PORTS (PCI)	-	DDN2931	229	\$3,519.00
ADD ON 13 SLOT PCI EXPANSION CHASSIS FOR 6000 SERIES PLATFORM	-	DDN2932	229	\$7,085.00
ADD ON INTERNAL BLU-RAY DRIVE	-	DDN2933	229	\$335.00
ADD ON REMOTE MANAGEMENT MODULE	-	DDN2934	229	\$147.00
ADD ON RDX EXTERNAL DRIVE WITH 500GB CARTRIDGE	-	DDN2935	229	\$1,750.00
ADD ON DDR4 RDIMM 4GB 2100MT PER SEC	-	DDN2936	229	\$302.00

Accessories - OS / SQL

Description	Full Description	Nomenclature	APC	Price
WINDOWS SERVER 2012 R2 FOR EMBEDDED SYSTEMS	-	DDN2937	229	\$1,048.00
SQL SERVER 2012 R2 WITH 5 CALS	-	DDN2938	229	\$1,490.00

Accessories - Spares, HDD, etc.

Description	Full Description	Nomenclature	APC	Price
SPARE PARTS KIT FOR 6000 SERIES PLATFORM STD SVR (SVR6KLE-STD)	-	DDN2945	229	\$1,067.00
SPARE PARTS KIT 6000-SERIES CONSOLIDATED, RECORDER, APPL SVR, DC	-	DDN2946	229	\$2,402.00
HARD DISK - 240GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2947	229	\$456.00
HARD DISK - 480GB SSD SATA 6 GB/S, 2.5-INCH	-	DDN2948	229	\$827.00
HARD DISK - 800GB SSD SATA 6 GB PER SEC, 2.5-INCH	-	DDN2949	229	\$1,410.00
HARD DISK - 1200GB SSD SATA 6 GB PER SEC	-	DDN2950	229	\$2,173.00
INTEGRATED RAID MODULE RMS3CC080, 12GB PER S, 8 INTL PORT SAS SATA	-	DDN2951	229	\$1,540.00
INTEL SERVER RISER BOARD - A2ULRISER	-	DDN2952	229	\$188.00
XONAR U3 MOBILE HEADPHONE AMP USB SOUND CARD	-	DDN2953	229	\$175.00
SPARE FAN KIT REPLACEMENT 60X38MM FANS, HOT-SWAP CONNECTOR	-	DDN2954	229	\$175.00
SERVER BOARD SUPPORTING 2 INTEL XEON PROCESSOR E5-2600 V3 FAMILY	-	DDN2955	229	\$1,398.00
PCI EXPRESS HOST INTERFACE CARD FOR USE WITH PCI EXPAN CHASSIS	-	DDN2956	229	\$1,134.00
HARD DISK - 1TB DRIVE, 7200 SATA 3.5" EP	-	DDN2957	229	\$270.00
SATA SLIM-LINE OPTICAL DVD DRIVE AXXSATADVROM, SINGLE	-	DDN2958	229	\$166.00
2 POST RACK RAIL KIT FOR 6000 SERIES SERVERS	-	DDN2960	229	\$216.00

Accessories - Option Equivalents

Description	Full Description	Nomenclature	APC	Price
WINDOWS SUPPLEMENTAL TRANS CONFIG	-	T7448	877	\$50.00
WINDOWS SUPPLEMENTAL FULL CONFIG	-	T7448	877	\$50.00
VERINT PUBLIC SAFETY RECORDING NAMED RADIO TALKGROUP	-	DDN2888	229	\$328.00
VERINT PUBLIC SAFETY CALL RECORDING - CHANNEL BASED	-	DDN2889	229	\$662.00
VERINT PUBLIC SAFETY SCREEN CAPTURE - CHANNEL BASED	-	DDN2890	229	\$221.00
VERINT PUBLIC SAFETY QUALITY MANAGEMENT	-	DDN2891	229	\$214.00
VERINT PUBLIC SAFETY ENCRYPTION MANAGEMENT - CHANNEL BASED	-	DDN2892	229	\$321.00
VERINT PUBLIC SAFETY N-N VOICE RECORDING REDUNDANCY CHANNEL BASED	-	DDN2893	229	\$158.00
VERINT PUBLIC SAFETY DATA CENTER REDUNDANCY - CHANNEL BASED	-	DDN2894	229	\$158.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL ENCRYPT MGMT CHANNEL BASED	-	DDN2895	229	\$164.00
VERINT PUBLIC SAFETY ACTIVE PARALLEL CALL RECORDING - CHANNEL BASED	-	DDN2896	229	\$284.00
VERINT PUBLIC SAFETY RECORDING INTEGRATION - PRODUCTION	-	DDN2897	229	\$3,150.00
MSI RADIO P25 INTERFACE ENABLER	-	DDN2898	229	\$20,160.00
PUBLIC SAFETY DOD HARDENING STIGS COMPLIANCE	-	DDN2899	229	\$9,450.00
MSI ASTRO P25 IP UPGRADE INITIAL SERVER	-	DDN2900	229	\$15,876.00
MSI ASTRO P25 IP CONSOLE INTEGRATION ADDITIONAL SERVERS	-	DDN2901	229	\$15,750.00
MSI ASTRO P25 IP UPGRADE - ADDITIONAL SERVERS	-	DDN2902	229	\$3,150.00

Replay Client

Description	Full Description	Nomenclature	APC	Price
REPL BY: TT3903A	-	TT3492	708	\$2,500.00

Virtualized Prime Site for ASTRO 25 Simulcast

Description	Full Description	Nomenclature	APC	Price
VIRTUALIZED PRIME SITE	-	SQM01SUM0320	677	\$9,500.00

Options

New or Replacement

Description	Full Description	Nomenclature	APC	Price
ADD: REPLACEMENT PRIME SITE	Replacing existing equipment.	CA03523AA	680	\$0.00
ADD: NEW PRIME SITE	Brand new site.	CA03524AA	680	\$0.00

Number of Carriers

Description	Full Description	Nomenclature	APC	Price
ADD: HW SUPPORT UP TO 18 CARRIERS	Provides one pair of DSC 8000's.	CA03525AA	677	\$21,000.00
ADD: HW SUPPORT UP TO 24 CARRIERS	Provides two pairs of DSC 8000's.	CA03526AA	677	\$42,000.00

The comparator functionality is a virtualized application running on the controllers. Order one voting license for each active RF carrier (also referred to as channel).

Description	Full Description	Nomenclature	APC	Price
ADD: TRUNKING MULTISITE VOTING LICENSE, PER CARRIER	One per RF carrier.	UA00702AA	680	\$18,500.00

Description	Full Description	Nomenclature	APC	Price
ADD: CREDIT TRUNKING MULTISITE VOTING LICENSE, PER CARRIER	Credit for the number of existing comparators that are being replaced.	UA00703AA	680	(\$18,500.00)
Site Type				
ADD: MULTISITE PRIME TRUNKING LICENSE	For Primary site.	UA00704AA	680	\$125,000.00
ADD: MULTISITE GEO-REDUNDANT PRIME TRUNKING LICENSE	For Backup site.	UA00708AA	680	\$72,500.00
ADD: CREDIT MULTISITE PRIME TRUNKING LICENSE	Credit for the existing Simulcast Prime Software on both controllers.	UA00705AA	680	(\$125,000.00)
System Release				
ADD: ASTRO SYSTEM RELEASE 7.18	-	CA03542AA	482	\$0.00
ADD: ASTRO SYSTEM RELEASE 2019.2	-	CA03543AA	680	\$0.00
ADD: ASTRO SYSTEM RELEASE 2020.1	-	CA03544AA	680	\$0.00
ADD: ASTRO SYSTEM RELEASE 2021.1	-	CA03749AA	680	\$0.00

2-Slot TDMA Functionality

Description	Full Description	Nomenclature	APC	Price
ADD : TDMA VOTING LICENSE, PER CARRIER	Quantity should match the base station TDMA options.	UA00706AA	680	\$16,000.00
ADD: CREDIT TDMA VOTING LICENSE, PER CARRIER	Credit for the number of existing TDMA options on the comparators that are being replaced.	UA00750AA	680	(\$16,000.00)

Time Reference

Description	Full Description	Nomenclature	APC	Price
ADD: INT. GPS TIMING REFERENCE	Uses the GPS receivers purchased separately. Not available in Europe.	CA03529AA	677	\$24,000.00
ADD: DSC INTERNAL RUBIDIUM LIC	Required for GPS reference.	UA00707AA	680	\$9,000.00
ADD: EXTERNAL TIMING REFERENCE	Select when providing your own reference separately, or for Single TX Site systems.	CA03530AA	680	\$110.00

Power Options

Description	Full Description	Nomenclature	APC	Price
ADD: PRIME SITE AC POWER	-	CA03531AA	677	\$2,200.00
ADD: PRIME SITE DC POWER	-	CA03532AA	677	\$0.00
ADD: DSC AC POWER CABLE - US, 12 FT	Prime Site specific power cable. Includes 2 cables.	CA03533AA	677	\$0.00
ADD: DSC AC POWER CABLE - US, 6 FT.	Prime Site specific power cable. Includes 2 cables.	CA03534AA	677	\$0.00
ADD: DSC C19 POWER TERMINAL CONNECTORS	Prime Site specific power cable. Includes 2 connectors.	CA03535AA	677	\$0.00

Networking Options

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANT JUNIPER SRX1500 ROUTERS	This includes the Mission Critical Hardening and Stateful Firewall features.	CA03545AA	147	\$30,400.00
ADD: SINGLE JUNIPER SRX1500	Only use for Geo-Prime configuration. This includes the Mission Critical Hardening and Stateful Firewall features.	CA03546AA	147	\$15,200.00
ADD: ENCRYPTION	-	CA03539AA	147	\$1,500.00
ADD: FIPS 140-2 LEVEL 2 ENCRYPTION CERTIFICATION FOR SRX1500	-	CA03540AA	147	\$500.00
ADD: NO ROUTER REQUIRED, USE EXISTING	Order if using existing GGM 8000 routers.	CA03541AB	147	\$0.00

Switches

Description	Full Description	Nomenclature	APC	Price
ADD: REDUNDANT BACKHAUL SWITCHES	Includes 2 CLN1866A DAC cables	CA03551AA	147	\$5,400.00
ADD: SINGLE BACKHAUL SWITCH	Only use for Geo-Prime configuration.	CA03552AA	147	\$2,500.00

GNSS Antenna/Receiver

Description	Full Description	Nomenclature	APC	Price
GNSS REMOTE RECEIVER ASSY	-	PMUG1017A	78	\$900.00

Mounting Parts

Description	Full Description	Nomenclature	APC	Price
HEAVY DUTY W STYLE WALL MOUNT WITH 4 INCH STAND-OFF	-	DSWM4	291	\$86.00
ALUMINUM 6061-T6, PIPE 1 INCH SCHED 40	-	DSP04268	291	\$14.50

Surge Suppression

Description	Full Description	Nomenclature	APC	Price
SPD, HPD GPS DATA LINE, 48VDC, HARD WIRE WITH ISOLATED GROUNDING	-	DSIX2L1M1DC48IG	207	\$225.00

GNSS Cables

Description	Full Description	Nomenclature	APC	Price
125FT OUTDOOR UV PROTECTED CABLE 6 PR, 22AWG DB15 CABLE	-	DS30C87465CO1	207	\$810.00
350' OUTDOOR UV PROTECTED CABLE 6 PR, 22AWG DB15	-	DS30C87465CO2	207	\$1,870.00

Ordering Virtualized Prime Site Expansions

Prime Site Voting Carrier/Channel Expansion

Description	Full Description	Nomenclature	APC	Price
VIRTUALIZED PRIME SITE HW EXPANSIONS	For hardware expansions	T8812	677	\$0.00
ADD: EXPAND HW SUPPORT UP TO 30 CARRIERS	Adds 2 DSC's, cables, mounting HW, and royalties.	CA03785AA	677	\$21,000.00
ADD: INT. GPS TIMING REFERENCE	Uses the GPS receivers purchased separately. Not available in Europe.	CA03529AA	677	\$24,000.00
DSC SOFTWARE EXPANSIONS	-	T8660	680	\$0.00
ADD: TRUNKING MULTISITE VOTING LICENSE, PER CARRIER	One per RF carrier.	UA00702AA	680	\$18,500.00
ADD: DSC INTERNAL RUBIDIUM LIC	Required for GPS reference.	UA00707AA	680	\$9,000.00

Description	Full Description	Nomenclature	APC	Price
ADD : TDMA VOTING LICENSE, PER CARRIER	Quantity should match the base station TDMA options.	UA00706AA	680	\$16,000.00

Time Reference Holdover Addition

Description	Full Description	Nomenclature	APC	Price
FRE: DSC 8000, W/ RUBIDIUM	Prime Site DSC with Rubidium module.	DLN1445A	677	\$22,500.00
DSC SOFTWARE EXPANSIONS	-	T8660	680	\$0.00
ADD: DSC INTERNAL RUBIDIUM LIC	Required for GPS reference.	UA00707AA	680	\$9,000.00

Field Replaceable Units (FRUs)

Description	Full Description	Nomenclature	APC	Price
FRE: DSC 8000	Prime Site DSC w/o Rubidium module.	DLN1444A	677	\$10,500.00
FRE: DSC 8000, W/ RUBIDIUM	Prime Site DSC with Rubidium module.	DLN1445A	677	\$22,500.00
FRU: DSC 8000 AC POWER SUPPLY	One power supply that slides into the power distribution chassis.	DLN8001	677	\$1,100.00

SIERRA WIRELESS IN VEHICLE ROUTER BASED SOLUTIONS

STEP ONE (MUST SELECT ONE)

MG90 ROUTERS

Description	Full Description	Nomenclature	APC	Price
MG90 ROUTERS (SINGLE LTE-A PRO)	Includes: Single LTE-A Pro (Sierra Wireless SKU: 1103981)	TT3451	635	\$1,599.00
MG90 ROUTERS (DUAL LTE-A PRO)	Includes: Dual LTE-A Pro (Sierra Wireless SKU: 1103982)	TT3452	635	\$2,758.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR MG90

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

NOTE: MUST MATCH THE QTY OF ROUTERS

Description	Full Description	Nomenclature	APC	Price
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010352	TT06354AA	923	\$585.00
5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink AMM Cloud And Support Sierra SKU: 9010354	TT06355AA	923	\$977.00
AIRLINK SUPPORT - MG ONLY, 2 YEAR	Sierra SKU: 9010351	TT06388AA	923	\$380.00
AIRLINK SUPPORT - MP/RY 5 YEAR	Sierra SKU: 9010353	TT06389AA	923	\$250.00
ADD: AIRLINK SUPPORT - MG ONLY 1 YEAR	Sierra SKU: 9010229	TT06390AA	923	\$105.00
AIRLINK SUPPORT - MG ONLY 2 YEAR	Sierra SKU: 9010355	TT06391AA	923	\$210.00
ADD: AIRLINK SUPPORT - MG ONLY 3 YEAR	Sierra SKU: 9010356	TT06392AA	923	\$315.00

AIRLINK SUPPORT - MG ONLY 4 YEAR	Sierra SKU: 9010357	TT06393AA	923	\$420.00
ADD: AIRLINK SUPPORT - MG ONLY 5 YEAR	Sierra SKU: 9010358	TT06394AA	923	\$525.00
1 YR ESSENTIAL	Sierra SKU: 9010184	TT06333AA	923	\$273.00

STEP THREE (OPTIONAL)
INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MG90

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
ADD: AMM CLIENT LICENSE - MG90 (PER DEVICE)	New AMM On Premise deployment Requires also Server License: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010204) (Sierra Wireless SKU: 9010204)	TT06424AA	635	\$296.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)
AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MG90

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY: 1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00
ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ADD: ACM CLIENT LICENSE (FIPS) - MG90 (PER DEVICE)	Order one per router. Requires TT06381AA. Includes FIPS. (Sierra Wireless SKU: 9010210)	TT06365AA	635	\$300.00

STEP FIVE (OPTIONAL)
AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MG90

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)
AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MG90
REQUIRED ONLY FOR FIXED DEPLOYMENTS

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00
AM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00

STEP SEVEN (OPTIONAL-SEPARATE LINE ITEM)
ANTENNAS FOR MG90

Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M,	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, WHI	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$399.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, BLA	6in1 Dome Antenna - 2xLTE, GNSS, 3xWiFi, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, BLACK	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 SharkFin WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
2IN1 SHARKFIN ANTENNA - 2XLTE, BOLT MOUNT, 4M, BLACK	2in1 SharkFin Antenna - 2xLTE, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001120)	DDN2782	635	\$190.00
2IN1 DOME ANTENNA - 2XLTE, BOLT MOUNT, 5M, WHITE	2in1 Dome Antenna - 2xLTE, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001123)	DDN2783	635	\$190.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001122)	DDN2784	635	\$180.00
3IN1 WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, WHITE	3in1 WiFi Antenna - 3xWiFi, 2.4/5GHz, Bolt Mount, 4m, White (Sierra Wireless SKU: 6001143)	DDN2785	635	\$180.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (WiFi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$17.00
INTERNAL WIFI/BT ANTENNA - 2.4GHZ, DASH MOUNT, 3M, BLACK	Internal WiFi/BT Antenna - 2.4GHz, Dash Mount, 3m, Black (Sierra Wireless SKU: 6001127)	DDN2794	635	\$28.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)
ACCESSORIES FOR MG90

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOVE MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MOUNTING BRACKET FOR MG90	(Sierra Wireless SKU: 6001024)	DDN2766	635	\$75.00
MG90 I/O CABLE	(Sierra Wireless SKU: 6001095)	DDN2767	635	\$25.00
AC ADAPTOR, 12 VDC MG90	Applies to MG90 only (Sierra Wireless SKU: 6001023)	DDN2768	635	\$180.00
DC POWER CABLE PIGTAIL MG90 10FT	(Sierra Wireless SKU: 6001103)	DDN2798	635	\$25.00
ASSET TAG - WI-FI (T2)	(Sierra Wireless SKU: 6001034)	DDN2801	635	\$120.00
ASSET TAG - WI-FI WITH TEMPERATURE SENSOR (T5A)	(Sierra Wireless SKU: 6001035)	DDN2802	635	\$130.00
FIELD UPGRADE KITS FOR MG90, EM7511	Upgrade to MG90 to FirstNet (Sierra Wireless SKU: 6001175)	DDN2804	635	\$299.00
UPGRADE FOR MG90 TO FIRSTNET	-	DDN2980	635	\$399.00
MP70 J1939 Y CABLE	-	DDN2984	635	\$275.00
OMG-MG CABLE+ANTENNA ADAPTOR	-	DDN2985	635	\$275.00
MAP TO USB (USB ETHERNET SATELLITE CABLE)	MAP TO USB (USB ETHERNET SATELLITE CABLE)	KT000259A01	681	\$650.00

OPTIONAL-SEPARATE LINE ITEM
RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL ELITE RENEWAL	Includes Sierra Wireless AirLink AMM Cloud Support. Includes 1 year service renewal up to 5 years from device purchase.	DDN2765	923	\$195.00

MP70 ROUTERS SELECT ONE:

Description	Full Description	Nomenclature	APC	Price
MP70 ROUTERS (DC)	Does not include WiFi (Sierra Wireless SKU: 1104071)	TT3458	635	\$799.00
MP70 ROUTERS (DC;WIFI)	Includes WiFi (Sierra Wireless SKU: 1104073)	TT3457	635	\$899.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR MP70
INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT
NOTE: MUST MATCH THE QTY OF ROUTERS

Description	Full Description	Nomenclature	APC	Price
ADD:3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$90.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00
5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010282	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/RV	Sierra SKU: 9010177	TT06403AA	923	\$20.00

Description	Full Description	Nomenclature	APC	Price
HOSTED AMM ACCESS - MP/RV	Sierra SKU: 9010283	TT06404AA	923	\$90.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support If customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL, customer can renew ALMS annually for up to 5 years from device purchase. These packages only apply if they bought the renewal. Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
ADD: 1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON-PREM LICENSE FOR MP70

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires TT06387AA or TT06386AA. (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR MP70

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. Requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR MP70

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)

AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR MP70

Description	Full Description	Nomenclature	APC	Price
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT06338AA	635	\$50.00
ALMS VPN SETUP - ONE TIME CHARGE VPN TO ALMS SETUP	Order one per deployment (Sierra Wireless SKU: 9010123)	TT06341AA	635	\$2,500.00
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00

STEP SEVEN (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR MP70

REQUIRED ONLY FOR FIXED DEPLOYMENTS

Description	Full Description	Nomenclature	APC	Price
AM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010238)	TT06344AA	635	\$5,695.00
AM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires TT06346AA unless customers already have purchased TT06346AA or TT06424AA. (Sierra Wireless SKU: 9010239)	TT06345AA	635	\$9,995.00
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA. (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$50.00
AM ENTERPRISE LICENSE : UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR MP70

Description	Full Description	Nomenclature	APC	Price
6IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M,	6in1 SharkFin Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001197)	DDN2777	635	\$365.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, WHI	6in1 Dome Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001121)	DDN2770	635	\$399.00
6IN1 DOME ANTENNA - 2XLTE, GNSS, 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 5M, BLA	6in1 Dome Antenna - 2xLTE, GNSS, 3xWIFI, 2.4/5GHz, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001129)	DDN2787	635	\$365.00
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 4M, BLACK	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001136)	DDN2772	635	\$235.00
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADHESIVE MOUNT, 3M, BLACK	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00
3IN1 RAIL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, BLACK	3in1 Rail Antenna - 2xLTE, GNSS, Bolt Mount, 5m, Black (Sierra Wireless SKU: 6001202)	DDN2780	635	\$470.00
3IN1 SHARKFIN WIFI ANTENNA - 3XWIFI, 2.4/5GHZ, BOLT MOUNT, 4M, BLACK	3in1 SharkFin WiFi Antenna - 3xWIFI, 2.4/5GHz, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001199)	DDN2805	635	\$245.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 3M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 1M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00
PANEL ANTENNA BRACKET (WALL/POLE/MAST)	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00
PADDLE WIFI ANTENNA - 2.4/5GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$17.00
HIGH GAIN DIRECTIONAL ANTENNA - 2XLTE, WALL MOUNT, 5M, WHITE	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet, (Sierra performs work).	DDN2981	635	\$569.00

STEP NINE (OPTIONAL-SEPARATE LINE ITEM)

ACCESSORIES FOR MP70

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOVE MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
MP I/O CABLE	(Sierra Wireless SKU: 6001004)	DDN2773	635	\$25.00
MP70 OBD-II Y CABLE	(Sierra Wireless SKU: 6001204)	DDN2774	635	\$61.25
MP70 J1939 Y CABLE	(Sierra Wireless SKU: 6001192)	DDN2775	635	\$45.00
AC ADAPTOR, 12 VDC MP/RV	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$26.75
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00
DC POWER CABLE MP/RV	(Sierra Wireless SKU: 2000522)	DDN2800	635	\$15.00
UPGRADE FOR MP70 TO FIRSTNET	Upgrades MP70 to FirstNet, (Sierra performs work).	DDN2981	635	\$569.00

OPTIONAL-SEPARATE LINE ITEM

RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00

RV55 ROUTERS

Description	Full Description	Nomenclature	APC	Price
RV55 ROUTERS (DC)	Will not be available until April 30, 2019 Does not include WIFI (Sierra Wireless SKU: 1104303)	TT3465	635	\$829.00
RV55 ROUTERS (DC WIFI)	Will not be available until April 30, 2019 Includes Wi-Fi (Sierra Wireless SKU: 1104302)	TT3466	635	\$1,329.00

STEP TWO (MUST SELECT ONE)

SUPPORT SERVICES FOR RV55

INCLUDES AIRLINK MOBILITY MANAGER CLOUD LICENSES AND SUPPORT

Description	Full Description	Nomenclature	APC	Price
ADD:3 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06348AA	923	\$90.00
3 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06349AA	923	\$120.00

Description	Full Description	Nomenclature	APC	Price
3 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06350AA	923	\$410.00
5 YR ESSENTIAL	Includes Sierra Wireless AirLink Complete (ALMS Support), the 1st year is free of charge. Airlink Complete ALMS free first year from Sierra, with device purchase	TT06351AA	923	\$200.00
5 YR ESSENTIAL PLUS	Includes Sierra Wireless AirLink Complete ALMS ARA Support	TT06352AA	923	\$200.00
5 YR ESSENTIAL ELITE	Includes Sierra Wireless AirLink Complete AMM Cloud Support	TT06353AA	923	\$682.00
1 YR RENEWAL AIRLINK ALEOS	Includes Sierra Wireless AirLink Complete ALMS Support If customers "opt out" there is no need to include this part number, selected from 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06330AA	923	\$50.00
1 YR RENEWAL AIRLINK ARA	Includes Sierra Wireless AirLink Complete ALMS ARA Support This option only applies if customer purchases 3 YR ESSENTIAL PLUS service bundle during device purchase Applies to only MP70 and RV55	TT06331AA	923	\$40.00
ADD: 1 YR RENEWAL AIRLINK AMM	Includes Sierra Wireless AirLink Complete AMM Cloud Support This option only applies if customer purchases 3 YR ESSENTIAL ELITE service bundle during device purchase Applies to only MP70 and RV55	TT06332AA	923	\$120.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 1 YEAR	Sierra SKU: 9010282	TT06395AA	923	\$50.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 2 YEAR	Sierra SKU: 9010359	TT06396AA	923	\$100.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 3 YEAR	Sierra SKU: 9010360	TT06397AA	923	\$150.00
AIRLINK SUPPORT -MP/RV AMM ON PREMISES 4 YEAR	Sierra SKU: 9010361	TT06398AA	923	\$200.00
ADD: AIRLINK SUPPORT -MP/RV AMM ON PREMISES 5 YEAR	Sierra SKU: 9010362	TT06399AA	923	\$250.00
CLOUD ALMS ONLY FOR MP70 AND RV55	Sierra SKU: 9010309	TT06400AA	923	\$60.00
ALMS FOR ALEOS FOR MP70 AND RV55 CLOUD ONLY	Sierra SKU: 9010313	TT06401AA	923	\$100.00
3 YR RENEWAL AIRLINK ALMS	Sierra SKU: 9010317	TT06402AA	923	\$50.00
ALMS -FOR MP/RV	Sierra SKU: 9010177	TT06403AA	923	\$20.00
HOSTED AMM ACCESS - MP/RV	Sierra SKU: 9010283	TT06404AA	923	\$90.00

STEP THREE (OPTIONAL)

INCLUDES AIRLINK MOBILITY MANAGER ON PREM LICENSE FOR RV55

Description	Full Description	Nomenclature	APC	Price
AMM SERVER SOFTWARE LICENSE - ENTERPRISE LITE	QTY 1: order one per deployment, provides one instance of software. Requires Client license per router. (Sierra Wireless SKU: 9010202)	TT06387AA	635	\$9,495.00
AMM SERVER SOFTWARE LICENSE - ENTERPRISE	QTY 1: order one per deployment, provides three instances of software. Requires Client License per router. (Sierra Wireless SKU: 9010203)	TT06386AA	635	\$17,495.00
AMM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	QTY1: order one per device. Requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010137)	TT06357AA	635	\$115.00
AMM CLIENT LICENSE - GENX (PER DEVICE)	QTY1: order one per deployment requires: TT06387AA or TT06386AA (Sierra Wireless SKU: 9010270)	TT06358AA	635	\$45.00
AMM ENTERPRISE LICENSE : UNLIMITED	Includes unlimited AMM Server and Client Licenses. Incompatible with TT06387AA, TT06386AA, and TT06424AA. (Sierra Wireless SKU: 9010242)	TT06363AA	635	\$795,000.00

STEP FOUR (OPTIONAL)

AIRLINK CONNECTION MANAGER SERVER SOFTWARE LICENSE FOR RV55

Description	Full Description	Nomenclature	APC	Price
ACM SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	Order 1 per deployment. Can order 2 for redundancy. (Sierra Wireless SKU: 9010206)	TT06383AA	635	\$3,750.00
ADD: ACM CLIENT LICENSE (NON-FIPS) - MG90/ALEOS DEVICES (PER DEVICE)	Order one per router. requires TT06383AA (Sierra Wireless SKU: 9010208)	TT06364AA	635	\$150.00
ADD: ACM FIPS SERVER SOFTWARE LICENSE (MAX 2 INSTANCES)	QTY:1 order one per deployment. Includes FIPS. (Sierra Wireless SKU: 9010207)	TT06381AA	635	\$7,500.00

STEP FIVE (OPTIONAL)

AIRLINK CONNECTION MANAGER AND AIRLINK MOBILITY MANAGER ON PREM SERVER HARDWARE FOR RV55

Description	Full Description	Nomenclature	APC	Price
AMM APPLIANCE HARDWARE - ENTERPRISE LITE (PER APPLIANCE)	QTY 1: order one per deployment, provides one instance of software. Requires TT06344AA or TT06387AA (Sierra Wireless SKU: 6001027)	TT06367AA	635	\$2,250.00
AMM APPLIANCE HARDWARE - ENTERPRISE (PER APPLIANCE)	QTY 1: order one per deployment, provides three instances of software. Requires TT06345AA or TT06386AA. (Sierra Wireless SKU: 6001028)	TT06368AA	635	\$7,495.00
ACM APPLIANCE HARDWARE (PER APPLIANCE)	*QTY: 1 order one per deployment. Can order QTY 2 for redundancy. Requires: TT06383AA or TT06381AA. (Sierra Wireless SKU: 6001029)*	TT06369AA	635	\$2,250.00

STEP SIX (OPTIONAL)

AIRLINK MANAGEMENT SERVICE SOFTWARE LICENSE & VPN CLOUD SOLUTIONS FOR RV55

Description	Full Description	Nomenclature	APC	Price
ALMS - 12-MONTH SERVICE PACK FOR AIRLINK DEVICES	Applies to only MP70 and RV55 (Sierra Wireless SKU: 9010177)	TT06379AA	635	\$20.00
ALMS VPN SERVICE - VPN MONTHLY SUBSCRIPTION FEE	Order one per device (Sierra Wireless SKU: 9010124)	TT06388AA	635	\$50.00
ALMS - ANNUAL VOLUME LICENSE (MAX : 10,000 DEVICES)	Order one per deployment (Sierra Wireless SKU: 9010253)	TT06342AA	635	\$60,000.00

STEP SEVEN (OPTIONAL)

AIRLINK MANAGER SERVER ON PREM SOFTWARE LICENSE FOR RV55

Description	Full Description	Nomenclature	APC	Price
AM CLIENT LICENSE - ALEOS DEVICES (PER DEVICE)	Requires Server Licenses TT06344AA or TT06345AA (Sierra Wireless SKU: 9010240)	TT06346AA	635	\$50.00
AM ENTERPRISE LICENSE : UNLIMITED	Includes Client License Applies to MG90, MP70 & RV55 (Sierra Wireless SKU: 9010243)	TT06356AA	635	\$295,000.00

STEP EIGHT (OPTIONAL-SEPARATE LINE ITEM)

ANTENNAS FOR RV55

Description	Full Description	Nomenclature	APC	Price
3IN1 SHARKFIN ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 4M, BLACK	3in1 SharkFin Antenna - 2xLTE, GNSS, Bolt Mount, 4m, Black (Sierra Wireless SKU: 6001119)	DDN2781	635	\$235.00
3IN1 DOME ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 5M, WHITE	3in1 Dome Antenna - 2xLTE, GNSS, Bolt Mount, 5m, White (Sierra Wireless SKU: 6001138)	DDN2772	635	\$235.00
3IN1 BAT ANTENNA - 2XLTE, GNSS, ADHESIVE MOUNT, 3M, BLACK	3in1 BAT Antenna - 2xLTE, GNSS, Adhesive Mount, 3m, Black (Sierra Wireless SKU: 6001200)	DDN2779	635	\$105.00
2IN1 PANEL ANTENNA - 2XLTE, BOLT MOUNT, 3M, BLACK	2in1 Panel Antenna - 2xLTE, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001124)	DDN2786	635	\$48.00
2IN1 PANEL ANTENNA - 2XLTE, BOLT MOUNT, 1M, BLACK	2in1 Panel Antenna - 2xLTE, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001219)	DDN2771	635	\$48.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 3M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 3m, Black (Sierra Wireless SKU: 6001125)	DDN2788	635	\$72.00
3IN1 PANEL ANTENNA - 2XLTE, GNSS, BOLT MOUNT, 1M, BLACK	3in1 Panel Antenna - 2xLTE, GNSS, Bolt Mount, 1m, Black (Sierra Wireless SKU: 6001211)	DDN2789	635	\$72.00
PANEL ANTENNA BRACKET (WALL/POLE/MAST)	Panel Antenna Bracket (Wall/Pole/Mast) Requires: DDN2786 or DDN2771 or DDN2788 or DDN2789 (Sierra Wireless SKU: 6001152)	DDN2790	635	\$12.00
HIGH GAIN DIRECTIONAL ANTENNA - 2XLTE, WALL MOUNT, 5M, WHITE	High Gain Directional Antenna - 2xLTE, Wall Mount, 5m, White (Sierra Wireless SKU: 6001126)	DDN2791	635	\$145.00
PADDLE WIFI ANTENNA - 2.45GHZ	Antenna (Wifi/BT) MOQ=25 (Sierra Wireless SKU: 6001111)	DDN2792	635	\$14.00
PADDLE CELLULAR ANTENNA	Antenna (Cellular) MOQ=25 (Sierra Wireless SKU: 6001110)	DDN2793	635	\$17.00
4IN1 SHARKFIN ANTENNA - 2XLTE, WIFI, GNSS, BOLT MOUNT, 4M, BLACK	-	DDN2986	635	\$265.00
4IN1 BAT ANTENNA - 2XLTE, WIFI, GNSS, BOLT MOUNT, 4M, BLACK	-	DDN2987	635	\$115.00

STEP NINE (OPTIONAL-SEPARATE LINE ITEM)

ACCESSORIES FOR RV55

Description	Full Description	Nomenclature	APC	Price
SHARKFIN MAG MOUNT ADAPTOR	Requires: DDN2777 or DDN2781 or DDN2805 or DDN2782 (Sierra Wireless SKU: 6001112)	DDN2795	635	\$55.00
DOVE MAG MOUNT ADAPTOR	Requires: DDN2770 or DDN2787 or DDN2772 or DDN2783 (Sierra Wireless SKU: 6001113)	DDN2796	635	\$75.00
DIN RAIL MOUNTING BRACKET FOR RV50X	(Sierra Wireless SKU: 6000659)	DDN2797	635	\$25.00
AC ADAPTOR, 12 VDC MP/RV	Applies to MP70 and RV55 only (Sierra Wireless SKU: 2000579)	DDN2776	635	\$26.75
DC POWER CABLE, X PLATFORM CIGAR	(Sierra Wireless SKU: 120-140-1017)	DDN2799	635	\$50.00
DC POWER CABLE MP/RV	(Sierra Wireless SKU: 2000522)	DDN2800	635	\$15.00
RV55 DUAL SERIAL Y-CABLE	-	DDN2982	635	\$20.00

OPTIONAL-SEPARATE LINE ITEM

RENEWAL OF SUPPORT SERVICES

Description	Full Description	Nomenclature	APC	Price
1 YR ESSENTIAL RENEWAL	1 YR Essential Renewal	DDN2769	923	\$50.00
1 YR ESSENTIAL PLUS RENEWAL	1 YR Essential Plus Renewal	DDN2778	923	\$90.00
1 YR ESSENTIAL ELITE RENEWAL	1 YR Essential Elite Renewal	DDN2867	923	\$120.00

WAVE 7K

Models/Options

WAVE 7K Server:

Description	Full Description	Nomenclature	APC	Price
WAVE 7K User Access License:				
WAVE 7K SERVER	-	SQM01SUM0298	61	\$170,000.00
WAVE 7K User Access License:				
WAVE 7K USER ACCESS LICENSE	-	T8332	61	\$0.00
WAVE 7K Astro Wireline Interoperability License:				
WAVE 7K_ASTRO P25 WIRELINE INTEROPERABILITY LICENSE	-	T8333	61	\$0.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 27	-	UA00391AA	61	\$49,761.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 54	-	UA00392AA	61	\$91,800.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 81	-	UA00393AA	61	\$140,454.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 108	-	UA00394AA	61	\$184,464.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 135	-	UA00395AA	61	\$225,450.00
ADD: WAVE 7000_ASTRO 25 INTEROP LICENSE BUNDLE OF 162	-	UA00396AA	61	\$264,384.00
WAVE 7K Server Capacity License For Additional Capacity:				
NOTE: For Greenfield WAVE 7K Orders, you already bought WAVE 7K SERVER (SQM01SUM0298) with Capacity bundle(s).				
WAVE 7K SERVER CAPACITY LICENSE	-	T8331	61	\$0.00
Accessories				
PTT Server Accessories:				
MRV - LX4000T 8 PORT TERMINAL SERVER, NO DIAL-UP MODEM INCLD.	-	TT2022	708	\$2,700.00
PTT Server Accessories for Inter-op with ASTRO 25				
GCM 8000 Site Router:				
One (1) power option is required for every GCM 8000 Multi-Protocol Site Router				
GCM 8000 GATEWAY	-	SQM01SUM0205	147	\$5,250.00
ADD: AC POWER	-	CA01616AA	147	\$0.00
ADD: DC POWER	-	CA01619AA	147	\$0.00
Ethernet Switch:				
2620-24 ETHERNET SWITCH	-	CLN1856	454	\$2,250.00
Spares FRU				
DL380G9 Spare FRU:				
HP DL380 G9 DUAL 2.5 GHZ CPU AND 64GB RAM	-	DLN7004	61	\$19,380.00
600 GB HARD DRIVE	Hard Drive for DL380 Server	DLN6865	454	\$761.00
FRU: DL380 G9 DVD DRIVE	-	DLN6971	454	\$228.00
FRU: DL380 G9 POWER SUPPLY	-	DLN6972	454	\$598.00
FRU: DL380 G9 FAN	-	DLN6973	877	\$81.00
DotHill Raid 4224 FRU:				
DOTHILL 4524 SAS WITH 5X1.2TB	-	DLN7005	61	\$19,820.00
DAS POWER SUPPLY	-	DLN6867	280	\$665.00
DAS - CHASSIS ONLY	-	DLN6880	877	\$2,708.00
FRU: DH SHARED STORAGE SFF DISK - 1.2TB	-	DLN6994	56	\$1,690.00
FRU: DOTHILL 4524 RAID IO CONTROLLER MODULE	Used only for Dot Hill 4524	DLN6978	877	\$8,459.00

Wireless LAN

Description	Full Description	Nomenclature	APC	Price
Models				
RFS7000				
KIT: SWITCH: RFS7000 WITH 128 PORTS	-	RFS-7010-10010-WR	832	\$18,000.00
KIT: SWITCH: RFS7000 WITH 256 PORTS	-	RFS-7010-10020-WR	832	\$25,000.00
KIT: SWITCH: RFS7010 WITH NO PORTS	-	RFS-7010-100R0-WR	832	\$8,000.00
WS-5100				
KIT: WS5100 SWITCH; 30-PORT LICENSE	-	WS-5100-30-WWR	832	\$8,595.00
KIT: WS5100 SWITCH; 18-PORT LICENSE	-	WS-5100-18-WWR	832	\$5,377.00
KIT: WS5100 SWITCH; 48-PORT LICENSE	-	WS-5100-48-WWR	832	\$13,392.00
KIT: WS5100 SWITCH; 6-PORT LICENSE	-	WS-5100-06-WWR	832	\$2,179.00
KIT: WS5100 SWITCH; 36-PORT LICENSE	-	WS-5100-36-WWR	832	\$10,194.00
KIT: WS5100 SWITCH; 42-PORT LICENSE	-	WS-5100-42-WWR	832	\$11,793.00
KIT: WS5100 SWITCH; 24-PORT LICENSE	-	WS-5100-24-WWR	832	\$6,976.00
KIT: WS5100 SWITCH; REDUNDANT LICENSE	-	WS-5100-RS-WWR	832	\$1,961.00
KIT: WS5100 SWITCH; 12-PORT LICENSE	-	WS-5100-12-WWR	832	\$3,778.00
AP-5181				
AP-5131				
WS-2000				
WS2000 WITH 1 AP300(802.11a/b/g)	-	WS-2000-1C-ABG-WWR	832	\$1,349.00
WS2000 WITH 2 AP300(802.11a/b/g)	-	WS-2000-2C-ABG-WWR	832	\$1,499.00
AP-300				
AP300:802.11A/G, EXTERNAL ANTENNA	-	WSAP-5100-100-WWR	832	\$345.00
AP300:802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-100-WWR	832	\$345.00
AP300:802.11A/G, INTERNAL ANTENNA	-	WSAP-5110-050-WWR	832	\$289.00
AP300: 802.11G, EXTERNAL ANTENNA	-	WSAP-5100-050-WWR	832	\$289.00
CB-3000				
Wireless IPS Server & Management Software				
Service				
3YR CB-3000 Support-ADVEXG-Brz Pkg	-	SXB-CB3000-30	832	\$100.00
1YR WS2000-ONSITE-Brz Pkg	-	OSB-WS2000-10	832	\$109.00
1YR ACCESS PT 5131 SPPRT-ADVEXG-BRZ PKG	-	AXB-AP5131-10	832	\$72.00
1YR WS2000-ADVEXG-Brz Pkg	-	AXB-WS2000-10	832	\$87.00
1YR CB-3000 Support-ONSITE-Brz Pkg	-	OSB-CB3000-10	832	\$90.00
1YR CB-3000 Support-ADVEXG-Brz Pkg	-	AXB-CB3000-10	832	\$43.00
3YR CB-3000 Support-ONSITE-Brz Pkg	-	OSB-CB3000-30	832	\$194.00
1YR ACCESS PT 5131 SPPRT-ONSITE-BRZ PKG	-	OSB-AP5131-10	832	\$90.00
Accessory				
ANT:2.4-5.2GHZ DUALBAND DP 2DBI SMARP-F	-	ML-2452-APA2-01	832	\$25.00
CORD-PWR, 18AWG, 10A, 250V USA	-	50-16000-221R	832	\$15.00
ANT:5.5 GHZ, DPA, 5dbi, CBL 36 RPSMA-F	-	ML-5299-HPA1-01R	832	\$165.00
CABLE: JUMPER, RP-SMA(M) TO RP-BNC	-	25-72178-01	832	\$10.00
ANT:5.5 GHZ, DP AJ,2dbi,CBL 0,SMARP-F	-	ML-5299-APA1-01R	832	\$61.00

ASTRO® XTL 1500 Digital Mobile™
FLASHport® Aftermarket Upgrades

Description	Full Description	Nomenclature	APC	Price

DIGITAL CONVENTIONAL PACKAGE	Analog and Digital Conventional	T7190	430	\$0.00
3600 ANALOG PACKAGE	Analog conventional and analog trunking	T7191	430	\$0.00
3600 ANALOG / DIGITAL TRUNKING PACKAGE	Analog and digital conventional Analog and digital 3600 trunking	T7192	430	\$0.00
9600 DIGITAL TRUNKING PACKAGE	Digital 9600 trunking	T7193	430	\$0.00

Options

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: 9600 DIGITAL BAUD	-	G788	430	\$693.00
ENH: TRUNK 9600 FROM 3600 ANALOG / DIGITAL	-	G788AN	430	\$127.00
ENH: TRUNK 9600 FROM DIGITAL CONV	-	G788AP	430	\$633.00
ENH: TRUNK 9600 FROM 3600 ANALOG	-	G788AQ	430	\$506.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$380.00
ENH: TRUNK 3600 DIGITAL FROM 3600 ANALOG	-	G789	430	\$380.00
ENH: TRUNK 3600 DIGITAL FROM DIGITAL CONVENTIONAL	-	G789AQ	430	\$633.00
ENH: TRUNK 3600 FROM 9600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	G789AR	430	\$127.00
ENH: DIGITAL CONVENTIONAL REFRESH	-	G790AJ	430	\$83.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: 3600 ANALOG BAUD	-	G809	430	\$253.00
ENH: RADIO SOFTWARE REFRESH XTL 1500	-	G880AC	430	\$95.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: RADIO TRACE	Cannot be used on P25.	G170AJ	430	\$95.00
ENH: SOFTWARE ENHANCEMENT PACKAGE	-	G871AB	430	\$253.00
ENH: OVER THE AIR PROGRAMMING	Requires 9600 Astro Digital Enhance (G964). For T7191, if ordered or G996 and G788AQ (Trunk 9600) is ordered but G871 is not, then G791 must be decoded and W947 and G193 must be added.	G996AR	430	\$127.00
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLIP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399AB (Enhanced Data).	QA03399AB	430	\$190.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL1500	Switches a XTL 1500 radio model number from a rebanding model number M28URS9PW2_N to a standard model M28URS9PW1_N.	QA00276AA	430	\$506.00

Software Encryption

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SOFTWARE DSP BASED CRYPTO	-	G193	500	\$11.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$0.00
ENH: SW ENHANCEMENT PACKAGE ANALOG	-	G791	775	\$0.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
ADD: XTL1500 RADIO AUTHENTICATION	-	W391CU	430	\$127.00

Accessories

Microphones

Description	Full Description	Nomenclature	APC	Price
WATER RESISTANT MICROPHONE	NOTE for EMEA: This item is non-EPP Compliant	HMN1089	500	\$68.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
XTL5000 KEYPAD MICROPHONE	-	HMN4079D	706	\$320.00
MODEL III KEYPAD TELEPH HANDSET KIT	-	HMN4097A	706	\$319.00
XTL MOBILE DESKTOP MIC	-	RMN5083A	706	\$169.00
SOFTWARE CPS R20.01.00 ASTRO XTL MOBILE	-	RVN4185AW	371	\$265.00

**ASTRO® XTL 2500 Digital Mobile™
FLASHport® Aftermarket Upgrades**

Models

Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T7244	430	\$0.00
DIGITAL CONVENTIONAL PACKAGE	-	T7245	430	\$0.00
Analog Smartzone	-	T7246	430	\$0.00
DIGITAL SMARTZONE	-	T7247	430	\$0.00

Options

Operation Mode

Description	Full Description	Nomenclature	APC	Price
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Consolelet	G808	332	\$737.00

System Enhancement Software

Description	Full Description	Nomenclature	APC	Price
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G344	332	\$108.00
ENH: UPGRADE TO SMARTZONE	Upgrade from Conventional software to SmartZone Trunking software.	G347AN	430	\$1,012.00
ENH: RADIO SOFTWARE REFRESH FOR XTL 2500	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AG	430	\$95.00

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$108.00
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$108.00
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$286.00
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Omnilink)	G361AG	430	\$429.00
ENH: MLTCTST VOTNG SCAN	-	G387AA	430	\$286.00
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$108.00
ENH: OVER THE AIR PROGRAMMING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AK	430	\$127.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$286.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: REBAND UPGRADE XTL2500	Switches a XTL 2500 radio model number from a rebanding model number M21URM9PW2_N to a standard model M21URM9PW1_N.	QA00277AA	430	\$506.00
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$108.00

Algorithm Options

Description	Full Description	Nomenclature	APC	Price
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$108.00
ENH: TACTICAL REKEY WITH MULTIKEY	Must order IV&D(Q947). Tactical OTAR is not compatible with DVRS QA00631.	H04AR	430	\$633.00
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$472.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00
ADD: XTL2500 RADIO AUTHENTICATION	-	W391CT	430	\$127.00

ASTRO® XTL 5000 Digital Mobile™

**ASTRO® XTL 5000 Consolelette
FLASHport® Aftermarket Upgrades**

Models					
Description	Full Description	Nomenclature	APC	Price	
ANALOG CONVENTIONAL	-	T6995	430	\$0.00	
DIGITAL SMARTNET	-	T6998	430	\$0.00	
DIGITAL CONVENTIONAL PACKAGE	-	T6996	430	\$0.00	
ANALOG SMARTZONE	-	T6999	430	\$0.00	
ANALOG SMARTNET PACKAGE	-	T6997	430	\$0.00	
DIGITAL SMARTZONE	-	T7000	430	\$0.00	
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ADD: ASTRO DIGITAL CAI OPERATION	Compatible with H1618, H1620 and H1622 and T6929, T6768, T6766, T6995, T6997, and T6999. Enables Common Air Interface and other Project 25 compliant features in an existing ASTRO-Ready (analog) radio. For feature details, see System Software Packages under Astro Digital SPECTRA and ASTRO Digital Consolelette	G808	332	\$737.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: UPGRADE TO DIGITAL CONVENTIONAL	ONLY Compatible with T6930	G344	332	\$108.00	
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6769	G347	430	\$83.00	
ENH: SMARTNET UPGRADE	ONLY Compatible with T6767, T6766	G346	430	\$108.00	
ENH: UPGRADE CONVENTIONAL MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G344	332	\$108.00	
ENH: UPGRADE TO SMARTNET MOBILE	Compatible with ASTRO Spectra models: H1618, H1619 ASTRO Spectra PLUS models: T6929, T6930 and XTL 5000 models: T6995, T6996	G346	430	\$715.00	
ENH: UPGRADE TO SMARTNET	Compatible with ASTRO Spectra models: H1620, H1621 and ASTRO Spectra PLUS models: T6766 and T6767	G346	430	\$108.00	
ENH: UPGRADE TO DIGITAL SMARTNET	ONLY Compatible with T6930	G346	430	\$715.00	
ENH: UPGRADE TO SMARTZONE	Compatible with ASTRO Spectra models H1618 & H1619, ASTRO Spectra PLUS models T6929 & T6930, XTL T6996 and T6995.	G347	430	\$1,144.00	
ENH: SMARTZONE UPGRADE	ONLY Compatible with T6930	G347	430	\$880.00	
ENH: SMARTZONE UPGRADE	Compatible with ASTRO Spectra models: H1620 & H1621	G347	430	\$440.00	
ENH: SMARTZONE UPGRADE	Compatible with T6766 & T6767, T6997, T6998	G347	430	\$440.00	
ENH: SMARTZONE UPGRADE	Software Refresh. Compatible with ASTRO Spectra models - H1622, H1623; XTL 5000 models - T6999, T7000; XTL 2500 models - T7246, T7247 and ASTRO Spectra PLUS models - T6768, T6769.	G347	430	\$108.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$127.00	
ADD: SMARTZONE OMNILINK	Required for P25 SmartZone operation.	G173AB	430	\$286.00	
ADD: ADVANCED SYSTEM KEY-HARDWARE KEY FLIP	The SOFTWARE KEY is the default Advances System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (W974) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AL	430	\$143.00	
ENH: RADIO SWFT REFRESH-XTL 5000	The G880 CAN NOT be ordered with anything else. Its a refresh option only	G880AB	430	\$108.00	
ENH: PROJECT 25 9600 BAUD TRUNKING	includes G/Q173 (Ommlink)	G361AG	430	\$429.00	
ENH: ENH: RADIO TRACE	Compatible with P25 operations (G361)	G170AE	430	\$108.00	
ENH: DIGITAL ID DISPLAY	4-8 Numeric Characters. This option is required to display Radio ID or Radio Alias on the display for analog and digital conventional and trunking configurations.	G114	332	\$108.00	
ADD: ASTRO 25 INTEGRATED VOICE & DATA	Requires Digital Operation	W947AP	430	\$286.00	
ADD: TRUNKED ONE TOUCH BUTTON	-	G683	430	\$108.00	
ENH: MLTCTST VOTNG SCAN	-	G387AA	430	\$286.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ADD: XTL5000 RADIO AUTHENTICAT	Requires G361	W391CS	430	\$143.00	
ADD: RF PRE-AMPLIFIER	Option applies only to VHF & UHF radios.	W12DM	430	\$108.00	
Algorithm Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO 25 OTAR W/ MULTIKEY	Includes Multikey Operation	G298AQ	430	\$1,058.00	
ENHANCES MULTI KEY OPERATION UPGRADE	-	W969	332	\$472.00	
ADD: ADP SW DSP BASED CRYPTO	-	G193AF	430	\$108.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ENH: INTER SYSTEM ROAMING	-	G369	430	\$143.00	
ADD: CHANNEL SCAN WITH VRS	-	W357BB	430	\$28.00	
ADD: 12.5KHZ FCC MANDATE	-	G507AH	430	\$0.00	
Accessories					
FLASHport					
Description	Full Description	Nomenclature	APC	Price	
FLASHPORT KIT, XTL 5000 RADIO	-	DVN4026	430	\$0.00	
Replacement Kits					
Description	Full Description	Nomenclature	APC	Price	
ADVD SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00	
ADVD SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00	
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00	

**ASTRO® Digital XTL 5000 Mobile
FLASHport®
Universal Crypto Module (UCM) Upgrades**

Model					
Description	Full Description	Nomenclature	APC	Price	
PCMCIA UNIVERSAL CRYPTO (UCM) UPGRADE CARD	-	T6740	526	\$125.00	
Options					
Algorithm Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: DES, DES-XL, DES-OFB ENCRYPTION	-	CA00840AF	500	\$599.00	
ADD: DVP-XL ENCRYPTION	-	CA00146AH	500	\$536.00	
ADD: AES ENCRYPTION	-	CA00182AJ	500	\$550.00	
ADD: ADP PRIVACY	-	CA00243AC	500	\$75.00	
ADD: AES REFRESH	Provides AES-GCM & EID capability to UCM fielded radios with AES prior to firmware version 7.8.5. Requires IV&D.	CA01613	500	\$86.25	

**ASTRO® Digital XTS 1500 Portable Series
700 / 800 MHz Band**

Accessories					
Adapter					
Description	Full Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50	
PSM RF ADPT	-	RLN5918	372	\$39.00	

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included)	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Bluetooth, Mission Critical Wireless Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
Charger				
Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$196.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

ASTRO® Digital XTS 1500 Portable Series UHF Range 1 and UHF Range 2

Accessories				
Adapter				
Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50
PSM RF ADPT	-	RLN5918	372	\$39.00
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50
UHF HELICAL ANTENNA, 403-435 MHZ	-	NAE6546 R	796	\$17.75
Battery				
Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
Charger				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00

ASTRO® Digital XTS 1500 Portable Series VHF

Accessories				
Adapter				
Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$17.75
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$17.75
Battery 10% Price Increase effective 1 Nov 2020				
Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
Charger				

Description	Full Description	Nomenclature	APC	Price
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
EAR RCVR W/COIL CBL3.5MM PLUG	-	WADN4190B	742	\$44.25
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

**ASTRO® Digital XTS 2500 Portable Series
700/800MHz Band**

Description	Full Description	Nomenclature	APC	Price
PSM RF ADPT	-	RLN5918	372	\$39.00
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50
Algorithm Kits				
Description	Full Description	Nomenclature	APC	Price
SECURE BRD M1.5 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	456	\$811.00
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	456	\$690.00
SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	456	\$690.00
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	456	\$811.00
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	456	\$811.00
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	456	\$811.00
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	456	\$871.00
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA, DIPOLE 806-870MHZ	-	NAF5039	555	\$35.75
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$38.50
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO,TRBO & APX adapter included).	NNTN7392	785	\$250.00
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50
Cable(s)				
Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4105	261	\$343.00
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No RIB Box required.	RKN4106	261	\$276.00
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
Charger				
Description	Full Description	Nomenclature	APC	Price
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75
Charger Line Cords				
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
EAR RCVR W/COIL CBL3.5MM PLUG	-	WADN4190B	742	\$44.25
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
Description	Full Description	Nomenclature	APC	Price

Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$96.00
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$130.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
Public Safety Microphone(s)				
Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$44.50
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
BATT CLAMSHELL, XTS2500	-	NNTN6686B	453	\$90.00

**XTS 2500 Portable Series
900 MHz Band**

Description	Full Description	Nomenclature	APC	Price
Accessories				
Adapter				
Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50
KEYLOAD ADAPTER	The Surveillance/KEYLOAD ADAPTER NTN8613 allows XTS2500, XTS3000, XTS3500 and XTS5000 radios to be used with a ZMN6031, ZMN6032, ZMN6033 or ZMN6039 surveillance microphone and earpiece	NTN8613	476	\$89.25
Antenna				
Description	Full Description	Nomenclature	APC	Price
ANTENNA 896-941MHZ 1/2" WAVELENGTH WHIP	-	NAF5038	476	\$35.75
ANTENNA, 806-941MHZ 1/4 WAVELENGTH WHIP (STUBBY)	-	NAF5042	476	\$25.50
Battery 10% Price Increase effective 1 Nov 2020				
Description	Full Description	Nomenclature	APC	Price
BATTERY STD IP54 LIION 2700M2900T	-	PMMN4454AR	453	\$94.00
Battery Maintenance Systems				
Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO/TRBO & APX adapter included)	NNTN7392	785	\$250.00
Belt Clip(s)				
Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50
2" SPRING BELT CLIP	For MTH800 - to be used in conjunction with bracket U/slot FTN6302	HLN9844	271	\$12.50
Belt Loops				
Description	Full Description	Nomenclature	APC	Price
CARRY CASE SHOULDER STRAP	Adjustable Nylon Carrying Strap	NTN5243A	271	\$24.75
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
Charger				
CPS Software				
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25

EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$39.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	MNM6245	785	\$149.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$96.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00
GPS R2 SMART/NON-SUBM RSM	-	HMN4107A	372	\$350.00
Public Safety Microphone(s)				
Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMNS073B	372	\$160.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$44.50
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$46.75
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00

ASTRO® Digital XTS 2500 Portable Series
UHF Range 1 and UHF Range 2

Accessories				
Algorithm Kits				
Description	Full Description	Nomenclature	APC	Price
SECURE BRD M1.5 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4925A	456	\$811.00
SECURE BOARD M3 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4930A	456	\$811.00
SECURE BOARD M2 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4929A	205	\$690.00
SECURE BRD M2 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4928A	205	\$749.00
SECURE BOARD M3 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4932A	456	\$690.00
SECURE BRD M3 DES,DES-XL,DES-OFB	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4931A	456	\$811.00
SECURE BOARD M2 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4927A	456	\$811.00
SECURE BOARD M1.5 AES	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4924A	456	\$871.00
SECURE BOARD M1.5 ADP	Includes both UCM Hardware Module & Software Encryption Algorithm. Requires Host/DSP, R07.00.00, version or later.	PMLN4926A	456	\$690.00

Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, 470-520MHZ UHF HELICAL	-	NAE6548	555	\$16.50	
ANTENNA, 380-435MHZ UHF HELICAL	-	NAE6546	555	\$16.50	
Battery					
Description	Full Description	Nomenclature	APC	Price	
BATTERY STD IP54 LIION 2700M2900T	-	PMNN4454AR	453	\$94.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00	
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00	
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50	
Bluetooth, Mission Critical Wireless Cable(s)					
Description	Full Description	Nomenclature	APC	Price	
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4105	261	\$343.00	
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios.* PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4106	261	\$276.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NiMH.	NNTN4115	271	\$64.75	
Charger					
Description	Full Description	Nomenclature	APC	Price	
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	
Commport Integrated Microphone/Receiver					
Description	Full Description	Nomenclature	APC	Price	
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00	
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00	
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75	
Hardware					
Description	Full Description	Nomenclature	APC	Price	
FPP CONNECTOR PROGRAMMING KEY	This connector key (dongle) is required while utilizing FPP.	PMTN4113	261	\$150.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00	
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00	
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$96.00	
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00	
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00	
Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$44.50	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	

EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00

Customer Programming Software Manual(s)

Description	Full Description	Nomenclature	APC	Price
MANUAL CD SERVICE ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985899D01	362	\$11.00
MANUAL CD SERVICE AND THEORY ENGLISH XTS 1500, 2500, AND MT 1500	XTS2500, XTS1500, MT1500 BASIC SERVICE MANUAL PAPER	9985900D01	362	\$33.50
USER GUIDES CD XTS2500	-	9985898D01	362	\$11.00
MANUAL USER GUIDE XTS2500 MODEL I	Operations/User's manual PAPER.	6881094C04	205	\$11.25

ASTRO® Digital XTS 2500 Portable Series VHF

Accessories

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50

Description	Full Description	Nomenclature	APC	Price
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$17.75
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$27.25
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$17.75

Battery 10% Price Increase effective 1 Nov 2020

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
BATTERY STD IP54 LION 2700M2900T	-	PMN4454AR	453	\$94.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO/TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
BELT CLIP 2 1/4"	-	HLN6853	271	\$12.50

Bluetooth, Mission Critical Wireless Cable(s)

Description	Full Description	Nomenclature	APC	Price
CABLE- PROGRAMMING USB	DOES NOT require Smart Rib. This cable MUST be ordered or the RKN4106 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4105	261	\$343.00
CABLE- PROGRAMMING, RS232	This cable MUST be ordered or the RKN4105 when you order the RVN4186 to program the Portable Radios. * PR1500 - uses RVN4181 CPS - No Rib Box required.	RKN4106	261	\$276.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and 1-strap. 3.0 in. Snap NiCad or NIMH.	NNTN4115	271	\$64.75
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50

Charger

Description	Full Description	Nomenclature	APC	Price
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
WALL MOUNT KIT FOR IMPRES MULTI-UNIT CHARGER	Wall Mount Bracket for IMPRES Multi-Unit Charger	NLN7967	785	\$22.75

Charger Line Cords

Commport Integrated Microphone/Receiver

Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00

Earpieces

Description	Full Description	Nomenclature	APC	Price
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EAR RCVR W/COIL CBL3.5MM PLUG	-	WADN4190B	742	\$44.25
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
EARBUD, RECEIVE ONLY, BLACK (SINGLE WIRE)	*HT1000, XTS 3000, requires BDN6676 (3.5mm adapter jack) that attaches to the radio. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM) *XTS 5000 & XTS 2500 requires BDN6676. Intrinsically Safe (FM). Assembled (receive only) with volume control & standard urethane earloop. *PR1500 - requires BDN6676 - Intrinsically Safe (FM)	BDN6781	742	\$27.00

Headsets

Description	Full Description	Nomenclature	APC	Price
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
MED DUTY HEADSET, BEHIND-THE-HEAD, W/IN-LINE PTT-NRR= 24DB-INTRIN (FM)	Medium Weight Headset, Behind the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6259	742	\$425.00
MED WEIGHT HEADSET, OVER-THE-HEAD, W/IN-LINE PTT-NRR=24DB-INTRIN (FM)	Medium Weight Headset, Over the Head, with In-Line PTT - Noise Reduction Rating = 24dB	NMN6258	742	\$389.00

Microphones

Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM, Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMN4038A	372	\$105.00
RSM W/MAN DOWN BUTTON	-	RMN5038	372	\$130.00
SPKR MIC NON-SUBMSBL, GPS RSM	HMN4084 has the Earjack. Not compatible with Man-Down Side connector (NTN7860) or Clamshell Battery Holder (Q495, Q496, NTN9177, NTN9183). When used with XTS 2500, requires B version board. INCLUDES GPS RSM User guide (6881098C03).	HMN4084	372	\$350.00

Multi Unit Chargers

Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00

Public Safety Microphone(s)

Description	Full Description	Nomenclature	APC	Price
PSM STRAIGHT CABLE 24IN	-	RMN5073B	372	\$160.00

Surveillance

Description	Full Description	Nomenclature	APC	Price
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6664	742	\$41.25

**ASTRO® Digital XTS 4000
FLASHport® Aftermarket Upgrades
VHF, UHF Bands**

Models

Description	Full Description	Nomenclature	APC	Price
ENH: 3600 9600 ASTRO TRUNKING SW	-	T7454A	430	\$0.00
ENH: P25 CONVENTIONAL OPERATION SW	-	T7455A	430	\$0.00

Options

Systems Enhancement Options

Description	Full Description	Nomenclature	APC	Price
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00
ENH: INTER SYSTEM ROAMING	-	Q369AB	430	\$143.00

UNDEFINED

Description	Full Description	Nomenclature	APC	Price
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AM	430	\$50.00
ENH: 9600 3600 ASTRO TRUNKING SW	-	H45AK	430	\$875.00
ENH: RADIO SOFTWARE REFRESH XTS4000	-	O880AK	430	\$75.00
ADD: ASTRO 25 INTEGRATED VOICE & DATA	-	Q947AZ	430	\$200.00

**ASTRO® Digital XTS 4000 Portable Series
UHF Range 1**

Charger

Description	Full Description	Nomenclature	APC	Price
XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00
XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00
XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$358.00

**ASTRO® Digital XTS 4000 Portable Series
VHF**

Accessories

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA 145 - 166 MHZ	-	NAD6581A	555	\$29.00
ANTENNA 136 - 151 MHZ	-	NAD6582A	555	\$38.00
ANTENNA 162.0 - 174.0 MHZ	-	NAD6583A	555	\$35.75

Charger

Description	Full Description	Nomenclature	APC	Price
XTS4000 CHARGING CRADLE ADAPTER	-	NNTN6937A	785	\$42.00
XTS4000 DC VEHICULAR CHARGER	-	NNTN6939A	785	\$105.00
XTS4000 AC CHARGER	-	NNTN6938A	785	\$105.00

Miscellaneous

Description	Full Description	Nomenclature	APC	Price
USB PROGRAMMING CABLE	-	NKN1029A	261	\$418.00
RS232 XTS4000 PROGRAMMING CABLE	-	NKN1027A	261	\$358.00

**ASTRO® Digital XTS 5000 Portable Series
700/800 MHz Band**

Accessories

Adapter

Description	Full Description	Nomenclature	APC	Price
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50

Antenna

Description	Full Description	Nomenclature	APC	Price
ANTENNA	-	8505241U11	555	\$37.75
ANTENNA, 806-870 MHZ 1/2 WAVELENGTH WHIP	-	NAF5037	555	\$38.50

Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$156.00
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
BAT HOLDER CLAMSHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries are NOT included. This battery is NOT FM approved or intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$80.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$125.00
BATTERY 3000 MAH FM NIMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00

Battery Maintenance Systems

Description	Full Description	Nomenclature	APC	Price
IMPRES BATTERY DATA READER	Provides IMPRES battery users ability to access key usage data via PC. Compatible w/all IMPRES batteries (HT/PRO/TRBO & APX adapter included)	NNTN7392	785	\$250.00

Belt Clip(s)

Description	Full Description	Nomenclature	APC	Price
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$14.00

Bluetooth, Mission Critical Wireless

Description	Full Description	Nomenclature	APC	Price
MISSION CRITICAL WIRELESS ADAPTER	Mission Critical Wireless Adapter is not intrinsically safe nor approved for use in Hazardous Locations	PMLN5792A	742	\$107.00

Carrying Case(s)

Description	Full Description	Nomenclature	APC	Price
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	271	\$55.00
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$64.75
ACCESSORY KIT, FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00
ACCESSORY KIT, FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$13.00

Description	Full Description	Nomenclature	APC	Price
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25
LEATHER CASE WITH BELT LOOP, FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
Charger				
Description	Full Description	Nomenclature	APC	Price
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$196.00
Commport Integrated Microphone/Receiver				
Description	Full Description	Nomenclature	APC	Price
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces				
Description	Full Description	Nomenclature	APC	Price
BONE CONDUCTION EAR MICROPHONE (XTS3000/5000/2500/1500/MT1500/PR1500)	-	PMLN5464	742	\$427.00
EAR RCVR W/COIL CBL&3.5MM PLUG	-	WADN4190B	742	\$44.25
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$39.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
Description	Full Description	Nomenclature	APC	Price
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	MNM6245	785	\$149.00
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00
Microphones				
Description	Full Description	Nomenclature	APC	Price
GPS R2 SMART/SUBM RSM FM	GPS R2.0 RSM. Submersible XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4113A	372	\$385.00
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$96.00
GPS R2 SMART/NON-SUBM RSM FM	GPS R2.0 RSM, 3.5mm audio jack XTS2500 compatibility requires B tanapa version hardware and radio host R10.00.00 or later XTS5000 compatibility requires radio host cost R06.01.00 or later. FM compliant	HMN4112A	372	\$350.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
CHGR DESKTOP SINGLE UNIT IMPRES 2, US/NA	-	PMPN4175A	785	\$196.00
Public Safety Microphone(s)				
Description	Full Description	Nomenclature	APC	Price
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	MNM6250	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	MNM6247	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. *REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00
Surveillance				
Description	Full Description	Nomenclature	APC	Price
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$44.50

RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6727	742	\$46.75
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ASTRO® Digital XTS 5000™ Portable Series UHF RANGE 1 / TYPE 1 Encryption

Accessories

Description	Full Description	Nomenclature	APC	Price
BATTERY IMPRES NIMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00
BATT 1700 MAH FM NIMH	-	NNTN4436B	453	\$125.00
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00
IMPRES NIMH 1800 MAH BATT	-	NNTN4435B	453	\$156.00
Battery Maintenance Systems				
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00
Belt Clip(s)				
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$14.00
Carrying Case(s)				
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	271	\$55.00
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$13.00
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25
LEATHER CASE WITH BELT LOOP, FOR CLAMHELL BATTERY	-	NTN9184	476	\$67.00
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$64.75
Commport Integrated Microphone/Receiver				
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00
Earpieces				
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS- Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$39.00
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75
Headsets				
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00
Microphones				
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00
REMOTE SPEAKER MICROPHONE, IP57	-	PMMN4038A	372	\$105.00
THROAT MICROPHONE	-	RLN6478A	742	\$270.00
Multi Unit Chargers				
Public Safety Microphone(s)				
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00
Surveillance				
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. * EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS requires PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved	BDN6726	742	\$44.50

EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00
EARPIECE, MIC & PTT COMBINED W/XTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00
EARPIECE W/MIC & PTT SEPARATE W/XTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$46.75

**ASTRO® Digital XTS 5000 Portable Series
VHF / TYPE 1 Encryption**

Accessories					
Adapter					
Description	Full Description	Nomenclature	APC	Price	
3.5 MM JACK ADAPTER WITH QUICK DISCONNECT LATCH	For use with 1, 2 & 3 wire earpiece.	BDN6676	742	\$61.50	
Antenna					
Description	Full Description	Nomenclature	APC	Price	
ANTENNA, 150.8-162MHZ WIDEBAND HELICAL	-	NAD6567	555	\$17.75	
ANTENNA, 162-178MHZ WIDEBAND HELICAL	-	NAD6568	271	\$17.75	
ANTENNA, 136-150.8MHZ WIDEBAND HELICAL	-	NAD6566	555	\$16.50	
ANTENNA, 136-174MHZ WIDEBAND DIPOLE	-	NAD6563	476	\$27.25	
Battery					
Description	Full Description	Nomenclature	APC	Price	
BATTERY IMPRES LI-ION 3950MAH FM RUGGED	Li-Ion 3950mAh, IMPRES, Intrinsically Safe, Ruggedized	NNTN7453A	453	\$210.00	
BATTERY IMPRES NiMH, 1700 MAH. INTRINSICALLY SAFE, RUGGEDIZED	IMPRES batteries provide for automatic and adaptive reconditioning in IMPRES chargers, provide end of service life display, and real-time battery information when used with the IMPRES MUC with display.	NNTN4437B	453	\$147.00	
BATT 1700 MAH FM NiMH	-	NNTN4436B	453	\$125.00	
IMPRES NiMH 1800 MAH BATT	-	NNTN4435B	453	\$156.00	
BAT HOLDER CLAMSHELL ORG	Portable radio software version R01.20 or greater is required for use with this product. Clamshell battery requires 12 'AA' alkaline batteries to operate portable. 'AA' batteries are NOT included. This battery is NOT FM approved or Intrinsically safe. This battery will automatically reduce the radio's RF power to 2watts.	NTN9183	453	\$80.00	
BATTERY 3000 MAH FM NiMH	Guaranteed for 70% of capacity 1 year, only Compatible with NTN1177/4796, 1168 and all TRI-Chem Chargers.	RNN4007 R	453	\$150.00	
Battery Maintenance Systems					
Description	Full Description	Nomenclature	APC	Price	
FLEET MANAGEMENT CHRGR INTERFACE UNIT	Multi-Unit Charger Interface Unit, attaches to an APX or XTS IMPRES multi-unit charger to enable the data transfer to IMPRES Battery Fleet Management. A CIU is required for IMPRES chargers that report data to IMPRES Battery Fleet Management.	NNTN7677A	291	\$159.00	
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN6875A	271	\$14.00	
Carrying Case(s)					
Description	Full Description	Nomenclature	APC	Price	
LEATHER CASE WITH BELT LOOP, FOR CLAMSHELL BATTERY	-	NTN9184	476	\$67.00	
2.5 INCH LEATHER SWIVEL BELT LOOP	For use only with the High Activity Leather Swivel Snap Carry Cases.	NTN8039	271	\$13.00	
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50	
HIGH-ACTIVITY SWIVEL LEATHER CASE	-	NTN8380C	271	\$64.75	
ACCESSORY KIT,ANTI-SWAY STRAP	-	RLN6488A	271	\$16.25	
HIGH-ACTIVITY NYLON CASE WITH BELT LOOP AND T-STRAP	-	NTN8725	271	\$55.00	
ACCESSORY KIT,FIREMAN'S RADIO STRAP	-	RLN6486A	271	\$40.00	
ACCESSORY KIT,FIREMAN'S RADIO STRAP, XL	-	RLN6487A	271	\$43.25	
Charger					
Commport Integrated Microphone/Receiver					
Description	Full Description	Nomenclature	APC	Price	
COMMPORT WITH PALM PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1624	115	\$453.00	
COMMPORT WITH PTT ON RADIO ADAPTER	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1625	115	\$419.00	
COMMPORT WITH SNAP-ON SIDE PTT	CommPort Integrated Receiver Ear Microphone is intelligible in high noise levels up to 100dB.	NTN1736	115	\$429.00	
Earpieces					
Description	Full Description	Nomenclature	APC	Price	
EARPLUGS FOAM/ACOUSTIC TUBE BLACK	-	RLN6230A	742	\$34.50	
RUBBER EARTIP/ACOUSTIC TUBE BEIGE	-	RLN6241A	742	\$20.00	
QUICK DISCONNECT ACOUSTIC TUBE	-	RLN6242A	742	\$8.55	
FLEXIBLE EAR RECEIVER	Flexible ear loop and speaker which rests external to the ear. REQUIRE BDN6676 (3.5mm adapter jack) that attaches to the radio. *HT1000 and XTS3000 requires BDN6676 (3.5mm adapter jack) that attaches to the radio. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS - Requires PMLN4455 - Intrinsically Safe (FM)	BDN6719	742	\$39.00	
EARBUD, MINI MICROPHONE AND PTT	*MTX8000 & MTX9000 - Requires BDN6676 (3.5 mm adapter jack) that attaches to the radio. Assembled with microphone & PTT. *EX500 & EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM).	BDN6780	742	\$67.00	
RECEIVE ONLY EARPIECE W/TRANSLUCENT TUBE	-	RLN4941A	742	\$76.75	
RECEIVE-ONLY FOAM EARBUD WITH 3.5MM PLUG - INTRINSICALLY SAFE	-	AARLN4885	742	\$27.75	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
RUGGED TEMPLE TRANSDUCER HEADSET	Features a noise cancelling boom microphone and In-Line PTT	RMN5049	742	\$340.00	
HEAVY-DUTY HEADSET	MT Series Neckband Headset with Nexus connector. Requires PTT Adapter PMLN6095. Noise Reduction Rating: 24 dB	RLN6477A	742	\$269.00	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00	
HEADSET LIGHTWEIGHT	Single Muff Lightweight Headset with In-Line PTT Switch (requires BDN6676 audio adapter)- Intrinsically Safe (FM) EX500, EX600 XLS - requires PMLN4455 - Intrinsically Safe (FM)	NMN6245	785	\$149.00	
Microphones					
Description	Full Description	Nomenclature	APC	Price	
REMOTE SPEAKER MIC, RX-JACK	-	PMMN4051B	372	\$96.00	
THROAT MICROPHONE	-	RLN6478A	742	\$270.00	
REMOTE SPEAKER MIC, NC	-	PMMN4045B	372	\$115.00	
Public Safety Microphone(s)					
Description	Full Description	Nomenclature	APC	Price	
PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 30 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NMN6247	372	\$155.00	

PUBLIC SAFETY MICROPHONE, STRAIGHT CABLE 24 IN	PSM does not have emergency switch. For XTS 5000 UHF R1 use only approved antennas NAE6547 and NAE6549.	NM6250	372	\$155.00
RF ANTENNA SWITCH	The RF Switch has been removed from the XTS radio to provide cost savings on the model. Therefore, the external RF switch must be attached to the radio in order for the PSM to operate. A wrench tool must be used to place the RF switch. These kits must be ordered separately. REQUIRES ANTENNA. The RF switch and mics are FM approved.	NTN8327	785	\$250.00

Surveillance					
Description	Full Description	Nomenclature	APC	Price	
EARPIECE WITH MICROPHONE & PTT COMBINED - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 require BDN6676 adapter. FM Approved.	BDN6729	742	\$123.00	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BLACK (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6731	742	\$127.00	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6732	742	\$150.00	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6668	742	\$135.00	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BEIGE (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6664	742	\$41.25	
EARPIECE RECEIVE ONLY WITH STANDARD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6726	742	\$44.50	
EARPIECE W/MIC & PTT SEPARATE W/EXTRA LOUD EARPIECE - BEIGE (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000, & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6670	742	\$150.00	
EARPIECE WITH MICROPHONE & PTT SEPARATE - BLACK (3 WIRE)	3-Wire Receive-Only Surveillance Kit with Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6730	742	\$146.00	
EARPIECE, MIC & PTT COMBINED W/EXTRA LOUD EARPIECE - BEIGE (2 WIRE)	2-Wire Receive-Only Surveillance Kit with Extra- Loud Earpiece, Beige, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000, XTS 2500, XTS 3000 & XTS 5000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6669	742	\$127.00	
RECEIVE ONLY EARPIECE WITH EXTRA LOUD EARPHONE - BLACK (SINGLE WIRE)	1-Wire Receive-Only Surveillance Kit with Extra-Loud Earpiece, Black, 3.5mm Threaded. *APX series require BDN6783 adapter. FM Approved with APX6000/6000XE and APX7000/7000XE. *HT1000 & XTS 3000 require BDN6676 adapter. If being used with Remote Speaker Microphone with 3.5mm audio jack, audio adapter is not required. *XTS 2500 & XTS 5000 require new adaptor. FM Approved. *EX500 & EX600 XLS require PMLN4455 adapter. FM Approved. *PR1500 requires BDN6676 adapter. FM Approved.	BDN6727	742	\$46.75	

**ASTRO® Digital XTS 1500
FLASHport® Aftermarket Upgrades**

Models					
Description	Full Description	Nomenclature	APC	Price	
DIGITAL 9600 TRUNKING PACKING XTS 1500	-	T7016	430	\$0.00	
ANALOG & DIGITAL 3600 TRUNKING XTS 1500	-	T7017	430	\$0.00	
DIGITAL P25 CONVENTIONAL XTS 1500	-	T7018	430	\$0.00	
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: 9600 TRUNKING FLASHPORT REFRESH	Refresh of 9600 baud software package	Q574AF	430	\$83.00	
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7017. Upgrade from 3600 analog or digital baud control channel to 9600 baud control channel	Q574AG	430	\$127.00	
ENH: 9600 TRUNKING FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to P25 Digital Trunking.	Q574AH	430	\$488.00	
ENH: TRUNKING 3600 FLASHPORT REFRESH	Refresh of 3600 Analog or Digital Package. Compatible with T7016, downgrade from 9600 Digital Package to 3600 Analog or Digital Package.	Q575AH	430	\$83.00	
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T7018. Upgrade from P25 Conventional to 3600 Analog or Digital Trunking Package.	Q575AK	430	\$362.00	
ENH: 9600 TRUNKING TO 3600 TRUNKING	Downgrades a 9600 radio to 3600 baud.	Q575BM	430	\$127.00	
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	Refresh of P25 Conventional Software Package	Q811AD	430	\$83.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: OVER THE AIR PROVISIONING	POP25 is for ASTRO 25 Trunking only operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AG	430	\$127.00	
ADD: ASTRO 25 INTEGRATED VOICE & DATA	SHOULD order a cable for data connectivity	Q947AY	430	\$253.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: INTER SYSTEM ROAMING	-	Q369AB	430	\$143.00	
ADD: ADVANCED SYSTEM KEY-HARWARE KEY FLP	The SOFTWARE KEY is the default Advance System Key option that ships standard on all APX products. You can no longer order software key QA01749. The HARDWARE KEY QA01648 can be ordered instead. Be sure to enter the CORRECT SYSTEM OWNER ID in the supplemental data. If an INCORRECT ID is entered, a FLASHport order is required to fix the error.	QA01648AC	430	\$6.00	
ADD: SW KEY SUPPLEMENTAL DATA FLP	A SOFTWARE or ADVANCED SYSTEM KEY or WACN KEY is REQUIRED to be purchased with any APX Radio operating in trunking.	QA01749AE	430	\$0.00	
ADD: ENHANCED DATA	Digital (Q806/G806), Smartzone (H38/G51), IV&D (Q947) and P25 Trunking (Q361/G361) are required when ordering QA03399 (Enhanced Data).	QA03399AB	430	\$190.00	
Software Refresh					
Description	Full Description	Nomenclature	APC	Price	
ENH: RADIO SOFTWARE REFRESH XTS1500	-	Q880AD	430	\$95.00	
System Enhancement					
Description	Full Description	Nomenclature	APC	Price	
ADD: AUDIBLE CHANNEL SELECTION	-	Q446AE	430	\$127.00	
ENH: ADP PRIVACY	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AF	430	\$95.00	
Service Options					
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AK	430	\$127.00	
XTS1500 IMBE CD ROM	-	Q164BK	430	\$0.00	

ENH: REBAND UPGRADE TO XTS1500	-	QA00281AA	430	\$506.00
DEL: FCC NARROWBANDING MANDATE	-	QA03400AE	430	\$0.00
Accessories				
Battery				
Description	Full Description	Nomenclature	APC	Price
IMPRES NIMH, 2000 MAH, 7.5V BATTERY - INTRINS SAFE (FM)	-	NTN9857C	453	\$152.00
IMPRESS NIMH, 2100 MAH, 7.5V BATTERY	-	NTN9858C	453	\$130.00
IMPRES NIMH, 2000 MAH, 7.5V BATTERY-INTRINS SAFE (FM) - RUGGEDIZED	-	NNTN6263	453	\$158.00
Battery Maintenance Systems				
Carrying Case(s)				
Description	Full Description	Nomenclature	APC	Price
LEATHER T-STRAP, PLAIN ACTION SNAP	-	NTN8383	271	\$10.50
LEATHER CASE W/HIGH ACTIVITY 3.0" SWIVEL BELT LOOP	Includes swivel belt loop and t-strap. 3.0 in. Snap NiCad or NIMH.	NNTN4115	271	\$64.75
Charger				
Description	Full Description	Nomenclature	APC	Price
IMPRES CHARGER	-	WPLN4111AR	785	\$182.00
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00
Multi Unit Chargers				
Description	Full Description	Nomenclature	APC	Price
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00
Replacement Kits				
Description	Full Description	Nomenclature	APC	Price
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00
ADV'D SYSTEM KEY I BUTTON REPLACEMENT	-	DVN4049	362	\$200.00
I BUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
CPS R14.00.00 ASTRO 25 PORTABLE	-	RVN4181AH	371	\$265.00
FIRMWARE RADIO 3600 TRUNKING XTS 1500	-	DVN4040	430	\$1.45
2-WIRE EARBUD, 116CM CORD, BLACK	-	NNTN8298A	742	\$54.00
BMS ADAPTER FOR XTS2500 BATTERY	-	PMLN5423A	785	\$178.00
RADIO FIRMWARE XTS 1500	-	DVN4027	430	\$1.45
RADIO FIRMWARE P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4029	430	\$1.45
FLASHPORT KIT 9600 D TRUNKING XTS 1500	-	DVN4030	430	\$1.45
FLASHPORT KIT 3600 AD TRUNKING XTS 1500	-	DVN4031	430	\$1.45
FLASHPORT KIT 3600 ANALOG SMARTZONE XTS 1500	-	DVN4032	430	\$1.45
FLASHPORT KIT P25 DIGITAL CONVENTIONAL XTS 1500	-	DVN4033	430	\$1.45

ASTRO® Digital XTS 2500
FLASHport® Aftermarket Upgrades

Models				
Description	Full Description	Nomenclature	APC	Price
DIGITAL 9600 BAUD TRUNKING PACKAGE	Model 1.5, II and III	T6810	430	\$0.00
DIGITAL AND ANALOG LIMITED 3600 BAUD TRUNKING PACKAGE	Model 1.5, II, III	T6811	430	\$0.00
ANALOG 3600 TRUNKING XTS 2500	Model 1.5, II, III	T6992	430	\$0.00
PROJECT 25 CONVENTIONAL XTS 2500	Model 1.5, II, III	T6993	430	\$0.00
ANALOG & DIGITAL LIMITED 3600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7025	430	\$0.00
DIGITAL 9600 BAUD TRUNKING PACKAGE XTS 2500 MODEL I	-	T7026	430	\$0.00
ANALOG 3600 TRUNKING XTS2500 MODEL I	-	T7031	430	\$0.00
P25 CONVENTIONAL XTS 2500 MODEL I	-	T7032	430	\$0.00
Options				
Operation Mode				
Description	Full Description	Nomenclature	APC	Price
ENH: SOFTWARE ANALOG 3600 BAUD	Compatible with T6992 and T7031. Refresh of 3600 Analog Baud Trunking Package.	Q443AC	430	\$83.00
ENH: SOFTWARE ANALOG 3600 BAUD	Compatible with T6993. Upgrade from P25 Conventional to 3600 Analog Software Package.	Q443AD	430	\$253.00
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6811 and T7025. Upgrade from 3600 Analog/Digital baud to 9600 Digital baud	Q574AC	430	\$380.00
ENH: TRUNKING 9600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade from 3600 Analog Trunking to 9600 Digital	Q574AE	430	\$651.00
ENH: TRUNKING 9600 BAUD FLSPRT	COMPATIBLE with T6993 and T7032. Software Package INCLUDES: 9600 Baud, Wide Area SmartZone, OmniLink, and ASTRO Digital CAI.	Q574AM	430	\$778.00
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT	-	Q575AB	430	\$380.00
ENH: TRUNKING 3600 BAUD LIMITED FLASHPORT REFRESH	-	Q575AC	430	\$83.00
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6992 and T7031. Upgrade 3600 Analog to 3600 Analog/Digital Trunking.	Q575AE	430	\$525.00
ENH: TRUNKING 3600 BAUD FLASHPORT	Compatible with T6993 and T7032. Upgrade from P25 Conventional to 3600 Analog/Digital Trunking.	Q575AF	430	\$778.00
ENH: SOFTWARE P25 CONVENTIONAL REFRESH	-	Q811AB	430	\$83.00
ENH: 3600/9600 INTEROPERABILITY FLASHPORT	COMPATIBLE with Q574 9600 Trunking only.	Q883AC	430	\$633.00
Systems Enhancement Options				
Description	Full Description	Nomenclature	APC	Price
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AM	430	\$127.00
ENH: ENH: TRUNKED REMOTE MONITOR	-	H43AW	430	\$110.00
ADD: FIREGROUND ACCOUNTABILITY SW	Digital/Conventional Only This feature now also allows the user to use a side button of the radio as a method to transmit the acknowledgement of an Evacuation instead of using PTT button.	Q445AD	430	\$317.00
ENH: PACKET DATA UPG FOR XTS PT	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AN	430	\$253.00
Software Refresh				
Description	Full Description	Nomenclature	APC	Price
ENH: RADIO SOFTWARE REF XTS2500	The Q880 CAN NOT be ordered with anything else. Its a refresh option only.	Q880AC	430	\$95.00
Algorithm Options				
Description	Full Description	Nomenclature	APC	Price
ENH: TACTICAL OTAR	Tactical OTAR is not compatible with DVRs QA00631.	H04AS	430	\$633.00
ADD: MULTIKEY	-	H869BT	430	\$418.00
Programming				
Description	Full Description	Nomenclature	APC	Price
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$215.00
Software Encryption				
Description	Full Description	Nomenclature	APC	Price
ENH: ADP SOFTWARE DSP BASED CRYPTO	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AC	430	\$95.00
UNDEFINED				
Description	Full Description	Nomenclature	APC	Price
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AL	430	\$127.00
ENH: REBAND UPGRADE XTS2500	-	QA00275AA	430	\$506.00

ASTRO® Digital XTS 5000
FLASHport® Aftermarket Upgrades

Models				
Description	Full Description	Nomenclature	APC	Price
ANALOG CONVENTIONAL	-	T6746	430	\$0.00
DIGITAL CONVENTIONAL	-	T6747	430	\$0.00
ANALOG SMARTNET	-	T6748	430	\$0.00
DIGITAL SMARTNET	-	T6749	430	\$0.00

ANALOG SMARTZONE		-	T6750	430	\$0.00
DIGITAL SMARTZONE		-	T6751	430	\$0.00
Options					
Operation Mode					
Description	Full Description	Nomenclature	APC	Price	
ENH: ASTRO DIGITAL CAI OPTION		Q808AG	430	\$737.00	
ENH: PACKET DATA FOR XTS5000	This option is only capable of being used on P25 Digital Conventional and 9600 Trunking Systems. This option is required for IV & D operation.	Q947AP	430	\$286.00	
System Enhancement Software					
Description	Full Description	Nomenclature	APC	Price	
ENH: TACTICAL RADIO STW-STUN/KILL	A keypad is required on the radio to reverse the Stun command in the field. If using a radio with a limited or no keypad, the radio will need to be hooked into a computer with CPS to reverse the Stun/Kill setting. This feature REQUIRES IV&D (Q947) AND Digital Encryption ? AES (Q629) or DES, DES-XL, DES-OFB (Q625) to operate. Tactical Stun Kill is not compatible with DVRs QA00631.	H02	721	\$108.00	
ADD: LINK LAYER RADIO AUTHENTICATION	-	H345AN	430	\$143.00	
ENH: UPGRADE TO DIGITAL VSELP	Compatible with T5776, T5778 and T5780. ASTRO Digital VSELP Operation	Q243	332	\$700.00	
ENH: UPGRADE EXISTING CONVENTIONAL	-	Q324AK	430	\$83.00	
ENH: UPGRADE EXISTING SMARTNET	-	Q326AT	430	\$75.00	
ENH: UPGRADE CONVENTIONAL TO SMARTZONE	-	Q327BE	430	\$1,144.00	
ENH: UPGRADE SMARTNET TO SMARTZONE	-	Q327BF	430	\$572.00	
ENH: UPGRADE EXISTING SMARTZONE	-	Q327BG	430	\$83.00	
ENH: CONV VOTING SCAN UPGRADE	-	Q387AS	430	\$286.00	
Systems Enhancement Options					
Description	Full Description	Nomenclature	APC	Price	
ENH: OVER THE AIR PROVISIONING	POP25 requires UCM & AES encryption for ASTRO Conventional operation. Must have IV&D (Q947) enabled. To do in field POP25 programming must use Advanced System Key (DVN4046A)	G996AN	430	\$143.00	
ADD: DIGITAL ID DISPLAY	-	H14AM	430	\$108.00	
ADD: TRUNKED RADIO TRACE AND REMOTE MONITOR	Cannot be used on P25.	H43BA	430	\$143.00	
ADD: ONE TOUCH BUTTON	You can now do Private Call on 1.5 models and APX3000	H46AT	443	\$98.00	
ADD: ENHANCED SMARTZONE OMNILINK	-	Q173AV	430	\$286.00	
ENH: PROJECT 25 9600 BAUD TRUNKING	Includes SmartZone Omnilink (Q173)	Q361AM	430	\$429.00	
ADD: FIREGROUND ACCOUNTABILITY SOFTWARE UPGRADE	Used for already fielded XTS5000s (FLASHport version). Please see ASTRO Digital XTS 5000 FLASHport Upgrade price page for upgrade models (link above). Please choose upgrade model with Digital Mode Configuration and ORDER this option.	Q445AB	430	\$358.00	
ADD: ADP Flashport Upgrade	ADP Privacy is not FIPS compliant - ADP Privacy not supported by OTAR - ADP is digital P25 conventional / P25 trunking only.	Q667AD	430	\$108.00	
Software Refresh					
Description	Full Description	Nomenclature	APC	Price	
ENH: RADIO SOFTWARE REFRESH XTS5000	-	Q880AA	430	\$108.00	
Algorithm Options					
Description	Full Description	Nomenclature	APC	Price	
ADD: MULTIKEY	-	H869BN	430	\$472.00	
ENH: MDC & ASTRO P25 OTAR WITH MULTIKEY	-	Q498AQ	430	\$1,058.00	
Programming					
Description	Full Description	Nomenclature	APC	Price	
ADD: FRONT PANEL PROGRAMMING & CLONING	Compatible with Digital Conventional Operation only.	Q53AC	430	\$215.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
ENH: ENH: SOFT ID FLASHPORT	-	Q352AK	430	\$0.00	
ENH: ENH: OTACR CHL REASSIGNMENT UV	-	Q353AL	430	\$0.00	
Accessories					
Algorithm Kits					
Description	Full Description	Nomenclature	APC	Price	
ENCRYPTION KIT DVP XL	Includes both UCM Hardware Module & Software Encryption Algorithm	NTN9839	456	\$637.00	
Battery					
Description	Full Description	Nomenclature	APC	Price	
BATTERY NICD, 1525 MAH	-	NTN8294BR	453	\$95.00	
Battery Maintenance Systems					
Belt Clip(s)					
Description	Full Description	Nomenclature	APC	Price	
3" PLASTIC BELT CLIP ATTACHMENT	-	HLN8875A	271	\$14.00	
Bluetooth, Mission Critical Wireless					
Description	Full Description	Nomenclature	APC	Price	
ASSEMBLY ACCESSORY WIRELESS ACCY KIT NFP 12 CABLE	Mission Critical Wireless Earpiece with 12 inch cable and Push-To-Talk pod	NTN2570C	742	\$350.00	
Charger					
Description	Full Description	Nomenclature	APC	Price	
SINGLE BASE ONLY	-	WPLN4114AR	785	\$160.00	
IMPRES SINGLE-UNIT CHARGER, 220 VOLT, EURO PLUG	-	WPLN4112BR	785	\$165.00	
Headsets					
Description	Full Description	Nomenclature	APC	Price	
TEMPLE TRANSDUCER W/BOOM MIC & PTT-RECEIVE AUDIO THROUGH THE TEMPLES	Temple transducer-receive audio without covering the ear; behind the head style headset allows user to receive audio through the temples. Headset features a noise cancelling boom microphone and in-line PTT.	RMN4049	619	\$243.00	
Multi Unit Chargers					
Description	Full Description	Nomenclature	APC	Price	
IMPRES MULTI UNIT CHARGER - 110V US PLUG NON-DISPLAY	-	WPLN4108 R	785	\$867.00	
Replacement Kits					
Description	Full Description	Nomenclature	APC	Price	
IBUTTON FOR USB ADAPTOR	Limited Availability for Legacy and Astro Spectra Subscribers, Please view compatible radios above.	DVN4181	362	\$200.00	
ADV'D SYSTEM KEY IBUTTON REPLACEMENT	-	DVN4049	362	\$200.00	
ADV'D SYSTEM KEY READER REPLACEMENT	USB ADAPTOR	DVN4050	362	\$400.00	
UNDEFINED					
Description	Full Description	Nomenclature	APC	Price	
INTERFACE MODULE FOR BONEMIC	-	JMMN4064B	742	\$347.00	
CLONING CABLE	-	RKN4108	261	\$407.00	
XTVA CONSULE OPEN-FACE BNC	-	NTN1606F	272	\$1,208.00	
TYPE 1 FLASHPORT	-	DVN4043	430	\$200.00	

VIDEO SECURITY AND SURVEILLANCE

Video Security					
Description	Full Description	Nomenclature	APC	Price	
Analog Video Encoder	4-Port H.264 Analog Video Encoder with 4 audio support	ENC-4P-H264		\$407.11	
1U Mounting Bracket for Avigilon Analog Video Encoders	1U Rack Mount Shelf for three Avigilon Analog Video Encoders	ENC-BRK1U		\$64.90	
APD Wall Mount	Optional w/Video or corner Mount for Avigilon Presence Detector	APD-MT-WALL1		\$9.43	
Avigilon Presence Detector	The Avigilon Presence Detector (APD) sensor is a sm/Video form factor impulse radar device with self-learning radar analytics that accurately detects the presence of a person even if they have stopped moving or are hidden. It has the ability to detect presence through blankets; cardboard; wood and dryw/Video. This sensor is designed for indoor locations such as ATM rooms and other closed indoor vestibules within banks ; pharmacies; retail stores; prisons; health care facilities and other environments where privacy and highly accurate detection is needed. APD combined with Avigilon Control Center™ video management software provides an easy-to-deploy discreet surveillance solution to address specific deployment scenarios. Comes with ceiling mount.	APD-S1-D		\$1,003.01	

H4 QVGA Thermal Camera 1 Year Extended Warranty	Extended Warranty for QVGA H4 Thermal cameras; 1 year extension	320SH4THC-WARR-EXTEND-1YR	\$463.91
H4 QVGA Thermal Camera 2 Years Extended Warranty	Extended Warranty for QVGA H4 Thermal cameras; 2 years extension	320SH4THC-WARR-EXTEND-2YR	\$926.66
H4 VGA Thermal Camera 1 Year Extended Warranty	Extended Warranty for VGA H4 Thermal cameras; 1 year extension	640SH4THC-WARR-EXTEND-1YR	\$831.80
H4 VGA Thermal Camera 2 Years Extended Warranty	Extended Warranty for VGA H4 Thermal cameras; 2 years extension	640SH4THC-WARR-EXTEND-2YR	\$1,663.87
H4 Thermal ETD cameras 1 Year Extended Warranty	Extended Warranty for H4 Thermal ETD cameras; 1 year extension	640SH4ATHD-WARR-EXTEND-1YR	\$448.87
H4 Thermal ETD cameras 2 Year Extended Warranty	Extended Warranty for H4 Thermal ETD cameras; 2 year extension	640SH4ATHD-WARR-EXTEND-2YR	\$897.75
Microphone	Omni-directional; low impedance; electret condenser microphone with built-in preamp for producing line level output. It is housed in a high impact ABS dome designed for ceiling or wall mounting. Normal pick-up pattern is approximately 15' from the microphone location; all directions; or within 30' diameter circle. No wiring or plug is provided with the microphone; Avigilon HD Dome Cameras and Analog Encoders with Audio use a 3.5mm plug.	ACC-MIC	\$344.57
PoE Splitter	POE Splitter for Camera Installation; allows the camera to be powered by the network's POE while opening a direct connection to a laptop for image display.	ACC-SPLIT	\$86.77
APD 1 Year Extended Warranty	Extended Warranty for Avigilon Presence Detector; 1 year extension	APD-WARR-EXTEND-1YR	\$98.34
APD 2 Years Extended Warranty	Extended Warranty for Avigilon Presence Detector; 2 year extension	APD-WARR-EXTEND-2YR	\$196.67
OCTEXA3/4C	Barrier cable gland 3/4" NPT armored cable IECEX ATEX EAC Ex -60/+135°C	AVEXG-OCTEXA3/4C	\$151.81
AVO VSA Annual Dedicated Customer Success Manager Service Offering	AVO VSA Annual Dedicated CSM Service Offering	AVO-VSA-DED-CSM-SERV-ANNUAL	\$250,000.00
AVO VSA Elite Service Offering Pilot	Pilot for Elite / Elite Plus Service Offering VSA AVO	AVO-VSA-ELITE-SERV-PILOT	\$258,000.00
AVO VSA Annual Enhanced Technical Account Manager Service Offering	AVO VSA Annual Enhanced TAM Service Offering	AVO-VSA-ENH-TAM-SERV-ANNUAL	\$166,666.66
AVO VSA Annual Pooled Customer Success Manager Service Offering	AVO VSA Annual Pooled CSM Service Offering	AVO-VSA-POOL-CSM-SERV-ANNUAL	\$166,666.66
AVO VSA 12-Month Support Experience Manager Service Offering	AVO VSA 12-Month Support Experience Manager Service Offering	AVO-VSA-SEM-SERV-12MO	\$83,333.33
AVO VSA 2-Year Support Experience Manager Service Offering	AVO VSA 2-Year Support Experience Manager Service Offering	AVO-VSA-SEM-SERV-2YR	\$150,000.00
AVO VSA 6-Month Support Experience Manager Service Offering	AVO VSA 6-Month Support Experience Manager Service Offering	AVO-VSA-SEM-SERV-6MO	\$58,333.33
AVO VSA Annual Standard Technical Account Manager Service Offering	AVO VSA Annual Standard TAM Service Offering	AVO-VSA-STD-TAM-SERV-ANNUAL	\$116,666.66
DIN Rail Mount for Modular Camera Main Unit	DIN Rail Mount for Modular Camera Main Unit	BRKMTD-1001	\$23.32
Replacement L Bracket for Modular Camera Microbullet Sensor Head	Replacement L Bracket for Modular Camera Microbullet Sensor Head	BRKMTD-1011	\$15.90
Replacement Flat Bracket for Modular Camera Right Angle Sensor Head	Replacement Flat Bracket for Modular Camera Right Angle Sensor Head	BRKMTD-1021	\$7.42
Replacement Trimming Bracket for Modular Camera Microbullet Sensor head	Replacement Trimming Bracket for Modular Camera Microbullet Sensor head	BRKMTD-1031	\$7.42
Replacement Dome NPT Plugs for H3 or H3A Dome Cameras; Pack of 6	Replacement H3 Dome NPT Plugs; pack of 6	CAM-ACCS-H3-D-PLUG	\$23.61
FIPS Camera license	FIPS Camera license	CAM-FIPS	\$10.91
CAM-FIPS-CRYPT-R-L3	MSI CRYPT-R SD with Camera license to enable FIPS Level 3 cryptographic mode on any H5A camera	CAM-FIPS-CRYPT-R-L3	\$149.80
2m (6 ft) HD BNC Cable for Modular Camera	2m (6 ft) HD BNC Cable for Modular Camera	CBL2M-1001	\$58.30
5m (16 ft) HD BNC Cable for Modular Camera	5m (16 ft) HD BNC Cable for Modular Camera	CBL5M-1001	\$84.80
3.5mm audio and video I/O jack with 1.8m fly wire	3.5mm audio and video I/O jack with 1.8m fly wire	CM-AC-AVIO1	\$18.51
Ferrite Clamp for H4 Multisensor (Pack of 5)	Ferrite clamp; for use with H4 Multisensor aux power cable to meet EN-50121-4 compliance. Pack of 5.	CM-AC-FERR1	\$28.32
3/4" Cable Sealing Grommet (Pack of 10)	Cable sealing grommet for use with 3/4" conduit entry; pack of 10	CM-AC-GROM1	\$11.80
Pendant Wall Arm	Pendant wVideo arm for H4 Fisheye (needs H4F-MT-NPTA1); H4SL (needs H4SL-MT-NPTA1); H4 PT2 or H3-xMH-DP-B cameras.	CM-MT-WALL1	\$82.61
Conduit entry gang box vandal resistant white for corner camera	Conduit entry gang box vandal resistant white for corner camera accepts 1/2 and 3/4 inch conduit	CMBX-1001	\$134.97
Replacement Clear Dome for JPEG2000 Dome or Panoramic Domes; No Trim Ring	Replacement dome bubble for JPEG2000 Dome and JPEG2000 Panoramic cameras.	DOME-CLEAR	\$20.07
Replacement Clear Dome for JPEG2000 Dome or Panoramic Domes; With Trim Ring	Replacement clear dome bubble and trim for JPEG2000 Panoramic and JPEG2000 dome cameras.	DOME-CVR-CLEAR	\$99.12
In-Ceiling Mounting Adapter for JPEG2000 Dome or Panoramic Domes	Indoor in-ceiling mount add-on adapter Videocws the camera to be ceiling mounted with only the external clear bubble showing.	DOME-IND-CEL	\$112.11
Electrical Box Mounting Plate for JPEG2000 Dome or Panoramic Dome	Indoor electrical box mounting plate add-on; Videocws mounting with side cable access and mounting to a 4S electrical box.	DOME-INDE-PLT	\$23.61
Outdoor Mounting Base for JPEG2000 Dome or JPEG2000 Panoramic Dome	Outdoor mounting base add-on; creates an IP66 seal and Videocws conduit connection and pipe mounting.	DOME-OD-BASE	\$27.15
Pendant Mount for JPEG2000 Dome or Panoramic Dome	Indoor/Outdoor pendant mount; creates an IP66 sealed enclosure for connection to industry standard pendant wVideo brackets.	DOME-OD-PEND	\$27.15
Replacement Smoke Dome for JPEG2000 Dome or Panoramic Domes; No Trim Ring	Replacement smoked transparent dome and trim for JPEG2000 Panoramic and JPEG2000 dome cameras. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications.	DOME-SMOKE	\$11.80
Medium Camera Enclosure for Box Style Cameras with Cooler	Standard Format Enclosure for cameras with 12VDC/24VDC Vented Cooler; Wall Bracket and Sunshield. Maximum combined camera and lens length is 9.8" (25 cm).	ES-HD-CWS	\$381.77
Large Camera Enclosure for Box Style Cameras with Cooler	Large Format Enclosure for Avigilon HD IP Professional Cameras with 12VDC/24VDC Vented Cooler; Wall Bracket and Sunshield. Maximum combined camera and lens length is 12.8" (32.5 cm).	ES-HD-CWS-LG	\$578.44
Extra Large Camer Enclosure for Pro Cameras	Extra Large Format Enclosure for Avigilon HD IP Professional Cameras with 24 VAC Triple fan assisted heater. Maximum combined camera and lens length is 20" (51.9 cm).	ES-HD-HS-XL	\$1,973.51
Medium Camera Enclosure for Box Style Cameras with Heater	Standard Format Enclosure for cameras with 12VDC/24VAC Heater; Wall Bracket and Sunshield. Maximum combined camera and lens length is 9.8" (25 cm).	ES-HD-HWS	\$260.30
Large Camera Enclosure for Box Style Cameras with Heater	Large Format Enclosure for Avigilon HD IP Professional Cameras with 12VDC/24VAC Heater; Wall Bracket and Sunshield. Maximum combined camera and lens length is 12.8" (32.5 cm).	ES-HD-HWS-LG	\$480.11
SmVideo Camera Enclosure for Box Style Cameras with Heater	Standard Format Enclosure for Avigilon HD H.264 IP Cameras with 12VDC/24VAC Heater; Wall Bracket and Sunshield. Maximum combined camera and lens length is 9.8" (25 cm).	ES-HD-HWS-SM	\$173.53
PoE+ Module for Camera Enclosures	Optional PoE+ power module. Powers full camera enclosure features and supplies PoE power to camera with a single Ethernet connection. Compatible with ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG & ES-HD-CWS-LG. Not compatible with H5 Pro cameras.	ES-HD-IPM	\$271.87
Ceiling Arm for Camera Enclosures	Ceiling arm mount for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG & ES-HD-CWS-LG.	ES-HD-MNT-ARM	\$133.04
Corner Mount Adapter for Camera Enclosures	Corner mount adapter. Compatible with wVideo arm included with for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosures.	ES-HD-MNT-CORNER	\$75.20
Pedestal Mount Adapter for Camera Enclosures	Pedestal and ceiling mount for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosure.	ES-HD-MNT-PAR	\$127.25
Wall Reinforcing Plate for Camera Enclosures	Wall reinforcing wVideo plate; compatible with wVideo arm included with for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosures.	ES-HD-MNT-PLATE	\$46.28
Large Pole Mount Adapter for Camera Enclosures	Large pole mount for pole diameter 210mm (8.2 in) to 225mm (8.85 in). Compatible with wVideo arm included with for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosures when used in conjunction with ES-HD-MNT-PLATE.	ES-HD-MNT-POLE-LG	\$185.10
Medium Pole Mount Adapter for Camera Enclosure	Medium pole mount for pole diameter 80mm (3 in) to 150mm (5.9 in). Compatible with wVideo arm included with for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosures when used in conjunction with ES-HD-MNT-PLATE. Up to two mounting positions.	ES-HD-MNT-POLE-MD	\$219.81
SmVideo Pole Mount Adapter for Camera Enclosure	SmVideo pole mount for pole diameter 60mm (2.5 in) to 110mm (4.3 in). Compatible with wVideo arm included with for ES-HD-HWS-SM; ES-HD-HWS; ES-HD-CWS; ES-HD-HWS-LG; ES-HD-CWS-LG or ES-HD-LP-HS enclosures Up to two mounting positions.	ES-HD-MNT-POLE-SM	\$86.77
Ball Joint Wall Arm for ES-HD-HS-XL	Ball Joint Wall Arm for ES-HD-HS-XL	ES-HD-MNT-WBLA	\$937.07
H.264 Encoder 1 Year Extended Warranty	Extended Warranty for Analog Video Encoder; 1 year extension	H264ENC-WARR-EXTEND-1YR	\$40.49
H.264 Encoder 2 Years Extended Warranty	Extended Warranty for Analog Video Encoder; 2 years extension	H264ENC-WARR-EXTEND-2YR	\$79.83
Bullet Junction Box for H3 or H3A Bullet Cameras	Junction box for the H3-BO-IR HD Bullet Cameras	H3-BO-JB	\$112.11
Replacement Sunshield for H3 or H3A Bullet Cameras	Replacement sun shield for H3 bullet cameras	H3-BO-SHLD1	\$17.70
Replacement Clear Dome Cover for Indoor H3 or H3A Dome Cameras	Replacement clear transparent cover; includes dome bubble and camera cover for indoor domes.	H3-D-CLEAR	\$47.20

Replacement Smoke Dome Cover for Indoor H3 or H3A Dome Cameras	Replacement smoked transparent cover; includes dome bubble and camera cover for indoor domes. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications or with the integrated IR illuminator.	H3-D-SMOKE	\$47.20
Replacement Clear Dome Cover for In-Ceiling H3 or H3A Dome Cameras	Replacement clear transparent cover; includes dome bubble and camera cover for in-ceiling domes.	H3-DC-CLEAR	\$47.20
Metal In-Ceiling Metal Panel for H3 or H3A In-Ceiling Dome Cameras	Metal ceiling panel for use with H3-DC in-ceiling dome cameras to replace or reinforce the existing ceiling tile in suspended ceiling installations.	H3-DC-PNL	\$112.11
Replacement Smoke Dome Cover for In-Ceiling H3 or H3A Dome Cameras	Replacement smoked transparent cover; includes dome bubble and camera cover for in-ceiling applications. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications.	H3-DC-SMOKE	\$47.20
Replacement Clear Dome Cover for Outdoor or Pendant H3 or H3A Dome Cameras	Replacement clear transparent cover; includes dome bubble and camera cover for outdoor and pendant domes.	H3-DOP-CLEAR	\$70.80
Replacement Smoke Dome Cover for Outdoor or Pendant H3 or H3A Dome Cameras	Replacement smoked transparent cover; includes dome bubble and camera cover for outdoor and pendant domes. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications or with the integrated IR illuminator.	H3-DOP-SMOKE	\$70.80
Replacement Clear Dome Cover for H3 In-Ceiling Microdome; Grey Trim	Replacement clear transparent cover; includes dome bubble and grey trim for in-ceiling microdomes.	H3-MC-CLER1	\$14.15
Replacement Clear Dome Cover for H3 In-Ceiling Microdome; Black Trim	Replacement clear transparent cover; includes dome bubble and black trim for in-ceiling microdomes.	H3-MC-CLER1-BL	\$14.15
Replacement NPT Adapter	Replacement female NPT adapter for use with H3 PTZ H4 PTZ and H3 Multisensor cameras.	H3-MH-NPTA1	\$29.50
WiFi Installation Kit with WiFi USB adapte (NA)	WiFi Installation Kit with WiFi USB adapter; micro-USB to USB adapter and TT20 torx driver bit. For use in the following countries: Argentina; Bolivia; Canada; Chile; Colombia; Costa Rica; Cuba; Dominican Republic; Ecuador; El Salvador; Guatemala; Haiti; Honduras; Mexico; Nicaragua; Panama; Paraguay; Peru; Puerto Rico; Taiwan; United States; Uruguay; Venezuela	H4-AC-WIFI2-NA	\$153.40
Demo Port Cover for H5A / H4A Bullet Cameras	Replacement H5A; H4 HD Bullet or H4 Thermal configuration port cover with a female 1/4-20 screw mount for use with tripod head for demo purposes only. Do not use for actual installation.	H4-BO-DEMO1	\$5.89
Bullet Junction Box for H5A / H4A Bullet Cameras	Junction box for the H5A Bullet; H4A HD Bullet; H4SL HD Bullet; or H4 Thermal cameras.	H4-BO-JBOX1	\$106.20
Metal Ceiling Panel for H5A; H4A; H4SL Dome	Metal ceiling panel for use with H5A; H4A or H4SL-MT-DCL1 in-ceiling dome cameras to replace or reinforce the existing ceiling tile in suspended ceiling installations.	H4-DC-CPNL1	\$112.11
Avigilon Corner Mount Adapter	Corner mount adapter for use with H4A-MT-Wall1; H4-BO-JBOX1; H4SL; H4F; H4 PTZ; H4 IR PTZ and H4 Multisensor cameras.	H4-MT-CRNR1	\$106.20
Avigilon Pole Mount Adapter	Pole mount adapter for use with H4A-MT-Wall1; H4-BO-JBOX1; H4SL; H4F; H4 PTZ; H4 IR PTZ and H4 Multisensor cameras.	H4-MT-POLE1	\$106.20
Cable Sealing Grommet (pack of 10)	Cable sealing grommet for use with H5A/H4A dome cameras; pack of 10	H4A-AC-GROM1	\$11.80
Replacement Sunshield for H5A/H4A Bullet Cameras	Replacement sun shield for H5A bullet cameras; H4A bullet cameras and H4 Thermal Cameras.	H4A-BO-SHLD1	\$17.70
Replacement H5A/H4A Clear In-Ceiling Dome Cover	Replacement clear transparent cover for H5A/H4A in-ceiling dome camera. Includes dome bubble and grey camera cover.	H4A-DC-CLER1	\$47.20
Replacement H5A/H4A Clear In-Ceiling Dome Cover (Black)	Replacement clear transparent cover for H5A/H4A in-ceiling dome camera. Includes dome bubble and black camera cover.	H4A-DC-CLER1-BL	\$47.20
Replacement H5A/H4A Smoke In-Ceiling Dome Cover	Replacement smoked transparent cover for H5A/H4A in-ceiling dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and grey camera cover.	H4A-DC-SMOK1	\$47.20
Replacement H5A/H4A Smoke In-Ceiling Dome Cover (Black)	Replacement smoked transparent cover for H5A/H4A in-ceiling dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and black camera cover.	H4A-DC-SMOK1-BL	\$47.20
Replacement H5A/H4A Clear Indoor Dome Cover	Replacement clear transparent cover for H5A/H4A indoor dome camera. Includes dome bubble and grey camera cover.	H4A-DD-CLER1	\$47.20
Replacement H5A/H4A Clear Indoor Dome Cover (Black)	Replacement clear transparent cover for H5A/H4A indoor dome camera. Includes dome bubble and black camera cover.	H4A-DD-CLER1-BL	\$47.20
Sidewideo Knockout Plug H5A/H4A Indoor Dome (pack of 5)	Replacement sidewideo knockout plug for H5A/H4A indoor dome cameras; pack of 5	H4A-DD-SDWL1	\$5.89
Black Sidewideo Knockout Plug H5A/H4A Indoor Dome (pack of 5)	Replacement sidewideo knockout plug for H5A/H4A indoor dome cameras; black; pack of 5	H4A-DD-SDWL1-BL	\$5.89
Replacement H5A/H4A Smoke Indoor Dome Cover	Replacement smoked transparent cover for H5A/H4A indoor dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and grey camera cover.	H4A-DD-SMOK1	\$47.20
Replacement H5A/H4A Smoke Indoor Dome Cover (Black)	Replacement smoked transparent cover for H5A/H4A indoor dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and black camera cover.	H4A-DD-SMOK1-BL	\$47.20
Replacement H5A/H4A Clear Outdoor Dome Cover	Replacement clear transparent cover for H5A/H4A outdoor dome camera. Includes dome bubble and grey camera cover.	H4A-DO-CLER1	\$70.80
Replacement H5A/H4A Smoke Outdoor Dome Cover	Replacement smoked transparent cover for H5A/H4A outdoor dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and grey camera cover.	H4A-DO-SMOK1	\$70.80
Replacement H5A/H4A Clear Pendant Dome Cover	Replacement clear transparent cover for H5A/H4A pendant dome camera. Includes dome bubble and grey camera cover.	H4A-DP-CLER1	\$70.80
Replacement H5A/H4A Smoke Pendant Dome Cover	Replacement smoked transparent cover for H5A/H4A pendant dome camera. Reduces light transmission by 50%. Not recommended for low light applications or with the integrated IR illuminator. Includes dome bubble and grey camera cover.	H4A-DP-SMOK1	\$70.80
NPT Adapter H5A/H4A Pendant Dome Cameras	NPT adapter for use with H5A/H4A pendant dome cameras	H4A-MT-NPTA1	\$70.80
Wall Mount for H5A/H4A Pendant Dome Cameras	Wall mount bracket for use with H5A/H4A pendant dome cameras	H4A-MT-WALL1	\$70.80
H4A Camera 1 Year Extended Warranty	Extended Warranty for H4A box; dome and bullet cameras; 1 year extension	H4A-WARR-EXTEND-1YR	\$119.15
H4A Camera 2 Years Extended Warranty	Extended Warranty for H4A box; dome and bullet cameras; 2 years extension	H4A-WARR-EXTEND-2YR	\$237.16
H4A ES Camera 1 Year Extended Warranty	Extended Warranty for H4A ES box; dome and bullet cameras; 1 year extension	H4AES-WARR-EXTEND-1YR	\$159.65
H4A ES Camera 2 Years Extended Warranty	Extended Warranty for H4A ES box; dome and bullet cameras; 2 years extension	H4AES-WARR-EXTEND-2YR	\$319.30
Replacement Cabling Accessories for H4 Multisensor	Replacement cabling accessory kit for H4 Multisensor with audio; external power and I/O pigtail cable connector. RJ45 CAT5E plugs and RJ45 connector water proof gland.	H4AMH-ACCS-CABL1	\$76.70
In-Ceiling Adapter for H4 Multisensor	In-ceiling adapter; must order either a H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE.	H4AMH-AD-CEIL1	\$177.00
Outdoor Surface Mount Adapter for H4 Multisensor	Outdoor surface mount adapter; must order either a H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE.	H4AMH-AD-DOME1	\$188.80
IR Illuminator Ring for H4 Multisensor	Optional IR illuminator ring; up to 30m (100ft); for use with H4AMH-DO-COVR1.	H4AMH-AD-IRL1	\$389.40
Pendant Mount Adapter for H4 Multisensor	Outdoor pendant mount adapter; must order one of IRPTZ-MNT-Wall1 or IRPTZ-MNT-NPTA1 and one of H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE.	H4AMH-AD-PEND1	\$188.80
In-Ceiling Dome Cover for H4 Multisensor	In-Ceiling Dome Cover for H4 Multisensor	H4AMH-DC-COVR1	\$82.61
In-Ceiling Smoke Dome Cover for H4 Multisensor	In-Ceiling Smoke Dome Cover for H4 Multisensor	H4AMH-DC-COVR1-SMOKE	\$82.61
Drop Ceiling Metal Panel for H4 Multisensor	Drop Ceiling Metal Panel for H4 Multisensor	H4AMH-DC-CPNL1	\$129.80
Outdoor Dome Cover for H4 Multisensor	Outdoor Dome Cover for H4 Multisensor	H4AMH-DO-COVR1	\$188.80
Outdoor Smoke Dome Cover for H4 Multisensor	Outdoor Smoke Dome Cover for H4 Multisensor	H4AMH-DO-COVR1-SMOKE	\$188.80
H4 Multisensor 1 Year Extended Warranty	Extended Warranty for H4 Multisensor camera; 1 year extension	H4AMH-WARR-EXTEND-1YR	\$219.81
H4 Multisensor 2 Years Extended Warranty	Extended Warranty for H4 Multisensor camera; 2 years extensions	H4AMH-WARR-EXTEND-2YR	\$439.61
Replacement Dessiccant Packs for H4 Fisheye (Pack of 5)	Replacement Dessiccant Packs for H4 Fisheye (Pack of 5)	H4F-AC-DES11	\$11.80
Replacement Installation Accessories for H4 Fisheye Cameras	Replacement Installation Accessories for H4 Fisheye Cameras	H4F-ACCS-KIT1	\$35.39
Replacement Top Cover for H4 Fisheye Cameras	Replacement Top Cover for H4 Fisheye Cameras	H4F-DO-CVER1	\$188.80
NPT Adapter for H4 Fisheye Cameras	NPT Adapter for H4 Fisheye Cameras	H4F-MT-NPTA1	\$70.80
H4 Fisheye Camera 1 Year Extended Warranty	Extended Warranty for H4 Fisheye cameras; 1 year extension	H4F-WARR-EXTEND-1YR	\$101.80
H4 Fisheye Camera 2 Years Extended Warranty	Extended Warranty for H4 Fisheye cameras; 2 years extension	H4F-WARR-EXTEND-2YR	\$203.62
H4 IR PTZ 1 Year Extended Warranty	Extended Warranty for H4 IR PTZ cameras; non-moving parts only; 1 year extension	H4IRPTZ-WARR-EXTEND-1YR	\$421.11
H4 IR PTZ 2 Years Extended Warranty	Extended Warranty for H4 IR PTZ cameras; non-moving parts only; 2 years extension	H4IRPTZ-WARR-EXTEND-2YR	\$841.06
H4 LPC 1 Year Extended Warranty	Extended Warranty for H4 LPC camera only; 1 year extension	H4LPC-WARR-EXTEND-1YR	\$101.80
H4 LPC 2 Year Extended Warranty	Extended Warranty for H4 LPC camera only; 2 years extension	H4LPC-WARR-EXTEND-2YR	\$203.62
H4M Black Replacement Bezel; pack of 5	Black surface mount bezel for H4M dome cameras; package of 5	H4M-BZL1-BL	\$33.08
H4M Grey Replacement Bezel; pack of 5	Grey surface mount bezel for H4M dome cameras; package of 5.	H4M-BZL1-GRY	\$33.08
H4M Grey In-Ceiling Adapter	In-Ceiling mount for H4M dome cameras	H4M-MT-DCL1	\$33.08
H4M Black In-Ceiling Adapter	In-Ceiling mount for H4M dome cameras; Black	H4M-MT-DCL1-BL	\$33.08
H4M Replacement Wall Plate; pack of 5	Package of 5 Video plates for H4M dome cameras	H4M-MT-DSPL	\$33.08
H4M Grey Pendant Adapter	Pendant mount for H4M dome cameras	H4M-MT-NPTA1	\$33.08
H4M Black Pendant Adapter	Pendant mount for H4M dome cameras; Black	H4M-MT-NPTA1-BL	\$33.08

H4 Mini Dome 1 Year Extended Warranty	Extended Warranty for H4 Mini Dome cameras; 1 year extension	H4M-WARR-EXTEND-1YR	\$41.65
H4 Mini Dome PTZ 2 Years Extended Warranty	Extended Warranty for H4 Mini Dome cameras; 2 years extension	H4M-WARR-EXTEND-2YR	\$82.14
H4 Pro 1 Years Extended Warranty	Extended Warranty for H4 Pro camera; 1 year extension	H4PRO-WARR-EXTEND-1YR	\$629.34
H4 Pro 2 Year Extended Warranty	Extended Warranty for H4 Pro camera; 2 years extension	H4PRO-WARR-EXTEND-2YR	\$1,258.96
H4 PTZ 1 Year Extended Warranty	Extended Warranty for H4 PTZ cameras; non-moving parts only; 1 year extension	H4PTZ-WARR-EXTEND-1YR	\$297.32
H4 PTZ 2 Years Extended Warranty	Extended Warranty for H4 PTZ cameras; non-moving parts only; 2 years extension	H4PTZ-WARR-EXTEND-2YR	\$594.64
Side Conduit Cover; H5SL/H4SL Dome Camera (pack of 5)	Conduit Opening Cover; Grey; 5 pack. For H5SL or H4SL dome cameras.	H4SL-AC-CNID1	\$11.80
1/2" Conduit Plate; H5SL/H4SL Dome Camera (pack of 5)	Conduit Plate; Grey for 1/2" 5 pack. For H5SL or H4SL dome cameras.	H4SL-AC-CNPL1	\$17.70
3/4" Conduit Plate; H5SL/H4SL Dome Cameras (pack of 5)	Conduit Plate; Grey for 3/4" 5 pack. For H5SL or H4SL dome cameras.	H4SL-AC-CNPL2	\$17.70
Conduit Cover Grey; H5SL/H4SL Dome Camera (Pack of 5)	Conduit Cover; Grey; 5 pack. For H5SL or H4SL dome cameras.	H4SL-AC-COND1	\$11.80
Grommet Cable Seal; H5SL/H4SL Dome Camera (pack of 10)	Rubber grommet cable seal; 10 pack. For H5SL or H4SL dome cameras.	H4SL-AC-GROM1	\$17.70
Replacement Sunshield of H5SL/H4SL Bullet Cameras	Replacement Sunshield of H5SL/H4SL Bullet Cameras	H4SL-BO-SHLD1	\$11.80
Replacement H5SL/H4SL Indoor Mount Adapter	Replacement H5SL or H4SL indoor dome surface mount adapter	H4SL-D1-BASE	\$47.20
Replacement Clear Dome Cover for H5SL/H4SL Outdoor Dome Camera	Replacement clear transparent cover for H5SL or H4SL outdoor dome camera. Includes dome bubble and grey camera cover.	H4SL-DD-CLER1	\$35.39
Replacement Clear Smoke Cover for H5SL/H4SL Outdoor Dome Camera	Replacement smoked transparent cover for H5SL or H4SL outdoor dome camera. Reduces light transmission by 50%. Not recommended for low light applications where the integrated IR illuminator is used. Includes dome bubble and grey camera cover.	H4SL-DD-SMOK1	\$41.30
Replacement Clear Dome Cover for H5SL/H4SL Indoor Dome Camera	Replacement clear transparent cover for H5SL or H4SL indoor dome camera. Includes dome bubble and grey camera cover.	H4SL-DI-CLER1	\$29.50
Replacement Clear Smoke Cover for H5SL/H4SL Indoor Dome Camera	Replacement smoked transparent cover for H5SL or H4SL indoor dome camera. Reduces light transmission by 50%. Not recommended for low light applications where the integrated IR illuminator is used. Includes dome bubble and grey camera cover.	H4SL-DI-SMOK1	\$35.39
Replacement H5SL/H4SL Dome Mounting Plate	Replacement mounting plate for H5SL or H4SL surface mount dome cameras.	H4SL-DO1-BASE	\$53.11
In-Ceiling Adapter for H5SL/H4SL Dome Cameras	In-Ceiling Adapter for H5SL/H4SL Dome Cameras	H4SL-MT-DCL1	\$35.39
NPT Adapter for H5SL/H4SL Dome Cameras	NPT Adapter for H5SL/H4SL Dome Cameras	H4SL-MT-NPTA1	\$35.39
H4SL Camera 1 Year Extended Warranty	Extended Warranty for H4SL dome and bullet cameras; 1 year extension	H4SL-WARR-EXTEND-1YR	\$56.69
H4SL Camera 2 Years Extended Warranty	Extended Warranty for H4SL dome and bullet cameras; 2 years extension	H4SL-WARR-EXTEND-2YR	\$113.38
Safety Relay for H4 Video Intercom	Safety Relay for H4 Video Intercom	H4VI-AC-RELY1	\$141.61
Replacement installation accessories for H4 Video Intercom	Replacement installation accessories for H4VI. Includes terminal block plugs and screws.	H4VI-ACC-KIT1	\$23.61
Surface mount adapter for H4 Video Intercom	Surface mount adapter for H4 Video Intercom	H4VI-MT-SURF1	\$265.51
Replacement dome cover for H4VI camera; package of 5	Replacement dome cover for H4VI camera; package of 5	H4VI-RO-CVER1	\$47.20
H4 Video Intercom 1 Year Extended Warranty	Extended Warranty for H4 Video Intercom; 1 year extension	H4VI-WARR-EXTEND-1YR	\$133.04
H4 Video Intercom 2 Years Extended Warranty	Extended Warranty for H4 Video Intercom; 2 years extension	H4VI-WARR-EXTEND-2YR	\$266.08
Replacement Accessory Kit for H5A Fisheye In-ceiling Camera	Replacement installation accessories for H5A Fisheye In-ceiling Camera. Includes star-shaped screwdriver; power terminal block; rubber grommets and RJ45 grommet piercing cap.	H5A-FE-ACC-DC-KIT1	\$11.34
Replacement Accessory Kit for H5A Fisheye Dome Camera	Replacement installation accessories for H5A Fisheye Dome Camera. Includes star-shaped screwdriver; power terminal block; rubber grommets; RJ45 grommet piercing cap; conduit shroud and screws	H5A-FE-ACC-KIT1	\$11.34
Metal Ceiling Panel for H5A Fisheye In-Ceiling Camera	Metal ceiling panel for use with H5A Fisheye in-ceiling cameras to replace or reinforce the existing ceiling tile in suspended ceiling installations.	H5A-FE-DC-CPNL1	\$112.22
Replacement Dome Bubble for H5A Fisheye Dome Camera	Package of 3 replacement dome bubble for H5A Fisheye Dome Camera.	H5A-FE-DD-CLER1	\$44.23
NPT Adapter For H5A Fisheye Dome Camera	NPT Adapter For H5A Fisheye Dome Camera (H5A-FE-DO)	H5A-FE-MT-NPTA1	\$70.80
2 year extended warranty for H5 Explosion Protected Bullet Camera	2 year extended warranty for H5 Explosion Protected Bullet camera. Must be purchased at the same time as the camera.	H5AEX-BO-WARR-EXTEND-2YR	\$1,180.70
2 year extended warranty for H5 Explosion Protected Compact Bullet Camera	2 year extended warranty for H5 Explosion Protected Compact Bullet camera. Must be purchased at the same time as the camera.	H5AEX-CO-WARR-EXTEND-2YR	\$711.48
2 year extended warranty for H5 Explosion Protected PTZ Camera	2 year extended warranty for H5 Explosion Protected PTZ camera. Must be purchased at the same time as the camera.	H5AEX-PTZ-WARR-EXTEND-2YR	\$3,239.28
Replacement Indoor/Outdoor Dome Cover for H5A Dual Head Camera	Replacement Indoor/Outdoor Dome Cover for H5A Dual Head Camera	H5DH-DO-CLER1	\$93.80
Junction Box for H5A Dual Head Camera	Junction Box for H5A Dual Head Camera	H5DH-DO-JBOX1	\$106.20
Pendant Adapter for H5A Dual Head Camera	Pendant adapter for the H5A Dual Head camera. Also compatible with an optional wall arm; CM-MT-WALL1.	H5DH-MT-NPTA1	\$70.80
Package of 4 shroud replacement parts for H5M dome cameras	Package of 4 shroud replacement parts for H5M dome cameras	H5M-DO-BZL1	\$35.39
In-ceiling mount adapter for H5M dome cameras	In-ceiling mount adapter for H5M dome cameras	H5M-MT-DCL1	\$35.39
H5A PTZ Cable Gland Nut Kit; Pack of 10	H5A PTZ cable gland nut kit. Pack of 10.	H5PTZ-ACCS-CABL1	\$109.90
H6M Black Replacement Bezel; pack of 5	Black surface mount bezel for H6M dome cameras; package of 5	H6M-BZL1-BL	\$35.54
H6M Grey Replacement Bezel; pack of 5	Grey surface mount bezel for H6M dome cameras; package of 5	H6M-BZL1-GRY	\$35.54
H6M Grey In-Ceiling Adapter	In-Ceiling mount for H6M dome cameras	H6M-MT-DCL1	\$35.54
H6M Black In-Ceiling Adapter	In-Ceiling mount for H6M dome cameras; Black	H6M-MT-DCL1-BL	\$35.54
H6M Grey Pendant Adapter	Pendant mount for H6M dome camera	H6M-MT-NPTA1	\$35.54
H6M Black Pendant Adapter	Pendant mount for H6M dome cameras; Black	H6M-MT-NPTA1-BL	\$35.54
HALO-SMADAPT	Surface Mount Adapter for HALO IoT Smart Sensor	HALO-SMADAPT	\$124.76
HALO-V2.00	HALO IoT Smart Sensor 2C	HALO-V2.00	\$1,695.63
HALO IoT Smart Sensor 2C	HALO IoT Smart Sensor 2C	HALO-V2.00C	\$1,780.80
Replacement Power Supply for JPEG2000 LPR Kits	Replacement Power Supply for JPEG2000 LPR Kits	HD-LP-PS-A	\$955.81
Metal In-Ceiling Metal Panel for Use With DOME-IND-CEL	Metal ceiling panel for use with the DOME-IND-CEL to replace or reinforce the existing ceiling tile in suspended ceiling installations.	IND-CEL-PNL	\$102.66
H4 IRPTZ Replacement Power and I/O Cables	H4 IRPTZ Replacement Power and I/O Cables	IRPTZ-ACCS-CABL1	\$33.04
Replacement NPT Pendant Cap for H4 IRPTZ or H4 Multisensor	Pendant NPT adapter. For use with H4 IR PTZ or H4A-MH-AD-PEND1 on H4 Multisensor.	IRPTZ-MT-NPTA1	\$64.90
Wall Arm for H4 IRPTZ or H4 Multisensor	Pendant w/video mount adapter. For use with H4 IR PTZ or H4A-MH-AD-PEND1 on H4 Multisensor.	IRPTZ-MNT-WALL1	\$112.11
Canon 100-400mm f/4.5-5.6 for Video H4 Pro Cameras	Canon 100-400mm f/4.5-5.6 Lens. Compatible with Video H4 Pro Cameras.	LEF10040045CA2	\$5,061.93
Tamron 150-600mm f/5-6.3 VC G2 Lens for Pro Cameras	Tamron 150-600mm f/5-6.3 VC G2 Lens for Pro Camera	LEF1506005TA	\$3,037.39
Canon 16-35mm f/2.8 Lens for Pro Cameras	Canon 16-35mm f/2.8 Lens for Pro Cameras	LEF163528CA2	\$4,627.54
Canon 200mm f/2.8 Lens for H4 Pro Cameras	Canon 200mm f/2.8 lens. Compatible with Video H4 Pro cameras.	LEF20028CA	\$2,221.90
Canon 24mm f/1.4 Lens for H4 Pro Cameras	Canon 24mm f/1.4 lens. Compatible with Video H4 Pro cameras.	LEF2414CA	\$4,095.60
Tamron 24-70mm f/2.8 VC Lens for Pro Cameras	Tamron 24-70mm f/2.8 VC Lens for Pro Cameras	LEF247028TA2	\$2,601.85
Sigma 28mm f/1.4 Lens for Pro Cameras	Sigma 28mm f/1.4 Lens for Pro Cameras	LEF2814SI	\$3,037.39
Tamron 35mm f/1.4 Lens for Pro Cameras	Tamron 35mm f/1.4 Lens for Pro Cameras	LEF3514TA	\$1,949.69
Canon 50mm f/1.2 Lens for H4 Pro Cameras	Canon 50mm f/1.2 lens. Compatible with Video H4 Pro cameras.	LEF5012CA	\$3,855.15
Canon 50mm f/1.4 Lens for H4 Pro Cameras	Canon 50mm f/1.4 lens. Compatible with Video H4 Pro cameras.	LEF5014CA	\$964.84
Sigma 50mm f/1.4 Lens for Pro Cameras	Sigma 50mm f/1.4 Lens for Pro Cameras	LEF5014SI	\$2,054.04
Canon 50mm f/1.8 Lens for H4 Pro Cameras	Canon 50mm f/1.8 lens. Compatible with Video H4 Pro cameras.	LEF5018CA2	\$370.21
Tamron 70-200mm f/2.8 VC G2 Lens for Pro Cameras	Tamron 70-200mm f/2.8 VC G2 Lens for Pro Cameras	LEF7020028TA	\$2,806.01
Canon 70-300mm f/4-5.6 Lens for Video H4 Pro Cameras	Canon 70-300mm f/4-5.6 Lens. Compatible with Video H4 Pro Cameras.	LEF7030040CA	\$1,307.73
Canon 85mm f/1.8 Lens for H4 Pro Cameras	Canon 85mm f/1.8 lens. Compatible with Video H4 Pro cameras.	LEF8518CA	\$1,110.60
Tamron 90mm f/2.8 VC Lens for Pro Cameras	Tamron 90mm f/2.8 VC Lens for Pro Cameras	LEF9028TA	\$1,503.95
Sigma 18-35mm f/1.8 Lens for Pro Cameras	Sigma 18-35mm f/1.8 Lens for Pro Cameras. The lens is only compatible with 8-16MP H4 Pro cameras or 8-26MP H5 Pro cameras.	LEFS183518SI	\$1,735.33
Sigma 30mm f/1.4 Lens for Pro Cameras	Sigma 30mm f/1.4 Lens for Pro Cameras. The lens is only compatible with 8-16MP H4 Pro cameras or 8-26MP H5 Pro cameras.	LEFS3014SI	\$1,156.88
Corner Mount Adapter for MNT-PEND-Wall or H3 Bullet Cameras	Corner mount adapter for use with MNT-PEND-Wall; H3-BO-JB or HD Bullet Camera	MNT-AD-CORNER	\$106.20
Pole Mount Adapter for MNT-PEND-Wall or H3 Bullet Cameras	Pole mount adapter for use with MNT-PEND-Wall; H3-BO-JB or HD Bullet Camera	MNT-AD-POLE-B	\$106.20
Wall Bracket for H3 PTZ or H3 Pendant Dome Cameras	Compact w/video bracket for use with H3PTZ-DP and H3-DP Pendant Dome Cameras	MNT-PEND-WALL	\$106.20
Professional Services; 8 hours on-site consulting	Professional Services; 8 hours on-site consulting	PRO-ACC-ONSITE-8H	\$3,710.00
ACC Professional Services; 4 hours remote consulting	ACC Professional Services; 4 hours remote consulting	PRO-ACC-REMOTE-4H	\$1,855.00
ACC Professional Services; 8 hours remote consulting	ACC Professional Services; 8 hours remote consulting	PRO-ACC-REMOTE-8H	\$3,710.00
H5A PTZ Replacement Clear Bubble Assembly	H5A PTZ Replacement Clear Bubble Assembly	PTZH5A-CLER1	\$138.83
H5A PTZ Replacement Smoked Bubble Assembly	H5A PTZ Replacement Smoked Bubble Assembly	PTZH5A-SMOK1	\$138.83

Replacement Cable Accessories and Adapter for H4 PTZ	Replacement cable accessory and adapter kit for H4 PTZ and HD Multisensor (H3-xMH) pendant mount cameras. Includes waterproof RJ45 connector; M8 2-pin male cable and M12 12-pin female cable.	PTZMH-ACCS-CABL1	\$59.00
Clear In-Ceiling Dome Cover for H4 PTZ	In-ceiling replacement clear transparent cover; includes dome bubble and camera cover for H4 PTZ and HD Multisensor (H3-xMH) pendant cameras.	PTZMH-DC-CLER1	\$141.61
Metal Ceiling Panel for H4 PTZ	Metal Ceiling panel for H4 PTZ and HD Multisensor cameras.	PTZMH-DC-CPNL1	\$106.20
Dome In-Ceiling Dome Cover for H4 PTZ	Replacement smoked transparent cover; includes dome bubble and camera cover H4 PTZ and HD Multisensor (H3-xMH) In-Ceiling cameras. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications.	PTZMH-DC-SMOK1	\$141.61
Clear Pendant Dome Cover for H4 PTZ	IK10 replacement clear transparent cover; includes dome bubble and camera cover for H4 PTZ and HD Multisensor (H3-xMH) pendant cameras.	PTZMH-DP-CLER1	\$141.61
Smoke Pendant Dome Cover for H4 PTZ	IK10 replacement smoked transparent cover; includes dome bubble and camera cover for H4 PTZ and HD Multisensor (H3-xMH) pendant cameras. Reduces light transmission by 50% compared to the standard clear cover. Not recommended for low light applications.	PTZMH-DP-SMOK1	\$141.61
Replacement Male NPT Adapter for H4 PTZ	Replacement male NPT adapter for use with H4 PTZ or HD Multisensor (H3-xMH) cameras.	PTZMH-MT-NPTA1	\$29.50
Refurbished; Canon 200mm f/2.8 L Lens	Refurbished Canon 200mm f/2.8 L lens. Lens may be missing original packaging and documentation. Lens may also contain cosmetic scratches which will not impair its functionality. Available in limited quantities.	RLEF20028CA	\$1,084.00
Refurbished; Canon 70-200mm f/2.8 L Lens	Refurbished Canon 70-200mm f/2.8 L lens. Lens may be missing original packaging and documentation. Lens may also contain cosmetic scratches which will not impair its functionality. Available in limited quantities.	RLEF7020028CA	\$1,807.91
IP Horn Speaker	IP Horn Speaker that integrates with ACC to provide bidirectional audio.	ACC-SPEAKER	\$808.66
Pole Bands for ACC Speaker	Pair of pole bands for ACC Speaker	ACC-SPEAKER-POLE-BANDS	\$45.37
Spare Hard Drive; 12TB	Spare Hard Drive for AINVR-PRM-PLUS-96TB; AINVR-PRM-96TB	AINVR-HDDS-HOT-12TB	\$1,706.97
Spare Hard Drive; 16TB	Spare Hard Drive for AINVR-PRM-PLUS-160TB; AINVR-PRM-PLUS-128TB; AINVR-PRM-160TB; AINVR-PRM-128TB	AINVR-HDDS-HOT-16TB	\$2,423.79
Spare Hard Drive; 2TB	Spare Hard Drive for AINVR-VAL-6TB	AINVR-HDDS-HOT-2TB	\$832.96
Spare Hard Drive; 4TB	Spare Hard Drive for AINVR-VAL-12TB; AINVR-STD-24TB	AINVR-HDDS-HOT-4TB	\$1,064.34
Spare Hard Drive; 8TB	Spare Hard Drive for AINVR-STD-32TB; AINVR-STD-48TB; AINVR-PRM-64TB; AINVR-PRM-PLUS-64TB	AINVR-HDDS-HOT-8TB	\$1,764.82
Power Supply for AI NVR Premium; AU	Secondary Power Supply for AI NVR Premium or AI NVR Premium+; AU	AINVR-PRM-2NDPS-AU	\$793.94
Power Supply for AI NVR Premium; EU	Secondary Power Supply for AI NVR Premium or AI NVR Premium+; EU	AINVR-PRM-2NDPS-EU	\$793.94
Power Supply for AI NVR Premium; NA	Secondary Power Supply for AI NVR Premium or AI NVR Premium+; NA	AINVR-PRM-2NDPS-NA	\$793.94
Power Supply for AI NVR Premium; UK	Secondary Power Supply for AI NVR Premium or AI NVR Premium+; UK	AINVR-PRM-2NDPS-UK	\$793.94
SFP+ 10GBASE-SR Optical Transceiver (single) for AI NVR	SFP+ 10GBASE-SR Optical Transceiver (single) for AI NVR	AINVR-SFPPLUS-SR	\$340.26
Network Card; QP 10G-SFP+ for AI NVR Standard	Network Card; QP 10G-SFP+ for AI NVR Standard. This network card cannot be used with AINVR-STD-PRK.	AINVR-STD-10GBE	\$1,122.86
Power Supply for AI NVR Standard; AU	Secondary Power Supply for AI NVR Standard; AU	AINVR-STD-2NDPS-AU	\$647.85
Power Supply for AI NVR Standard; EU	Secondary Power Supply for AI NVR Standard; EU	AINVR-STD-2NDPS-EU	\$647.85
Power Supply for AI NVR Standard; NA	Secondary Power Supply for AI NVR Standard; NA	AINVR-STD-2NDPS-NA	\$647.85
Power Supply for AI NVR Standard; UK	Secondary Power Supply for AI NVR Standard; UK	AINVR-STD-2NDPS-UK	\$647.85
AI NVR Standard Performance Kit	AI NVR Standard Performance Kit. With this kit installed AI NVR Standard can support up to 25 Classified Object Detection channels. AINVR-STD-PRK cannot be used with AINVR-STD-10GBE.	AINVR-STD-PRK	\$3,345.89
Power Supply for AI NVR Value; AU	Secondary Power Supply for AI NVR Value; AU	AINVR-VAL-2NDPS-AU	\$474.32
Power Supply for AI NVR Value; EU	Secondary Power Supply for AI NVR Value; EU	AINVR-VAL-2NDPS-EU	\$474.32
Power Supply for AI NVR Value; NA	Secondary Power Supply for AI NVR Value; NA	AINVR-VAL-2NDPS-NA	\$474.32
Power Supply for AI NVR Value; UK	Secondary Power Supply for AI NVR Value; UK	AINVR-VAL-2NDPS-UK	\$474.32
AVA Connectivity Kit; 64/96/128/157TB PRM Models	AVA Connectivity Kit; 64/96/128/157TB PRM Models	AVA-HED1-NVR4X-PRM1-CONNECT	\$5,530.36
AVA Connectivity Kit for STD Models	AVA Connectivity Kit for STD Models	AVA-HED1-NVR4X-STD-CONNECT	\$3,690.69
AVA-HED1-NVR5-CONNECT-A	Kit:AVA Con NVR5STD/PRM 16-224 TB ex STD 2CPU	AVA-HED1-NVR5-CONNECT-A	\$2,660.64
AVA-HED1-NVR5-CONNECT-B	Kit:AVA Connectivity; NVR5 PRM 252TB+	AVA-HED1-NVR5-CONNECT-B	\$3,005.10
AVA-SAN-CONNECT-1	Kit: AVA SAN Con 1x AVA Tsc & FC	AVA-SAN-CONNECT-1	\$425.61
AVA-SAN-CONNECT-8	Kit: AVA SAN Con 8x AVA Tsc & FC	AVA-SAN-CONNECT-8	\$3,404.89
Din Mount Power Supply for ES 8-Port Rugged Appliance	Din Mount Power Supply for ES 8-Port Rugged Appliance; 24VDC; 240W	DINPS-240W-RPA-RGD-8P	\$118.00
Analytics Kit for NVR4 Value or any NVR3 models	Analytics Kit for Appearance Search and Face Recognition; NVR4 Value or any NVR3 models	HD-NVR-ANK2-1	\$1,156.42
Windows 10 Upgrade for NVR2	Windows 7 to Windows 10 Upgrade for NVR2	HD-NVR2-W10UPG	\$289.22
2nd CPU Kit for NVR3 Premium	2nd CPU + Heatsink + 2x 8GB RAM; NVR3 Premium	HD-NVR3-PRM-2NDCPU	\$2,395.43
Power Supply for NVR3 Premium; AU	Power Supply for NVR3 Premium with an Australian power cord; 750W	HD-NVR3-PRM-2NDPS-AU	\$537.95
Power Supply for NVR3 Premium; NA	Power Supply for NVR3 Premium with a North American power cord; 750W	HD-NVR3-PRM-2NDPS-NA	\$537.95
Power Supply for NVR3 Premium; UK	Power Supply for NVR3 Premium with an United Kingdom power cord; 750W	HD-NVR3-PRM-2NDPS-UK	\$537.95
SFP+ 10GbE Transceiver at each end of Twinax Direct Attach Copper Cable; 3m	SFP+ 10GbE Transceiver at each end of Twinax Direct Attach Copper Cable; 3m	HD-NVR3-SFPPLUS-DA	\$150.39
SFP+ 10GBASE-SR Optical Transceiver (single)	SFP+ 10GBASE-SR Optical Transceiver (single)	HD-NVR3-SFPPLUS-SR	\$341.28
10GbE Network Card for NVR3 Standard	NETWORK CARD; DP 10G-SFP+; NVR3 Standard	HD-NVR3-STD-10GBE	\$902.37
2nd CPU Kit for NVR3 Standard	2nd CPU + Heatsink + 2x 8GB RAM; NVR3 Standard	HD-NVR3-STD-2NDCPU	\$2,134.56
Power Supply for NVR3 Standard; AU	Power Supply for NVR3 Standard with an Australian power cord; 750W	HD-NVR3-STD-2NDPS-AU	\$537.95
Power Supply for NVR3 Standard; NA	Power Supply for NVR3 Standard with a North American power cord; 750W	HD-NVR3-STD-2NDPS-NA	\$537.95
Power Supply for NVR3 Standard; UK	Power Supply for NVR3 Standard with an United Kingdom power cord; 750W	HD-NVR3-STD-2NDPS-UK	\$537.95
Power Supply for NVR3 Value; AU	Power Supply for NVR3 Value with an Australian power cord; 350W	HD-NVR3-VAL-2NDPS-AU	\$474.32
Power Supply for NVR3 Value; NA	Power Supply for NVR3 Value with a North American power cord; 350W	HD-NVR3-VAL-2NDPS-NA	\$474.32
Power Supply for NVR3 Value; UK	Power Supply for NVR3 Value with an United Kingdom power cord; 350W	HD-NVR3-VAL-2NDPS-UK	\$474.32
Windows 10 (LTSB1607) upgrade for NVR3/RMWS3/NVRWS3	Windows 10 (LTSB 1607) upgrade kit for NVR3-STD; NVR3-VAL; NVRWS3 and RMWS3	HD-NVR3-W10UPG	\$289.22
2nd CPU Kit for NVR4 Premium	2nd CPU + Heatsink + 2x 16GB RAM; NVR4 Premium	HD-NVR4-PRM-2NDCPU	\$3,060.00
Power Supply for NVR4 Premium; AU	Power Supply for NVR4 Premium with an Australian power cord; 1100W	HD-NVR4-PRM-2NDPS-AU	\$537.95
Power Supply for NVR4 Premium; NA	Power Supply for NVR4 Premium with a North American power cord; 1100W	HD-NVR4-PRM-2NDPS-NA	\$537.95
Power Supply for NVR4 Premium; UK	Power Supply for NVR4 Premium with an United Kingdom power cord; 1100W	HD-NVR4-PRM-2NDPS-UK	\$537.95
SFP+ 10GbE Transceiver at each end of Twinax Direct Attach Copper Cable; 3m	SFP+ 10GbE Transceiver at each end of Twinax Direct Attach Copper Cable; 3m	HD-NVR4-SFPPLUS-DA	\$150.39
SFP+ 10GBASE-SR Optical Transceiver (single)	SFP+ 10GBASE-SR Optical Transceiver (single)	HD-NVR4-SFPPLUS-SR	\$341.28
10GbE Network Card for NVR4 Standard	Network Card; DP 10G-SFP+; NVR4 Standard	HD-NVR4-STD-10GBE	\$763.54
2nd CPU Kit for NVR4 Standard	2nd CPU + Heatsink + 2x 8GB RAM; NVR4 Standard	HD-NVR4-STD-2NDCPU	\$1,882.00
Power Supply for NVR4 Standard; AU	Power Supply for NVR4 Standard with an Australian power cord; 750W	HD-NVR4-STD-2NDPS-AU	\$537.95
Power Supply for NVR4 Standard; NA	Power Supply for NVR4 Standard with a North American power cord; 750W	HD-NVR4-STD-2NDPS-NA	\$537.95
Power Supply for NVR4 Standard; UK	Power Supply for NVR4 Standard with an United Kingdom power cord; 750W	HD-NVR4-STD-2NDPS-UK	\$537.95
IDRAC 8 Enterprise Upgrade for NVR3 Models	IDRAC 8 Enterprise Upgrade for NVR3 Models	IDRAC8-ENT-UPG	\$775.11
IDRAC 9 Enterprise Upgrade for AI NVR; NVR4X; or AIA	IDRAC 9 Enterprise Upgrade for AI NVR; NVR4X; or AIA	IDRAC9-ENT-UPG	\$775.11
Spare Hard Drive; 10TB; Front/Rear Bay; NLSAS	Spare Hard Drive; 10TB; Front/Rear Bay; NLSAS compatible with NVR3-PRM-137TB	NVR3-HDDN-HOT-10TB	\$2,701.66
Spare Hard Drive; 4TB; Front/Rear Bay; NLSAS	Spare Hard Drive; 4TB; Front/Rear Bay; NLSAS compatible with NVR3-STD-24TB	NVR3-HDDN-HOT-4TB	\$1,354.23
Spare Hard Drive; 10TB; Internal Bay; NLSAS	Spare Hard Drive; 10TB; Internal Bay; NLSAS compatible with NVR3-PRM-137TB	NVR3-HDDN-INT-10TB	\$2,660.83
Spare Hard Drive; 2TB; Front/Rear Bay; SATA	Spare Hard Drive; 2TB; Front/Rear Bay; SATA compatible with NVR3-VAL-6TB; Gen 2	NVR3-HDDS-HOT-2TB	\$775.11
Spare Hard Drive; 4TB; Front/Rear Bay; NLSAS	Spare Hard Drive; 4TB; Front/Rear Bay; NLSAS compatible with NVR4-PRM-64TB	NVR4-HDDN-HOT-4TB	\$1,354.23
Spare Hard Drive; 10TB; Internal Bay; NLSAS	Spare Hard Drive; 10TB; Internal Bay; NLSAS compatible with NVR4-PRM-157TB	NVR4-HDDN-INT-10TB	\$2,626.81
Spare Hard Drive; 4TB; Internal Bay; NLSAS	Spare Hard Drive; 4TB; Internal Bay; NLSAS compatible with NVR4-PRM-64TB	NVR4-HDDN-INT-4TB	\$1,272.57
Spare Hard Drive; 8TB; Internal Bay; NLSAS	Spare Hard Drive; 8TB; Internal Bay; NLSAS compatible with NVR4-PRM-128TB; NVR4-PRM-96TB	NVR4-HDDN-INT-8TB	\$2,082.39
HARD DRIVE; 12TB; front or rear bay; Ext. Caddy	HARD DRIVE; 12TB; Ext. Caddy	NVR4-HDDS-HOT-12TB	\$1,706.97

HARD DRIVE; 16TB; front or rear bay; Ext; Caddy	HARD DRIVE; 16TB; Ext; Caddy	NVR4-HDDS-HOT-16TB	\$2,423.79
Spare Hard Drive; 2TB; Front/Rear Bay; SATA	Spare Hard Drive; 2TB; Front/Rear Bay; SATA compatible with NVR4-VAL-6TB	NVR4-HDDS-HOT-2TB	\$832.96
Spare Hard Drive; 4TB; Front/Rear Bay; SATA	Spare Hard Drive; 4TB; Front/Rear Bay; SATA compatible with NVR4-STD-24TB; NVR4-VAL-12TB	NVR4-HDDS-HOT-4TB	\$1,064.34
Spare Hard Drive; 8TB; Front/Rear Bay; SATA	Spare Hard Drive; 8TB; Front/Rear Bay; SATA compatible with NVR4-STD-48TB; NVR4-STD-32TB; NVR4-VAL-24TB; NVR4-VAL-16TB	NVR4-HDDS-HOT-8TB	\$1,764.82
HARD DRIVE; 16TB; Internal Bay	HARD DRIVE; 16TB; Int	NVR4-HDDS-INT-16TB	\$2,331.92
Storage Expansion Pack; 16TB	Storage Expansion Pack to add 16TB of effective storage to NVR4-STD-32TB or NVR4-STD-16TB	NVR4-HDDS-PACK-16TB	\$6,362.86
Storage Expansion Pack; 32TB	Storage Expansion Pack to add 32TB of effective storage to NVR4-STD-32TB or NVR4-STD-16TB	NVR4-HDDS-PACK-32TB	\$10,585.49
Windows Server 2016 COA for NVR4-STD/NVR4X-STD	Windows Server 2016 license for NVR4-STD/NVR4X-STD. Required to upgrade from Windows 10 LTSEB to Windows Server 2016. Package includes the Windows 2016 COA license and activation key. The OS installation files are obtained via direct download.	NVR4-S16-COA	\$1,522.10
Windows Server 2019 Field Upgrade Kit for NVR4/NVR4X	Windows Server 2019 Field Upgrade Kit for NVR4/NVR4X. Compatible with NVR4-VAL; NVR4-STD; NVR4-PRM; NVR4X-STD and NVR4X-PRM. Required to upgrade from Windows 10 LTSEB or Windows Server 2016 to Windows Server 2019. Package includes the Upgrade USB drive and the Windows 2019 COA license and activation key.	NVR4-S19-COA	\$1,644.59
Network Card; DP 10G-SFP+; NVR4 Value	Network Card; DP 10G-SFP+; NVR4 Value	NVR4-VAL-10GBE	\$861.88
Power Supply for NVR4 Value; AU	Power Supply for NVR4 Value with an Australian power cord; 350W	NVR4-VAL-2NDPS-AU	\$474.32
Power Supply for NVR4 Value; EU	Power Supply for NVR4 Value with an European power cord; 350W	NVR4-VAL-2NDPS-EU	\$474.32
Power Supply for NVR4 Value; NA	Power Supply for NVR4 Value with an North American power cord; 350W	NVR4-VAL-2NDPS-NA	\$474.32
Power Supply for NVR4 Value; UK	Power Supply for NVR4 Value with an United Kingdom power cord; 350W	NVR4-VAL-2NDPS-UK	\$474.32
PSU; Second HS; 1100W; w/ POWERCORD Australia	PSU; Second HS; 1100W; w/ POWERCORD Australia	NVR4X-1100W-2NDPS-AU	\$578.44
PSU; Second HS; 1100W; w/ POWERCORD EU	PSU; Second HS; 1100W; w/ POWERCORD EU	NVR4X-1100W-2NDPS-EU	\$578.44
PSU; Second HS; 1100W; w/ POWERCORD NA	PSU; Second HS; 1100W; w/ POWERCORD NA	NVR4X-1100W-2NDPS-NA	\$578.44
PSU; Second HS; 1100W; w/ POWERCORD UK	PSU; Second HS; 1100W; w/ POWERCORD UK	NVR4X-1100W-2NDPS-UK	\$578.44
PSU; Second HS; 750W; w/ POWERCORD Australia	PSU; Second HS; 750W; w/ POWERCORD Australia	NVR4X-750W-2NDPS-AU	\$537.95
PSU; Second HS; 750W; w/ POWERCORD EU	PSU; Second HS; 750W; w/ POWERCORD EU	NVR4X-750W-2NDPS-EU	\$537.95
PSU; Second HS; 750W; w/ POWERCORD NA	PSU; Second HS; 750W; w/ POWERCORD NA	NVR4X-750W-2NDPS-NA	\$537.95
PSU; Second HS; 750W; w/ POWERCORD UK	PSU; Second HS; 750W; w/ POWERCORD UK	NVR4X-750W-2NDPS-UK	\$537.95
2nd CPU for NVR4X PRM -- includes 2x memory modules	2nd CPU for NVR4X PRM -- includes 2x memory modules	NVR4X-PRM-2NDPCPU	\$3,470.65
SFP+ 10GBASE-SR Optical Transceiver (single) for NVR4X	SFP+ 10GBASE-SR Optical Transceiver (single) for NVR4X	NVR4X-SFPPLUS-SR	\$341.28
Low Profile Network Card; DP 10G-SFP+; NVR4X STD	Low Profile Network Card; DP 10G-SFP+; NVR4X STD	NVR4X-STD-10GBE	\$763.54
NVR5-10GBASET-A1	KIT;X710;10G-BT LP;QP;NVR5STD/PRM<=160TB	NVR5-10GBASET-A1	\$2,192.61
NVR5-10GBASET-A2	KIT;X710;10G-BT FH;QP;NVR5PRM192/224TB	NVR5-10GBASET-A2	\$2,192.61
NVR5-10GBASET-B	KIT;10G-BaseT Low Profile;Dual Port;NVR5 PRM 252TB+	NVR5-10GBASET-B	\$1,193.56
NVR5-AVA-SAN-CONNECT-A	Kit;NVR5 AVA SAN Con;STD/PRM 16-224 TB ex CPU	NVR5-AVA-SAN-CONNECT-A	\$1,900.62
NVR5-AVA-SAN-CONNECT-B	KIT;NVR5 AVA SAN Connectivity;PRM 252TB+	NVR5-AVA-SAN-CONNECT-B	\$2,661.66
NVR5-HDD-HOT-4TB	HDD;4TB;Ext;Caddy;NVR5 STD16/24TB	NVR5-HDD-HOT-4TB	\$1,064.34
NVR5-HDD-HOT-8TB	HDD;8TB;Ext;Caddy;NVR5 STD32-64TB	NVR5-HDD-HOT-8TB	\$1,764.82
NVR5-HDDS-HOT-12TB	HDD;12TB;Ext;Caddy;NVR5 PRM 96TB	NVR5-HDDS-HOT-12TB	\$2,465.30
NVR5-HDDS-HOT-16TB-A1	HDD;16TB;Ext;Caddy;NVR5 PRM 128/160TB	NVR5-HDDS-HOT-16TB-A1	\$5,006.91
NVR5-HDDS-HOT-16TB-A2	HDD;16TB;Ext;Caddy;NVR5 PRM 192/224TB	NVR5-HDDS-HOT-16TB-A2	\$5,006.91
NVR5-HDDS-HOT-18TB	HDD;18TB;Ext;Caddy;NVR5 PRM 252TB+	NVR5-HDDS-HOT-18TB	\$5,444.18
NVR5-HDDS-INT-16TB	HDD;16TB;Int;NVR5 PRM 192/224TB	NVR5-HDDS-INT-16TB	\$3,294.00
NVR5-PRM-2NDPCPU	KIT; 2nd CPU; 6x8GB; NVR5 PRM 192/224TB	NVR5-PRM-2NDPCPU	\$7,683.74
NVR5-PSU-1000W-AU	Redundant; hot-swappable 1000W power supply for NVR5 PRM 252TB+; AU	NVR5-PSU-1000W-AU	\$1,459.62
NVR5-PSU-1000W-EU	Redundant; hot-swappable 1000W power supply for NVR5 PRM 252TB+; EU	NVR5-PSU-1000W-EU	\$1,459.62
NVR5-PSU-1000W-NA	Redundant; hot-swappable 1000W power supply for NVR5 PRM 252TB+; NA	NVR5-PSU-1000W-NA	\$1,459.62
NVR5-PSU-1000W-UK	Redundant; hot-swappable 1000W power supply for NVR5 PRM 252TB+; UK	NVR5-PSU-1000W-UK	\$1,459.62
NVR5-PSU-1100W-A1-AU	PSU; 1100W; NVR5 PRM 96-160TB; AU	NVR5-PSU-1100W-A1-AU	\$857.01
NVR5-PSU-1100W-A1-EU	PSU; 1100W; NVR5 PRM 96-160TB; EU	NVR5-PSU-1100W-A1-EU	\$857.01
NVR5-PSU-1100W-A1-NA	PSU; 1100W; NVR5 PRM 96-160TB; NA	NVR5-PSU-1100W-A1-NA	\$857.01
NVR5-PSU-1100W-A1-AU	PSU; 1100W; NVR5 PRM 96-160TB; AU	NVR5-PSU-1100W-A1-AU	\$857.01
NVR5-PSU-1100W-A1-EU	PSU; 1100W; NVR5 PRM 96-160TB; EU	NVR5-PSU-1100W-A1-EU	\$857.01
NVR5-PSU-1100W-A1-NA	PSU; 1100W; NVR5 PRM 96-160TB; NA	NVR5-PSU-1100W-A1-NA	\$857.01
NVR5-PSU-1100W-A2-AU	PSU; 1100W; NVR5 PRM 192/224TB; AU	NVR5-PSU-1100W-A2-AU	\$857.01
NVR5-PSU-1100W-A2-EU	PSU; 1100W; NVR5 PRM 192/224TB; EU	NVR5-PSU-1100W-A2-EU	\$857.01
NVR5-PSU-1100W-A2-NA	PSU; 1100W; NVR5 PRM 192/224TB; NA	NVR5-PSU-1100W-A2-NA	\$857.01
NVR5-PSU-1100W-A2-UK	PSU; 1100W; NVR5 PRM 192/224TB; UK	NVR5-PSU-1100W-A2-UK	\$857.01
NVR5-PSU-800W-AU	PSU; 800W; NVR5 STD; AU	NVR5-PSU-800W-AU	\$303.26
NVR5-PSU-800W-EU	PSU; 800W; NVR5 STD; EU	NVR5-PSU-800W-EU	\$303.26
NVR5-PSU-800W-NA	PSU; 800W; NVR5 STD; NA	NVR5-PSU-800W-NA	\$303.26
NVR5-PSU-800W-UK	PSU; 800W; NVR5 STD; UK	NVR5-PSU-800W-UK	\$303.26
NVR5-RAM-16GB-A	KIT; 2x8GB; NVR5 STD;PRM<=224TB	NVR5-RAM-16GB-A	\$1,590.00
NVR5-RAM-16GB-B	KIT; 2x8GB RAM; NVR5 PRM 252TB+	NVR5-RAM-16GB-B	\$827.86
NVR5-SFPPLUS-DA	KIT;10G SFP+ SR DA;NVR5 STD/PRM	NVR5-SFPPLUS-DA	\$240.20
NVR5-SFPPLUS-LR-A	KIT;10G SFP+ LR Tsc;NVR5 STD/PRM<=224TB	NVR5-SFPPLUS-LR-A	\$1,927.88
NVR5-SFPPLUS-LR-B	KIT;10G SFP+ LR Transceivers; NVR5 PRM 252TB+	NVR5-SFPPLUS-LR-B	\$1,869.84
NVR5-SFPPLUS-SR-A	KIT;10G SFP+ SR Tsc;NVR5 STD/PRM<=224TB	NVR5-SFPPLUS-SR-A	\$380.01
NVR5-SFPPLUS-SR-B	KIT;10G SFP+ SR Transceivers; NVR5 PRM 252TB+	NVR5-SFPPLUS-SR-B	\$897.82
NVR5-STD-10GBE	KIT;X710;10G-SFP+ OCP;DP;NVR5 STD	NVR5-STD-10GBE	\$763.54
NVR5-STD-2NDPCPU	KIT; 2nd CPU; 2x8GB; NVR5 STD	NVR5-STD-2NDPCPU	\$3,258.39
ACC Professional Services; on-site training	Power Supply for ES 8-Port Appliance; 180W	PRO-ACC-ONSITE-TRN	\$162.02
Power Supply for ES 8-Port Appliance	Power Supply for ES 8-Port Appliance; 180W	PS-180W-ENVR1-8P	\$156.06
Power Supply for ES 8-Port Rugged Appliance; AU	Power Supply for ES 8-Port Rugged Appliance with an Australian power cord; 220W	PS-220W-RPA-RGD-8P-AU	\$342.21
Power Supply for ES 8-Port Rugged Appliance; EU	Power Supply for ES 8-Port Rugged Appliance with an European power cord; 220W	PS-220W-RPA-RGD-8P-EU	\$342.21
Power Supply for ES 8-Port Rugged Appliance; NA	Power Supply for ES 8-Port Rugged Appliance with an North American power cord; 220W	PS-220W-RPA-RGD-8P-NA	\$342.21
Power Supply for ES 8-Port Rugged Appliance; UK	Power Supply for ES 8-Port Rugged Appliance with an United Kingdom power cord; 220W	PS-220W-RPA-RGD-8P-UK	\$342.21
Power Supply for HDVA3 8-Port	Power Supply for HDVA3 8-Port; 270W	PS-270W-AS3-8P	\$271.40
Power Supply for HDVA3 16/24-Port	Power Supply for HDVA3 16/24-Port; 920W	PS-920W-AS3-16/24P	\$489.71
Mounting Rails for HDVA3 16/24-Port	Mounting Rails for HDVA3 16/24-Port	RAILS-B-AS3-16/24P	\$76.70
Rack Mount Shelf for ES 8-Port Appliance	1U Rack Mount Shelf for up to two ES 8-Port Appliance	RMS1U-A-ENVR1-8P	\$374.07
1U Rack mount shelf for HDVA3 8-port	1U Rack mount shelf for HDVA3 8-port. Adjustable to fit 641mm to 910mm rack depth.	RMS1U-B-AS3-8P	\$159.30
Storage Drive for ES Rugged Appliance; 2TB	2TB Solid State Drive for VMA-RPA-RGD-8P2	SSD-2TB-RPA-RGD	\$1,309.10
Storage Drive for ES Rugged Appliance; 4TB	4TB Solid State Drive for VMA-RPA-RGD-8P4	SSD-4TB-RPA-RGD	\$2,756.00
Power Supply for AIA; AU	2nd Power Supply for AI Appliance with an Australian power cord	VMA-AIA-2NDPS-AU	\$548.72
Power Supply for AIA; NA	2nd Power Supply for AI Appliance with an North American power cord	VMA-AIA-2NDPS-NA	\$548.72
Power Supply for AIA; UK	2nd Power Supply for AI Appliance with an United Kingdom power cord	VMA-AIA-2NDPS-UK	\$548.72
Power Supply for AI Appliance 2; AU	Secondary Power Supply for AI Appliance 2; AU	VMA-AIA2-2NDPS-AU	\$537.61
Power Supply for AI Appliance 2; EU	Secondary Power Supply for AI Appliance 2; EU	VMA-AIA2-2NDPS-EU	\$537.61
Power Supply for AI Appliance 2; NA	Secondary Power Supply for AI Appliance 2; NA	VMA-AIA2-2NDPS-NA	\$537.61
Power Supply for AI Appliance 2; UK	Secondary Power Supply for AI Appliance 2; UK	VMA-AIA2-2NDPS-UK	\$537.61
2 Year Warranty Extension for AIA2	2 Year Warranty Extension for AI Appliance 2	VMA-AIA2-WARR-EXTEND-2YR	\$1,156.88
Windows 10 (LTSEB 1607) upgrade for AS1	Windows 10 (LTSEB 1607) upgrade kit for AS1 models	VMA-AS1-W10UPG	\$295.01
Analytics Kit for HDVA 16/24-Port	Analytics Kit for Appearance Search and Face Recognition; HDVA3 16/24-port	VMA-AS3-ANK	\$1,156.42
Hard Drive for HDVA3; 2TB	HDVA3 2TB Hard Drive for VMA-AS3-8P2; VMA-AS3-16P06	VMA-AS3-HDD02	\$200.61
Hard Drive for HDVA3; 3TB	HDVA3 3TB Hard Drive for VMA-AS3-16P09	VMA-AS3-HDD03	\$241.90
Hard Drive for HDVA3; 4TB	HDVA3 4TB Hard Drive for VMA-AS3-8P4; VMA-AS3-16P12	VMA-AS3-HDD04	\$318.60

Hard Drive for HDVA3; 6TB	HDVA3 6TB Hard Drive for VMA-AS3-24P18	VMA-AS3-HDD06	\$454.31
Hard Drive for HDVA3; 8TB	HDVA3 8TB Hard Drive for VMA-AS3-8PB; VMA-AS3-24P24	VMA-AS3-HDD08	\$584.11
Power Supply for ES HD Recorder or ES Analytics Appliance	Power Supply for ES HD Recorder or ES Analytics Appliance; 90W	VMA-RPX-4PPS-90	\$177.00
Rack Mount Shelf for ES HD Recorder or ES Analytics Appliance	1U Rack Mount Shelf for ES HD Recorder or ES Analytics Appliance	VMA-RPX-4PRMS1U	\$283.21
Rack Shelf for NVR4-WKS or RMS-WKS (4 Post)	4 Post Rack Shelf for three NVR4-WKS or RMS-WKS; 7U	WKS-RACK	\$474.32
1MP H4ES Box Camera with 128GB SSD and 4.7-84.6mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; 4.7-84.6mm f/1.6 lens; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-B1	\$1,670.54
1MP H4A Box Camera with 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; 3-9mm f/1.3 P-iris lens; Self-Learning Video Analytics	1.0C-H4A-B2-B	\$826.02
2MP H4ES Box Camera with 256GB SSD and 4.7-84.6mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; 4.7-84.6mm f/1.6 lens; Self-Learning Video Analytics; 256GB Built-in SSD	2.0C-H4A-25G-B1	\$2,024.55
2MP H5A Box Camera with 4.7-84.6mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; 4.7-84.6mm f/1.6 lens; Next-Generation Analytics	2.0C-H5A-B1	\$997.12
2MP H5A Box Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	2.0C-H5A-B2	\$944.01
3MP H4ES Box Camera with 256GB SSD and 4.7-84.6mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; 4.7-84.6mm f/1.6 lens; Self-Learning Video Analytics; 256GB Built-in SSD	3.0C-H4A-25G-B1	\$2,313.77
3MP H4ES Box Camera with 256GB SSD and 4.7-84.6mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; 4.7-84.6mm f/1.6 lens; Self-Learning Video Analytics; 256GB Built-in SSD	3.0C-H4A-25G-B1-B	\$2,313.77
3MP H4A Box Camera with 3-9mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; 3-9mm f/1.3 P-iris lens; Self-Learning Video Analytics	3.0C-H4A-B2-B	\$985.31
3MP H4A Box Camera with 9-22mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	3.0C-H4A-B3	\$1,032.51
4MP H5A Box Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; 3.3-9mm f/1.3 lens; Next-Generation Analytics	4.0C-H5A-B2	\$1,111.58
4MP H5A Box Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; Day/Night; 9-22mm f/1.6 lens; Next-Generation Analytics	4.0C-H5A-B3	\$1,158.78
6MP H5A Box Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; 4.9-8mm f/1.8 lens; Next-Generation Analytics	6.0C-H5A-B2	\$1,280.67
8MP H5A Box Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; 4.9-8mm f/1.8 lens; Next-Generation Analytics	8.0C-H5A-B2	\$1,534.03
1MP H4ES Bullet Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-BO1-IR	\$1,711.03
1MP H4ES Bullet Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-BO1-IR-B	\$1,711.03
1MP H4ES Bullet Camera with 128GB SSD and 9-22mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-BO2-IR	\$1,770.03
1MP H4ES Bullet Camera with 128GB SSD and 9-22mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-BO2-IR-B	\$1,770.03
1MP H4A Bullet Camera with 9-22mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics	1.0C-H4A-BO2-IR-B	\$1,109.23
1.3MP H5SL Bullet Camera with 3.1-8.4mm Lens	1.3 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 3.1-8.4mm f/1.6; Integrated IR	1.3C-H5SL-BO1-IR	\$554.61
2MP H4ES Bullet Camera with 256GB SSD and 3-9mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	2.0C-H4A-25G-BO1-IR-B	\$2,065.04
2MP H4ES Bullet Camera with 256GB SSD and 9-22mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	2.0C-H4A-25G-BO2-IR-B	\$2,124.04
2MP H4A Bullet Camera with 9-22mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics	2.0C-H4A-BO2-IR-B	\$1,227.46
2MP H5A Bullet Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	2.0C-H5A-BO1-IR	\$1,180.02
2MP H5A Bullet Camera with 9-22mm Lens	2.0 MP (1080p) WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Next-Generation Analytics	2.0C-H5A-BO2-IR	\$1,227.46
2MP H5SL Bullet Camera with 3.1-8.4mm Lens	2.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 3.1-8.4mm f/1.6; Integrated IR	2.0C-H5SL-BO1-IR	\$613.61
3MP H4ES Bullet Camera with 256GB SSD and 3-9mm Lens	3.0 Megapixel WDR; LightCatcher; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	3.0C-H4A-25G-BO1-IR-B	\$2,354.26
3MP H4ES Bullet Camera with 256GB SSD and 9-22mm Lens	3.0 Megapixel WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	3.0C-H4A-25G-BO2-IR-B	\$2,413.26
3MP H5SL Bullet Camera with 3.1-8.4mm Lens	3.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 3.1-8.4mm f/1.6; Integrated IR	3.0C-H5SL-BO1-IR	\$672.61
3MP H5SL Bullet Camera with 9.5-31mm Lens	3.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 9.5-31mm f/1.4; Integrated IR	3.0C-H5SL-BO2-IR	\$731.61
4MP H5A Bullet Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	4.0C-H5A-BO1-IR	\$1,347.77
4MP H5A Bullet Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Next-Generation Analytics	4.0C-H5A-BO2-IR	\$1,395.20
5MP H5A Bullet Camera with 9-22mm Lens	5.0 MP WDR; LightCatcher; 9-22mm f/1.6 P-iris lens; Integrated IR; Next-Generation Analytics	5.0C-H5A-BO2-IR	\$1,469.24
5MP H5SL Bullet Camera with 3.1-8.4mm Lens	5.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 3.1-8.4mm f/1.6; Integrated IR	5.0C-H5SL-BO1-IR	\$790.61
5MP H5SL Bullet Camera with 9.5-31mm Lens	5.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 9.5-31mm f/1.4; Integrated IR	5.0C-H5SL-BO2-IR	\$849.62
6MP H5A Bullet Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	6.0C-H5A-BO1-IR	\$1,516.68
8MP H5A Bullet Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	8.0C-H5A-BO1-IR	\$1,770.03
1MP H4ES Outdoor IR Dome Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-DO1-IR	\$1,508.58
1MP H4ES Outdoor IR Dome Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD	1.0C-H4A-12G-DO1-IR-B	\$1,711.03
1MP H4ES Outdoor IR Pendant Dome Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	1.0C-H4A-12G-DP1-IR	\$1,508.58
1MP H4ES Outdoor IR Pendant Dome Camera with 128GB SSD and 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 128GB Built-in SSD. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	1.0C-H4A-12G-DP1-IR-B	\$1,711.03
1MP H4A Outdoor IR Dome Camera with 3-9mm Lens	1.0 Megapixel (720p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics	1.0C-H4A-DO1-IR-B	\$1,062.02
1.3MP H5SL Indoor Dome Camera with 3-9mm Lens	1.3 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4	1.3C-H5SL-D1	\$424.81
1.3MP H5SL Indoor IR Dome Camera with 3-9mm Lens	1.3 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4; Integrated IR	1.3C-H5SL-D1-IR	\$466.11
1.3MP H5SL Outdoor IR Dome Camera with 3.1-8.4mm Lens	1.3 MP; WDR; LightCatcher; Day/Night; Outdoor Dome; 3.1-8.4mm f/1.6; Integrated IR	1.3C-H5SL-DO1-IR	\$554.61
2MP H4ES Outdoor IR Dome Camera with 256GB SSD and 3-9mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	2.0C-H4A-25G-DO1-IR-B	\$2,065.04
2MP H4ES Outdoor IR Pendant Dome Camera with 256GB SSD and 3-9mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	2.0C-H4A-25G-DP1-IR	\$1,820.70
2MP H4ES Outdoor IR Pendant Dome Camera with 256GB SSD and 3-9mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	2.0C-H4A-25G-DP1-IR-B	\$2,065.04
2MP H4A Indoor Dome Camera with 9-22mm Lens	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; Indoor Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	2.0C-H4A-D2-B	\$991.23
2MP H4A Outdoor Dome Camera with 9-22mm	2.0 Megapixel (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	2.0C-H4A-DO2-B	\$1,168.23
2MP H4A Outdoor Pendant Dome Camera with 9-22mm	2.0 Megapixel H4 HD Dome Cameras with Self-Learning Video Analytics	2.0C-H4A-DP2-B	\$1,097.42
2MP H5A Indoor Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Indoor Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	2.0C-H5A-D1	\$944.01
2MP H5A Indoor IR Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Indoor Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	2.0C-H5A-D1-IR	\$1,003.01
2MP H5A Indoor Dome Camera with 9-22mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Indoor Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	2.0C-H5A-D2	\$991.23
2MP H5A In-Ceiling Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; In-Ceiling Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	2.0C-H5A-DC1	\$1,003.01
2MP H5A In-Ceiling IR Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; In-Ceiling Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	2.0C-H5A-DC1-IR	\$1,062.02
2MP H5A In-Ceiling Dome Camera with 9-22mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; In-Ceiling Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	2.0C-H5A-DC2	\$1,050.23
2MP H5A Outdoor Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	2.0C-H5A-DO1	\$1,121.02
2MP H5A Outdoor IR Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	2.0C-H5A-DO1-IR	\$1,180.02
2MP H5A Outdoor Dome Camera with 9-22mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	2.0C-H5A-DO2	\$1,168.23

2MP H5A Pendant Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Pendant Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	2.0C-H5A-DP1	\$1,050.23
2MP H5A Pendant IR Dome Camera with 3.3-9mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Pendant Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	2.0C-H5A-DP1-IR	\$1,109.23
2MP H5A Pendant Dome Camera with 9-22mm Lens	2.0 MP (1080p) WDR; LightCatcher; Day/Night; Pendant Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	2.0C-H5A-DP2	\$1,097.42
2MP H5M Dome Camera with 2.8mm lens	2.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 2.8mm f/1.2; IR	2.0C-H5M-D01-IR	\$377.60
2MP H5SL Indoor Dome Camera with 3-9mm Lens	2.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4	2.0C-H5SL-D1	\$483.81
2MP H5SL Indoor IR Dome Camera with 3-9mm Lens	2.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4; Integrated IR	2.0C-H5SL-D1-IR	\$525.11
2MP H5SL Outdoor IR Dome Camera with 3.1-8.4mm Lens	2.0 MP; WDR; LightCatcher; Day/Night; Outdoor Dome; 3.1-8.4mm f/1.6; Integrated IR	2.0C-H5SL-D01-IR	\$613.61
2MP H6M Indoor Mini Dome Camera with 2.9mm Lens	2.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.9mm f/2.0	2.0C-H6M-D1	\$400.68
2MP H6M Indoor Mini Dome IR Camera with 2.9mm Lens	2.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.9mm f/2.0; IR	2.0C-H6M-D1-IR	\$441.00
3MP H4ES Outdoor IR Dome Camera with 256GB SSD and 3-9mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD	3.0C-H4A-25G-D01-IR-B	\$2,354.26
3MP H4ES Outdoor IR Pendant Dome Camera with 256GB SSD and 3-9mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; Outdoor Dome; 3-9mm f/1.3 P-iris lens; Integrated IR; Self-Learning Video Analytics; 256GB Built-in SSD. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	3.0C-H4A-25G-DP1-IR-B	\$2,354.26
3MP H4A In-Ceiling Dome Camera with 9-22mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; In-Ceiling Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	3.0C-H4A-DC2-B	\$1,070.12
3MP H4A Outdoor IR Dome Camera with 9-22mm Lens	3.0 Megapixel WDR; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	3.0C-H4A-DO2-B	\$1,185.81
3.0C-H5A-CR1-IR	H5A; Corner; CRS; 3.0 MP WDR; 3-9mm; IR	3.0C-H5A-CR1-IR	\$1,416.02
3.0C-H5A-CR1-IR-SS	H5A; Corner; SS; 3.0 MP WDR; 3-9mm; IR	3.0C-H5A-CR1-IR-SS	\$1,711.03
3.0C-H5A-CR2-IR	Avigilon H5A Corner Camera; 2.3mm Fixed Lens; 3 MP; White Steel	3.0C-H5A-CR2-IR	\$1,272.00
3.0C-H5A-CR2-IR-SS	Avigilon H5A Corner Camera; 2.3mm Fixed Lens; 3 MP; Stainless Steel	3.0C-H5A-CR2-IR-SS	\$1,537.00
3MP H5SL Indoor Dome Camera with 3-9mm Lens	3.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4	3.0C-H5SL-D1	\$542.80
3MP H5SL Indoor IR Dome Camera with 3-9mm Lens	3.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3-9mm f/1.4; Integrated IR	3.0C-H5SL-D1-IR	\$584.11
3MP H5SL Outdoor IR Dome Camera with 3.1-8.4mm Lens	3.0 MP; WDR; LightCatcher; Day/Night; Outdoor Dome; 3.1-8.4mm f/1.6; Integrated IR	3.0C-H5SL-D01-IR	\$672.61
3MP H6M Indoor Mini Dome Camera with 2.9mm Lens	3.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.9mm f/2.0	3.0C-H6M-D1	\$460.04
3MP H6M Indoor Mini Dome IR Camera with 2.9mm Lens	3.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.9mm f/2.0; IR	3.0C-H6M-D1-IR	\$500.32
3MP H6M Indoor Mini Dome IR Camera with Wide Angle 2.4mm Lens	3.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.4mm f/2.1; IR	3.0C-H6M-D2-IR	\$515.16
4MP H5A Indoor Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Indoor Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	4.0C-H5A-D1	\$1,111.58
4MP H5A Indoor IR Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Indoor Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	4.0C-H5A-D1-IR	\$1,170.59
4MP H5A Indoor Dome Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Indoor Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	4.0C-H5A-D2	\$1,158.78
4MP H5A In-Ceiling Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	4.0C-H5A-DC1	\$1,170.59
4MP H5A In-Ceiling IR Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	4.0C-H5A-DC1-IR	\$1,229.77
4MP H5A In-Ceiling Dome Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	4.0C-H5A-DC2	\$1,218.19
4MP H5A Outdoor Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics	4.0C-H5A-DO1	\$1,288.77
4MP H5A Outdoor IR Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	4.0C-H5A-DO1-IR	\$1,347.77
4MP H5A Outdoor Dome Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	4.0C-H5A-DO2	\$1,336.20
4MP H5A Outdoor Pendant Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 3.3-9mm f/1.3 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	4.0C-H5A-DP1	\$1,218.19
4MP H5A Outdoor Pendant IR Dome Camera with 3.3-9mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	4.0C-H5A-DP1-IR	\$1,277.20
4MP H5A Outdoor Pendant Dome Camera with 9-22mm Lens	4.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	4.0C-H5A-DP2	\$1,265.63
5.0C-H5A-CR1-IR	H5A; Corner; CRS; 5.0 MP WDR; 3-9mm; IR	5.0C-H5A-CR1-IR	\$1,888.03
5.0C-H5A-CR1-IR-SS	H5A; Corner; SS; 5.0 MP WDR; 3-9mm; IR	5.0C-H5A-CR1-IR-SS	\$2,183.04
5.0C-H5A-CR2-IR	Avigilon H5A Corner Camera; 2.3mm Fixed Lens; 5 MP; White Steel	5.0C-H5A-CR2-IR	\$1,696.00
5.0C-H5A-CR2-IR-SS	Avigilon H5A Corner Camera; 2.3mm Fixed Lens; 5 MP; Stainless Steel	5.0C-H5A-CR2-IR-SS	\$1,961.00
5MP H5A Outdoor Dome Camera with 9-22mm Lens	5.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics	5.0C-H5A-DO2	\$1,410.25
5MP H5A Outdoor Pendant Dome Camera with 9-22mm Lens	5.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 9-22mm f/1.6 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	5.0C-H5A-DP2	\$1,339.67
5MP H5M Dome Camera with 2.8mm lens	5.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 2.8mm f/1.2; IR	5.0C-H5M-D01-IR	\$590.01
5MP H5SL Indoor Dome Camera with 3.1-8.4mm Lens	5.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3.1-8.4mm f/1.6	5.0C-H5SL-D1	\$660.80
5MP H5SL Indoor IR Dome Camera with 3.1-8.4mm Lens	5.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3.1-8.4mm f/1.6; Integrated IR	5.0C-H5SL-D1-IR	\$702.11
5MP H5SL Outdoor IR Dome Camera with 3.1-8.4mm Lens	5.0 MP; WDR; LightCatcher; Day/Night; Outdoor Dome; 3.1-8.4mm f/1.6; Integrated IR	5.0C-H5SL-D01-IR	\$790.61
5MP H6M Indoor Mini Dome IR Camera with 2.9mm Lens	5.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.9mm f/2.0	5.0C-H6M-D1-IR	\$583.00
5MP H6M Indoor Mini Dome IR Camera with Wide Angle 2.4mm Lens	5.0 MP; H6 Mini Dome Camera; WDR; LightCatcher; Day/Night; 2.4mm f/2.1; IR	5.0C-H6M-D2-IR	\$478.27
5MP H4A In-Ceiling Dome Camera with 4.3-8mm Lens	5.0 Megapixel; LightCatcher; Day/Night; In-Ceiling Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	5.0L-H4A-DC2-B	\$1,233.24
5MP H4A Outdoor Dome Camera with 9-22mm Lens	5.0 Megapixel; LightCatcher; Day/Night; Outdoor Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics	5.0L-H4A-DO2-B	\$1,351.25
5MP H4A Outdoor Pendant Dome Camera with 9-22mm Lens	5.0 Megapixel; LightCatcher; Day/Night; Pendant Dome; 9-22mm f/1.6 P-iris lens; Self-Learning Video Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	5.0L-H4A-DP2-B	\$1,280.67
6MP H5A Indoor Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Indoor Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	6.0C-H5A-D1	\$1,280.67
6MP H5A Indoor IR Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Indoor Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	6.0C-H5A-D1-IR	\$1,339.67
6MP H5A In-Ceiling Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	6.0C-H5A-DC1	\$1,339.67
6MP H5A In-Ceiling IR Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	6.0C-H5A-DC1-IR	\$1,398.67
6MP H5A Outdoor Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	6.0C-H5A-DO1	\$1,457.67
6MP H5A Outdoor IR Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	6.0C-H5A-DO1-IR	\$1,516.68
6MP H5A Outdoor Pendant Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	6.0C-H5A-DP1	\$1,387.11
6MP H5A Outdoor Pendant IR Dome Camera with 4.9-8mm Lens	6.0 MP WDR; LightCatcher; Day/Night; Pendant Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	6.0C-H5A-DP1-IR	\$1,446.11
8MP H4A Indoor Dome Camera with 4.3-8mm Lens	4K UHD (8.0 Megapixel); Day/Night; Indoor Dome; 4.3-8mm f/1.8 P-iris lens; Self-Learning Video Analytics	8.0-H4A-D1-B	\$1,534.03
8MP H4A In-Ceiling Dome Camera with 4.3-8mm Lens	4K UHD (8.0 Megapixel); Day/Night; In-Ceiling Dome; 4.3-8mm f/1.8 P-iris lens; Self-Learning Video Analytics	8.0-H4A-DC1-B	\$1,593.03
8MP H4A Outdoor Dome Camera with 4.3-8mm Lens	4K UHD (8.0 Megapixel); Day/Night; Outdoor Dome; 4.3-8mm f/1.8 P-iris lens; Self-Learning Video Analytics	8.0-H4A-DO1-B	\$1,711.03
8MP H4A Outdoor IR Dome Camera with 4.3-8mm Lens	4K UHD (8.0 Megapixel); Day/Night; Outdoor Dome; 4.3-8mm f/1.8 P-iris lens; Integrated IR; Self-Learning Video Analytics	8.0-H4A-DO1-IR-B	\$1,770.03
8MP H4A Outdoor Pendant IR Dome Camera with 4.3-8mm Lens	4K UHD (8.0 Megapixel); Day/Night; Pendant Dome; 4.3-8mm f/1.8 P-iris lens; Self-Learning Video Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	8.0-H4A-DP1-B	\$1,640.47
8MP H5A Indoor Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Indoor Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	8.0C-H5A-D1	\$1,534.03
8MP H5A Indoor IR Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Indoor Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	8.0C-H5A-D1-IR	\$1,593.03
8MP H5A In-Ceiling Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; In-Ceiling Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	8.0C-H5A-DC1	\$1,593.03
8MP H5A In-Ceiling IR Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; In-Ceiling Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	8.0C-H5A-DC1-IR	\$1,652.03
8MP H5A Outdoor Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Outdoor Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics	8.0C-H5A-DO1	\$1,711.03
8MP H5A Outdoor IR Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Outdoor Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	8.0C-H5A-DO1-IR	\$1,770.03
8MP H5A Outdoor Pendant Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Pendant Dome; 4.9-8mm f/1.8 P-iris lens; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	8.0C-H5A-DP1	\$1,640.47

8MP H5A Outdoor Pendant IR Dome Camera with 4.9-8mm Lens	8.0 MP (4K) WDR; LightCatcher; Day/Night; Pendant Dome; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics. Must use with a H4A-MT-Wall1 or H4A-MT-NPTA1.	8.0C-H5A-DP1-IR	\$1,699.47
CR-FFKIT-SS	H5A Corner Front Faceplate replacement Kit Stainless Steel	CR-FFKIT-SS	\$368.62
CR-FFKIT-WHT	H5A Corner Front Faceplate replacement Kit White Steel	CR-FFKIT-WHT	\$294.89
H4 LPC 3MP Camera with 4.7-84.6mm Lens	H4 LPC Box Camera; 3.0 MP; 4.7-84.6mm f/1.6 lens; with visible light blocker. Must be ordered in conjunction with ES-HD-IR-IP6 and ES-HD-LP-HS.	3.0C-HD-LP-B1	\$1,038.42
H4 LPC IR Illuminator	IR Illuminator; PoE+; Outdoor; included lens option for 60°; 35°; or 10° horizontal coverage. Included mounting adapter to ES-HD-LP-HS.	ES-HD-IR-IP6	\$790.61
H4 LPC Enclosure	Standard format enclosure with heater; sunshield and PoE passthrough for a camera. PoE+ powers the camera enclosure and camera using one Ethernet connection.	ES-HD-LP-HS	\$767.02
3MP Fixed Lens Micro Bullet Imager (H5A Modular)	3MP; H5A Mod; WDR; 2.8mm Fixed Lens; f/2.0; Micro Bullet Imager Module	3C-H5MOD-MB2	\$263.94
3MP Pinhole Right Angle Imager (H5A Modular)	3MP; H5A Mod; WDR; 3.7mm Fixed Pinhole Lens; f/2.5; Right Angle Imager Module	3C-H5MOD-RP4	\$263.94
5MP Fixed Lens Micro Bullet Imager (H5A Modular)	5MP; H5A Mod; WDR; 2.8mm Fixed Lens; f/2.0; Micro Bullet Imager Module	5C-H5MOD-MB2	\$369.94
H5A Modular Main Unit - 2 Port	2 Port H5A Modular Main Unit; Next-Generation Analytics	H5A-MOD-2P	\$556.50
2x 5MP H5A Dual Head Outdoor Camera	2x 5MP H5A Dual Head Camera. Outdoor camera with built-in IR	10.0C-H5DH-DO1-IR	\$1,792.04
12MP H5A Fisheye Indoor In-Ceiling Camera	12.0 MP; Fisheye In-ceiling Camera; Day/Night; WDR; 1.6mm f/2.0; Next-Generation Analytics	12.0W-H5A-FE-DC1	\$1,307.28
12MP H5A Fisheye Dome Camera	12.0 MP; Fisheye Dome Camera; Day/Night; WDR; 1.6mm f/2.0; Next-Generation Analytics	12.0W-H5A-FE-DO1	\$1,272.57
12MP H5A Fisheye IR Dome Camera	12.0 MP; Fisheye Dome Camera; Day/Night; WDR; 1.6mm f/2.0; Next-Generation Analytics; Integrated IR	12.0W-H5A-FE-DO1-IR	\$1,330.42
4x 3MP H4 Multisensor Camera Module with 2.8mm Lens	4x 3 MP; WDR; LightCatcher; 2.8mm; Camera Only	12C-H4A-4MH-360	\$2,248.98
3x 5MP H4 Multisensor Camera Module with 4mm Lens	3x 5 MP; WDR; LightCatcher; 4mm; Camera Only	15C-H4A-3MH-180	\$2,124.04
3x 5MP H4 Multisensor Camera Module with 2.8mm Lens	3x 5 MP; WDR; LightCatcher; 2.8mm; Camera Only	15C-H4A-3MH-270	\$2,124.04
4x 5MP H4 Multisensor Camera Module with 2.8mm Lens	4x 5 MP; WDR; LightCatcher; 2.8mm; Camera Only	20C-H4A-4MH-360	\$2,478.05
3x 8MP H4 Multisensor Camera Module with 5.2mm Lens	3x 8 MP; WDR; LightCatcher; 5.2mm; Camera Only	24C-H4A-3MH-180	\$2,478.05
3x 8MP H4 Multisensor Camera Module with 4mm Lens	3x 8 MP; WDR; LightCatcher; 4mm; Camera Only	24C-H4A-3MH-270	\$2,478.05
3MP H4 Video Intercom with IR	3.0 MP; H4 Video Intercom; WDR; LightCatcher; Day/Night; 1.83mm f/2.4; Integrated IR; Recessed Mount	3.0C-H4V-RO1-IR	\$1,357.02
4x 8MP H4 Multisensor Camera Module with 4mm Lens	4x 8 MP; WDR; LightCatcher; 4mm; Camera Only	32C-H4A-4MH-360	\$2,832.06
2x 3MP H5A Dual Head Outdoor Camera	2x 3MP H5A Dual Head Camera. Outdoor camera with built-in IR	6.0C-H5DH-DO1-IR	\$1,560.66
8MP H5A Fisheye Indoor In-Ceiling Camera	8.0 MP; H5A Fisheye In-ceiling Camera; LightCatcher; Day/Night; WDR; 1.41mm f/2.0; Next-Generation Analytics	8.0C-H5A-FE-DC1	\$873.45
8MP H5A Fisheye Dome Camera	8.0 MP; H5A Fisheye Dome Camera; LightCatcher; Day/Night; WDR; 1.41mm f/2.0; Next-Generation Analytics	8.0C-H5A-FE-DO1	\$838.75
8MP H5A Fisheye IR Dome Camera	8.0 MP; H5A Fisheye Dome Camera; LightCatcher; Day/Night; WDR; 1.41mm f/2.0; Next-Generation Analytics; Integrated IR	8.0C-H5A-FE-DO1-IR	\$896.59
3x 3MP H4 Multisensor Camera Module with 4mm Lens	3x 3 MP; WDR; LightCatcher; 4mm; Camera Only	9C-H4A-3MH-180	\$1,953.97
3x 3MP H4 Multisensor Camera Module with 2.8mm Lens	3x 3 MP; WDR; LightCatcher; 2.8mm; Camera Only	9C-H4A-3MH-270	\$1,953.97
16 MP H5 Pro Box Camera	5K (16 MP) H5 Pro Camera. Lens and housing not included.	16C-H5PRO-B	\$8,850.19
26 MP H5 Pro Box Camera	6.25K (26 MP) H5 Pro Camera. Lens and housing not included.	26C-H5PRO-B	\$10,620.19
40 MP H5 Pro Box Camera	8K (40 MP) H5 Pro Camera. Lens and housing not included.	40C-H5PRO-B	\$12,980.24
61 MP H5 Pro Box Camera	10K (61 MP) H5 Pro Camera. Lens and housing not included.	61C-H5PRO-B	\$17,700.33
6 MP H5 Pro Box Camera	4K (8 MP) H5 Pro Camera. Lens and housing not included.	8C-H5PRO-B	\$3,540.06
1MP H4 IR PTZ with 45x Optical Zoom and Wiper	1MP H4 IR PTZ with Wiper 45X; Self-learning analytics; IK10; IP66; 250m IR	1.0C-H4IRPTZ-DP45-WP	\$3,617.99
2MP H4 IRPTZ with 30x Optical Zoom and Wiper	2MP H4 IR PTZ with Wiper 30X; Self-learning analytics; IK10; IP66; 250m IR	2.0C-H4IRPTZ-DP30-WP	\$3,924.67
2.0C-H5A-PTZ-DC36	H5A; 2MP 36x In-Ceiling PTZ Dome	2.0C-H5A-PTZ-DC36	\$2,820.48
2.0C-H5A-PTZ-DP36	Avigilon H5A Rugged PTZ Dome	2.0C-H5A-PTZ-DP36	\$3,139.78
2.0C-H5A-RGDPPTZ-DP36	Avigilon H5A Rugged PTZ 2MP	2.0C-H5A-RGDPPTZ-DP36	\$6,414.65
4.0C-H5A-PTZ-DC36	H5A; 4MP 36x In-Ceiling PTZ Dome	4.0C-H5A-PTZ-DC36	\$3,484.54
4.0C-H5A-PTZ-DP36	Avigilon H5A Rugged PTZ Dome	4.0C-H5A-PTZ-DP36	\$3,484.54
4.0C-H5A-RGDPPTZ-DP36	Avigilon H5A Rugged PTZ 4MP	4.0C-H5A-RGDPPTZ-DP36	\$7,484.65
8.0C-H5A-PTZ-DC36	H5A; 8MP 36x In-Ceiling PTZ Dome	8.0C-H5A-PTZ-DC36	\$4,124.29
8.0C-H5A-PTZ-DP36	H5A; 8MP 36x Pendant PTZ Dome	8.0C-H5A-PTZ-DP36	\$4,124.29
8.0C-H5A-RGDPPTZ-DP36	Avigilon H5A Rugged PTZ 8MP	8.0C-H5A-RGDPPTZ-DP36	\$8,554.65
AVCOMB100A	Communication box 220-230Vac	AVCOMB100A	\$1,385.65
AVCOMB200A	Communication box 24Vac	AVCOMB200A	\$1,385.65
AVCOMB300A	Communication box 120-127Vac	AVCOMB300A	\$1,385.65
AVOUEMAN	Maintenance Kit	AVOUEMAN	\$69.55
AVOUESUN04	Sunshield	AVOUESUN04	\$37.45
AVOUEWIPER	Wiper blade	AVOUEWIPER	\$33.17
AVSURGEPR	Lightning surge protector	AVSURGEPR	\$212.93
AVUEAC	Corner adaptor	AVUEAC	\$148.73
AVUEAP	Pole adaptor	AVUEAP	\$116.63
AVUEAW	Corner adaptor	AVUEAW	\$159.43
AVUEBP0AA	Parapet bracket	AVUEBP0AA	\$95.23
AVUEBP4AA	Parapet bracket with quick connectors	AVUEBP4AA	\$180.83
AVUEBP7AA	Parapet bracket with quick connectors	AVUEBP7AA	\$208.65
AVUEB7AA	Wall bracket	AVUEB7AA	\$95.23
AVUEB8AA	IR Illuminator 850nm	AVUEB8AA	\$326.35
AVUEB8AAP	Long distance IR Illuminator 850nm	AVUEB8AAP	\$373.43
AVUEB9AA	IR Illuminator 940nm	AVUEB9AA	\$326.35
AVUEI9AA	White light illuminator	AVUEI9AA	\$326.35
AVUEI9AAP	Long distance White Illuminator	AVUEI9AAP	\$326.35
AVUEIWAAP	Water tank 231 230Vac-24Vac-120Vac	AVUEIWAAP	\$946.85
AVWASPT0V23L11M00	Water tank 5l 230Vac-24Vac-120Vac	AVWASPT0V23L11M00	\$512.63
AVWASPT0V5L5M00	Water tank 23l 230Vac	AVWASPT0V5L5M00	\$1,642.45
AVWASPT1V23L30M00	Water tank 23l 120Vac	AVWASPT1V23L30M00	\$1,642.45
AVWASPT3V23L30M00	PoE injector 802.3bt 90V Single Port	AVWASPT3V23L30M00	\$285.69
POE-INJ-BT-90W-NA		POE-INJ-BT-90W-NA	\$285.69
QVGA H4 Bullet Camera with 18mm Lens	320x256; Thermal Outdoor Bullet; 18.0mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	320S-H4A-THC-BO12	\$5,546.10
QVGA H4 Bullet Camera with 9.1mm Lens	320x256; Thermal Outdoor Bullet; 9.1mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	320S-H4A-THC-BO24	\$4,602.09
QVGA H4 Bullet Camera with 4.3mm Lens	320x256; Thermal Outdoor Bullet; 4.3mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	320S-H4A-THC-BO50	\$4,366.08
VGA H4 Bullet Camera with 36mm Lens	640x512; Thermal Outdoor Bullet; 36.0mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	640S-H4A-THC-BO12	\$9,853.18
VGA H4 Bullet Camera with 18mm Lens	640x512; Thermal Outdoor Bullet; 18.0mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	640S-H4A-THC-BO24	\$7,198.13
VGA H4 Bullet Camera with 8.7mm Lens	640x512; Thermal Outdoor Bullet; 8.7mm f/1.0; 9Hz; NETD<60mK; Self-Learning Video Analytics	640S-H4A-THC-BO50	\$6,962.13
Elevated Temperature Detection Solution Kit	H4 Thermal Elevated Temperature Detection Solution; 640x512 Thermal Bullet Camera; Black Body; Tripod x 2	H4A-ETD-KIT	\$6,490.12
Monitor; 19"; NA	Monitor; 19"; LCD HD; SXGA	M1300	\$325.00
Monitor; 19"; AU	Monitor; 19"; LCD HD; SXGA	M1300-AU	\$325.00
Monitor; 19"; EU	Monitor; 19"; LCD HD; SXGA	M1300-EU	\$325.00
Monitor; 19"; UK	Monitor; 19"; LCD HD; SXGA	M1300-UK	\$325.00
Monitor; 32"; AU	Monitor; 32" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K32-G2-AU	\$1,805.65
Monitor; 32"; EU	Monitor; 32" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K32-G2-EU	\$1,805.65
Monitor; 32"; NA	Monitor; 32" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K32-G2-NA	\$1,805.65
Monitor; 32"; UK	Monitor; 32" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K32-G2-UK	\$1,805.65
Monitor; 43"; AU	Monitor; 43" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K43-G2-AU	\$1,694.00
Monitor; 43"; EU	Monitor; 43" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K43-G2-EU	\$1,694.00
Monitor; 43"; NA	Monitor; 43" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K43-G2-NA	\$1,694.00
Monitor; 43"; UK	Monitor; 43" LCD 4K UHD; 16:9 Widescreen Aspect Ratio	M4K43-G2-UK	\$1,694.00
Monitor; 24"; EU	Monitor; 24" LCD HD; WUXGA	MHD24-G2-EU	\$647.85
Monitor; 24"; AU G3	Monitor; 24"; HD; 16:9 Aspect Ratio	MHD24-G3-AU	\$689.00
Monitor; 24"; EU G3	Monitor; 24"; HD; 16:9 Aspect Ratio	MHD24-G3-EU	\$689.00
Monitor; 24"; NA G3	Monitor; 24"; HD; 16:9 Aspect Ratio	MHD24-G3-NA	\$689.00
Monitor; 24"; UK G3	Monitor; 24"; HD; 16:9 Aspect Ratio	MHD24-G3-UK	\$689.00
Joystick	Programmable USB Surveillance Joystick for controlling digital and conventional PTZ within Avigilon Control Center	ACC-USB-JOY	\$723.06
Joystick; Professional Version	Fully configured Professional USB Surveillance joystick for full control of Avigilon Control Center including shuttle playback control and digital and conventional PTZ.	ACC-USB-JOY-PRO	\$1,093.25
Remote Monitoring Workstation; 2 Monitors; AU	Remote Monitoring Workstation; 2 Monitors; AU	RM6-WKS-2MN-AU	\$2,313.77

Remote Monitoring Workstation; 2 Monitors; EU	Remote Monitoring Workstation; 2 Monitors; EU	RM6-WKS-2MN-EU	\$2,313.77
Remote Monitoring Workstation; 2 Monitors; NA	Remote Monitoring Workstation; 2 Monitors; NA	RM6-WKS-2MN-NA	\$2,313.77
Remote Monitoring Workstation; 2 Monitors; UK	Remote Monitoring Workstation; 2 Monitors; UK	RM6-WKS-2MN-UK	\$2,313.77
Remote Monitoring Workstation; 4 Monitors; AU	Remote Monitoring Workstation; 4 Monitors; AU	RM6-WKS-4MN-AU	\$3,632.84
Remote Monitoring Workstation; 4 Monitors; EU	Remote Monitoring Workstation; 4 Monitors; EU	RM6-WKS-4MN-EU	\$3,632.84
Remote Monitoring Workstation; 4 Monitors; NA	Remote Monitoring Workstation; 4 Monitors; NA	RM6-WKS-4MN-NA	\$3,632.84
Remote Monitoring Workstation; 4 Monitors; UK	Remote Monitoring Workstation; 4 Monitors; UK	RM6-WKS-4MN-UK	\$3,632.84
POE Extender	Single port 100Mbps POE Extender for extending Cat 5 beyond the 100m cable limit.	EX1	\$359.80
POE++ Injector; 802.3bt; 60W; NA	Indoor single port Gigabit PoE++ 60W; 802.3bt compliant; North American power cord included. May be used in USA; Canada; European Union; Australia; New Zealand and UK. Temperature range of the PoE injector is -10C to +40C (14 °F to 104 °F). Compatible only with cameras requiring the 802.3bt PoE ++ standard.	POE-INJ-BT-60W-NA	\$177.00
POE++ Injector; 60W; NA	Indoor single port Gigabit PoE++ 60W; North American power cord included. May also be used in European Union; Japan; Australia; New Zealand; Mexico; China; South Korea; Russia; Argentina; Saudi Arabia; Kuwait; UAE and Brazil. Temperature range of the PoE injector is -10C to +45C (14 °F to 113 °F). When used with the H4 IR PTZ; the camera will operate in a reduced temperature range from -10 °C to +50 °C (14 °F to 122 °F).	POE-INJ2-60W-NA	\$177.00
POE Injector; 95W; NA	Indoor single Port PoE Injector Gigabit; 95W; NA power cord; for use with H4IR PTZ - indoor installation rated. Temperature range of the PoE injector is -10C to +45C. Compatible with power cord with C13 on one side and with country specific plug on the other side. Countries supported: USA; Canada; Mexico; Puerto Rico; Aruba; Trinidad;Tobago; United Kingdom; France; Germany; Portugal; Spain; Italy; Iceland; Ireland; Switzerland; Denmark; Finland; Poland; Norway; Belgium; Croatia; Slovenia; Georgia; Australia; New Zealand; Cyprus; Jordan; Qatar; Qatar; Bahrain; Utd. Arab Emirate; Chile; Colombia; Bolivia; Costa Rica; Honduras; Panama; Paraguay; Brazil; Sierra Leone; Zambia; Namibia; Ghana; Mauritius; Vietnam; Thailand; Philippines; Fiji; Pap. New Guinea	POE-INJ2-95W-NA	\$472.01
POE+ Injector; AU	Indoor single port POE+ injector; for use with H4 PTZ in-ceiling or pendant variants in temperature range of -10°C to +50°C (14°F to 122°F); compatible with indoor (in-ceiling) models or outdoor models installed in temperature range of -10°C to +50°C (14°F to 122°F). AU power cord. Injector temperature range -20°C to +40°C (-4°F to 104°F).	POE-INJ2-PLUS-AU	\$88.50
POE+ Injector; NA	Indoor single port POE+ injector; for use with H4 PTZ in-ceiling or pendant variants in temperature range of -10°C to +50°C (14°F to 122°F); compatible with indoor (in-ceiling) models or outdoor models installed in temperature range of -10°C to +50°C (14°F to 122°F). NA power cord. Injector temperature range -20°C to +40°C (-4°F to 104°F).	POE-INJ2-PLUS-NA	\$88.50
POE+ Injector; UK	Indoor single port POE+ injector; for use with H4 PTZ in-ceiling or pendant variants in temperature range of -10°C to +50°C (14°F to 122°F); compatible with indoor (in-ceiling) models or outdoor models installed in temperature range of -10°C to +50°C (14°F to 122°F). UK power cord. Injector temperature range -20°C to +40°C (-4°F to 104°F).	POE-INJ2-PLUS-UK	\$88.50
POE Injector; AU	Indoor single port Gigabit 802.3af PoE injector; Class 3 - AU power cord. Injector temperature range 0°C to +40°C (32°F to 104°F).	POE-INJ2-STD-AU	\$82.61
POE Injector; NA	Indoor single port Gigabit 802.3af PoE injector; Class 3 - NA power cord. Injector temperature range 0°C to +40°C (32°F to 104°F).	POE-INJ2-STD-NA	\$82.61
POE Injector; UK	Indoor single port Gigabit 802.3af PoE injector; Class 3 - UK power cord. Injector temperature range 0°C to +40°C (32°F to 104°F).	POE-INJ2-STD-UK	\$82.61
28-port Gigabit Managed Switch (24 PoE+ budget 370W; 4 Gigabit SFP) - NA	28-port Gigabit Managed Switch (24 PoE+ budget 370W; 4 Gigabit SFP) - NA	CBS350-24FP-4G-NA	\$2,342.12
10-port Gigabit Managed Switch (8 PoE+ budget 120W; 2 copper/SFP combo) - NA	10-port Gigabit Managed Switch (8 PoE+ budget 120W; 2 copper/SFP combo) - NA	CBS350-8FP-E-2G-NA	\$918.70
Pole mount bracket for ES-PS-S4 switch.	Pole mount bracket for ES-PS-S4 switch.	ES-PS-MNT-POLE	\$80.98
Managed switch; 5 port (No Power Cord)	Managed switch; 5 port; Outdoor IP66; -40°C (-40°F) to 50°C (122°F); Gigabit Ethernet; AC power input. 1x SFP uplink and 4 port RJ45. No power cord. Maximum PoE power allocation: Up to 4 ports of PoE+ each; or 2 ports of 60W PoE each. In 60W PoE mode; compatible with all H4 PTZ and H4 IR PTZ.	ES-PS-S4-NPC	\$1,814.72
24-Port Gigabit Managed Switch (24) PoE+ budget 370W; (2) SFP - NA	24-Port Gigabit Managed Switch (24) PoE+ budget 370W; (2) SFP - NA	SM24TAT2SA-NA	\$1,605.90
8-Port Gigabit Managed Switch (8) PoE+ budget 130W; (2) SFP - NA	8-Port Gigabit Managed Switch (8) PoE+ budget 130W; (2) SFP - NA	SM8TAT2SA-NA	\$810.90
ACC-CCURE-ALARM-2.90	CCure v2.90 Alarm Integration	ACC-CCURE-ALARM-2.90	\$2,728.50
ACC-CCURE-ALARM-2.90-P	CCure v2.90 Alarm Integration; printed	ACC-CCURE-ALARM-2.90-P	\$2,728.50
ACC-CCURE-VIDEO-2.90	CCure v2.90 Video Integration	ACC-CCURE-VIDEO-2.90	\$2,728.50
ACC-CCURE-VIDEO-2.90-P	CCure v2.90 Video Integration; printed	ACC-CCURE-VIDEO-2.90-P	\$2,728.50
ACC Enterprise Smart Plan; 1 year	ACC Enterprise Smart Plan; 1 year	ACC-ENT-SMART-1YR	\$32.10
ACC Enterprise Smart Plan; 3 year	ACC Enterprise Smart Plan; 3 year	ACC-ENT-SMART-3YR	\$69.55
ACC Enterprise Smart Plan; 5 year	ACC Enterprise Smart Plan; 5 year	ACC-ENT-SMART-5YR	\$107.00
SERIAL SERVER; 2-PORT; RS232 to Avigilon	Avigilon 2 port serial Server	ACC-POS-HW-2S	\$559.89
ACC Standard Smart Plan; 1 year	ACC Standard Smart Plan; 1 year	ACC-STD-SMART-1YR	\$16.05
ACC Standard Smart Plan; 3 year	ACC Standard Smart Plan; 3 year	ACC-STD-SMART-3YR	\$42.80
ACC Standard Smart Plan; 5 year	ACC Standard Smart Plan; 5 year	ACC-STD-SMART-5YR	\$64.20
ACC 5 COR 4T05 UPG	ACC 4 to 5 Core Version Upgrade	ACC5-4T05-COR-UPG	\$103.68
ACC 5 ENT 4T05 UPG	ACC 4 to 5 Enterprise Version Upgrade	ACC5-4T05-ENT-UPG	\$365.62
ACC 5 STD 4T05 UPG	ACC 4 to 5 Standard Version Upgrade	ACC5-4T05-STD-UPG	\$201.91
ACC6 Amag Symmetry Integ.	ACC6 Amag Symmetry Integ.	ACC6-AMAG-SMTRY	\$2,728.50
ACC6 Amag Symmetry Integ. +media	ACC6 Amag Symmetry Integ. +media	ACC6-AMAG-SMTRY-M	\$2,728.50
ACC6 Gallagher CmdC Integ.	ACC6 Gallagher CmdC Integ.	ACC6-GLGR-CMND	\$2,728.50
ACC6 Gallagher CmdC Integ. +media	ACC6 Gallagher CmdC Integ. +media	ACC6-GLGR-CMND-M	\$2,728.50
ACC6 Hirsch Velocity Integ.	ACC6 Hirsch Velocity Integ.	ACC6-HRSH-VLCTY	\$2,728.50
ACC6 Hirsch Velocity Integ. +media	ACC6 Hirsch Velocity Integ. +media	ACC6-HRSH-VLCTY-M	\$2,728.50
ACC6 Interlogix Forcefield Integ.	ACC6 Interlogix Forcefield Integ.	ACC6-INTX-FORCE	\$2,728.50
ACC6 Interlogix Forcefield Integ. +media	ACC6 Interlogix Forcefield Integ. +media	ACC6-INTX-FORCE-M	\$2,728.50
ACC6 Jacques Intercom Integ.	ACC6 Jacques Intercom Integ.	ACC6-JAQS-INTCM	\$2,728.50
ACC6 Jacques Intercom Integ. +media	ACC6 Jacques Intercom Integ. +media	ACC6-JAQS-INTCM-M	\$2,728.50
ACC6 Lenel OnGuard Integ.	ACC6 Lenel OnGuard Integ.	ACC6-LENL-ONGRD	\$2,728.50
ACC6 Lenel OnGuard Integ. +media	ACC6 Lenel OnGuard Integ. +media	ACC6-LENL-ONGRD-M	\$2,728.50
ACC6 Paxton Net2 Integ.	ACC6 Paxton Net2 Integ.	ACC6-PXTN-NET2	\$2,728.50
ACC6 Paxton Net2 Integ. +media	ACC6 Paxton Net2 Integ. +media	ACC6-PXTN-NET2-M	\$2,728.50
ACC6 S2 Netbox Integ.	ACC6 S2 Netbox Integ.	ACC6-S2-NETBX	\$2,728.50
ACC6 S2 Netbox Integ. +media	ACC6 S2 Netbox Integ. +media	ACC6-S2-NETBX-M	\$2,728.50
ACC6 Stentofon Intercom Integ.	ACC6 Stentofon Intercom Integ.	ACC6-STFN-ALPHA	\$2,728.50
ACC6 Stentofon Intercom Integ. +media	ACC6 Stentofon Intercom Integ. +media	ACC6-STFN-ALPHA-M	\$2,728.50
ACC6 SWHS CCure 9000 2.80 or earlier Integ.	ACC6 SWHS CCure 9000 2.80 or earlier Integ.	ACC6-SWHS-CCURE	\$2,728.50
ACC6 SWHS CCure 9000 2.80 or earlier Integ. +media	ACC6 SWHS CCure 9000 2.80 or earlier Integ. +media	ACC6-SWHS-CCURE-M	\$2,728.50
ACC 7 Core camera channel	ACC 7 Core camera channel	ACC7-COR	\$92.77
ACC 7 Core camera channel; printed	ACC 7 Core camera channel; printed	ACC7-COR-P	\$92.77
ACC 7 CORE to ENT Edition UPG	ACC 7 CORE to ENT Edition UPG	ACC7-COR-TO-ENT-UPG	\$245.57
ACC 7 CORE to ENT Edition UPG; printed	ACC 7 CORE to ENT Edition UPG; printed	ACC7-COR-TO-ENT-UPG-P	\$245.57
ACC 7 CORE to STD Edition UPG	ACC 7 CORE to STD Edition UPG	ACC7-COR-TO-STD-UPG	\$114.60
ACC 7 CORE to STD Edition UPG; printed	ACC 7 CORE to STD Edition UPG; printed	ACC7-COR-TO-STD-UPG-P	\$114.60
ACC 7 Enterprise camera channel	ACC 7 Enterprise camera channel	ACC7-ENT	\$316.51
ACC 7 ENT failover channel	ACC 7 ENT failover channel	ACC7-ENT-FO	\$49.11
ACC 7 ENT failover channel; printed	ACC 7 ENT failover channel; printed	ACC7-ENT-FO-P	\$49.11
ACC 7 Enterprise camera channel; printed	ACC 7 Enterprise camera channel; printed	ACC7-ENT-P	\$316.51
ACC7 Face channel	ACC7 Face channel	ACC7-FACE	\$1,637.10
ACC7 Face channel 10 pack	ACC7 Face channel 10 pack	ACC7-FACE-10C	\$5,457.00
ACC7 Face channel 10 pack; printed	ACC7 Face channel 10 pack; printed	ACC7-FACE-10C-P	\$5,457.00
ACC7 Face channel; printed	ACC7 Face channel; printed	ACC7-FACE-P	\$1,637.10
ACC 7 LPR lane	ACC 7 LPR lane	ACC7-LPR	\$3,492.48
ACC 7 LPR lane; printed	ACC 7 LPR lane; printed	ACC7-LPR-P	\$3,492.48
ACC 7 Media	ACC 7 Media	ACC7-MEDIA	\$21.83
ACC 7 Point of Sale stream	ACC 7 Point of Sale stream	ACC7-POS-STR	\$245.57
ACC 7 Point of Sale stream; printed	ACC 7 Point of Sale stream; printed	ACC7-POS-STR-P	\$245.57
ACC7 Radio Alert	ACC7 Radio Alert	ACC7-RADIO-ALERT	\$1,637.10
ACC7 Radio Alert; printed	ACC7 Radio Alert; printed	ACC7-RADIO-ALERT-P	\$1,637.10

ACC 7 Standard camera channel	ACC 7 Standard camera channel	ACC7-STD	\$180.08
ACC 7 Standard camera channel; printed	ACC 7 Standard camera channel; printed	ACC7-STD-P	\$180.08
ACC 7 STD to ENT Edition UPG	ACC 7 STD to ENT Edition UPG	ACC7-STD-TO-ENT-UPG	\$191.00
ACC 7 STD to ENT Edition UPG; printed	ACC 7 STD to ENT Edition UPG; printed	ACC7-STD-TO-ENT-UPG-P	\$191.00
ACC7 Video Analytics channel	ACC7 Video Analytics channel	ACC7-VAC	\$327.42
ACC7 Video Analytics channel; printed	ACC7 Video Analytics channel; printed	ACC7-VAC-P	\$327.42
VIG-ACI-CPL	One (1) Vigilant ClientPortal limited account. (US Only)	VIG-ACI-CPL	\$0.00
VIG-ACI-CPS	One (1) Avigilon camera channel in an existing ClientPortal account for sole purpose of sharing with Law Enforcement Agencies. US only.	VIG-ACI-CPS	\$0.00
AI NVR Keep Your Drive Warranty; 5YR	5 Year Keep Your Drive Warranty; All AI NVR Models	AINVR-KYD-WARR-5YR	\$1,156.88
4Hr Mission Critical Upgrade for AI NVR Premium	Upgrade the 5 year NBD warranty that comes with AI NVR Premium or AI NVR Premium+ to 5 year 4HMC	AINVR-PRM-WARR-5Y4HMC	\$4,627.54
4Hr Mission Critical Upgrade for AI NVR Standard	Upgrade the 5 year NBD warranty that comes with AI NVR Standard to 5 year 4HMC	AINVR-STD-WARR-5Y4HMC	\$2,892.21
4Hr Mission Critical Upgrade for AI NVR Value	Upgrade the 5 year NBD warranty that comes with AI NVR Value to 5 year 4HMC	AINVR-VAL-WARR-5Y4HMC	\$1,619.64
1YR Warranty Extension; AVA	1 Year Warranty Extension for Avigilon Video Archive	AVA-WARR-EXTEND-1YR	\$7,717.10
2YR Warranty Extension; AVA	2 Year Warranty Extension for Avigilon Video Archive	AVA-WARR-EXTEND-2YR	\$15,433.06
1YR Keep Your Drive Warranty	1 Year Keep Your Drive Warranty; All NVR Models	HD-NVR-KYD-WARR-1YR	\$387.56
2YR Keep Your Drive Warranty	2 Year Keep Your Drive Warranty; All NVR Models	HD-NVR-KYD-WARR-2YR	\$578.44
3YR Keep Your Drive Warranty	3 Year Keep Your Drive Warranty; All NVR Models	HD-NVR-KYD-WARR-3YR	\$769.33
4YR Keep Your Drive Warranty	4 Year Keep Your Drive Warranty; All NVR Models	HD-NVR-KYD-WARR-4YR	\$966.00
5YR Keep Your Drive Warranty	5 Year Keep Your Drive Warranty; All NVR Models	HD-NVR-KYD-WARR-5YR	\$1,156.88
2YR Warranty Extension; NVR1	2 Year Warranty Extension for NVR1	HD-NVR-WARR-EXTEND-2YR	\$4,290.68
2YR Warranty Extension; NVR2	2 Year Warranty Extension for NVR2	HD-NVR2-WARR-EXTEND-2YR	\$3,237.01
2YR Warranty Extension; NVR3 Premium	2 Year Warranty Extension for NVR3 Premium	HD-NVR3-PRM-WARR-EXTEND-2YR	\$4,627.54
2YR Warranty Extension; NVR3 Standard	2 Year Warranty Extension for NVR3 Standard	HD-NVR3-STD-WARR-EXTEND-2YR	\$2,892.21
2YR Warranty Extension; NVR3 Value	2 Year Warranty Extension for NVR3 Value	HD-NVR3-VAL-WARR-EXTEND-2YR	\$1,932.68
2YR Warranty Extension; NVR3 Value; Gen2	2 Year Warranty Extension for NVR3 Value	HD-NVR3-VAL-WARR-EXTEND-2YR-G2	\$1,932.68
2YR Warranty Extension; NVR4 Premium	2 Year Warranty Extension for NVR4 Premium	HD-NVR4-PRM-WARR-EXTEND-2YR	\$4,627.54
2YR Warranty Extension; NVR4 Standard	2 Year Warranty Extension for NVR4 Standard	HD-NVR4-STD-WARR-EXTEND-2YR	\$2,892.21
2YR Warranty Extension; HD-NVRWS	2 Year Warranty Extension for HD-NVRWS	HD-NVRWS-WARR-EXTEND-2YR	\$828.33
2YR Warranty Extension; HD-NVRWS3	2 Year Warranty Extension for HD-NVRWS3	HD-NVRWS3-WARR-EXTEND-2YR	\$828.33
2YR Warranty Extension; 2MN-HD-RMWS	2 Year Warranty Extension for 2MN-HD-RMWS	HD-RMWS-2MN-WARR-EXTEND-2YR	\$828.33
2YR Warranty Extension; 4MN-HD-RMWS	2 Year Warranty Extension for 4MN-HD-RMWS	HD-RMWS-4MN-WARR-EXTEND-2YR	\$751.97
2YR Warranty Extension; HD-RMWS3-2MN	2 Year Warranty Extension for HD-RMWS3-2MN	HD-RMWS3-2MN-WARR-EXTEND-2YR	\$828.33
2YR Warranty Extension; HD-RMWS3-4MN	2 Year Warranty Extension for HD-RMWS3-4MN	HD-RMWS3-4MN-WARR-EXTEND-2YR	\$751.97
2YR Warranty Extension; HD-RMWS4-4MN	2 Year Warranty Extension for HD-RMWS4-4MN	HD-RMWS4-4MN-WARR-EXTEND-2YR	\$751.97
NVR-KYD-WARR-1YR-A	1 Yr Keep Your Drive Wty;NVR5 STD/PRM 16-224 TB	NVR-KYD-WARR-1YR-A	\$387.56
NVR-KYD-WARR-2YR-A	2 Yr Keep Your Drive Wty;NVR5 STD/PRM 16-224 TB	NVR-KYD-WARR-2YR-A	\$578.44
NVR-KYD-WARR-3YR-A	3 Yr Keep Your Drive Wty;NVR5 STD/PRM 16-224 TB	NVR-KYD-WARR-3YR-A	\$769.33
NVR-KYD-WARR-4YR-A	4 Yr Keep Your Drive Wty;NVR5 STD/PRM 16-224 TB	NVR-KYD-WARR-4YR-A	\$966.00
NVR-KYD-WARR-5YR-A	5 Yr Keep Your Drive Wty;NVR5 STD/PRM 16-224 TB	NVR-KYD-WARR-5YR-A	\$1,156.88
2YR Warranty Extension; NVR4 Value	2 Year Warranty Extension for NVR4 Value	NVR4-VAL-WARR-EXTEND-2YR	\$1,156.88
2YR Warranty Extension; NVR4-WKS or RM5-WKS	2 Year Warranty Extension for NVR4-WKS or RM5-WKS	NVR4-WKS-WARR-EXTEND-2YR	\$445.40
Warranty Upgrade to 4HMC for NVR4X Premium (64TB; 96TB; 128TB; 157TB)	Upgrade the 5 Year Next Business Day warranty to 5 Years 4 Hour Mission Critical for NVR4X PRM 64/96/128/157TB	NVR4X-PRM1-WARR-5Y4HMC	\$4,627.54
Warranty Upgrade to 4HMC for NVR4X Premium (192TB; 217TB)	Upgrade the 5 Year Next Business Day warranty to 5 Years 4 Hour Mission Critical for NVR4X PRM 192/217TB	NVR4X-PRM2-WARR-5Y4HMC	\$4,627.54
Warranty Upgrade to 4HMC for NVR4X Standard	Upgrade the 5 Year Next Business Day warranty to 5 Years 4 Hour Mission Critical for NVR4X STD.	NVR4X-STD-WARR-5Y4HMC	\$2,892.21
2 Year Extended Warranty for NVR4X Workstations	2 Year Extended Warranty for NVR4X Workstations	NVR4X-WKS-WARR-EXTEND-2YR	\$445.74
NVR5-PRM1-WARR-5Y4HMC-EDU	WARR;UPG 5Y4HMC; 96-160TB;NVR5 PRM;EDU	NVR5-PRM1-WARR-5Y4HMC-EDU	\$10,752.64
NVR5-PRM1-WARR-5YNBD-EDU	WARRANTY;UPG 2 NBD;96-160TB;NVR5 PRM;EDU	NVR5-PRM1-WARR-5YNBD-EDU	\$6,124.68
NVR5-PRM2-WARR-5Y4HMC-EDU	WARR;UPG 5Y4HMC;192/224TB;NVR5 PRM;EDU	NVR5-PRM2-WARR-5Y4HMC-EDU	\$10,752.64
NVR5-PRM2-WARR-5YNBD-EDU	WARRANTY;UPG 2 NBD;192/224TB;NVR5 PRM;EDU	NVR5-PRM2-WARR-5YNBD-EDU	\$6,124.68
NVR5-STD-WARR-5Y4HMC	WARRANTY;UPG to 4HR; NVR5 STD	NVR5-STD-WARR-5Y4HMC	\$2,892.74
NVR5-STD-WARR-5YNBD-EDU	WARRANTY;UPG 2 NBD;NVR5 STD;EDU	NVR5-STD-WARR-5YNBD-EDU	\$2,835.50
2 Year Extended Warranty for RM5-WKS	2 Year Extended Warranty for RM5-WKS	RM5-WKS-WARR-EXTENDED-2YR	\$445.40
2 Year Extended Warranty for RM6 Workstations	2 Year Extended Warranty for RM6 Workstations	RM6-WKS-WARR-EXTEND-2YR	\$445.74
1YR Warranty Extension for HDVA3 16-Port	1YR Warranty Extension for HDVA3 16-Port	VMA-AS3-16P-WARR-EXTEND-1YR	\$387.56
2YR Warranty Extension for HDVA3 16-Port	2YR Warranty Extension for HDVA3 16-Port	VMA-AS3-16P-WARR-EXTEND-2YR	\$723.06
1YR Warranty Extension for HDVA3 24-Port	1YR Warranty Extension for HDVA3 24-Port	VMA-AS3-24P-WARR-EXTEND-1YR	\$578.44
2YR Warranty Extension for HDVA3 24-Port	2YR Warranty Extension for HDVA3 24-Port	VMA-AS3-24P-WARR-EXTEND-2YR	\$1,110.60
1YR Warranty Extension for HDVA3 8-Port	1YR Warranty Extension for HDVA3 8-Port	VMA-AS3-8P-WARR-EXTEND-1YR	\$190.88
2YR Warranty Extension for HDVA3 8-Port	2YR Warranty Extension for HDVA3 8-Port	VMA-AS3-8P-WARR-EXTEND-2YR	\$347.07
2YR Warranty Extension for ES 8-Port Appliance	Can be applied to VMA-ENVR1-8Px; VMA-ENVR1-8PxA; or VMA-ENVR1-8PxB	VMA-ENVR1-8P-WARR-EXTEND-2YR	\$462.75
NVR4 Premium 157TB; Windows Server 2016; UK	NVR4 Premium 157TB; 2U Rack Mount; Windows Server 2016; UK	HD-NVR4-PRM-157TB-UK	\$59,502.00
NVR4 Premium 192TB; Windows Server 2016; AU	NVR4 Premium 192TB; 2U Rack Mount; Windows Server 2016; AU	HD-NVR4-PRM-192TB-AU	\$82,717.21
NVR4 Value 12TB; Windows 10; AU	NVR4 Value 12TB; 1U Rack Mount; Windows 10; AU	NVR4-VAL-12TB-AU	\$5,814.00
NVR4 Value 12TB; Windows 10; EU	NVR4 Value 12TB; 1U Rack Mount; Windows 10; EU	NVR4-VAL-12TB-EU	\$5,814.00
NVR4 Value 12TB; Windows 10; NA	NVR4 Value 12TB; 1U Rack Mount; Windows 10; NA	NVR4-VAL-12TB-NA	\$5,814.00
NVR4 Value 12TB; Windows 10; UK	NVR4 Value 12TB; 1U Rack Mount; Windows 10; UK	NVR4-VAL-12TB-UK	\$5,814.00
NVR4 Value 16TB; Windows 10; AU	NVR4 Value 16TB; 1U Rack Mount; Windows 10; AU	NVR4-VAL-16TB-AU	\$6,885.00
NVR4 Value 16TB; Windows 10; EU	NVR4 Value 16TB; 1U Rack Mount; Windows 10; EU	NVR4-VAL-16TB-EU	\$6,885.00
NVR4 Value 16TB; Windows 10; NA	NVR4 Value 16TB; 1U Rack Mount; Windows 10; NA	NVR4-VAL-16TB-NA	\$6,885.00
NVR4 Value 16TB; Windows 10; UK	NVR4 Value 16TB; 1U Rack Mount; Windows 10; UK	NVR4-VAL-16TB-UK	\$6,885.00
NVR4 Value 24TB; Windows 10; AU	NVR4 Value 24TB; 1U Rack Mount; Windows 10; AU	NVR4-VAL-24TB-AU	\$10,251.00
NVR4 Value 24TB; Windows 10; EU	NVR4 Value 24TB; 1U Rack Mount; Windows 10; EU	NVR4-VAL-24TB-EU	\$10,251.00
NVR4 Value 24TB; Windows 10; NA	NVR4 Value 24TB; 1U Rack Mount; Windows 10; NA	NVR4-VAL-24TB-NA	\$10,251.00

NVR4 Value 24TB; Windows 10; UK	NVR4 Value 24TB; 1U Rack Mount; Windows 10; UK	NVR4-VAL-24TB-UK	\$10,251.00
NVR4 Value 6TB; Windows 10; AU	NVR4 Value 6TB; 1U Rack Mount; Windows 10; AU	NVR4-VAL-6TB-AU	\$4,590.00
NVR4 Value 6TB; Windows 10; EU	NVR4 Value 6TB; 1U Rack Mount; Windows 10; EU	NVR4-VAL-6TB-EU	\$4,590.00
NVR4 Value 6TB; Windows 10; NA	NVR4 Value 6TB; 1U Rack Mount; Windows 10; NA	NVR4-VAL-6TB-NA	\$4,590.00
NVR4 Value 6TB; Windows 10; UK	NVR4 Value 6TB; 1U Rack Mount; Windows 10; UK	NVR4-VAL-6TB-UK	\$4,590.00
NVR4X Premium - FIPS Series; 128TB; Windows Server 2016; NA	NVR4X Premium - FIPS Series; 128TB; Windows Server 2016; NA. Avigilon is currently only selling "NA" models; please add a note on the PO to request additional power cords (EU; AU; UK) if needed. These NVRs are built to order and have a longer lead time. Check with your local sales reps for more information on ship times.	NVR4X-PRM-FIPS-128TB-NA	\$57,700.16
NVR4X Premium - FIPS Series; 157TB; Windows Server 2016; NA	NVR4X Premium - FIPS Series; 157TB; Windows Server 2016; NA. Avigilon is currently only selling "NA" models; please add a note on the PO to request additional power cords (EU; AU; UK) if needed. These NVRs are built to order and have a longer lead time. Check with your local sales reps for more information on ship times.	NVR4X-PRM-FIPS-157TB-NA	\$69,469.75
NVR4X Premium - FIPS Series; 64TB; Windows Server 2016; NA	NVR4X Premium - FIPS Series; 64TB; Windows Server 2016; NA. Avigilon is currently only selling "NA" models; please add a note on the PO to request additional power cords (EU; AU; UK) if needed. These NVRs are built to order and have a longer lead time. Check with your local sales reps for more information on ship times.	NVR4X-PRM-FIPS-64TB-NA	\$37,656.57
NVR4X Premium - FIPS Series; 96TB; Windows Server 2016; NA	NVR4X Premium - FIPS Series; 96TB; Windows Server 2016; NA. Avigilon is currently only selling "NA" models; please add a note on the PO to request additional power cords (EU; AU; UK) if needed. These NVRs are built to order and have a longer lead time. Check with your local sales reps for more information on ship times.	NVR4X-PRM-FIPS-96TB-NA	\$43,730.22
NVR4X Standard 16TB 2U Rack Mnt; Windows 10; AU	NVR4X Standard 16TB 2U Rack Mnt; Windows 10; AU	NVR4X-STD-16TB-AU	\$13,388.00
NVR4X Standard 16TB 2U Rack Mnt; Windows 10; EU	NVR4X Standard 16TB 2U Rack Mnt; Windows 10; EU	NVR4X-STD-16TB-EU	\$13,388.00
NVR4X Standard 16TB 2U Rack Mnt; Windows 10; NA	NVR4X Standard 16TB 2U Rack Mnt; Windows 10; NA	NVR4X-STD-16TB-NA	\$13,388.00
NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; AU	NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; AU	NVR4X-STD-16TB-S16-AU	\$15,428.00
NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; EU	NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; EU	NVR4X-STD-16TB-S16-EU	\$15,428.00
NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; NA	NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; NA	NVR4X-STD-16TB-S16-NA	\$15,428.00
NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; UK	NVR4X Standard 16TB 2U Rack Mnt; Windows Server 2016; UK	NVR4X-STD-16TB-S16-UK	\$15,428.00
NVR4X Standard 16TB 2U Rack Mnt; Windows 10; UK	NVR4X Standard 16TB 2U Rack Mnt; Windows 10; UK	NVR4X-STD-16TB-UK	\$13,388.00
NVR4X Standard 24TB 2U Rack Mnt; Windows 10; AU	NVR4X Standard 24TB 2U Rack Mnt; Windows 10; AU	NVR4X-STD-24TB-AU	\$15,372.00
NVR4X Standard 24TB 2U Rack Mnt; Windows 10; EU	NVR4X Standard 24TB 2U Rack Mnt; Windows 10; EU	NVR4X-STD-24TB-EU	\$15,372.00
NVR4X Standard 24TB 2U Rack Mnt; Windows 10; NA	NVR4X Standard 24TB 2U Rack Mnt; Windows 10; NA	NVR4X-STD-24TB-NA	\$15,372.00
NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; AU	NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; AU	NVR4X-STD-24TB-S16-AU	\$17,412.00
NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; EU	NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; EU	NVR4X-STD-24TB-S16-EU	\$17,412.00
NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; NA	NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; NA	NVR4X-STD-24TB-S16-NA	\$17,412.00
NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; UK	NVR4X Standard 24TB 2U Rack Mnt; Windows Server 2016; UK	NVR4X-STD-24TB-S16-UK	\$17,412.00
NVR4X Standard 24TB 2U Rack Mnt; Windows 10; UK	NVR4X Standard 24TB 2U Rack Mnt; Windows 10; UK	NVR4X-STD-24TB-UK	\$15,372.00
NVR4X Workstation 4TB; Windows 10; AU	NVR4X Workstation 4TB; Windows 10; AU	NVR4X-WKS-4TB-AU	\$2,701.66
NVR4X Workstation 4TB; Windows 10; EU	NVR4X Workstation 4TB; Windows 10; EU	NVR4X-WKS-4TB-EU	\$2,701.66
NVR4X Workstation 4TB; Windows 10; NA	NVR4X Workstation 4TB; Windows 10; NA	NVR4X-WKS-4TB-NA	\$2,701.66
NVR4X Workstation 4TB; Windows 10; UK	NVR4X Workstation 4TB; Windows 10; UK	NVR4X-WKS-4TB-UK	\$2,701.66
NVR4X Workstation 8TB; Windows 10; AU	NVR4X Workstation 8TB; Windows 10; AU	NVR4X-WKS-8TB-AU	\$3,089.56
NVR4X Workstation 8TB; Windows 10; EU	NVR4X Workstation 8TB; Windows 10; EU	NVR4X-WKS-8TB-EU	\$3,089.56
NVR4X Workstation 8TB; Windows 10; NA	NVR4X Workstation 8TB; Windows 10; NA	NVR4X-WKS-8TB-NA	\$3,089.56
NVR4X Workstation 8TB; Windows 10; UK	NVR4X Workstation 8TB; Windows 10; UK	NVR4X-WKS-8TB-UK	\$3,089.56
NVR5-PRM-128TB-S19-AU	NVR5 PRM 128TB 2U Rack Mnt; WS19 AU	NVR5-PRM-128TB-S19-AU	\$54,952.52
NVR5-PRM-128TB-S19-EU	NVR5 PRM 128TB 2U Rack Mnt; WS19 EU	NVR5-PRM-128TB-S19-EU	\$54,952.52
NVR5-PRM-128TB-S19-NA	NVR5 PRM 128TB 2U Rack Mnt; WS19 NA	NVR5-PRM-128TB-S19-NA	\$54,952.52
NVR5-PRM-128TB-S19-UK	NVR5 PRM 128TB 2U Rack Mnt; WS19 UK	NVR5-PRM-128TB-S19-UK	\$54,952.52
NVR5-PRM-160TB-S19-AU	NVR5 PRM 160TB 2U Rack Mnt; WS19 AU	NVR5-PRM-160TB-S19-AU	\$67,484.90
NVR5-PRM-160TB-S19-EU	NVR5 PRM 160TB 2U Rack Mnt; WS19 EU	NVR5-PRM-160TB-S19-EU	\$67,484.90
NVR5-PRM-160TB-S19-NA	NVR5 PRM 160TB 2U Rack Mnt; WS19 NA	NVR5-PRM-160TB-S19-NA	\$67,484.90
NVR5-PRM-160TB-S19-UK	NVR5 PRM 160TB 2U Rack Mnt; WS19 UK	NVR5-PRM-160TB-S19-UK	\$67,484.90
NVR5-PRM-192TB-S19-AU	NVR5 PRM 192TB 2U Rack Mnt; WS19 AU	NVR5-PRM-192TB-S19-AU	\$82,717.10
NVR5-PRM-192TB-S19-EU	NVR5 PRM 192TB 2U Rack Mnt; WS19 EU	NVR5-PRM-192TB-S19-EU	\$82,717.10
NVR5-PRM-192TB-S19-NA	NVR5 PRM 192TB 2U Rack Mnt; WS19 NA	NVR5-PRM-192TB-S19-NA	\$82,717.10
NVR5-PRM-192TB-S19-UK	NVR5 PRM 192TB 2U Rack Mnt; WS19 UK	NVR5-PRM-192TB-S19-UK	\$82,717.10
NVR5-PRM-224TB-S19-AU	NVR5 PRM 224TB 2U Rack Mnt; WS19 AU	NVR5-PRM-224TB-S19-AU	\$93,302.26
NVR5-PRM-224TB-S19-EU	NVR5 PRM 224TB 2U Rack Mnt; WS19 EU	NVR5-PRM-224TB-S19-EU	\$93,302.26
NVR5-PRM-224TB-S19-NA	NVR5 PRM 224TB 2U Rack Mnt; WS19 NA	NVR5-PRM-224TB-S19-NA	\$93,302.26
NVR5-PRM-224TB-S19-UK	NVR5 PRM 224TB 2U Rack Mnt; WS19 UK	NVR5-PRM-224TB-S19-UK	\$93,302.26
NVR5-PRM-252TB-S19-AU	NVR5 PRM 252TB 2U Rack Mnt; WS19 AU	NVR5-PRM-252TB-S19-AU	\$104,803.26
NVR5-PRM-252TB-S19-EU	NVR5 PRM 252TB 2U Rack Mnt; WS19 EU	NVR5-PRM-252TB-S19-EU	\$104,803.26
NVR5-PRM-252TB-S19-NA	NVR5 PRM 252TB 2U Rack Mnt; WS19 NA	NVR5-PRM-252TB-S19-NA	\$104,803.26
NVR5-PRM-252TB-S19-UK	NVR5 PRM 252TB 2U Rack Mnt; WS19 UK	NVR5-PRM-252TB-S19-UK	\$104,803.26
NVR5-PRM-288TB-S19-AU	NVR5 PRM 288TB 2U Rack Mnt; WS19 AU	NVR5-PRM-288TB-S19-AU	\$116,366.80
NVR5-PRM-288TB-S19-EU	NVR5 PRM 288TB 2U Rack Mnt; WS19 EU	NVR5-PRM-288TB-S19-EU	\$116,366.80
NVR5-PRM-288TB-S19-NA	NVR5 PRM 288TB 2U Rack Mnt; WS19 NA	NVR5-PRM-288TB-S19-NA	\$116,366.80
NVR5-PRM-288TB-S19-UK	NVR5 PRM 288TB 2U Rack Mnt; WS19 UK	NVR5-PRM-288TB-S19-UK	\$116,366.80
NVR5-PRM-360TB-S19-AU	NVR5 PRM 360TB 2U Rack Mnt; WS19 AU	NVR5-PRM-360TB-S19-AU	\$138,675.56
NVR5-PRM-360TB-S19-EU	NVR5 PRM 360TB 2U Rack Mnt; WS19 EU	NVR5-PRM-360TB-S19-EU	\$138,675.56
NVR5-PRM-360TB-S19-NA	NVR5 PRM 360TB 2U Rack Mnt; WS19 NA	NVR5-PRM-360TB-S19-NA	\$138,675.56
NVR5-PRM-360TB-S19-UK	NVR5 PRM 360TB 2U Rack Mnt; WS19 UK	NVR5-PRM-360TB-S19-UK	\$138,675.56
NVR5-PRM-432TB-S19-AU	NVR5 PRM 432TB 2U Rack Mnt; WS19 AU	NVR5-PRM-432TB-S19-AU	\$161,964.82
NVR5-PRM-432TB-S19-EU	NVR5 PRM 432TB 2U Rack Mnt; WS19 EU	NVR5-PRM-432TB-S19-EU	\$161,964.82
NVR5-PRM-432TB-S19-NA	NVR5 PRM 432TB 2U Rack Mnt; WS19 NA	NVR5-PRM-432TB-S19-NA	\$161,964.82

NVR5-PRM-432TB-S19-UK	NVR5 PRM 432TB 2U Rack Mnt; WS19 UK	NVR5-PRM-432TB-S19-UK	\$161,964.82
NVR5-PRM-96TB-S19-AU	NVR5 PRM 96TB 2U Rack Mnt; WS19 AU	NVR5-PRM-96TB-S19-AU	\$41,647.40
NVR5-PRM-96TB-S19-EU	NVR5 PRM 96TB 2U Rack Mnt; WS19 EU	NVR5-PRM-96TB-S19-EU	\$41,647.40
NVR5-PRM-96TB-S19-NA	NVR5 PRM 96TB 2U Rack Mnt; WS19 NA	NVR5-PRM-96TB-S19-NA	\$41,647.40
NVR5-PRM-96TB-S19-UK	NVR5 PRM 96TB 2U Rack Mnt; WS19 UK	NVR5-PRM-96TB-S19-UK	\$41,647.40
NVR5-PRM-FIPS-128TB-NA	NVR5 PRM FIPS 128TB 2U Rack Mnt; WS19 NA	NVR5-PRM-FIPS-128TB-NA	\$60,100.48
NVR5-PRM-FIPS-160TB-NA	NVR5 PRM FIPS 160TB 2U Rack Mnt; WS19 NA	NVR5-PRM-FIPS-160TB-NA	\$72,359.69
NVR5-PRM-FIPS-96TB-NA	NVR5 PRM FIPS 96TB 2U Rack Mnt; WS19 NA	NVR5-PRM-FIPS-96TB-NA	\$45,549.39
NVR5-STD-32TB-S19-AU	NVR5 STD 32TB 2U Rack Mnt; WS19 AU	NVR5-STD-32TB-S19-AU	\$21,698.20
NVR5-STD-32TB-S19-EU	NVR5 STD 32TB 2U Rack Mnt; WS19 EU	NVR5-STD-32TB-S19-EU	\$21,698.20
NVR5-STD-32TB-S19-NA	NVR5 STD 32TB 2U Rack Mnt; WS19 NA	NVR5-STD-32TB-S19-NA	\$21,698.20
NVR5-STD-32TB-S19-UK	NVR5 STD 32TB 2U Rack Mnt; WS19 UK	NVR5-STD-32TB-S19-UK	\$21,698.20
NVR5-STD-32TB-W10-AU	NVR5 STD 32TB 2U Rack Mnt; W10 AU	NVR5-STD-32TB-W10-AU	\$18,996.26
NVR5-STD-32TB-W10-EU	NVR5 STD 32TB 2U Rack Mnt; W10 EU	NVR5-STD-32TB-W10-EU	\$18,996.26
NVR5-STD-32TB-W10-NA	NVR5 STD 32TB 2U Rack Mnt; W10 NA	NVR5-STD-32TB-W10-NA	\$18,996.26
NVR5-STD-32TB-W10-UK	NVR5 STD 32TB 2U Rack Mnt; W10 UK	NVR5-STD-32TB-W10-UK	\$18,996.26
NVR5-STD-48TB-S19-AU	NVR5 STD 48TB 2U Rack Mnt; WS19 AU	NVR5-STD-48TB-S19-AU	\$28,876.52
NVR5-STD-48TB-S19-EU	NVR5 STD 48TB 2U Rack Mnt; WS19 EU	NVR5-STD-48TB-S19-EU	\$28,876.52
NVR5-STD-48TB-S19-NA	NVR5 STD 48TB 2U Rack Mnt; WS19 NA	NVR5-STD-48TB-S19-NA	\$28,876.52
NVR5-STD-48TB-S19-UK	NVR5 STD 48TB 2U Rack Mnt; WS19 UK	NVR5-STD-48TB-S19-UK	\$28,876.52
NVR5-STD-48TB-W10-AU	NVR5 STD 48TB 2U Rack Mnt; W10 AU	NVR5-STD-48TB-W10-AU	\$27,128.58
NVR5-STD-48TB-W10-EU	NVR5 STD 48TB 2U Rack Mnt; W10 EU	NVR5-STD-48TB-W10-EU	\$27,128.58
NVR5-STD-48TB-W10-NA	NVR5 STD 48TB 2U Rack Mnt; W10 NA	NVR5-STD-48TB-W10-NA	\$27,128.58
NVR5-STD-48TB-W10-UK	NVR5 STD 48TB 2U Rack Mnt; W10 UK	NVR5-STD-48TB-W10-UK	\$27,128.58
NVR5-STD-64TB-S19-AU	NVR5 STD 64TB 2U Rack Mnt; WS19 AU	NVR5-STD-64TB-S19-AU	\$35,862.98
NVR5-STD-64TB-S19-EU	NVR5 STD 64TB 2U Rack Mnt; WS19 EU	NVR5-STD-64TB-S19-EU	\$35,862.98
NVR5-STD-64TB-S19-NA	NVR5 STD 64TB 2U Rack Mnt; WS19 NA	NVR5-STD-64TB-S19-NA	\$35,862.98
NVR5-STD-64TB-S19-UK	NVR5 STD 64TB 2U Rack Mnt; WS19 UK	NVR5-STD-64TB-S19-UK	\$35,862.98
NVR5-STD-64TB-W10-AU	NVR5 STD 64TB 2U Rack Mnt; W10 AU	NVR5-STD-64TB-W10-AU	\$33,993.14
NVR5-STD-64TB-W10-EU	NVR5 STD 64TB 2U Rack Mnt; W10 EU	NVR5-STD-64TB-W10-EU	\$33,993.14
NVR5-STD-64TB-W10-NA	NVR5 STD 64TB 2U Rack Mnt; W10 NA	NVR5-STD-64TB-W10-NA	\$33,993.14
NVR5-STD-64TB-W10-UK	NVR5 STD 64TB 2U Rack Mnt; W10 UK	NVR5-STD-64TB-W10-UK	\$33,993.14
HD Video Appliance 16-Port 6TB; AU	HD Video Appliance 16-Port 6TB; AU. ACC licenses sold separately	VMA-AS3-16P06-AU	\$4,921.39
HD Video Appliance 16-Port 6TB; EU	HD Video Appliance 16-Port 6TB; EU. ACC licenses sold separately	VMA-AS3-16P06-EU	\$4,921.39
HD Video Appliance 16-Port 6TB; NA	HD Video Appliance Pro 16-Port 6TB; NA. ACC licenses sold separately	VMA-AS3-16P06-NA	\$4,921.39
HD Video Appliance 16-Port 6TB; UK	HD Video Appliance 16-Port 6TB; UK. ACC licenses sold separately	VMA-AS3-16P06-UK	\$4,642.82
HD Video Appliance 16-Port 9TB; AU	HD Video Appliance 16-Port 9TB; AU. ACC licenses sold separately	VMA-AS3-16P09-AU	\$5,900.11
HD Video Appliance 16-Port 9TB; EU	HD Video Appliance 16-Port 9TB; EU. ACC licenses sold separately	VMA-AS3-16P09-EU	\$5,566.14
HD Video Appliance 16-Port 9TB; NA	HD Video Appliance Pro 16-Port 9TB; NA. ACC licenses sold separately	VMA-AS3-16P09-NA	\$5,900.11
HD Video Appliance 16-Port 9TB; UK	HD Video Appliance 16-Port 9TB; UK. ACC licenses sold separately	VMA-AS3-16P09-UK	\$5,900.11
HD Video Appliance 16-Port 12TB; AU	HD Video Appliance 16-Port 12TB; AU. ACC licenses sold separately	VMA-AS3-16P12-AU	\$7,080.13
HD Video Appliance 16-Port 12TB; EU	HD Video Appliance 16-Port 12TB; EU. ACC licenses sold separately	VMA-AS3-16P12-EU	\$6,679.37
HD Video Appliance 16-Port 12TB; NA	HD Video Appliance Pro 16-Port 12TB; NA. ACC licenses sold separately	VMA-AS3-16P12-NA	\$7,080.13
HD Video Appliance 16-Port 12TB; UK	HD Video Appliance 16-Port 12TB; UK. ACC licenses sold separately	VMA-AS3-16P12-UK	\$7,080.13
HD Video Appliance 24-Port 12TB; AU	HD Video Appliance 24-Port 12TB; AU. ACC licenses sold separately	VMA-AS3-24P12-AU	\$7,316.13
HD Video Appliance 24-Port 12TB; EU	HD Video Appliance 24-Port 12TB; EU. ACC licenses sold separately	VMA-AS3-24P12-EU	\$7,316.13
HD Video Appliance 24-Port 12TB; NA	HD Video Appliance Pro 24-Port 12TB; NA. ACC licenses sold separately	VMA-AS3-24P12-NA	\$7,316.13
HD Video Appliance 24-Port 12TB; UK	HD Video Appliance 24-Port 12TB; UK. ACC licenses sold separately	VMA-AS3-24P12-UK	\$6,902.01
HD Video Appliance 24-Port 18TB; AU	HD Video Appliance 24-Port 18TB; AU. ACC licenses sold separately	VMA-AS3-24P18-AU	\$9,245.82
HD Video Appliance 24-Port 18TB; EU	HD Video Appliance 24-Port 18TB; EU. ACC licenses sold separately	VMA-AS3-24P18-EU	\$8,722.47
HD Video Appliance 24-Port 18TB; NA	HD Video Appliance Pro 24-Port 18TB; NA. ACC licenses sold separately	VMA-AS3-24P18-NA	\$9,245.82
HD Video Appliance 24-Port 18TB; UK	HD Video Appliance 24-Port 18TB; UK. ACC licenses sold separately	VMA-AS3-24P18-UK	\$8,722.47
HD Video Appliance 24-Port 24TB; AU	HD Video Appliance 24-Port 24TB; AU. ACC licenses sold separately	VMA-AS3-24P24-AU	\$11,411.50
HD Video Appliance 24-Port 24TB; EU	HD Video Appliance 24-Port 24TB; EU. ACC licenses sold separately	VMA-AS3-24P24-EU	\$10,765.57
HD Video Appliance 24-Port 24TB; NA	HD Video Appliance Pro 24-Port 24TB; NA. ACC licenses sold separately	VMA-AS3-24P24-NA	\$11,411.50
HD Video Appliance 24-Port 24TB; UK	HD Video Appliance 24-Port 24TB; UK. ACC licenses sold separately	VMA-AS3-24P24-UK	\$10,765.57
HD Video Appliance 8-Port 2TB; AU	HD Video Appliance 8-Port 2TB; AU. ACC licenses sold separately	VMA-AS3-8P2-AU	\$2,360.05
HD Video Appliance 8-Port 2TB; EU	HD Video Appliance 8-Port 2TB; EU. ACC licenses sold separately	VMA-AS3-8P2-EU	\$2,226.46
HD Video Appliance 8-Port 2TB; NA	HD Video Appliance 8-Port 2TB; NA. ACC licenses sold separately	VMA-AS3-8P2-NA	\$2,360.05
HD Video Appliance 8-Port 2TB; UK	HD Video Appliance 8-Port 2TB; UK. ACC licenses sold separately	VMA-AS3-8P2-UK	\$2,226.46
HD Video Appliance 8-Port 4TB; AU	HD Video Appliance 8-Port 4TB; AU. ACC licenses sold separately	VMA-AS3-8P4-AU	\$2,561.34
HD Video Appliance 8-Port 4TB; EU	HD Video Appliance 8-Port 4TB; EU. ACC licenses sold separately	VMA-AS3-8P4-EU	\$2,416.36
HD Video Appliance 8-Port 4TB; NA	HD Video Appliance 8-Port 4TB; NA. ACC licenses sold separately	VMA-AS3-8P4-NA	\$2,561.34
HD Video Appliance 8-Port 4TB; UK	HD Video Appliance 8-Port 4TB; UK. ACC licenses sold separately	VMA-AS3-8P4-UK	\$2,561.34
HD Video Appliance 8-Port 8TB; AU	HD Video Appliance 8-Port 8TB; AU. ACC licenses sold separately	VMA-AS3-8P8-AU	\$3,151.35
HD Video Appliance 8-Port 8TB; EU	HD Video Appliance 8-Port 8TB; EU. ACC licenses sold separately	VMA-AS3-8P8-EU	\$2,972.97
HD Video Appliance 8-Port 8TB; NA	HD Video Appliance 8-Port 8TB; NA. ACC licenses sold separately	VMA-AS3-8P8-NA	\$3,151.35
HD Video Appliance 8-Port 8TB; UK	HD Video Appliance 8-Port 8TB; UK. ACC licenses sold separately	VMA-AS3-8P8-UK	\$3,151.35
ES 8-Port Appliance; 4TB; AU	ES 8-Port Appliance; 4TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P4-AU	\$1,870.68
ES 8-Port Appliance; 4TB; EU	ES 8-Port Appliance; 4TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P4-EU	\$1,870.68
ES 8-Port Appliance; 4TB; NA	ES 8-Port Appliance; 4TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P4-NA	\$1,870.68
ES 8-Port Appliance; 4TB; UK	ES 8-Port Appliance; 4TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P4-UK	\$1,870.68
ES 8-Port Appliance; 8TB; AU	ES 8-Port Appliance; 8TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P8-AU	\$2,460.69
ES 8-Port Appliance; 8TB; EU	ES 8-Port Appliance; 8TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P8-EU	\$2,460.69
ES 8-Port Appliance; 8TB; NA	ES 8-Port Appliance; 8TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P8-NA	\$2,460.69
ES 8-Port Appliance; 8TB; UK	ES 8-Port Appliance; 8TB; ACC and Analytics licenses sold separately.	VMA-ENVR1-8P8-UK	\$2,460.69
ES 8-Port Rugged Appliance; 2TB	ES 8-Port Rugged Appliance with 2TB; power supply sold separately	VMA-RPA-RGD-8P2	\$6,254.12
ES 8-Port Rugged Appliance; 4TB	ES 8-Port Rugged Appliance with 4TB; power supply sold separately	VMA-RPA-RGD-8P4	\$8,260.16
AIA1 to AIA2 Upgrade Kit (CG1 Models)	Kit to upgrade VMA-AIA1-CG1-XX to VMA-AIA2-CG1-XX	VMA-AIA1-CG1-UPGK	\$2,255.92
AIA1 to AIA2 Upgrade Kit (CG2 Models)	Kit to upgrade VMA-AIA1-CG2-XX to VMA-AIA2-CG2-XX	VMA-AIA1-CG2-UPGK	\$4,280.47
AI Appliance 2; CG1 Model; AU	AI Appliance 2 CG1 model with 10 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG1-AU	\$8,673.16
AI Appliance 2; CG1 Model; EU	AI Appliance 2 CG1 model with 10 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG1-EU	\$8,673.16
AI Appliance 2; CG1 Model; NA	AI Appliance 2 CG1 model with 10 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG1-NA	\$8,673.16
AI Appliance 2; CG1 Model; UK	AI Appliance 2 CG1 model with 10 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG1-UK	\$8,673.16
AI Appliance 2; CG2 Model; AU	AI Appliance 2 CG2 model with 30 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG2-AU	\$14,243.56
AI Appliance 2; CG2 Model; EU	AI Appliance 2 CG2 model with 30 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG2-EU	\$14,243.56
AI Appliance 2; CG2 Model; NA	AI Appliance 2 CG2 model with 30 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG2-NA	\$14,243.56
AI Appliance 2; CG2 Model; UK	AI Appliance 2 CG2 model with 30 channels of video analytics included (ACC7-VAC)	VMA-AIA2-CG2-UK	\$14,243.56
Video Archive Expansion Unit; 263TB; 3YR Support	Video Archive Expansion Unit; 263TB; 3YR Support	AVA-EXP1-263TB	\$66,636.52
Video Archive Expansion Unit; 263TB; 5YR Support	Video Archive Expansion Unit; 263TB; 5YR Support	AVA-EXP1-263TB-5YR	\$82,485.83
Video Archive Expansion Unit; 526TB; 3YR Support	Video Archive Expansion Unit; 526TB; 3YR Support	AVA-EXP1-526TB	\$112,911.84
Video Archive Expansion Unit; 526TB; 5YR Support	Video Archive Expansion Unit; 526TB; 5YR Support	AVA-EXP1-526TB-5YR	\$129,918.05
Video Archive Expansion Unit; 789TB; 3YR Support	Video Archive Expansion Unit; 789TB; 3YR Support	AVA-EXP1-789TB	\$148,440.70
Video Archive Expansion Unit; 789TB; 5YR Support	Video Archive Expansion Unit; 789TB; 5YR Support	AVA-EXP1-789TB-5YR	\$165,434.41
Expansion Disk Pack (263TB); AVA	263TB Expansion Disk Pack for Avigilon Video Archive	AVA-HDD1-263TB	\$63,895.16
Video Archive Head Unit; 225TB; 3YR Support	Video Archive Head Unit; 225TB; 3YR Support	AVA-HED1-225TB	\$83,295.65
Video Archive Head Unit; 225TB; 5YR Support	Video Archive Head Unit; 225TB; 5YR Support	AVA-HED1-225TB-5YR	\$95,905.68
Video Archive Head Unit; 488TB; 3YR Support	Video Archive Head Unit; 488TB; 3YR Support	AVA-HED1-488TB	\$141,139.85
Video Archive Head Unit; 488TB; 5YR Support	Video Archive Head Unit; 488TB; 5YR Support	AVA-HED1-488TB-5YR	\$159,997.04
Video Archive Head Unit; 751TB; 3YR Support	Video Archive Head Unit; 751TB; 3YR Support	AVA-HED1-751TB	\$174,631.61
Video Archive Head Unit; 751TB; 5YR Support	Video Archive Head Unit; 751TB; 5YR Support	AVA-HED1-751TB-5YR	\$190,885.86
Video Archive NVR4 Connectivity Kit	Kit to connect an NVR4 to an Avigilon Video Archive	AVA-HED1-NVR4-CONNECT	\$2,389.76
AI NVR Premium; 128TB; AU	AI NVR Premium; 128TB; AU	AINVR-PRM-128TB-AU	\$54,951.99
AI NVR Premium; 128TB; EU	AI NVR Premium; 128TB; EU	AINVR-PRM-128TB-EU	\$54,951.99

AI NVR Premium; 128TB; NA	AI NVR Premium; 128TB; NA	AINVR-PRM-128TB-NA	\$54,951.99
AI NVR Premium; 128TB; UK	AI NVR Premium; 128TB; UK	AINVR-PRM-128TB-UK	\$54,951.99
AI NVR Premium; 160TB; AU	AI NVR Premium; 160TB; AU	AINVR-PRM-160TB-AU	\$67,484.90
AI NVR Premium; 160TB; EU	AI NVR Premium; 160TB; EU	AINVR-PRM-160TB-EU	\$67,484.90
AI NVR Premium; 160TB; NA	AI NVR Premium; 160TB; NA	AINVR-PRM-160TB-NA	\$67,484.90
AI NVR Premium; 160TB; UK	AI NVR Premium; 160TB; UK	AINVR-PRM-160TB-UK	\$67,484.90
AI NVR Premium; 64TB; AU	AI NVR Premium; 64TB; AU	AINVR-PRM-64TB-AU	\$35,863.40
AI NVR Premium; 64TB; EU	AI NVR Premium; 64TB; EU	AINVR-PRM-64TB-EU	\$35,863.40
AI NVR Premium; 64TB; NA	AI NVR Premium; 64TB; NA	AINVR-PRM-64TB-NA	\$35,863.40
AI NVR Premium; 64TB; UK	AI NVR Premium; 64TB; UK	AINVR-PRM-64TB-UK	\$35,863.40
AI NVR Premium; 96TB; AU	AI NVR Premium; 96TB; AU	AINVR-PRM-96TB-AU	\$41,647.82
AI NVR Premium; 96TB; EU	AI NVR Premium; 96TB; EU	AINVR-PRM-96TB-EU	\$41,647.82
AI NVR Premium; 96TB; NA	AI NVR Premium; 96TB; NA	AINVR-PRM-96TB-NA	\$41,647.82
AI NVR Premium; 96TB; UK	AI NVR Premium; 96TB; UK	AINVR-PRM-96TB-UK	\$41,647.82
AI NVR Premium+; 128TB; AU	AI NVR Premium+; 128TB; AU	AINVR-PRM-PLUS-128TB-AU	\$56,086.19
AI NVR Premium+; 128TB; EU	AI NVR Premium+; 128TB; EU	AINVR-PRM-PLUS-128TB-EU	\$56,086.19
AI NVR Premium+; 128TB; NA	AI NVR Premium+; 128TB; NA	AINVR-PRM-PLUS-128TB-NA	\$56,086.19
AI NVR Premium+; 128TB; UK	AI NVR Premium+; 128TB; UK	AINVR-PRM-PLUS-128TB-UK	\$56,086.19
AI NVR Premium+; 160TB; AU	AI NVR Premium+; 160TB; AU	AINVR-PRM-PLUS-160TB-AU	\$68,619.10
AI NVR Premium+; 160TB; EU	AI NVR Premium+; 160TB; EU	AINVR-PRM-PLUS-160TB-EU	\$68,619.10
AI NVR Premium+; 160TB; NA	AI NVR Premium+; 160TB; NA	AINVR-PRM-PLUS-160TB-NA	\$68,619.10
AI NVR Premium+; 160TB; UK	AI NVR Premium+; 160TB; UK	AINVR-PRM-PLUS-160TB-UK	\$68,619.10
AI NVR Premium+; 64TB; AU	AI NVR Premium+; 64TB; AU	AINVR-PRM-PLUS-64TB-AU	\$36,997.60
AI NVR Premium+; 64TB; EU	AI NVR Premium+; 64TB; EU	AINVR-PRM-PLUS-64TB-EU	\$36,997.60
AI NVR Premium+; 64TB; NA	AI NVR Premium+; 64TB; NA	AINVR-PRM-PLUS-64TB-NA	\$36,997.60
AI NVR Premium+; 64TB; UK	AI NVR Premium+; 64TB; UK	AINVR-PRM-PLUS-64TB-UK	\$36,997.60
AI NVR Premium+; 96TB; AU	AI NVR Premium+; 96TB; AU	AINVR-PRM-PLUS-96TB-AU	\$42,782.02
AI NVR Premium+; 96TB; EU	AI NVR Premium+; 96TB; EU	AINVR-PRM-PLUS-96TB-EU	\$42,782.02
AI NVR Premium+; 96TB; NA	AI NVR Premium+; 96TB; NA	AINVR-PRM-PLUS-96TB-NA	\$42,782.02
AI NVR Premium+; 96TB; UK	AI NVR Premium+; 96TB; UK	AINVR-PRM-PLUS-96TB-UK	\$42,782.02
AI NVR Standard; 24TB; AU	AI NVR Standard; 24TB; AU	AINVR-STD-24TB-AU	\$17,434.92
AI NVR Standard; 24TB; EU	AI NVR Standard; 24TB; EU	AINVR-STD-24TB-EU	\$17,434.92
AI NVR Standard; 24TB; NA	AI NVR Standard; 24TB; NA	AINVR-STD-24TB-NA	\$17,434.92
AI NVR Standard; 24TB; UK	AI NVR Standard; 24TB; UK	AINVR-STD-24TB-UK	\$17,434.92
AI NVR Standard; 32TB; AU	AI NVR Standard; 32TB; AU	AINVR-STD-32TB-AU	\$18,996.72
AI NVR Standard; 32TB; EU	AI NVR Standard; 32TB; EU	AINVR-STD-32TB-EU	\$18,996.72
AI NVR Standard; 32TB; NA	AI NVR Standard; 32TB; NA	AINVR-STD-32TB-NA	\$18,996.72
AI NVR Standard; 32TB; UK	AI NVR Standard; 32TB; UK	AINVR-STD-32TB-UK	\$18,996.72
AI NVR Standard; 48TB; AU	AI NVR Standard; 48TB; AU	AINVR-STD-48TB-AU	\$27,128.93
AI NVR Standard; 48TB; EU	AI NVR Standard; 48TB; EU	AINVR-STD-48TB-EU	\$27,128.93
AI NVR Standard; 48TB; NA	AI NVR Standard; 48TB; NA	AINVR-STD-48TB-NA	\$27,128.93
AI NVR Standard; 48TB; UK	AI NVR Standard; 48TB; UK	AINVR-STD-48TB-UK	\$27,128.93
AI NVR Value; 12TB; AU	AI NVR Value; 12TB; AU	AINVR-VAL-12TB-AU	\$7,519.75
AI NVR Value; 12TB; EU	AI NVR Value; 12TB; EU	AINVR-VAL-12TB-EU	\$7,519.75
AI NVR Value; 12TB; NA	AI NVR Value; 12TB; NA	AINVR-VAL-12TB-NA	\$7,519.75
AI NVR Value; 12TB; UK	AI NVR Value; 12TB; UK	AINVR-VAL-12TB-UK	\$7,519.75
AI NVR Value; 6TB; AU	AI NVR Value; 6TB; AU	AINVR-VAL-6TB-AU	\$6,131.49
AI NVR Value; 6TB; EU	AI NVR Value; 6TB; EU	AINVR-VAL-6TB-EU	\$6,131.49
AI NVR Value; 6TB; NA	AI NVR Value; 6TB; NA	AINVR-VAL-6TB-NA	\$6,131.49
AI NVR Value; 6TB; UK	AI NVR Value; 6TB; UK	AINVR-VAL-6TB-UK	\$6,131.49
Custom VB400 Front-button Sticker (1000)	1000 Custom front-button sticker for VB-400 camera	VB-400-ID-CUS-1000	\$1,031.00
Custom VB400 Front-button Sticker (5000)	5000 Custom front-button sticker for the VB-400 camera	VB-400-ID-CUS-5000	\$1,362.00
Lanyard for Body-worn cameras	Lanyard for Body-worn cameras	AC-LANYARD-05	\$6.00
USB Cable for Body-worn cameras	USB Cable for Body-worn cameras	AC-USB-DOCK-050	\$26.00
USB Cable for Body-worn cameras	USB Cable for Body-worn cameras	AC-USB-DOCK-200	\$26.00
USB Cable for Body-worn cameras	USB Cable for Body-worn cameras	AC-USB-MICROB-100	\$30.60
12 Month Warranty for DC-200	12 Month Warranty for DC-200	DC-200-12MW	\$132.60
DockController (AUS)	DockController DC-200; PSU; AUS power & LAN cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada. For use with	DC-200/AUS	\$735.00
DockController (EU)	DockController (EU)	DC-200/EU	\$735.00
DockController (US)	DockController DC-200; PSU; US power & LAN cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada. For use with body worn cameras.	DC-200/US	\$735.00
Klick Fast Dock Clamp	Klick Fast Dock Clamp (pocket click fast dock). For use with body worn cameras.	KF-DOCKCLAMP	\$31.00
Klick Fast 3-Point Chest Harness	Klick Fast 3-point chest harness	KF-HARN3	\$62.00
Klick Fast 4-Point Chest Harness	Klick Fast 4-point chest harness	KF-HARN4	\$62.00
Klick Fast Shoulder Harness	Klick Fast shoulder harness. For use with body worn cameras.	KF-HARN5	\$62.00
Klick Fast Radio Loop	Klick Fast radio loop dock. For use with body worn cameras.	KF-LOOP	\$21.00
Klick Fast Magnetic Mounting set	Klick Fast magnetic mounting set (supplied w/o magnets). For use with body worn cameras.	KF-MAGMOUNT	\$31.00
Klick Fast Magnetic Mounting Set (w/Magnets)	Klick Fast Magnetic Mounting Set (w/Magnets)	KF-MAGMOUNT2	\$68.05
Klick Fast Dock for MOLLE vests	Klick Fast Dock for MOLLE vests. For use with body worn cameras.	KF-MOLLEVEST	\$21.00
Klick Fast Screw-on Dock	Klick Fast uniform screw-on dock. For use with body worn cameras.	KF-SCREW	\$21.00
RF-220 RFID Reader	RFID RF-220 reader & base (MIFARE;MULTI-ISO; and LF). For use with body worn cameras.	RF-220	\$740.00
RFID Cards for Body-worn cameras	10x RFID plastic cards. For use with body worn cameras.	RF-CARD-10	\$21.00
RFID Stickers for Body-worn cameras	10x RFID sticker-style tags. For use with body worn cameras.	RF-STICKER-10	\$11.00
Klick Fast Quick Release Tilt Mount (for VB400)	VB-400 Tiltting KlickFast for QR base	VB-400-QR-KFTILT	\$36.00
Quick Release Sports Camera Pillar (VB400)	VB-400 Sports Camera fitting for QR base	VB-400-QR-SPORT	\$26.00
CONNECT License for VT100	License: 1x VM Connect for VT100	VM-EPL-VT-CONNECT-1	\$193.80
Upgrade License for VT100	License: 1x Upg. to VM Plus for VT100	VM-EPL-VT-CONNECT-TO-PLUS-1	\$40.80
PLUS License for VT100	License: 1x VM Plus for VT100	VM-EPL-VT-PLUS-1	\$224.40
12 Month S/W Assurance for VideoManager	SW Assurance: +12 mths for 1x VM-EPL-VT	VM-ESA-VT-12M-1	\$61.20
24 Month S/W Assurance for VideoManager	Software Assurance: +24 Months for 1x VM-EPL-VT license	VM-ESA-VT-24M-1	\$71.40
12 Month Warranty for VT100	Warranty: +12 mths for 1x VT100	VT-100-12MW-N	\$132.60
24 Month Warranty for VT100	Warranty: +24 months warranty for VT100	VT-100-24MW-N	\$219.30
12 Month Warranty for VT100 Dock14	Warranty: +12 mths for VT-100-DOCK14	VT-100-DOCK14-12MW	\$132.60
24 Month Warranty for VT100 14 port dock	Warranty: +24 Months warranty for VT-100-DOCK14	VT-100-DOCK14-24MW	\$219.30
14 Port Dock for VT100 (AUS)	VT100 series 14-port USB dock; PSU; AUS cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada.	VT-100-DOCK14/AUS	\$816.00
14 Port Dock for VT100 (EU)	VT100 series 14-port USB dock; PSU; EU cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada.	VT-100-DOCK14/EU	\$816.00
14 Port Dock for VT100 (ROW)	VT100 series 14-port USB dock; PSU; no cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada.	VT-100-DOCK14/ROW	\$816.00
14 Port Dock for VT100 (UK)	VT100 series 14-port USB dock; PSU; UK cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada.	VT-100-DOCK14/UK	\$816.00
14 Port Dock for VT100 (US)	VT100 series 14-port USB dock; PSU; US cable. Available only for EU; EFTA; US; Australia; New Zealand and Canada.	VT-100-DOCK14/US	\$816.00

Videogator clip for VT100	VT100 series rotatable long Videogator clip	VT-100-FIX-ALIG	\$20.40
Epaulette Mount for VT100	VT100 series epaulette mount	VT-100-FIX-EP	\$25.50
Klick Fast Stud for VT100	VT100 series Klick Fast stud	VT-100-FIX-KF-ALT	\$20.40
Sports Camera Pillar (VT100)	VT-100 series sports camera pillar	VT-100-FIX-SPORT	\$25.50
Custom VT100 Front-panel ID Card (1000)	1000 Custom front panel ID-card for the VT-100 camera	VT-100-ID-CUS-1000	\$2,346.00
250 ID Cards for VT100	250 Custom front panel ID-card for the VT100 camera	VT-100-ID-CUS-250	\$1,821.00
Custom VT100 Front-panel ID Card (5000)	5000 Custom front panel ID-card for the VT-100 camera	VT-100-ID-CUS-5000	\$8,757.00
Artwork creation for VT100	Artwork creation for custom VT100 front panel ID-card	VT-100-ID-CUS-ART	\$443.70
VT100 Body-worn camera	Body-worn VT100 camera. Available only for EFTA; US; Australia; New Zealand and Canada.	VT-100-N	\$377.40
1 Port dock for VT100	VT100 one-port USB dock; USB cable. Available only for EU; EFTA; US and Canada.	VT-100-SOLO	\$86.70
12 Month Warranty for VT100 Solo Dock	Warranty: +12 Months warranty for VT-100-SOLO	VT-100-SOLO-12MW	\$35.70
24 Month Warranty for VT100 Solo Dock	Warranty: +24 Months warranty for VT-100-SOLO	VT-100-SOLO-24MW	\$61.20
24 Month Warranty for DC-200	Warranty: +24 months warranty for DC-200	DC-200-24MW	\$219.30
Klick Fast Epaulette Dock	Klick Fast Dock Epaulette (epaulette klickfast dock)	KF-DOCKEP	\$326.00
12 Month Warranty for RF-220	Warranty: +12 Months warranty for RF-220	RF-220-12MW	\$132.60
24 Month Warranty for RF-220	Warranty: +24 Months warranty for RF-220	RF-220-24MW	\$219.30
VideoManager HQ Base License	VideoManager for Head-quarters - Base	VM-EPL-HQ-BASE	\$4,326.97
12 Month Additional Warranty for VB-400 Body-worn camera	12 Month Additional Warranty for VB-400 Body-worn camera	VB-400-12MW-N	\$147.90
24 Month Additional Warranty for VB-400 Body-worn camera	24 Month Additional Warranty for VB-400 Body-worn camera	VB-400-24MW-N	\$255.00
VB400 1-Port Dock	VB400 1-Port Dock	VB-400-DOCK-SOLO	\$86.70
12 Month Additional Warranty for VB400-DOCK14	12 Month Additional Warranty for VB400-DOCK14	VB-400-DOCK14-12MW	\$132.60
24 Month Additional Warranty for VB-400-DOCK14	24 Month Additional Warranty for VB-400-DOCK14	VB-400-DOCK14-24MW	\$255.00
VB400 14-Port Dock (AUS)	VB400 14-Port Dock with AUS power cable	VB-400-DOCK14/AUS	\$816.00
VB400 14-Port Dock (EU)	VB400 14-Port Dock with EU power cable	VB-400-DOCK14/EU	\$816.00
VB400 14-Port Dock (ROW)	VB400 14-Port Dock with no power cable	VB-400-DOCK14/ROW	\$816.00
VB400 14-Port Dock (UK)	VB400 14-Port Dock with UK power cable	VB-400-DOCK14/UK	\$816.00
VB400 14-Port Dock (US)	VB400 14-Port Dock with US power cable	VB-400-DOCK14/US	\$816.00
USB Type-A to VB400 cable including VB400 adaptor	USB Type-A to VB400 cable including VB400 adaptor	VB-400-EXT-CHARGE	\$71.00
Custom VB400 Front-button Stickers (250)	Custom VB400 Front-button Stickers (250)	VB-400-ID-CUS-250	\$678.30
Custom VB400 Front button Sticker Design	Custom VB400 Front button Sticker Design	VB-400-ID-CUS-ART	\$413.10
Klick Fast Quick Release Stud	Klick Fast Quick Release Stud for VB-440-64-QR-N	VB-400-QR-FKSTUD	\$26.00
Klick Fast Quick Release Wide Tilt Mount	Klick Fast Quick Release Wide Tilt Mount for VB-440-64-QR-N	VB-400-QR-KFTILT2	\$62.00
12 Month Additional Warranty for VB-400-DOCK-SOLO	12 Month Additional Warranty for VB-400-DOCK-SOLO	VB-400-SOLO-12MW	\$35.70
24 Month Warranty for VB400 Solo Dock	Warranty: +24 Months warranty for VB-400-SOLO	VB-400-SOLO-24MW	\$61.20
Close-Fit Magnetic Mount	Close-Fit Magnetic Mount for VB-440-64-VF-N	VB-400-VF-MAG	\$36.00
Close-Fit Double MOLLE Mount	Close-Fit Double MOLLE Mount for VB-440-64-VF-N	VB-400-VF-MOL2	\$72.00
VB400 Alligator clip Body-worn camera	VB400 Alligator clip Body-worn camera	VB-400-64-ALIG	\$606.90
VB400 Klick Fast Stud Body-worn camera	VB400 Klick Fast Stud Body-worn camera	VB-400-64-KF-N	\$606.90
VB400 Quick Release Body-worn camera	VB400 Body-worn camera with QuickRelease Mount	VB-440-64-QR-N	\$607.00
VB400 Close Fit Body-worn camera	VB400 Close Fit Body-worn camera	VB-440-64-VF-N	\$607.00
CONNECT License for VB400	License: 1x VideoManager CONNECT license for VB400 body-worn camera	VM-EPL-VB-CONNECT-1	\$316.20
UPGRADE License for VB400	License: 1x VideoManager UPGRADE license for VB400 body-worn camera	VM-EPL-VB-CONNECT-TO-PLUS-1	\$122.40
PLUS License for VB400	License: 1x VideoManager PLUS license for VB400 body-worn camera	VM-EPL-VB-PLUS-1	\$402.90
12 Month Additional S/W Assurance for VideoManager (VB400)	12 Month Additional S/W Assurance for VideoManager (VB400)	VM-ESA-VB-12M-1	\$86.70
24 Month S/W Assurance for VideoManager	Software Assurance: +24 Months for 1x VM-EPL-VB license	VM-ESA-VB-24M-1	\$147.90
VM-EPL-STORE-1TB	VideoManager object storage access license; 1TB	VM-EPL-STORE-1TB	\$884.68
VM-ESA-3PVMS-12M	12 m for VideoManager 3rd-party VMS	VM-ESA-3PVMS-12M	\$1,378.05
VM-ESA-3PVMS-24M	24 m for VideoManager 3rd-party VMS	VM-ESA-3PVMS-24M	\$2,427.19
VM-ESA-HQ-BASE-12M	12 m for VideoManager HQ Base	VM-ESA-HQ-BASE-12M	\$884.68
VM-ESA-HQ-BASE-24M	24 m for VideoManager HQ Base	VM-ESA-HQ-BASE-24M	\$1,548.18
VM-ESA-STORE1TB12M	12 m for VideoManager ObjectStorage 1Tb	VM-ESA-STORE1TB12M	\$209.83
One Day Onsite (8Hrs) System Audit	One Day Onsite (8Hrs) System Audit	FSDSUP-AUDIT	\$3,500.00
One Day Onsite (8Hrs) System Configuration	One Day Onsite (8Hrs) System Configuration	FSDSUP-CONFIG	\$3,500.00
One Day Onsite (8Hrs) Network Configuration	One Day Onsite (8Hrs) Network Configuration	FSDSUP-NETWORK	\$5,250.00
One Day Onsite (8Hrs) Troubleshoot	One Day Onsite (8Hrs) Troubleshoot	FSDSUP-TSHOOT	\$3,500.00
One Additional Day Of Travel	One Additional Day Of Travel	FTRVL-ADDDTDAY	\$575.00
First Day Of Travel By Air	First Day Of Travel By Air	FTRVL-FRSTAIR	\$2,800.00
One Day Remote (8Hrs) System Audit	One Day Remote (8Hrs) System Audit	RMTSUP-AUDIT	\$3,500.00
One Day Remote (8Hrs) System Configuration	One Day Remote (8Hrs) System Configuration	RMTSUP-CONFIG	\$3,500.00
One Day Remote (8Hrs) Network Design/Configuration/Troubleshoot	One Day Remote (8Hrs) Network Design/Configuration/Troubleshoot	RMTSUP-NETWORK	\$5,250.00
One Day Remote (8Hrs) Troubleshoot	One Day Remote (8Hrs) Troubleshoot	RMTSUP-TSHOOT	\$3,500.00

Access Control

Description	Full Description	Nomenclature	APC	Price
Access Control Manager 6 30 Day Demo License	Access Control Manager 6 License 30 Day Demonstration: includes licensing for Badging; Exacq; Milestone; one Bosch intrusion panel; VIRD/BE Manager integration; Replication; Hot Stand By Auto Failover; SQL collaboration; Oracle collaboration; LDAP collaboration; XML collaboration; REST collaboration	AC-SW-ACM-DEMO-30D-6-P		\$0.00
Access Control Manager 6 Sixteen Doors Expansion Software Licenses	Additional 16 Doors Expansion Software Licenses for Avigilon Access Control Manager Professional; Enterprise; Enterprise Plus & Virtual	AC-SW-LIC-16RCU-6-P		\$909.14
Access Control Manager 6 Auto Failover License (per appliance)	Access Control Manager 6 Hot Standby - Auto Failover Software License (per Appliance) includes AC-SW-LIC-REP-6-P; Requires duplicate licensing for failover appliance	AC-SW-LIC-AF-6-P		\$5,457.00
Access Control Manager 6 Badging Software Licenses	Badging Software Licenses for Avigilon Access Control Manager Professional; Enterprise; Enterprise Plus & Virtual	AC-SW-LIC-BDGE-6-P		\$909.14
Access Control Manager 6 Partitioning License for additional partitions	Access Control Manager 6 Partitioning License for additional partitions (per appliance)	AC-SW-LIC-PART-6-P		\$4,547.86
Access Control Manager 6 Replication License (per appliance)	Access Control Manager 6 Multi-Appliance Replication Software License (per appliance)	AC-SW-LIC-REP-6-P		\$3,637.64
Access Control Manager 6 REST Connectivity Software License	Access Control Manager 6 REST Connectivity Software License (per appliance)	AC-SW-LIC-REST-6-P		\$909.14
Access Control Manager 6 Wireless Lock Connectivity Software License	Access Control Manager 6 Wireless Lock Connectivity Software License for each wireless locks not purchased from Motorola Solutions	AC-SW-LIC-WIRELESS-LOCK-6-P		\$200.00
Access Control Manager 6 LDAP Directory Connectivity Software License	Access Control Manager 6 LDAP Directory Connectivity Software License (required for integration with Microsoft Active Directory or other directory products)(per appliance)	AC-SW-LIC-LDAP-6-P		\$2,728.50
Access Control Manager 6 Oracle Server Connectivity Software License	Access Control Manager 6 Oracle Server Connectivity Software License (from Oracle DB 9i forward)(per appliance)	AC-SW-LIC-ORCL-6-P		\$3,637.64
Access Control Manager 6 Microsoft SQL Server Connectivity Software License	Access Control Manager 6 Microsoft SQL Server Connectivity Software License (from Microsoft SQL 2000 forward)(per appliance)	AC-SW-LIC-SQL-6-P		\$1,819.36
Access Control Manager 6 XML Events Connectivity Software License	Access Control Manager 6 XML Events Connectivity Software License (per appliance)	AC-SW-LIC-XML-6-P		\$909.14
Access Control Manager 6 License for the migration of ACM Embedded Controller.	Access Control Manager 6 License for the migration and conversion of a single ACM Embedded Controller into an ACM Professional; Enterprise of Virtual system. One license is required for each ACM Embedded Controller to be migrated. License includes migration of Cardholders into identities and conversion of the ACM EC into a HID VertX EVO V1000 controller. The ACM system does require the appropriate number of HID licensing (AC-SW-HID-RDR).	AC-SW-LIC-ACMEC-MIG-6-P		\$218.28
Access Control Manager 6 Bosch Integration Software Licenses	Bosch Intrusion (10 Panel) Integration Software Licenses for Avigilon Access Control Manager 6 Professional; Enterprise; Enterprise Plus & Virtual	AC-SW-LIC-BOSCHINTR-10PANEL-6-P		\$3,274.20
Access Control Manager 6 Bosch Integration Software Licenses	Bosch Intrusion (1 Panel) Integration Software Licenses for Avigilon Access Control Manager 6 Professional; Enterprise; Enterprise Plus & Virtual	AC-SW-LIC-BOSCHINTR-1PANEL-6-P		\$354.71
Access Control Manager 6 NON OEM HID VertX EVO Assimilation License	Access Control Manager 6 NON OEM (Non Avigilon Ordered) HID VertX EVO V1000 or HID VertX EVO V2000 Assimilation License (One required per VertX EVO Controller)	AC-SW-LIC-HID-VERTX-ASM-6-P		\$545.70
Access Control Manager 6 VIRD/BE Integration Software Licenses	VIRD/BE Manager Integration Software Licenses for Avigilon Access Control Manager 6 Professional; Enterprise; Enterprise Plus & Virtual	AC-SW-LIC-VIRDI-BIO-6-P		\$2,728.50
Access Control Manager 6 License for Video Integration for Exacq	Access Control Manager 6 License for Video Integration for Exacq (per appliance)	AC-SW-LIC-EXACQ-6-P		\$4,546.77
Access Control Manager 6 License for Video Integration for Milestone	Access Control Manager 6 License for Video Integration for Milestone (per appliance)	AC-SW-LIC-MILEST-6-P		\$4,546.77
Access Control Manager 6 (ACM) Verify license for 16 virtual stations	Access Control Manager 6 (ACM) Verify license for 16 virtual stations (per appliance)	AC-SW-LIC-AVO-VER-16VS-6-P		\$909.14
Access Control Manager 6 (ACM) Verify license for 5 virtual stations	Access Control Manager 6 (ACM) Verify license for 5 virtual stations (per appliance)	AC-SW-LIC-AVO-VER-5VS-6-P		\$327.42

Access Control Manager Enterprise 6 – Enterprise Appliance for 128 Readers	Access Control Manager Enterprise 6 – Web-Based PACS Enterprise Appliance for 128 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 128 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 128 to 400 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 250K identities and 150M stored events and twenty (20) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-128R-ENT-2-6	\$10,368.30
Access Control Manager Enterprise 6 – Enterprise Appliance for 16 Readers	Access Control Manager Enterprise 6 – Web-Based PACS Enterprise Appliance for 16 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 16 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 16 to 400 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 250K identities and 150M stored events and twenty (20) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-16R-ENT-2-6	\$4,001.07
Access Control Manager Enterprise 6 – Enterprise Appliance for 256 Readers	Access Control Manager Enterprise 6 – Web-Based PACS Enterprise Appliance for 256 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 256 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 256 to 400 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 250K identities and 150M stored events and twenty (20) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-256R-ENT-2-6	\$17,643.57
Access Control Manager Enterprise 6 – Enterprise Appliance for 32 Readers	Access Control Manager Enterprise 6 – Web-Based PACS Enterprise Appliance for 32 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 32 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 32 to 400 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 250K identities and 150M stored events and twenty (20) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-32R-ENT-2-6	\$4,910.21
Access Control Manager Enterprise 6 – Enterprise Appliance for 64 Readers	Access Control Manager Enterprise 6 – Web-Based PACS Enterprise Appliance for 64 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 64 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 64 to 400 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 250K identities and 150M stored events and twenty (20) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-64R-ENT-2-6	\$6,729.57
1 Year Extended Warranty for Access Control Manager Enterprise Appliance	1 Year Extended Warranty for Access Control Manager Enterprise Appliance	AC-APP-ENT2-WARR-EXTEND-1YR	\$698.50
2 Year Extended Warranty for Access Control Manager Enterprise Appliance	2 Year Extended Warranty for Access Control Manager Enterprise Appliance	AC-APP-ENT2-WARR-EXTEND-2YR	\$1,396.99
Access Control Manager Enterprise Plus 6 – Ent Plus Appliance for 1024 Readers	Access Control Manager Enterprise Plus 6 – Web-Based PACS Plus Appliance for 1024 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 1024 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 1024 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-1024R-ENT-PLUS-6	\$49,113.00
Access Control Manager Enterprise Plus 6 – Ent Plus Appliance for 16 Readers	Access Control Manager Enterprise Plus 6 – Web-Based PACS Plus Appliance for 16 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 16 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 16 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-16R-ENT-PLUS-6	\$12,914.54
Access Control Manager Enterprise Plus 6 – Ent Plus Appliance for 2048 Readers	Access Control Manager Enterprise Plus 6 – Web-Based PACS Plus Appliance for 2048 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 2048 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity cannot be expanded | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-2048R-ENT-PLUS-6	\$62,209.80
Access Control Manager Enterprise Plus 6 – Ent Plus Appliance for 256 Readers	Access Control Manager Enterprise Plus 6 – Web-Based PACS Plus Appliance for 256 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 256 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 256 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-256R-ENT-PLUS-6	\$22,919.40
Access Control Manager Enterprise Plus 6 – Ent Plus Appliance for 512 Readers	Access Control Manager Enterprise Plus 6 – Web-Based PACS Plus Appliance for 512 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 512 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 512 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-512R-ENT-PLUS-6	\$36,016.20
1 Year Extended Warranty for Access Control Manager Enterprise Plus Appliance	1 Year Extended Warranty for Access Control Manager Enterprise Plus Appliance	AC-APP-ENT-PLUS-WARR-EXTEND-1YR	\$824.01
2 Year Extended Warranty for Access Control Manager Enterprise Plus Appliance	2 Year Extended Warranty for Access Control Manager Enterprise Plus Appliance	AC-APP-ENT-PLUS-WARR-EXTEND-2YR	\$1,653.47
Access Control Manager Professional 6 – Professional Appliance for 16 Readers	Access Control Manager Professional 6 – Web-Based PACS Professional Appliance for 16 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 16 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity can be expanded from 16 to 32 readers with the purchase of one AC-SW-LIC-16RCU-6-P 16 Reader Count Software License | Supports up to 32 controllers; 75K identities; 75M stored transactions and ten (10) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-16R-PRO-6	\$1,819.36
Access Control Manager Professional 6 – Professional Appliance for 32 Readers	Access Control Manager Professional 6 – Web-Based PACS Professional Appliance for 32 Readers - includes: | physical appliance | embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 32 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identifies CSV export; recurring, one-time; long & short format | Total reader capacity cannot be expanded | Supports up to 32 controllers; 75K identities and 75M stored transactions and ten (10) simultaneous operators (via browser) | Three (3) year appliance hardware warranty begins at date of shipment	AC-APP-32R-PRO-6	\$2,728.50
1 Year Extended Warranty for Access Control Manager Professional Appliance	1 Year Extended Warranty for Access Control Manager Professional Appliance	AC-APP-PRO-WARR-EXTEND-1YR	\$245.57
2 Year Extended Warranty for Access Control Manager Professional Appliance	2 Year Extended Warranty for Access Control Manager Professional Appliance	AC-APP-PRO-WARR-EXTEND-2YR	\$491.13

Access Control Manager Virtual 6 - Web-Based PACS Virtual for 1024 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 1024 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 1024 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 1024 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-1024R-VM-6-P	\$38,199.00
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 128 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 128 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 128 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 128 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-128R-VM-6-P	\$9,094.64
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 16 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 16 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 16 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 16 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-16R-VM-6-P	\$2,728.50
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 2048 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 2048 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 128 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity cannot be expanded | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-2048R-VM-6-P	\$58,207.64
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 256 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 256 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 256 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 256 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-256R-VM-6-P	\$16,371.00
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 32 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 32 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 32 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 32 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-32R-VM-6-P	\$3,637.64
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 512 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 512 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 512 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 512 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-512R-VM-6-P	\$30,923.73
Access Control Manager Virtual 6 - Web-Based PACS Virtual for 64 Readers	Access Control Manager Virtual 6 - Web-Based PACS Virtual for 64 Readers - includes: embedded 64 bit Linux OS & Open LDAP for configuration database | Access Control Manager Security Management Software | 64 Reader Count Software License | One (1) ACM Verify | ACC Video Integration | Five (5) partitions | Identities CSV export; recurring; one-time; long & short format | Total reader capacity can be expanded from 64 to 2048 readers; in increments of 16; with the purchase of the desired quantity of AC-SW-LIC-16RCU-6-P; 16 Reader Count Software Licenses | Supports up to 512 controllers | 500K identities and 150M stored events and Fifty (50) simultaneous operators (via browser) | VMware software is required and not included	AC-SW-64R-VM-6-P	\$5,457.00
Access Control Manager Embedded Controller	Avigilon Access Control Manager Embedded Controller; Browser Based ACM Controller for Up To 16 Doors	AC-HID-ACMEC	\$1,529.40
HID VertX V100 Reader Interface	VertX V100 Reader Interface (with plastic enclosure back plate & cover)	AC-HID-VERTX-V100	\$638.31
HID VertX EVO V1000 Networked Controller	VertX EVO V1000 Networked Controller (with plastic enclosure back plate & cover); 100,000 Cardholders	AC-HID-VERTX-V1000	\$1,321.58
HID VertX V200 Input Monitor Interface	VertX V200 Input Monitor Interface (with plastic enclosure back plate & cover)	AC-HID-VERTX-V200	\$700.44
HID VertX EVO V2000 Networked Controller / Reader Interface	VertX EVO V2000 Networked Controller / Reader Interface (with plastic enclosure back plate & cover); 100,000 Cardholders	AC-HID-VERTX-V2000	\$1,321.58
HID VertX V300 Output Control Interface	VertX V300 Output Control Interface (with plastic enclosure back plate & cover)	AC-HID-VERTX-V300	\$748.63
LITHIUM COIN CELLS BR/CR2325; 20-pack (Mercury Part #: A-BAT23MM)	LITHIUM COIN CELLS BR/CR2325; 20-pack (Mercury Part Number: A-BAT23MM)	AC-MER-A-BAT23MM	\$92.77
AXIAL LEADED 1K1%/14W RESISTORS; 32-pack (Mercury Part #: RES-1K32)	AXIAL LEADED 1K1%/14W RESISTORS; 32-pack (Mercury Part Number: RES-1K32)	AC-MER-A-RES-1K32	\$11.85
CABLE FOR MR-50 TAMPERS (Mercury Part #: A-TC-MR50)	CABLE FOR MR-50 TAMPERS (Mercury Part Number: A-TC-MR50)	AC-MER-A-TC-MR50	\$4.64
Replace 3-Position Terminal Blocks; 10-pack (Mercury Part Number: A-TERMS-3)	Replace 3-Position Terminal Blocks; 10-pack (Mercury Part Number: A-TERMS-3)	AC-MER-A-TERMS-3	\$30.90
Replace 4-Position Terminal Blocks; 10-pack (Mercury Part #: A-TERMS-4)	Replace 4-Position Terminal Blocks; 10-pack (Mercury Part Number: A-TERMS-4)	AC-MER-A-TERMS-4	\$40.06
Replace 5-Position Terminal Blocks; 10-pack (Mercury Part #: A-TERMS-5)	Replace 5-Position Terminal Blocks; 10-pack (Mercury Part Number: A-TERMS-5)	AC-MER-A-TERMS-5	\$51.55
Replace 6-Position Terminal Blocks; 10-pack (Mercury Part #: A-TERMS-6)	Replace 6-Position Terminal Blocks; 10-pack (Mercury Part Number: A-TERMS-6)	AC-MER-A-TERMS-6	\$60.71
16 Zone Input Monitor Module with 2 relays (Mercury Part #: MR16in-S3)	16 Zone Input Monitor Module with 2 relays (Mercury Part Number: MR16in-S3)	AC-MER-CON-MR16IN	\$1,007.74
16 Relay Output Control Module (Mercury Part #: MR16out-S3)	16 Relay Output Control Module (Mercury Part Number: MR16out-S3)	AC-MER-CON-MR16OUT	\$1,007.74
Series 3 Single Reader Interface Module (Mercury Part #: MR50-S3)	Series 3 Single Reader Interface Module: mag or wigand; 2 inputs; 2 relays (Mercury Part Number: MR50-S3)	AC-MER-CON-MR50	\$411.10
Series 3 Two-Reader Interface Module (Mercury Part #: MR52-S3)	Series 3 Two-Reader Interface Module: mag or wigand; 8 inputs; 6 relays (Mercury Part Number: MR52-S3)	AC-MER-CON-MR52	\$815.36
Series 3B Two-Reader Interface Module (Mercury Part #: MR52-S3B)	HID® Mercury™ MR52-S3B Controller Serial I/O Dual Card Reader Interface; 2-Reader Interface Module - (2 reader; mag; wigand; 4 reader OSDP; 8 inputs; 6 relays) (Mercury MR52-S3B)	AC-MER-CON-MR52-S3B	\$856.18
Intelligent Controller (Mercury Part #: LP1501)	Intelligent Controller; Linux Based with 1 door; 2 inputs and 2 outputs; PoE+ Support; expandable up to 17 doors. (Mercury Part #: LP1501)	AC-MER-CONT-LP1501	\$786.75
Intelligent Controller (Mercury Part #: LP1502)	Intelligent Controller; Linux Based with 2 doors; 8 inputs and 4 outputs; expandable up to 64 doors. (Mercury Part #: LP1502)	AC-MER-CONT-LP1502	\$1,480.69
Intelligent Controller (Mercury Part #: LP2500)	Intelligent Controller; Linux Based; expandable up to 64 doors. (Mercury Part #: LP2500)	AC-MER-CONT-LP2500	\$2,174.67
Intelligent Controller (Mercury Part #: LP4502)	Intelligent Controller; Linux Based with 2 doors; 8 inputs and 4 outputs; expandable up to 64 doors. (Mercury Part #: LP4502)	AC-MER-CONT-LP4502	\$2,984.29
Mercury M5 Bridge 16 DO	Mercury M5 Bridge 16 DO; 16 Digital Output Control Module-(16 digital arrays) (1 board)(Mercury Part Number: M5-16DO-1)	AC-MER-M5-16DO-1	\$671.81
Mercury M5 Bridge 16 DOR	Mercury M5 Bridge 16 DOR; 16 Relay Output Control Module-(16 solid state relays) (1 board)(Mercury Part Number: M5-16DOR-1)	AC-MER-M5-16DOR-1	\$671.81
Mercury M5 Bridge 20 IN	Mercury M5 Bridge 20 IN; 20 Zone Input Monitor Module (1 board)(Mercury Part Number: M5-20IN-1)	AC-MER-M5-20IN-1	\$703.81
Mercury M5 M2000 with with M5 IC	Mercury M5 Bridge M2000 with with M5 IC; Multi-device interface panel for replacement of the Casi M2000 reader controller; includes the M5-IC as well as the 4 reader daughter board (Mercury Part Number: M5-2K)	AC-MER-M5-2K	\$2,399.31
Mercury M5 M2000 only	Mercury M5 Bridge M2000 only; Multi-device interface panel for replacement of the Casi M2000 reader controller; does NOT include M5-IC that is sold separately (Mercury Part Number: M5-2K-BASE)	AC-MER-M5-2K-BASE	\$1,141.01
Mercury M5 Bridge 2SRP	Mercury M5 Bridge 2SRP; Supervised Reader Interface Module-(2 Rdr; 4 Inputs; 6 Outputs) (1 board)(Mercury Part Number: M5-2SRP-1)	AC-MER-M5-2SRP-1	\$671.81
Mercury M5 Bridge 8RP	Mercury M5 Bridge 8RP; Supervised Reader Interface Module-(8 Supervised Rdr Connections) (1 board)(Mercury Part Number: M5-8RP-1)	AC-MER-M5-8RP-1	\$1,066.35
Mercury M5 Bridge COM	Mercury M5 Bridge COM; Combination Power & RS485; Communications Bridge (1 board)(Mercury Part Number: M5-COM-1)	AC-MER-M5-COM-1	\$320.65
Mercury M5 Bridge IC	Mercury M5 Bridge IC; Intelligent Controller; 32MB RAM; Ethernet; Dual RS485 ports (1 board)(Mercury Part Number: M5-IC-1)	AC-MER-M5-IC-1	\$1,375.59
RS-232/485 to 8 RS-485 Channel Mux (Mercury Part #: MUX8)	RS-232/485 to 8 RS-485 Channel Mux (Mercury Part Number: MUX8)	AC-MER-MUX8	\$1,017.84
Reader Interface Module (Mercury Part #: MR62e)	Reader Interface Module with 2 doors; 4 inputs and 4 outputs; PoE+ Support. (Mercury Part #: MR62e)	AC-MER-RIM-MR62E	\$925.29

Stid CCTW670	NON PROGRAMED 13.56 MHz NXP MIFARE® DESFire® EV2 2K chip - DESFire EV2 2K ISO Card (MOQ 200) - NO LOGO - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-CARD-NONPROGRAMED-CCTW670	\$5.58
Stid PCGW671	NON PROGRAMED 13.56 MHz NXP MIFARE® DESFire® EV2 2K chip - DESFire EV2 2K Keyfob (MOQ 100) - NO LOGO - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-KEYFOB-NONPROGRAMED-PCGW671	\$10.44
Allegion 9651	Schlage 13.56 MHz smart credential; keyfob; MIFARE Classic; 1K byte/8Kbit; minimum order quantity: 50 (Allegion Part Number: 9651)	AC-ALL-SCH-FOB-9651	\$6.99
Allegion 9651T	Schlage 13.56 MHz smart credential; thin keyfob; MIFARE Classic; 1K byte/8Kbit; minimum order quantity: 50 (Allegion Part Number: 9651T)	AC-ALL-SCH-FOB-9651T	\$7.21
Allegion 7410	Proximity Card Clamshell (Allegion Part Number: XF7410)	AC-ING-CARD-APTIQ-XF7410	\$3.22
Allegion 7510	Proximity Card ISO Glossy White (Allegion Part Number: XF7510)	AC-ING-CARD-APTIQ-XF7510	\$5.41
Allegion 7510MS	Proximity and Magnetic Stripe Card ISO Glossy White (Allegion Part Number: XF7510MS)	AC-ING-CARD-APTIQ-XF7510MS	\$6.23
Allegion 8420	Schlage (formerly aptiQ™) Smart Card 2K byte/16k bit Clamshell (Allegion Part Number: XF8420)	AC-ING-CARD-APTIQ-XF8420	\$6.72
Allegion 8440	Schlage (formerly aptiQ™) Smart Card 4K byte/32k bit Clamshell (Allegion Part Number: XF8440)	AC-ING-CARD-APTIQ-XF8440	\$7.59
Allegion 8480	Schlage (formerly aptiQ™) Smart Card 8K byte/64k bit Clamshell (Allegion Part Number: XF8480)	AC-ING-CARD-APTIQ-XF8480	\$9.29
Allegion 8520	Schlage (formerly aptiQ™) Smart Card 2K byte/16k bit ISO Glossy White (Allegion Part Number: XF8520)	AC-ING-CARD-APTIQ-XF8520	\$7.32
Allegion 8520M1	Schlage (formerly aptiQ™) Smart Card 2K byte/16k bit with Magnetic Stripe ISO Glossy White (Allegion Part Number: XF8520M1)	AC-ING-CARD-APTIQ-XF8520M1	\$7.98
Allegion 8540	Schlage (formerly aptiQ™) Smart Card 4K byte/32k bit ISO Glossy White (Allegion Part Number: XF8540)	AC-ING-CARD-APTIQ-XF8540	\$8.25
Allegion 8540M1	Schlage (formerly aptiQ™) Smart Card 4K byte/32k bit with Magnetic Stripe ISO Glossy White (Allegion Part Number: XF8540M1)	AC-ING-CARD-APTIQ-XF8540M1	\$8.85
Allegion 8580	Schlage (formerly aptiQ™) Smart Card 8K byte/64k bit ISO Glossy White (Allegion Part Number: XF8580)	AC-ING-CARD-APTIQ-XF8580	\$9.83
Allegion 8580M1	Schlage (formerly aptiQ™) Smart Card 8K byte/64k bit with Magnetic Stripe ISO Glossy White (Allegion Part Number: XF8580M1)	AC-ING-CARD-APTIQ-XF8580M1	\$10.60
Allegion 8720	Schlage (formerly Schlage (formerly aptiQ™)) Smart Card 2K byte/16k bit PVC Patch (Allegion Part Number: XF8720)	AC-ING-CARD-APTIQ-XF8720	\$6.67
Allegion 8740	Schlage (formerly Schlage (formerly aptiQ™)) Smart Card 4K byte/32k bit PVC Patch (Allegion Part Number: XF8740)	AC-ING-CARD-APTIQ-XF8740	\$7.54
Allegion 8780	Schlage (formerly Schlage (formerly aptiQ™)) Smart Card 8K byte/64k bit PVC Patch (Allegion Part Number: XF8780)	AC-ING-CARD-APTIQ-XF8780	\$9.07
Allegion 8920	Proximity and Schlage (formerly aptiQ™) Smart Card Combo 2K byte/16k bit ISO Glossy White (Allegion Part Number: XF8920)	AC-ING-CARD-APTIQ-XF8920	\$10.71
Allegion 8940	Proximity and Schlage (formerly aptiQ™) Smart Card Combo 4K byte/32k bit ISO Glossy White (Allegion Part Number: XF8940)	AC-ING-CARD-APTIQ-XF8940	\$11.69
Allegion 8980	Proximity and Schlage (formerly aptiQ™) Smart Card Combo 8K byte/64k bit ISO Glossy White (Allegion Part Number: XF8980)	AC-ING-CARD-APTIQ-XF8980	\$13.55
Allegion 9420	MIFARE Smart Card 2.5k bit Clamshell (Allegion Part Number: XF9420)	AC-ING-CARD-APTIQ-XF9420	\$4.10
Allegion 9520	MIFARE Smart Card 2.5 k bit ISO Glossy White (Allegion Part Number: XF9520)	AC-ING-CARD-APTIQ-XF9520	\$5.14
Allegion 9520MS	MIFARE Smart Card 2.5 k bit with magnetic stripe ISO Glossy White (Allegion Part Number: XF9520MS)	AC-ING-CARD-APTIQ-XF9520MS	\$5.93
Allegion 9551	MIFARE Contactless Smart Card 1k byte/8k bit ISO Glossy White (Allegion Part Number: XF9551)	AC-ING-CARD-APTIQ-XF9551	\$6.16
Allegion 9551MS	MIFARE Contactless ISO Glossy Smart Card 1k byte/8k bit & mag stripe (Allegion Part Number: XF9551MS)	AC-ING-CARD-APTIQ-XF9551MS	\$6.96
Allegion 9558	MIFARE Contactless Smart Card 4k byte/32k bit ISO Glossy White (Allegion Part Number: XF9558)	AC-ING-CARD-APTIQ-XF9558	\$8.63
Allegion 9558MS	MIFARE Contactless ISO Glossy Smart Card 4k byte/32k bit and mag stripe (Allegion Part Number: XF9558MS)	AC-ING-CARD-APTIQ-XF9558MS	\$9.51
Allegion 9651	MIFARE Smart 1k bit (minimum order is 50) Keytag (Allegion Part Number: XF9651)	AC-ING-CARD-APTIQ-XF9651	\$6.99
Allegion 9751	MIFARE Smart Cards 1k byte/8k bit PVC Patch (Allegion Part Number: XF9751)	AC-ING-CARD-APTIQ-XF9751	\$6.34
Allegion 9758	MIFARE Smart Cards 4k byte/32k bit PVC Patch (Allegion Part Number: XF9758)	AC-ING-CARD-APTIQ-XF9758	\$9.51
Allegion 9951	Proximity and Contactless Smart Card Combo ISO Glossy White 1k byte/8k bit Card (Allegion Part Number: XF9951)	AC-ING-CARD-APTIQ-XF9951	\$8.96
Allegion 9958	Proximity and Contactless Smart Card Combo ISO Glossy White 4k byte/32k bit (Allegion Part Number: XF9958)	AC-ING-CARD-APTIQ-XF9958	\$10.60
Allegion 7010	Proximity Sticky Disk (35 mm Disk); minimum order quantity: 50 (Allegion Part Number: XF7010)	AC-ING-DISK-APTIQ-XF7010	\$5.14
Allegion 7610	Proximity Keyfob; minimum order quantity: 50 (Allegion Part Number: XF7610)	AC-ING-FOB-APTIQ-XF7610	\$5.57
Allegion 2420	Allegion Schlage 13.56 MHz smart credential 2420; Clamshell; MIFARE DESFire EV2 ISO 14443; 2K byte/16Kbit; minimum order quantity: 100 (Allegion Part Number: 2420)	AC-SCH-CARD-2420	\$6.72
Allegion 2520	Allegion Schlage 13.56 MHz smart credential 2520; ISO glossy white printable composite Material; MIFARE DESFire EV2 ISO 14443; 2K byte/16Kbit; minimum order quantity: 100 (Allegion Part Number: 2520)	AC-SCH-CARD-2520	\$7.65
Allegion 2540	Allegion Schlage 13.56 MHz smart credential 2540; ISO glossy white printable composite Material; MIFARE DESFire EV2 ISO 14443; 4K byte/32Kbit; No Slot Punch; minimum order quantity: 100 (Allegion Part Number: 2540)	AC-SCH-CARD-2540	\$8.00
Allegion 2540-SPH	Allegion Schlage 13.56 MHz smart credential 2540-SPH; ISO glossy white printable composite Material; MIFARE DESFire EV2 ISO 14443; 4K byte/32Kbit; Horizontal Slot Punch; minimum order quantity: 100 (Allegion Part Number: 2540-SPH)	AC-SCH-CARD-2540-SPH	\$8.39
Allegion 2540-SPV	Allegion Schlage 13.56 MHz smart credential 2540-SPV; ISO glossy white printable composite Material; MIFARE DESFire EV2 ISO 14443; 4K byte/32Kbit; Vertical Slot Punch; minimum order quantity: 100 (Allegion Part Number: 2540-SPV)	AC-SCH-CARD-2540-SPV	\$8.39
Allegion 2920	Allegion Schlage 125 kHz/13.56 MHz multi-technology credentials 2920; ISO glossy white printable composite Material; Proximity/MIFARE DESFire EV2 ISO 14443; 2K byte/8K bit; minimum order quantity: 100 (Allegion Part Number: 2920)	AC-SCH-CARD-2920	\$10.67
Schlage 8943	Schlage Multi-technology credential; 125 kHz + 13.56 MHz; Proximity and Schlage MIFARE DESFire EV3 4K byte/32K bit ISO Glossy White Card; No Slot Punch (Minimum order 100)	AC-SCH-CARD-MT-8943	\$10.44
Allegion 2620T	Allegion Schlage 13.56 MHz smart credential 2620T; Thin keyfob; MIFARE DESFire EV2 ISO 14443; 2K byte/16K bit; minimum order quantity: 100 (Allegion Part Number: 2620T)	AC-SCH-FOB-2620T	\$7.58
Schlage 8843T	Schlage Multi-technology credential; 125 kHz + 13.56 MHz; Proximity and Schlage MIFARE DESFire EV3 4K byte/32K bit; Thin keyfob; keyring hole (Minimum order 100)	AC-SCH-FOB-MT-8843T	\$11.19
Farpointe Data CSM-2P	CONEKT™ High-security ISO-style composite card	AC-FP-CARD-CONEKT-CSM-2P	\$6.94
Farpointe Data CSC-2	High-security clamshell-style card; MIFARE® DESFire® EV2	AC-FP-CARD-CSC-2	\$6.82
Farpointe Data CSM-2S	CONEKT™ Credential High-security ISO-style composite card with HiCo (2750Oe) magnetic stripe	AC-FP-CARD-CSM-2S	\$7.14
Farpointe Data DC1-1	DC1-1 Delta Clamshell Contactless Smartcard - ISO14443-compliant; clamshell-style contactless smartcard card with a 1K-byte memory. Constructed of durable ABS; it is backed by a lifetime warranty. Memory of the model number DC1-1 is 4K-bytes (Minimum order is 50) (Farpointe Data Part Number: DC1-1)	AC-FP-CARD-DC1-1	\$4.01
Farpointe Data DC4-1	DC4-1 Delta Clamshell Contactless Smartcard - ISO14443-compliant; clamshell-style contactless smartcard card with a 4K-byte memory. Constructed of durable ABS; it is backed by a lifetime warranty (Minimum order is 50) (Farpointe Data Part Number: DC4-1)	AC-FP-CARD-DC4-1	\$5.59
Farpointe Data DE2	DE2 MIFARE® DESFire® EV1 SMARTCARD; Frequency: 13.56 MHz; Read Range: Up to 2.5 inches (64 mm) (Farpointe Data Part Number: DE2)	AC-FP-CARD-DE2	\$8.76
Farpointe Data DM1-3	DM1-3 Delta ISO Contactless Smartcard - ISO14443-compliant; contactless smartcard card with a 1K-byte memory. Manufactured from glossy PVC; it is appropriate for dye sublimation imaging (ISO style) (Minimum order is 50) (Farpointe Data Part Number: DM1-3)	AC-FP-CARD-DM1-3	\$4.28

Farpointe Data DM1-3S	DM1-3S Delta ISO Contactless Smartcard - ISO14443-compliant; contactless smartcard card with a 1K-byte memory. Manufactured from glossy PVC; it is appropriate for dye sublimation imaging (ISO style) - with a magnetic stripe (Minimum order is 50) (Farpointe Data Part Number: DM1-3S)	AC-FP-CARD-DM1-3S	\$4.78
Farpointe Data DM4-3	DM4-3 Delta ISO Contactless Smartcard - ISO14443-compliant; contactless smartcard card with a 4K-byte memory. Manufactured from glossy PVC; it is appropriate for dye sublimation imaging (ISO style) (Minimum order is 50) (Farpointe Data Part Number: DM4-3)	AC-FP-CARD-DM4-3	\$6.00
Farpointe Data DM4-3S	DM4-3S Delta ISO Contactless Smartcard - ISO14443-compliant; contactless smartcard card with a 4K-byte memory. Manufactured from glossy PVC; it is appropriate for dye sublimation imaging (ISO style) - with a magnetic stripe (Minimum order is 50) (Farpointe Data Part Number: DM4-3S)	AC-FP-CARD-DM4-3S	\$6.93
Farpointe Data PSC-1-H	PSC-1 Standard Light Proximity Card - Clamshell style proximity card backed by a lifetime warranty (Minimum order is 50) (Farpointe Data Part Number: PSC-1-H)	AC-FP-CARD-PSC-1-H	\$2.63
Farpointe Data PSI-4-H	PSI-4 Image Technology Proximity Card - Thicker-format (0.046 inches (1.17 mm)) proximity card appropriate for dye sublimation imaging (Minimum order is 50) (Farpointe Data Part Number: PSI-4-H)	AC-FP-CARD-PSI-4-H	\$3.26
Farpointe Data PSM-2P-H	PSM-2P Multi Technology Proximity Card - ISO-style multi technology proximity card appropriate for dye sublimation imaging (Minimum order is 50) (Farpointe Data Part Number: PSM-2P-H)	AC-FP-CARD-PSM-2P-H	\$5.48
Farpointe Data PSM-2S-H	PSM-2S Multi Technology Proximity Card - ISO-style multi technology style proximity card appropriate for dye sublimation imaging with a magnetic stripe (Minimum order is 50) (Farpointe Data Part Number: PSM-2S-H)	AC-FP-CARD-PSM-2S-H	\$5.97
Farpointe Data CMC-2-25	CONEXT Credentials; 2.4-GHz Mobile supporting BLE-enabled smartphones; 25 Pack with QR Code	AC-FP-CONEXT-CMC-2-25	\$180.54
Farpointe Data CSK-2	High-security key fob-style tag; MIFARE® DESFire® EV2	AC-FP-FOB-CSK-2	\$7.92
Farpointe Data DK1-3	DK1-3 Delta Keyfob Contactless Smartcard Credential - ISO14443-compliant key tag-style contactless smartcard credential with a 1K-byte memory. It is designed to be carried on a key ring; and includes a brass reinforcing eyelet (Minimum Order 50) (Farpointe Data Part Number: DK1-3)	AC-FP-FOB-DK1-3	\$7.36
Farpointe Data DK4-3	DK4-3 Delta Keyfob Contactless Smartcard Credential - ISO14443-compliant key tag-style contactless smartcard credential with a 4K-byte memory. It is designed to be carried on a key ring; and includes a brass reinforcing eyelet (Minimum Order 50) (Farpointe Data Part Number: DK4-3)	AC-FP-FOB-DK4-3	\$10.76
Farpointe Data CMC-2	CONEXT™ Credential 2.4-GHz Mobile credential supporting BLE-enabled smartphones	AC-FP-MOB-CMC-2	\$7.24
Farpointe Data PDT-1-H	Model PDT-1 Proximity Disc Tag - Has an adhesive on one side that allows for the prox-enabling of a variety of non RFID devices; including ID credentials; cell phones and wallets. The PDT-1 offers a read range up to 3.5 inches (88.9 mm) when used with a P-500. Model P-PDT-1-H is 125 kHz HID compatible; while PDT-1-A is 125 kHz AWID compatible (Minimum order 50) (Farpointe Data Part Number: PDT-1-H)	AC-FP-TAG-PDT-1-H	\$3.66
Farpointe Data PSK-3-H	PSK-3 Proximity Key Ring Tag - Small proximity tag designed to be carried on a key ring; includes a reinforcing brass eyelet; and is backed by a lifetime warranty (Minimum order 50) (Farpointe Data Part Number: PSK-3-H)	AC-FP-TAG-PSK-3-H	\$6.07
Farpointe Data WRT-2+S1	Ranger® 433-MHz Long-Range Transmitters; 2-button; with 1K insert. (Farpointe Data Part Number: WRT-2+S1)	AC-FP-TRANS-LONG-RANGE-WRT-2+S1	\$41.18
Farpointe Data WRT-2+S4	Ranger® 433-MHz Long-Range Transmitters; 2-button; with 4K insert. (Farpointe Data Part Number: WRT-2+S4)	AC-FP-TRANS-LONG-RANGE-WRT-2+S4	\$44.28
Farpointe Data WRT-2M	Ranger® 433-MHz Long-Range Transmitters; Mini 2-button; no proximity insert. (Farpointe Data Part Number: WRT-2M)	AC-FP-TRANS-LONG-RANGE-WRT-2M	\$24.48
Farpointe Data WRT-4+S4	Ranger® 433-MHz Long-Range Transmitters; 4-button; with 4K insert. (Farpointe Data Part Number: WRT-4+S4)	AC-FP-TRANS-LONG-RANGE-WRT-4+S4	\$46.30
Farpointe Data WRT-4+S1	Ranger® 433-MHz Long-Range Transmitters; 4-button; with 1K insert. (Farpointe Data Part Number: WRT-4+S1)	AC-FP-TRANS-LONG-RANGE-WRT-4+S1	\$43.20
Farpointe Data WRT-2+H	WRT-2+ Ranger Two Button Long Range Transmitter - 2-button clicker-type access credential; featuring both long range (upon button push) and proximity operation. (Farpointe Data Part Number: WRT-2+H)	AC-FP-TRANS-WRT-2+H	\$37.16
Farpointe Data WRT-4+H	WRT-4+ Ranger Four-Button Long Range Transmitter - 4-button clicker-type access credential; featuring both long range (upon button push) and proximity operation. (Farpointe Data Part Number: WRT-4+H)	AC-FP-TRANS-WRT-4+H	\$38.08
HID 2122BGGMNN	COMPOSITE iCLASS/PROX; 16K/16; PROG; F-GLOSS; MATCHING iCLASS#; NO SLOT; NO PROX#	AC-HID-CARD-2122BGGMNN	\$14.79
HID 3000PG1MN	iCLASS 2K/2 SE; PROG; F-GLOSS; B-GLOSS W/MAG; MATCH; NO SLOT; Minimum Order 100 (HID Part Number: 3000PG1MN)	AC-HID-CARD-3000PG1MN	\$7.16
HID 3150RGGMNM	COMPOSITE iCLASS PROX SE 2K/2; PROG iCLASS/PROX; F-GLOSS; B-GLOSS; MATCH iCLASS#; NO SLOT; MATCH PROX # MIN ORDER QUANTITY 100	AC-HID-CARD-3150RGGMNM	\$13.00
HID SEC9X-CRD-0-005J	Configuration card used to adjust CSN output settings from 32 bit MSB to 56 bit LSB on iCLASS Standard; SE and SEOS readers. (HID #; SEC9X-CRD-0-005J)	AC-HID-CARD-ADMIN-SEC9X-CRD-0-005J	\$41.62
HID 1336LGGMN	DuoProx II Graphics Quality PVC; Proximity Access Card; w/ Magnetic Stripe; Minimum Order 100 (HID Part Number: 1336LGGMN)	AC-HID-CARD-DUOPROXII-CL	\$7.85
HID 2000PGGMN	iCLASS Contactless Smart Card; 2k bit with 2 application areas; Minimum Order 100 (HID Part Number: 2000PGGMN)	AC-HID-CARD-ICLASS-2000	\$5.78
HID 2002PGGMN	iCLASS Contactless Smart Card; 16k bit with 16 application areas; Minimum Order 100 (HID Part Number: 2002PGGMN)	AC-HID-CARD-ICLASS-2002	\$10.49
HID 2004PGGMN	iCLASS Contactless Smart Card; 32k bit with 16K/16 + 16K/1 application areas; Minimum Order 100 (HID Part Number: 2004PGGMN)	AC-HID-CARD-ICLASS-2004	\$10.91
HID 2050PNMNM	iCLASS Key II Contactless Smart Key Fob 2k bit with 2 application areas; Minimum Order 100 (HID Part Number: 2050PNMNM)	AC-HID-CARD-ICLASS-2050	\$7.53
HID 2080PMSMV	iCLASS Clamshell Contactless Smart Card; 2k bit with 2 application areas; Minimum Order 100 (HID Part Number: 2080PMSMV)	AC-HID-CARD-ICLASS-2080	\$3.89
HID 2100PG1MN	COMPOSITE iCLASS; 2K/2; PROG; F-GLOSS; F-GLOSS W/ MAG; MATCHING#; Minimum Order 100; (HID Part Number: 2100PG1MN)	AC-HID-CARD-ICLASS-2100	\$7.67
HID 3000PGGMV	HID iCLASS 2K/2; PROG; SE; F-GLOSS; B-GLOSS W/ BOTH VERT. & HORZ. SLOT INDICATORS; MATCH #; NO SLOT Minimum Order 100 (HID Part Number: 3000PGGMV)	AC-HID-CARD-ICLASS-3000PGGMV	\$5.79
HID 3000PGGMV	iCLASS 2K/2 SE; PROG; F-GLOSS; B-GLOSS; MATCH; VERT SLOT; Minimum Order 100 (HID Part Number: 3000PGGMV)	AC-HID-CARD-ICLASS-3000PGGMV	\$5.78
HID 3050PGGMN	iCLASS 2K/2 SE; COMPOSITE; PROG; F-GLOSS; B-GLOSS; MATCHING; NO SLOT; Minimum Order 100 (HID Part Number: 3050PGGMN)	AC-HID-CARD-ICLASS-3050PGGMN	\$6.29
HID 3350PMSMV	iCLASS SE Clamshell Card; 2k bits with 2 application areas; plain white vinyl with matte finish; HID logo on back; vertical slot punch; Minimum Order 100 (HID Part Number: 3350PMSMV).	AC-HID-CARD-ICLASS-3350PMSMV	\$3.88
HID 2120BG1MNN	iCLASS + Prox Contactless Smart Card; 2k bits with 2 application areas; plain white with gloss finish on front; plain white with magnetic stripe on back; no slot punch (HID #: 2120BG1MNN); Minimum Order 100. Specify programming information for 125kHz Proximity and iCLASS.	AC-HID-CARD-ICLASS-PROX-2120BG1MNN	\$14.35
HID 2120BGGMNM	iCLASS + Prox Contactless Smart Card; 2k bits with 2 application areas; plain white with gloss finish; no slot punch (HID #: 2120BGGMNM); Minimum Order 100. Specify programming information for 125kHz Proximity and iCLASS.	AC-HID-CARD-ICLASS-PROX-2120BGGMNM	\$12.99
HID 2120BGGMVM	COMPOSITE iCLASS PROX 2K/2; PROGRAMMED; F-GLOSS; B-GLOSS; MATCHING; VERT SLOT; MATCH 125K #	AC-HID-CARD-ICLASS-PROX-2120BGGMVM	\$12.99
HID 3150RGGMNM	COMPOSITE iCLASS PROX SE 2K/2; PROG iCLASS/PROX; F-GLOSS; B-GLOSS; MATCH iCLASS#; NO SLOT; NO PROX #	AC-HID-CARD-ICLASS-PROX-3150RGGMNM	\$12.99
HID 3000PGGMN	iCLASS SE Contactless Smart Card; 2k bit with 2 application areas; Minimum Order 100 (HID Part Number: 3000PGGMN)	AC-HID-CARD-ICLASS-SE-3000	\$5.78
HID 3000PGGMN AVIGILON FORMAT & LOGO	iCLASS SE Contactless Smart Card; 2k bit with 2 application areas; Avigilon Format; Avigilon logo on back; Order quantity must be in boxes of 100; no partial boxes allowed; packaged in box of 100 (Stock Item)	AC-HID-CARD-ICLASS-SE-3000-AVG	\$6.19
HID 3000PGGMN AVIGILON FORMAT	iCLASS SE Contactless Smart Card; 2k bit with 2 application areas; Avigilon Format; Without Avigilon logo; Order quantity must be in boxes of 100; no partial boxes allowed; packaged in box of 100 (Stock Item)	AC-HID-CARD-ICLASS-SE-3000-AVG-NL	\$6.27
HID 3002PGGMN	iCLASS SE Contactless Smart Card; 16k bit with 16 application areas; Minimum Order 100 (HID Part Number: 3002PGGMN)	AC-HID-CARD-ICLASS-SE-3002	\$10.49
HID 3004PGGMN	iCLASS SE Contactless Smart Card; 32k bit with 16K/16 + 16K/1 application areas; Minimum Order 100 (HID Part Number: 3004PGGMN)	AC-HID-CARD-ICLASS-SE-3004	\$10.93
HID 6011TGGANA	ISO CARD COMPOSITE UHF/iCLASS 16K; PROG; WHITE; LASER MATCHING; 860-960 MHz; Minimum Order 100 (HID Part Number: 6011TGGANA)	AC-HID-CARD-ICLASS-SE-UHF-6011TGGANA	\$13.68
HID 6011TGGNNN-001	ISO CARD COMPOSITE UHF/iCLASS 16K; PROG; WHITE; NO #; NO SALES ORDER; 860-960 MHz; Minimum Order 100 (HID Part Number: 6011TGGNNN-001)	AC-HID-CARD-ICLASS-SE-UHF-6011TGGNNN-001	\$13.28
HID 6013TGGANN	ISO CARD COMPOSITE UHF/iCLASS 32K; PROG; WHITE; UHF LASER MATCHING; 860-960 MHz Application areas 16K/2+16K/1; Minimum Order 100 (HID Part Number: 6013TGGANN)	AC-HID-CARD-ICLASS-SE-UHF-6013TGGANN	\$13.28
HID 6014SGGANN	ISO CARD COMPOSITE UHF/iCLASS 32K; PROG; WHITE; UHF LASER MATCHING; 860-960 MHz Application areas 16K/16+16K/1; Minimum Order 100 (HID Part Number: 6014SGGANN)	AC-HID-CARD-ICLASS-SE-UHF-6014SGGANN	\$13.28

HID 5005PG1MN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 16K; PROG; F-GLOSS; B-GLOSS W/MAG; MATCHING #; NO SLOT; MIN ORDER QUANTITY 100 (HID Part Number 5005PG1MN)	AC-HID-CARD-ICLASS-SEOS-5005PG1MN	\$12.50
HID 2080HPMSMV	ICLASS SR (note: SR instead of SE is correct for this card) Clamshell Contactless Smart Card, 2k bit with 2 application areas; Minimum Order 100 (HID Part Number: 2080HPMSMV)	AC-HID-CARD-ICLASS-SR-2080	\$3.89
HID 600TGGAN	ISO CARD COMPOSITE UHF; PROG; WHITE; LASER MATCHING; 860-960 MHz; Minimum Order 100 (HID Part Number: 600TGGAN)	AC-HID-CARD-ICLASS-UHF-600TGGAN	\$10.58
HID 52060PHNGMNNN	ISO CARD COMPOSITE ICLASS SEOS 8K; ICLASS 2K; PROG; PROG SEOS; PROG STD ICLASS; NO PROX PROG; F-GLOSS; B-GLOSS; MATCH SEOS; NO ICLASS; NO PROX; NO SLOT; Minimum Order 100 (HID Part Number: 52060PHNGMNNN)	AC-HID-CARD-ICLSEOS-ICLASS-PROX-52060PHNGMNNN	\$13.31
HID 1386LGGMN	ISOProx II Graphics Quality PVC; Proximity Access Card; Minimum Order 100 (HID Part Number: 1386LGGMN)	AC-HID-CARD-ISOPROXII-GRPH	\$7.10
HID 801FPGGAN	HID MIFARE® DESFire® EV3 Card - Compatibility Profile	AC-HID-CARD-MIFARE-DESFIRE-EV3-801FPGGAN	\$6.84
HID ADMIN-SEC9X-CRD-MADD	Configuration card which enables the use of the Mobile Configuration App used to adjust Bluetooth range settings on Mobile-Enabled Readers. Require automated onboarding form to be filled. (LINK to Automated Onboarding: https://manageservices.hidglobal.com/faces/maUserOnBoardingStart) (HID Part Number: ADMIN-SEC9X-CRD-MADD)	AC-HID-CARD-MOB-ADMIN-SEC9X-CRD-MADD	\$42.63
HID SEC9X-CRD-E-MKYD	Configuration Card used to personalize and convert a Mobile-Ready reader to a Mobile-Enabled reader. (HID Part #: SEC9X-CRD-E-MKYD)	AC-HID-CARD-MOB-SEC9X-CRD-E-MKYD	\$31.58
HID 1326LMSMV	ProxCard II Proximity Access Card (Clam Shell); Minimum Order 100 (HID Part Number: 1326LMSMV)	AC-HID-CARD-PROXCARDII-CL	\$3.85
HID 5005PGGMN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 16 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; LAM; Minimum Order 100 (HID Part Number: 5005PGGMN)	AC-HID-CARD-SEOS-5005PGGMN	\$11.12
HID 5005PGGSN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 16 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; SEQ. #. ICLASS #; NO SLOT; Minimum Order 100 (HID Part Number: 5005PGGSN)	AC-HID-CARD-SEOS-5005PGGSN	\$11.12
HID 5006PG1MN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8K; SEOS OS LOADED; PROG.; F-GLOSS; B-GLOSS; W/MAG; MATCHING ICLASS #; NO SLOT; Minimum Order 100 (HID Part Number: 5006PG1MN)	AC-HID-CARD-SEOS-5006PG1MN	\$6.85
HID-CARD-SEOS-5006PGCMN Avigilon Logo	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8K; PROG; F-GLOSS; B-AVIGILON; MATCHING #; NO SLOT; CUSTOM AVIGILON PACKAGING-SHRINK WRAP IN LOTS OF 50; PACK 100/BOX; LAM; AVIGILON LOGO; (AVIGILON FORMAT- NO PROGRAMMING INFORMATION REQUIRED)(MOQ 100)(HID - 5006PGCMN)	AC-HID-CARD-SEOS-5006PGCMN-AVG	\$7.14
HID 5006PGGMN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; LAM; Minimum Order 100 (HID Part Number: 5006PGGMN)	AC-HID-CARD-SEOS-5006PGGMN	\$5.46
HID-CARD-SEOS-5006PGGMN AVO Format No Logo	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8K; PROG; F-GLOSS; B-GLOSS; MATCHING #; NO SLOT; CUSTOM AVIGILON PACKAGING-SHRINK WRAP IN LOTS OF 50; PACK 100/BOX; LAM; (AVIGILON FORMAT- NO PROGRAMMING INFORMATION REQUIRED)(MOQ 100)(HID - 5006PGGMN) No Logo	AC-HID-CARD-SEOS-5006PGGMN-AVG	\$7.30
HID 5006PGMNT	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; LAM; 10 PACK; Minimum Order 100 (HID Part Number: 5006PGMNT)	AC-HID-CARD-SEOS-5006PGMNT	\$5.46
HID 5006PGGNN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; NO ICLASS #; NO SLOT; LAM; Minimum Order 100 (HID Part Number: 5006PGGNN)	AC-HID-CARD-SEOS-5006PGGNN	\$5.46
HID 5006PGGSN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8 KB MEMORY; PROG.; F-GLOSS; B-GLOSS; SEQ. ICLASS #; NO SLOT; Minimum Order 100 (HID Part Number: 5006PGGSN)	AC-HID-CARD-SEOS-5006PGGSN	\$5.46
HID 5006VGGNN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD 8K; SEOS LOADED; ER PROG.; F-GLOSS; B-GLOSS; NO ICLASS #; NO SLOT; Minimum Order 100 (HID Part Number: 5006VGGNN)	AC-HID-CARD-SEOS-5006VGGNN	\$5.46
HID 5656PMSAV	SEOS CLAMSHELL 8K CARD; PROG. SEOS; F-MATT; B-HID LOGO; LASER MATCH SEOS#; Minimum Order 100 (HID Part Number: 5656-PMSAV)	AC-HID-CARD-SEOS-5656PMSAV	\$5.47
HID 5105PGMNN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5105PGMNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105PGMNN	\$14.56
HID 5105PGGNN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; NO ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5105PGGNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105PGGNN	\$14.56
HID 5105RG1MNN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS W/MAG; MATCH. ICLASS #; NO SLOT; MATCH. PROX #; LAM; Minimum Order 100 (HID Part Number: 5105RG1MNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RG1MNN	\$15.94
HID 5105RG1MNN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS W/MAG; MATCH. ICLASS #; NO SLOT; MATCH. PROX #; Minimum Order 100 (HID Part Number: 5105RG1MNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RG1MNN	\$15.94
HID 5105RG1NNM	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS/PROX F-GLOSS; B-GLOSS W/MAG; NO ICLASS #; NO SLOT; MATCH. PROX #; LAM; Minimum Order 100 (HID Part Number: 5105RG1NNM)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RG1NNM	\$14.56
HID 5105RGGMNM	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; MATCH. PROX #; Minimum Order 100 (HID Part Number: 5105RGGMNM)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RGGMNM	\$14.56
HID 5105RGGMNN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; MATCH. ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5105RGGMNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RGGMNN	\$14.56
HID 5105RGGNNS	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; NO ICLASS #; NO SLOT; SEQ. PROX #; Minimum Order 100 (HID Part Number: 5105RGGNNS)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RGGNNS	\$14.56
HID 5105RGGSN	COMPOSITE ICLASS SEOS PROX 16K; PROG. ICLASS; F-GLOSS; B-GLOSS; SEQ. ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5105RGGSN)	AC-HID-CARD-SEOS-ICLASS-PROX-5105RGGSN	\$14.56
HID 5105VGGNN	COMPOSITE ICLASS SEOS CONTACTLESS SMART CARD; 16/KG PROX ER PROG; F-GLOSS; B-GLOSS; NO. ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5105VGGNN)	AC-HID-CARD-SEOS-5105VGGNN	\$14.56
HID 5106PG1MNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; PROG. ICLASS ; F - GLOSS; B - GLOSS W/MAG; MATCHING ICLASS #; NO SLOT; NO PROX #; LAM; Minimum Order 100 (HID Part Number: 5106PG1MNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106PG1MNN	\$12.79
HID 5106PGMNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; PROG. ICLASS;NON PROGRAM PROX; F-GLOSS; B-GLOSS; MATCHING ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5106PGMNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106PGMNN	\$11.42
HID 5106PGGNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; PROG. ICLASS;NON PROGRAM PROX; F-GLOSS; B-GLOSS; NO ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5106PGGNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106PGGNN	\$11.42
HID 5106RGGMNM	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; PROG. ICLASS/PROX; F-GLOSS; B-GLOSS; MATCH ICLASS #; NO SLOT; MATCH PROX #; Minimum Order 100 (HID Part Number: 5106RGGMNM)	AC-HID-CARD-SEOS-ICLASS-PROX-5106RGGMNM	\$11.42
HID 5106RGGMNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; PROG. ICLASS/PROX; F-GLOSS; B-GLOSS; MATCH ICLASS #; NO SLOT; NO PROX #; Minimum Order 100 (HID Part Number: 5106RGGMNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106RGGMNN	\$11.42
HID 5106RGGNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; ICLASS SIO PROGRAMMED; PROX HID FORMAT; F-GLOSS; B-GLOSS; NO ICLASS #; NO PROX #; NO SLOT; LAM; Minimum Order 100 (HID Part Number: 5106RGGNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106RGGNN	\$11.42
HID 5106VGGNN	COMPOSITE ICLASS SEOS PROX CONTACTLESS SMART CARD 8K; SEOS LOADED; ER PROG.; F-GLOSS; B-GLOSS; NO ICLASS #; NO PROX #; NO SLOT; Minimum Order 100 (HID Part Number: 5106VGGNN)	AC-HID-CARD-SEOS-ICLASS-PROX-5106VGGNN	\$11.42
HID MC-1000	Service fee per card for Corporate 100 card format. (HID Part Number: MC-1000)	AC-HID-CORP1K-MC-1000	\$0.46
HID 3250PNNMN	ICLASS SE KEYFOB 2K/2; PROG ICLASS; BLACK W/BBLUE HID; MATCH ICLASS #; Minimum Order 100 (HID Part Number: 3250PNNMN)	AC-HID-FOB-3250PNNMN	\$7.53
HID 3250PNNMN AVIGILON FORMAT	ICLASS SE KEYFOB 2K/2; PROG ICLASS; BLACK W/BBLUE HID; MATCH ICLASS #; Available with Avigilon format; Stock Item; Order quantity must be in boxes of 100; no partial boxes allowed; Packed in box of 100	AC-HID-FOB-ICLASS-3250PNNMN-AVG	\$7.53
HID 1346LNSMN	ProxKey III Proximity Access Keyfob; Minimum Order 100 (HID Part Number: 1346LNSMN)	AC-HID-FOB-PROXKEYIII-CL	\$7.67

HID-FOB-SEOS-5266PNNA Avigilon Logo	SEOS KEY FOB 8K; PROG SEOS; F-BLACK W/HID ARTWORK; B-BLACK; LASER MATCH SEOS #; (AVIGILON FORMAT - NO PROGRAMMING INFORMATION REQUIRED)(MOQ 100)(HID - 5266PNNA)	AC-HID-FOB-SEOS-5266PNNA-AVG	\$7.32
HID MID-SUB-CRD	HID Origo Mobile Identities - User licenses - Additional credential format - one time fee. Minimum Order Quantity: 1	AC-HID-MOB-MID-SUB-CRD	\$110.47
HID MID-SUB-T100	HID Origo Mobile Identities - User licenses - initial and renewal. Number of user licenses (maximum number of concurrent users) valid for one year in an HID Origo account (linked to the Organization ID). Please provide the organization and credential access control data format information (Organization ID; Organization Name; MOB or ICE and format; facility/site code; card number range; etc.). Require automated onboarding form to be completed. (LINK to Automated Onboarding: https://managedservices.hidglobal.com/faces/maUserOnBoardingStart). Minimum Order Quantity: 20. (HID Part Number: MID-SUB-T100)	AC-HID-MOB-MID-SUB-T100	\$5.90
HID MID-SUB-T100-ADD1	HID Origo Mobile Identity user Account - User license - add-on order cost for 1 month. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD1).	AC-HID-MOB-MID-SUB-T100-ADD-1-MONTH	\$0.76
HID MID-SUB-T100-ADD10	HID Origo Mobile Identity user Account - User license - add-on order cost for 10 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD10).	AC-HID-MOB-MID-SUB-T100-ADD-10-MONTH	\$7.56
HID MID-SUB-T100-ADD11	HID Origo Mobile Identity user Account - User license - add-on order cost for 11 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD11).	AC-HID-MOB-MID-SUB-T100-ADD-11-MONTH	\$8.31
HID MID-SUB-T100-ADD2	HID Origo Mobile Identity user Account - User license - add-on order cost for 2 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD2).	AC-HID-MOB-MID-SUB-T100-ADD-2-MONTH	\$1.52
HID MID-SUB-T100-ADD3	HID Origo Mobile Identity user Account - User license - add-on order cost for 3 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD3).	AC-HID-MOB-MID-SUB-T100-ADD-3-MONTH	\$2.28
HID MID-SUB-T100-ADD4	HID Origo Mobile Identity user Account - User license - add-on order cost for 4 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD4).	AC-HID-MOB-MID-SUB-T100-ADD-4-MONTH	\$3.01
HID MID-SUB-T100-ADD5	HID Origo Mobile Identity user Account - User license - add-on order cost for 5 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD5).	AC-HID-MOB-MID-SUB-T100-ADD-5-MONTH	\$3.78
HID MID-SUB-T100-ADD6	HID Origo Mobile Identity user Account - User license - add-on order cost for 6 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD6).	AC-HID-MOB-MID-SUB-T100-ADD-6-MONTH	\$4.53
HID MID-SUB-T100-ADD7	HID Origo Mobile Identity user Account - User license - add-on order cost for 7 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD7).	AC-HID-MOB-MID-SUB-T100-ADD-7-MONTH	\$5.29
HID MID-SUB-T100-ADD8	HID Origo Mobile Identity user Account - User license - add-on order cost for 8 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD8).	AC-HID-MOB-MID-SUB-T100-ADD-8-MONTH	\$6.06
HID MID-SUB-T100-ADD9	HID Origo Mobile Identity user Account - User license - add-on order cost for 9 months. Number of user accounts (maximum number of concurrent users) valid till the end of the contract of an existing HID Origo account (linked to the Organization ID). Valid HID Org ID; Org Name; Contact ID and subscription start date required at time of order. Minimum Order Quantity: 20 (HID Part Number: MID-SUB-T100-ADD9).	AC-HID-MOB-MID-SUB-T100-ADD-9-MONTH	\$6.81
HID 3300PKSMN	iCLASS SE Tag; Contactless Smart Tag ; 2k bit with 2 application areas; Black with HID Standard Artwork; Sequential Matching Internal/External - Peel-off self-adhesive back; Minimum Order 100 (HID Part Number: 3300PKSMN)	AC-HID-TAG-ICLASS-SE-3300	\$5.41
HID 1391LGSMN	MICROPROX TAG; PROG; GRAY; MATCH #; Minimum Order 100 (HID Part Number: 1391LGSMN)	AC-HID-TAG-MICROPROX-ADH	\$5.18
HID 1351LBSMN	ProxPass II Long Range Active Proximity Access Tag for Vehicle Access; Minimum Order 10 (HID Part Number: 1351LBSMN)	AC-HID-TAG-PROXPASSII-VEH	\$43.92
Lifesafety Power Sixteen Door HID Single Voltage Integrated Power System	Sixteen Door HID Single Voltage Integrated Power System supporting one AC-HID-VERTX-V1000 with eight AC-HID-VERTX-V100 (HID VertX EVO hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 150 watt 12V/12A power supply-battery charger. The power supply is pre-wired to sixteen Class 2; Power Limited (CL2PL) outputs (two D8P Boards) delivering a regulated independent power connection to each HID VertX EVO board and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock; tamper switch and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO150-2D8PE4V1)	AC-LSP-16DR-HID	\$1,022.30
Lifesafety Power Sixteen Door HID Dual Voltage Integrated Power System	Sixteen Door HID Dual Voltage Integrated Power System supporting one AC-HID-VERTX-V1000 with eight AC-HID-VERTX-V100 (HID VertX EVO hardware sold separately). The advantage of a dual voltage power supply is the ability to power HID boards and door locks. Includes a painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws. System includes one 75 watt 12V/6A pre-wired to sixteen Class 2; Power Limited (CL2PL) outputs (two D8P Boards) delivering regulated independent power connection to each HID VertX EVO board and one 250 watt 24V/10A power supply-battery charger pre-wired to sixteen fused output (two C8 Boards) for independent relay lock power. Both power supplies features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Cabinet size: 20" x 24" x 6.5" with door lock and two (2) keys. Weight 26 lb.(LifeSafety Power Part Number: FPO75/250-2C82D8PE4V1)	AC-LSP-16DR-HID-LCK	\$1,472.58
Lifesafety Power Sixteen Door Mercury Single Voltage Integrated Power System	Sixteen Door Mercury Single Voltage Integrated Power System supporting one AC-MER-CONT-2DR with Seven AC-MER-CON-MR52 (Mercury hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 150 watt 12V/12A or 24V/6A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to Mercury boards and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock; tamper switch and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO150-D8PE4M1)	AC-LSP-16DR-MER	\$902.83

<p>Lifesafety Power Sixteen Door Mercury Dual Voltage Integrated Power System</p>	<p>Sixteen Door Mercury Dual Voltage Integrated Power System supporting one AC-MER-CONT-2DR with seven AC-MER-CON-MR52 (Mercury hardware sold separately). The advantage of a dual voltage power supply is the ability to power Mercury boards and door locks. Includes a painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws. System includes one 150 watt 12V/12A pre-wired to sixteen Class 2; Power Limited (CL2PL) outputs (two D8P Boards) delivering regulated independent power connection to each Mercury board and one 250 watt 24V/10A power supply-battery charger pre-wired to sixteen fused output (two C8 Board) for independent relay lock power. Both power supplies features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Cabinet size: 20" x 24" x 6.5" with door lock and two (2) keys. Weight 26 lb.(LifeSafety Power Part Number: FPO150/250-2C82D8PE4M1)</p>	<p>AC-LSP-16DR-MER-LCK</p>	<p>\$1,516.23</p>
<p>Lifesafety Power Two Door HID Single Voltage Integrated Power System</p>	<p>Two Door HID Single Voltage Integrated Power System supporting one AC-HID-VERTX-V2000 (HID VertX EVO hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 75 watt 12V/6A or 24V/3A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to HID VertX EVO board and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 12" x 14" x 4.5" with door lock; tamper switch and two (2) keys. Weight 14 lb.(LifeSafety Power Part Number: FPO75-D8PE1V)</p>	<p>AC-LSP-2DR-HID</p>	<p>\$521.47</p>
<p>Lifesafety Power Two Door HID Dual Voltage Integrated Power System</p>	<p>Two Door HID Dual Voltage Integrated Power System supporting one AC-HID-VERTX-V2000 (HID VertX EVO hardware sold separately). The advantage of a dual voltage power supply is the ability to power both HID board and door locks from the same supply. Includes painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 75 watt 12V/2A and 24V/2A power supply-battery charger. The power supply is pre-wired to four Class 2; Power Limited (CL2PL) outputs (C4P Board) delivering a regulated independent power connection to HID VertX EVO board and lock power control. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 12" x 14" x 4.5" with door lock and two (2) keys. Weight 14 lb.(LifeSafety Power Part Number: FPO75-B100C4PE1V)</p>	<p>AC-LSP-2DR-HID-LCK</p>	<p>\$539.86</p>
<p>Lifesafety Power Two Door Mercury Single Voltage Integrated Power System</p>	<p>Two Door Mercury Single Voltage Integrated Power System supporting two AC-MER-CONT-1DR or one AC-MER-CONT-2DR (Mercury hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 75 watt 12V/6A or 24V/3A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to Mercury boards and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet (unless using two AC-MER-CONT-1DR). Cabinet size: 12" x 14" x 4.5" with door lock; tamper switch and two (2) keys. Weight 14 lb.(LifeSafety Power Part Number: FPO75-D8PE1M)</p>	<p>AC-LSP-2DR-MER</p>	<p>\$498.50</p>
<p>Lifesafety Power Two Door Mercury Dual Voltage Integrated Power System</p>	<p>Two Door Mercury Dual Voltage Integrated Power System supporting two AC-MER-CONT-1DR or one AC-MER-CONT-2DR (Mercury hardware sold separately). The advantage of a dual voltage power supply is the ability to power both Mercury boards and door locks from the same supply. Includes a painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 75 watt 12V/2A and 24V/2A power supply-battery charger. The power supply is pre-wired to four Class 2; Power Limited (CL2PL) outputs (C4P Board) delivering a regulated independent power connection to each Mercury board and lock power and control. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet (unless using two AC-MER-CONT-1DR). Cabinet size: 12" x 14" x 4.5" with door lock and two (2) keys. Weight 14 lb.(LifeSafety Power Part Number: FPO75-B100C4PE1M)</p>	<p>AC-LSP-2DR-MER-LCK</p>	<p>\$590.40</p>
<p>Lifesafety Power Four Door HID Single Voltage Integrated Power System</p>	<p>Four Door HID Single Voltage Integrated Power System supporting two AC-HID-VERTX-V2000 or one AC-HID-VERTX-V1000 with two AC-HID-VERTX-V100 (HID VertX EVO hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 75 watt 12V/6A or 24V/3A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each HID VertX EVO board and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 16" x 20" x 4.5" with door lock; tamper switch and two (2) keys. Weight 19 lb.(LifeSafety Power Part Number: FPO75-D8PE2V)</p>	<p>AC-LSP-4DR-HID</p>	<p>\$551.35</p>
<p>Lifesafety Power Four Door HID Dual Voltage Integrated Power System</p>	<p>Four Door HID Dual Voltage Integrated Power System supporting two AC-HID-VERTX-V2000 or one AC-HID-VERTX-V1000 with two AC-HID-VERTX-V100 (HID VertX EVO hardware sold separately). The advantage of a dual voltage power supply is the ability to power both HID boards and door locks from the same supply. Includes a painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 75 watt 12V/2A and 24V/2A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each HID VertX EVO board and four fused output (C4 Board) for independent relay lock power control. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 16" x 20" x 4.5" with door lock and two (2) keys. Weight 19 lb.(LifeSafety Power Part Number: FPO75-B100C4D8PE2V)</p>	<p>AC-LSP-4DR-HID-LCK</p>	<p>\$712.18</p>
<p>Lifesafety Power Four Door Mercury Single Voltage Integrated Power System</p>	<p>Four Door Mercury Single Voltage Integrated Power System supporting one AC-MER-CONT-2DR with one AC-MER-CON-MR52 (Mercury hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 75 watt 12V/6A or 24V/3A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to Mercury boards and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 16" x 20" x 4.5" with door lock; tamper switch and two (2) keys. Weight 19 lb.(LifeSafety Power Part Number: FPO75-D8PE2M)</p>	<p>AC-LSP-4DR-MER</p>	<p>\$546.75</p>
<p>Lifesafety Power Four Door Mercury Dual Voltage Integrated Power System</p>	<p>Four Door Mercury Dual Voltage Integrated Power System supporting one AC-MER-CONT-2DR with one AC-MER-CON-MR52 (Mercury hardware sold separately). The advantage of a dual voltage power supply is the ability to power both Mercury boards and door locks from the same supply. Includes a painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 75 watt 12V/2A and 24V/2A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each Mercury board and four fused output (C4 Board) for independent relay lock power. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 16" x 20" x 4.5" with door lock and two (2) keys. Weight 19 lb.(LifeSafety Power Part Number: FPO75-B100C4D8PE2M)</p>	<p>AC-LSP-4DR-MER-LCK</p>	<p>\$693.78</p>
<p>Lifesafety Power Eight Door HID Single Voltage Integrated Power System</p>	<p>Eight Door HID Single Voltage Integrated Power System supporting one AC-HID-VERTX-V1000 with four AC-HID-VERTX-V100 (HID VertX EVO hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller mounting screws and a 75 watt 12V/6A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each HID VertX EVO board and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock; tamper switch and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO75-D8PE4V)</p>	<p>AC-LSP-8DR-HID</p>	<p>\$691.48</p>

LifeSafety Power Eight Door HID Dual Voltage Integrated Power System	Eight Door HID Dual Voltage Integrated Power System supporting one AC-HID-VERTX-V1000 with four AC-HID-VERTX-V1000 (HID Vertx EVO hardware sold separately). The advantage of a dual voltage power supply is the ability to power both HID boards and door locks from the same supply. Includes a painted steel enclosure; removable pre drilled back plate; controller mounting screws; and a 150 watt 12V/4A and 24V/4A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each HID Vertx EVO board and eight fused output (C8 Board) for independent relay lock power control. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO150-B100C8D8PE4V1)	AC-LSP-8DR-HID-LCK		\$1,167.03
LifeSafety Power Eight Door Mercury Single Voltage Integrated Power System	Eight Door Mercury Single Voltage Integrated Power System supporting one AC-MER-CONT-2DR with three AC-MER-CON-MR52 (Mercury hardware sold separately). Includes painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 75 watt 12V/6A or 24V/3A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to Mercury boards and auxiliary equipment. The power supply features dual outputs; form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock; tamper switch and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO75-D8PE4M)	AC-LSP-8DR-MER		\$643.24
LifeSafety Power Eight Door Mercury Dual Voltage Integrated Power System	Eight Door Mercury Dual Voltage Integrated Power System supporting one AC-MER-CONT-2DR with three AC-MER-CON-MR52 (Mercury hardware sold separately). The advantage of a dual voltage power supply is the ability to power both Mercury boards and door locks from the same supply. Includes a painted steel enclosure; removable pre drilled back plate; controller standoffs and mounting screws and a 150 watt 12V/4A and 24V/4A power supply-battery charger. The power supply is pre-wired to eight Class 2; Power Limited (CL2PL) outputs (D8P Board) delivering a regulated independent power connection to each Mercury board and eight fused output (C8 Board) for independent relay lock power. The power supply features dual outputs (12 & 24volts DC); form 'C' fault relay contacts; a fire alarm input and network interface (interface module sold separately) to enable monitoring; reporting and control of the power system from Access Control Manager (ACM) link. Battery space for two 12V; 8Ah batteries is available in cabinet. Cabinet size: 20" x 24" x 6.5" with door lock and two (2) keys. Weight 25 lb.(LifeSafety Power Part Number: FPO150-B100C8D8PE4M)	AC-LSP-8DR-MER-LCK		\$948.78
LifeSafety Power B100	The B100 Secondary Voltage Module provides a means to easily and economically add an additional voltage to any power system. Primary power for the B100 is derived from an main FPO power supply and the B100 steps the FPO voltage down to the user defined range (typically 12VDC). B100 delivers up to 4A maximum current at 12VDC.(LifeSafety Power Part Number: B100)	AC-LSP-B100		\$80.40
LifeSafety Power C4	The C4 (4 Door) Lock Control Module adds four (4) fused outputs to a FPO power supply for "buffered" lock control and is typically supplied as part of a system or purchased as an expansion piece to an existing system. The C4 provides four (4) access control inputs capable of voltage or dry contact activation and four (4) relay controlled outputs; individually fuse protected at 3A per output. (LifeSafety Power Part Number: C4)	AC-LSP-C4		\$91.89
LifeSafety Power C8	The C8 (8 Door) Lock Control Module lock adds eight (8) fused outputs to a FPO power supply for "buffered" lock control and is typically supplied as part of a system or purchased as an expansion piece to an existing system. The C8 provides eight (8) access control inputs capable of voltage or dry contact activation and eight (8) relay controlled outputs; individually fuse protected at 3A per output.(LifeSafety Power Part Number: C8)	AC-LSP-C8		\$117.16
LifeSafety Power Camlock_Set	Replacement Camlock and key (set of three) for LifeSafety Power enclosures; keyed alike (LifeSafety Power # Camlock Set)(LifeSafety Power Part Number: Camlock_Set)	AC-LSP-CAMLOCKSET		\$25.50
LifeSafety Power D8P	The D8P (8 Out) Power Distribution Module provides 8 auxiliary power outputs; each one individually protected by a solid state circuit breaker (D8P) rated at 2.5A each. Each output is programmable to either of the two voltages available when used in a dual voltage power system; or to the continuous output or the resettable output of the power supply when used in a single voltage system. (LifeSafety Power Part Number: D8P)	AC-LSP-D8P		\$52.84
LifeSafety Power E1M	Backplate; Standoffs & E1M size cabinet kit: Size: 12" x 14" x 4.5"; Weight: 9 lb. (LifeSafety Power Part Number: E1M)	AC-LSP-E1M		\$362.97
LifeSafety Power E2-BOXED	LifeSafety Power E series enclosures are engineered to house FlexPower® power management boards in multiple configurations for maximum design flexibility. The modular mounting pattern on the back wall allows flexible positioning of FlexPower modules within the enclosure. E series enclosures are black powdercoated steel. All enclosures come with installed door ground strap; lockset and tamper switch. 20 x 16 x 4.5" (510 x 410 x 120 mm) 18 lbs. (8 kg). LifeSafety Part Number: E2-BOXED	AC-LSP-E2-BOXED		\$268.77
LifeSafety Power E2-BS1	Locking battery enclosure with one 4" battery shelf. 20x16x4.5 enclosure with pre-installed lock set and tamper switch.	AC-LSP-E2-BS1		\$330.80
LifeSafety Power E2M	Backplate; Standoffs & E2M size cabinet kit: Size: 16" x 20" x 4.5"; Weight: 13 lb. (LifeSafety Power Part Number: E2M)	AC-LSP-E2M		\$415.81
LifeSafety Power E4-3BS1	Locking battery enclosure with three 4" battery shelf. 24x20x4.5 enclosure with pre-installed lock set and tamper switch.	AC-LSP-E4-3BS1		\$480.13
LifeSafety Power E4M	8 Door Mercury enclosure with removable backplate Battery space for 12V or 24V; 8Ah batteries is available within the cabinet. Comes with door lock and two (2) keys. Weight: 24 lb. Size: 20" x 24" x 4.5"(LifeSafety Power Part Number: E4M)	AC-LSP-E4M		\$498.54
LifeSafety Power E4M1	16 Door Mercury enclosure with door mount & removable backplate. Battery space for 12V or 24V; 8Ah batteries is available within the cabinet. Comes with door lock and two (2) keys. Weight: 26 lb. Size: 20" x 24" x 4.5"(LifeSafety Power Part Number: E4M1)	AC-LSP-E4M1		\$705.31
LifeSafety Power FLEXPPOWER E4M2 12 Door Mercury Security	LifeSafety Power FLEXPPOWER E4M2 12 Door Mercury Security® MCLASS multi-purpose enclosures offer maximum flexibility; functionality and savings to access system designers. MCLASS enclosures are engineered to house FlexPower® power management boards alongside Mercury Security™ access hardware in one compact; secure UL294 listed system.	AC-LSP-E4M2-BOXED		\$489.31
LifeSafety Power E4V	8 Door HID Vertx enclosure with removable backplate *** Accommodates single voltage only *** Battery space for 12V or 24V; 8Ah batteries is available within the cabinet. Comes with door lock and two (2) keys. Weight: 24 lb. Size: 20" x 24" x 4.5"(LifeSafety Power Part Number: E4V)	AC-LSP-E4V		\$574.32
LifeSafety Power E4V1	8 - 16 Door HID Vertx enclosure with door mount & removable backplate *** Accommodates single or dual voltage *** Battery space for 12V or 24V; 8Ah batteries is available within the cabinet. Comes with door lock and two (2) keys. Weight: 75 lb. Size: 20" x 24" x 4.5"(LifeSafety Power Part Number: E4V1)	AC-LSP-E4V1		\$783.35
FLEXPPOWER E6M MCLASS™ Power Enclosure	MCLASS multi-purpose enclosures offer maximum flexibility; functionality and savings to access system designers. MCLASS enclosures are engineered to house FlexPower® power management boards alongside Mercury Security™ access panels (sold separately) in one compact; secure UL294 listed system. The E6M1 enclosures cover a door count from eight to eighteen with dual voltage distribution and network monitoring. To prevent damage to system electronics; the backplate(s) separate from the enclosure for access hardware mounting in the shop while wiring is pulled to the enclosure at the job site. Once configured; the backplate can be remounted for final ties and checkout.	AC-LSP-E6M-BOXED		\$1,029.18
FLEXPPOWER E6M1 MCLASS™ Power Enclosure	MCLASS multi-purpose enclosures offer maximum flexibility; functionality and savings to access system designers. MCLASS enclosures are engineered to house FlexPower® power management boards alongside Mercury Security™ access panels (sold separately) in one compact; secure UL294 listed system. The E6M1 enclosures cover a door count from four to eight with dual voltage distribution and network monitoring. To prevent damage to system electronics; the backplate(s) separate from the enclosure for access hardware mounting in the shop while wiring is pulled to the enclosure at the job site. Once configured; the backplate can be remounted for final ties and checkout.	AC-LSP-E6M1-BOXED		\$1,265.82
LifeSafety Power FLEXPPOWER E8M MCLASS™ Power Enclosure	MCLASS multi-purpose enclosures offer maximum flexibility; functionality and savings to access system designers. MCLASS enclosures are engineered to house FlexPower® power management boards alongside Mercury Security™ access panels (sold separately) in one compact; secure system. The E8M can be configured for a maximum of twelve doors with dual voltage distribution.	AC-LSP-E8M-BOXED		\$1,242.83
LifeSafety Power FLEXPPOWER E8M2 16 Door Mercury Security	LifeSafety Power FLEXPPOWER E8M2 16 Door Mercury Security® MCLASS multi-purpose enclosures offer maximum flexibility; functionality and savings to access system designers. MCLASS enclosures are engineered to house FlexPower® power management boards alongside Mercury Security™ access panels in one compact; secure system. The E8M2 can be configured for a maximum of sixteen doors with dual voltage distribution. To prevent damage to system electronics; the backplates separate from the enclosure for access hardware mounting in the shop while wiring is pulled to the enclosure at the job site. Once configured; the backplates can be remounted for final ties and checkout.	AC-LSP-E8M2-BOXED		\$1,366.88

LifeSafety Power EPLT-1M	LifeSafety Power - FLEXPPOWER EPLT-1M - Mercury Expansion Plate for MCLASS- Mercury/LSP board addition	AC-LSP-EPLT-1M	\$62.03
LifeSafety Power F8	The F8 module provides 8 protected outputs; each output programmable to enable voltage on activation of the fire alarm interface (FAI); disable voltage on FAI or provide a constant output voltage ATM style fuse: 3A/per output	AC-LSP-F8	\$62.03
LifeSafety Power F8P	The F8P module provides 8 protected outputs; each output programmable to enable voltage on activation of the fire alarm interface (FAI); disable voltage on FAI or provide a constant output voltage Solid state circuit breaker: 2.5A/per output Class 2 power limited	AC-LSP-F8P	\$62.03
LifeSafety Power FPO150-2D8E4M1	150W-12/24VDC PS; Backplate; Standoffs; & E4M size cabinet kit. The FlexPower AC-LSP-FPO150 (FPO150-2D8E4M1) is an offline switchmode power supply battery charger system. The unit is user selectable for 12 or 24VDC. Providing two independent outputs; the first output provides continuous output power for system use and the second is programmable for either fail-safe or fail-secure operation; activated when the fire alarm disconnect is initiated. Also providing 16 auxiliary power distributed outputs; the unit has provisions for mounting a variety of Mercury boards in the cabinet proper (E4M) and cabinet door (EM1). The unit is configured in painted; steel; locking enclosure with tamper switch and integral battery space. Size: 20" x 24" x 4.5"; Weight: 21 lb. (LifeSafety Power Part Number: FPO150-2D8E4M1)	AC-LSP-FPO150	\$951.07
LifeSafety Power FPO150-B100C8D8E2	8 Door Access/Dual Voltage 150W PS/C; 12VDC@4A and 24VDC@4A System Features: One battery set supports all voltages; microprocessor battery charging; 80Ah charge capability; continuous and switched DC outputs; eight 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); eight opto isolated; NO/NC; access control inputs; eight relay lock control outputs; programmable for either 12 or 24VDC; failsafe or failsecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 16" X 20" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO150-B100C8D8E2)	AC-LSP-FPO150-8DR-DV	\$742.01
LifeSafety Power FPO150-C8D8E2	8 Door Access/Single Voltage 150W PS/C; 12VDC@12A or 24VDC@6A System Features: 80Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; eight 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); eight opto isolated; NO/NC; access control inputs; eight relay lock control outputs; programmable for either 12 or 24VDC; failsafe or failsecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 16" X 20" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO150-C8D8E2)	AC-LSP-FPO150-8DR-SV	\$670.81
LifeSafety Power FPO150-B100D8PM8NL4E4M-T8-C	LifeSafety Power; Mercury 8DR; ProWire; Tie Wrap Cable Management; Networked; 170W dual voltage; 120/230VAC Input access power system.	AC-LSP-FPO150-B100D8PM8NL4E4M-T8-C	\$2,235.24
LifeSafety Power FPO150-B100C8D8E4-4SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4E88 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 150W 12V and 24V DC dual voltage access power system. The C8 lock control module provides eight access control inputs capable of voltage or dry contact activation; and eight fused outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. One D8 module provides eight fused outputs and each output is configurable for 12 or 24VDC operation. SALTO access enclosures are painted steel with four removable controller backplates and include lock; two (2) keys and tamper switch. Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 17.50 cm) | Weight: 38 lbs.; Pre-installed brackets for four (4) SALTO controllers - CU42E0; CU4200; CU4E88	AC-LSP-FPO150-B100C8D8E4-4SL1	\$974.05
LifeSafety Power AC-LSP-FPO150-B100C8P2D8PE4M-T8-A	LifeSafety Power AC-LSP-FPO150-B100C8P2D8PE4M-T8-A; Mercury ProWire Power Systems; 150W Dual Voltage; 120 VAC; 8 Lock Outputs / 16 Auxiliary Outputs; Size: 24.0H x 20.0W x 6.5D in (60.96 x 50.8 x 16.51 cm); 8 Doors; TieWrap; Prewired for one LP1502 and three MR52 boards; 31.50 lbs (14.29kg)	AC-LSP-FPO150-B100C8P2D8PE4M-T8-A	\$1,699.98
LifeSafety Power FPO150-B100D8M8NL4E4-4SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4E88 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 12V and 24V DC dual voltage network managed access power system. One M8 managed control module provides eight access control inputs capable of voltage or dry contact activation; and eight outputs programmable for failsafe / failsecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. All inputs / outputs are software controlled for remote operation. One D8 module provides eight fused outputs and each output is configurable for 12 or 24VDC operation. SALTO access enclosures are painted steel with four removable controller backplates and include lock; two (2) keys and tamper switch. Size: 24.00H x 20.00W x 6.50D in. (61.00 x 50.00 x 17.50 cm) | Weight: 38 lbs.; Pre-installed brackets for four (4) SALTO controllers - CU42E0; CU4200; CU4E88	AC-LSP-FPO150-B100D8M8NL4E4-4SL1	\$1,552.95
LifeSafety Power FPO150-B100D8PM8NL4E4M	Power supply board 150W; 12A/12V or 6A/24V | Secondary voltage power supply; 5-18V adjustable @ 4A max; class 2 power limited output | 8 auxiliary DC outputs class 2 power limited at 2.5A per output | Eight output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure; Size 30W x 23H x 6.5D with Mercury backplate (Lifesafety Power Part #: FPO150-B100D8PM8NL4E6M)	AC-LSP-FPO150-B100D8PM8NL4E4M	\$1,477.30
LifeSafety Power FPO150-B100D8PM8NL4E6M	Power supply board 150W; 4A/12V or 4A/24V | Secondary voltage power supply; 5-18V adjustable @ 4A max; class 2 power limited output | Eight output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure; Size 30W x 23H x 6.5D with Mercury backplate (Lifesafety Power Part #: FPO150-B100D8PM8NL4E6M)	AC-LSP-FPO150-B100D8PM8NL4E6M	\$1,987.29
LifeSafety Power FPO150	The FPO150 150W Power Supply Board is a high efficiency, off-line switchmode power supply-battery charger designed as a general purpose power supply to provide uninterrupted power for locks; auxiliary equipment and access controllers. Capable of providing two power outputs and featuring user selectability for 12 or 24 VDC; the unit provides multiple outputs; fire alarm interface; AC fault reporting; system faultreporting; form 'C' fault relay contacts and a host of features and functions designed to support the access control industry.(LifeSafety Power Part Number: FPO150)	AC-LSP-FPO150-PS	\$381.35
LifeSafety Power FPO150/150-2C82D8E4	16 Door Access/Dual Voltage 300W PS/C; 12VDC@12A and 24VDC@6A System Features: 80Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; sixteen 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); sixteen opto isolated; NO/NC; access control inputs; sixteen relay lock control outputs; programmable for either 12 or 24VDC; failsafe or failsecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure; 20" X 24" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO150/150-2C82D8E4)	AC-LSP-FPO150/150-16DR-DV	\$1,178.49
LifeSafety Power Mercury Unified Unified Power Systems	LifeSafety Power Mercury Unified Unified Power Systems; 400W Dual Voltage; 120 VAC; 16 Managed / 16 Auxiliary Outputs	AC-LSP-FPO150/250-2D82M8NL4E6M1	\$2,798.07
LifeSafety Power FPO150-250-2D8P2M8NL4E4M1	Power supply board 150W; 12A/12V or 6A/24V | Power supply board 250W; 20A/12V or 10A/24V | 16 auxiliary DC outputs class 2 power limited at 2.5A per output | Eight output smart distribution module; fused at 3A per output | Eight output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure 20W x 24H x 4.5D with backplate and door mount which can hold up to eight Mercury boards. Requires separate enclosure for batteries.	AC-LSP-FPO150/250-2D8P2M8NL4E4M1	\$2,184.67
LifeSafety Power FPO150-250-2D8P2M8NL4E6M1	Power supply board 150W; 12A/12V or 6A/24V | Power supply board 250W; 20A/12V or 10A/24V | 16 auxiliary DC outputs class 2 power limited at 2.5A per output | Eight output smart distribution module; fused at 3A per output | Eight output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure 30W x 23H x 6.5D with Mercury backplate and door mount option (Lifesafety Power Part #: FPO150/250-2D8P2M8NL4E6M1)	AC-LSP-FPO150/250-2D8P2M8NL4E6M1	\$2,797.97
LifeSafety Power FPO150-250-2D8P2M8NL4E8M2	Power supply board 150W; 12A/12V or 6A/24V | Power supply board 250W; 20A/12V or 10A/24V | 16 auxiliary DC outputs class 2 power limited at 2.5A per output | 16 output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure 30W x 36H x 4.5D with backplate which can hold up to eight Mercury boards. Battery space available.	AC-LSP-FPO150/250-2D8P2M8NL4E8M2	\$3,012.00
LifeSafety Power FPO150/250-3D8P2M8NL4E4M1/T16-A	LifeSafety Power; Mercury 16DR; ProWire; Tie Wrap Cable Management; Networked; 452W dual voltage; 120/230VAC Input access power system.	AC-LSP-FPO150/250-3D8P2M8NL4E4M1/T16-A	\$3,723.87
LifeSafety Power FPO150/250-3D8P2M8NL4E4M1/T16-C	LifeSafety Power; Mercury 16DR; ProWire; Tie Wrap Cable Management; Networked; 452W dual voltage; 120/230VAC Input access power system.	AC-LSP-FPO150/250-3D8P2M8NL4E4M1/T16-C	\$3,723.87
LifeSafety Power FPO150/250-3D8P2M8NL4E8M2/P16-B	LifeSafety Power ProWire 16 Door Panduit Unified Power wall mount dual voltage access power system; precision wired for MERCURY controllers (sold separately). ProWire enables the specification and installation of standardized access power equipment across an enterprise for uniform operation; maintenance and servicing.	AC-LSP-FPO150/250-3D8P2M8NL4E8M2/P16-B	\$4,688.72

LifeSafety Power FPO250	The FPO250 250W Power Supply Board is a high efficiency, off-line switchmode power supply-battery charger designed as a general purpose power supply to provide uninterrupted power for locks; auxiliary equipment and access controllers. Capable of providing two power outputs and featuring user selectability for 12 or 24 VDC; the unit provides multiple outputs; fire alarm interface; AC fault reporting; system faultreporting; form 'C' fault relay contacts and a host of features and functions designed to support the access control industry.(LifeSafety Power Part Number: FPO250)	AC-LSP-FPO250		\$477.82
LifeSafety Power FPO250-2C82D8E4	16 Door Access/Single Voltage 250W PS/C; 12VDC@20A or 24VDC@10A System Features: 80Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; sixteen 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); sixteen opto isolated; NO/NC; access control inputs; sixteen relay lock control outputs; programmable for either 12 or 24VDC; failsafe or falsesecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 20" X 24" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO250-2C82D8E4)	AC-LSP-FPO250-16DR-SV		\$992.42
LifeSafety Power FPO250-2M8PNL4E4M	LifeSafety Power Mercury Unified Power Systems; 250W Single Voltage; 120 VAC; for 8 Doors	AC-LSP-FPO250-2M8PNL4E4M		\$1,686.19
LifeSafety Power MCLASS™ UNIFIED POWER SYSTEM	LifeSafety Power Mercury Unified Unified Power Systems; 250W NETWORKED / 12/24VDC / 8 Doors; 8 Managed Outputs	AC-LSP-FPO250-M8PNL4E4M-NU02		\$1,318.63
LifeSafety Power FPO250/250-2C82D8E4	16 Door Access/Dual Voltage 500W PS/C; 12VDC@20A and 24VDC@10A System Features: 80Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; sixteen 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); sixteen opto isolated; NO/NC; access control inputs; sixteen relay lock control outputs; programmable for either 12 or 24VDC; failsafe or falsesecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 20" X 24" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO250/250-2C82D8E4)	AC-LSP-FPO250/250-16DR-DV		\$1,325.53
LifeSafety Power FPO250/250-3C85D8PE12M/T24-A	LifeSafety Power; Mercury 24DR; ProWire; Tie Wrap Cable Management; Networked; 564W dual voltage; 120/230VAC input access power system.	AC-LSP-FPO250/250-3C85D8PE12M/T24-A		\$8,063.41
LifeSafety Power MCLASS™ WIRED UNIFIED POWER SYSTEM	LifeSafety Power MCLASS™ WIRED UNIFIED POWER SYSTEM; NETWORKED 500W / 12 & 24VDC / 16 Doors; 32 Managed Outputs	AC-LSP-FPO250/250-4M8PNLXE8M2-NU01		\$3,034.69
LifeSafety Power FPO250/250-NLXE4M	LifeSafety Power - Mercury Unified Power Systems - 500W Dual Voltage; 120 VAC	AC-LSP-FPO250/250-NLXE4M		\$1,918.22
LifeSafety Power 500W Dual Voltage Mercury Unified Power System	Mercury Unified Power System combine FlexPower modules alongside preview access control hardware in one compact and secure UL listed solution. ProWire system are prewired for power to the access control modules; faults; tamper switch; lock control wiring (where applicable) and communication.	AC-LSP-FPO250/250-NLXE8M2		\$2,715.87
LifeSafety Power FPO75	The FPO75 75W Power Supply Board is a high efficiency, off-line switchmode power supply-battery charger designed as a general purpose power supply to provide uninterrupted power for locks; auxiliary equipment and access controllers. Capable of providing two power outputs and featuring user selectability for 12 or 24 VDC; the unit provides multiple outputs; fire alarm interface; AC fault reporting; system faultreporting; form 'C' fault relay contacts and a host of features and functions designed to support the access control industry.(LifeSafety Power Part Number: FPO75)	AC-LSP-FPO75		\$232.02
LifeSafety Power FPO75-2D8E2-5SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4EB8 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 75W 12V DC single voltage access power system. Two D8 modules provides sixteen fused protected outputs. SALTO access enclosures are painted steel with five removable controller backplates and include lock; two (2) keys and tamper switch. Size: 20.00H x 16.00W x 4.50D in. (50.00 x 40.00 x 11.50 cm) | Weight: 18 lbs.; Pre-installed brackets for five (5) SALTO controllers - CU42E0; CU4200; CU4EB8	AC-LSP-FPO75-2D8E2-5SL1		\$657.02
LifeSafety Power FPO75-2E2BP2	One (1) 75W-12/24VDC PS; Backplate; Standoffs; & two (2) E2M size cabinets kit: The FlexPower FPO75-2E2M is an offline switchmode 75 watt power supply-battery charger specifically designed for the life safety industry. Capable of providing two power outputs; user selectable for 12 or 24 VDC; the unit is configured in a painted-steel; locking enclosure with tamper switch and integral battery space. One output provides continuous output power for system use; the second is programmable for either fail-safe or fail-secure operation; activated when the fire alarm disconnect is initiated. Size: 16" x 20" x 4.5"; Weight: 13 lb. (LifeSafety Power Part Number: FPO75-2E2BP2)	AC-LSP-FPO75-2E2M		\$895.96
LifeSafety Power FPO75-C4E1	4 Door Access/Single Voltage 75W PS/C; 12VDC@4A or 24VDC@2A System Features: 40Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; fire alarm input (FAI); four opto isolated; NO/NC; access control inputs; four relay lock control outputs; failsafe or falsesecure; and FAI - each output fused for 3A (Class 2 power limited version also available). Fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 12" X 14" X 4.5"; ten year warranty; US/Canada agency listed for access; security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO75-C4E1)	AC-LSP-FPO75-4DR-SV		\$427.29
LifeSafety Power B100C4E1-2SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4EB8 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 75W 12V and 24V DC dual voltage access power system. The C4 lock control module provides four access control inputs capable of voltage or dry contact activation; and four fused outputs programmable for failsafe / falsesecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. Salto access enclosures are painted steel with two removable controller backplates and include lock; two (2) keys and tamper switch. Size: 14.00H x 12.00W x 4.50D in. (35.00 x 31.00 x 11.50 cm) | Weight: 14 lbs; Pre-installed brackets mount for two (2) Salto modules - CU42E0; CU4200; CU4EB8.	AC-LSP-FPO75-B100C4E1-2SL1		\$565.13
LifeSafety Power FPO75-B100C8D8E2-3SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4EB8 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 75W 12V and 24V DC dual voltage access power system. The C8 lock control module provides eight access control inputs capable of voltage or dry contact activation; and eight fused outputs programmable for failsafe / falsesecure operation at either 12 or 24 VDC and controlled by the integrated fire alarm interface circuit on the FPO. One D8 module provides eight fused outputs and each output is configurable for 12 or 24VDC operation. SALTO access enclosures are painted steel with three removable controller backplates and include lock; two (2) keys and tamper switch. Size: 20.00H x 16.00W x 4.50D in. (50.00 x 40.00 x 11.50 cm) | Weight: 18 lbs.; Pre-installed brackets for three (3) SALTO modules - CU42E0; CU4200; CU4EB8	AC-LSP-FPO75-B100C8D8E2-3SL1		\$735.12
LifeSafety Power FPO75-B100M8NL4E2M	Power supply board 75W; 6A/12V or 3A/24V | Secondary voltage power supply; 5-18V adjustable @ 4A max; class 2 power limited output | Eight output smart distribution module; fused at 3A per output | Four port network monitoring module | Enclosure; Size 18. (16W x 20H x 4.5D) with backplate which can hold up to two Mercury boards. Battery space available.	AC-LSP-FPO75-B100M8NL4E2M		\$1,185.45
LifeSafety Power FPO75-D8E1-2SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4EB8 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 75W 12V DC single voltage access power system. One D8 module provides eight fused protected outputs. SALTO access enclosures are painted steel with two removable controller backplates and include lock; two (2) keys and tamper switch. Size: 20.00H x 16.00W x 4.50D in. (50.00 x 40.00 x 11.50 cm) | Weight: 18 lbs.; Pre-installed brackets mount for two (2) Salto modules - CU42E0; CU4200; CU4EB8	AC-LSP-FPO75-D8E1-2SL1		\$454.86
LifeSafety Power FPO75-D8E2-4SL1	LifeSafety Power SALTO Unified Power Systems combine FlexPower® power modules alongside Salto CU42E0; CU4200; or CU4EB8 Modules (sold separately) in one compact and secure UL Listed solution. This unit is a 75W 12V DC single voltage access power system. One D8 module provides eight fused protected outputs. SALTO access enclosures are painted steel with four removable controller backplates and include lock; two (2) keys and tamper switch. Size: 20.00H x 16.00W x 4.50D in. (50.00 x 40.00 x 11.50 cm) | Weight: 18 lbs.; Pre-installed brackets for (4) SALTO controllers - CU42E0; CU4200; CU4EB8	AC-LSP-FPO75-D8E2-4SL1		\$595.00
LifeSafety Power FPO75-E1BP1	75W-12/24VDC PS; Backplate; Standoffs; & E1 size cabinet kit: The FlexPower FPO75-E1M is an offline switchmode power supply-battery charger specifically designed for the life safety industry. Capable of providing two power outputs; user selectable for 12 or 24 VDC; the unit is configured in a painted-steel; locking enclosure with tamper switch and integral battery space. One output provides continuous output power for system use; the second is programmable for either fail-safe or fail-secure operation; activated when the fire alarm disconnect is initiated. Size: 12" x 14" x 4.5"; Weight: 9 lb. (LifeSafety Power Part Number: FPO75-E1BP1)	AC-LSP-FPO75-E1M		\$415.82

LifeSafety Power FPO75-E2BP2	75W-12/24VDC PS; Backplate; Standoffs & E2 size cabinet kit; The FlexPower FPO75-E2M is an offline switchmode 75 watt power supply-battery charger specifically designed for the lifesafety industry. Capable of providing two power outputs; user selectable for 12 or 24 VDC; the unit is configured in a painted-steel; locking enclosure with tamper switch and integral battery space. One output provides continuous output power for system use; the second is programmable for either fail-safe or fail-secure operation; activated when the fire alarm disconnect is initiated. Size: 16" x 20" x 4.5"; Weight: 13 lb. (LifeSafety Power Part Number: FPO75-E2BP2)	AC-LSP-FPO75-E2M		\$493.92
LifeSafety Power Mercury Unified Unified Power Systems	LifeSafety Power Mercury Unified Unified Power Systems; 225W Dual Voltage; 120 VAC; 8 Managed / 8 Auxiliary Outputs	AC-LSP-FPO75/150-D8M8NL4E4M1		\$1,670.11
LifeSafety Power FPO75/75-C8D8E2	8 Door Access/Dual Voltage 150W PSC; 12VDC@6A and 24VDC@3A System Features: 40Ah charge capability; microprocessor battery charging; charger software algorithm minimizes effects of deep battery discharge; continuous and switched DC outputs; eight 12 or 24VDC auxiliary outputs fused at 3A (Class 2 power limited version also available); fire alarm input (FAI); eight opto isolated; NO/NC; access control inputs; eight relay lock control outputs; programmable for either 12 or 24VDC; failsafe or failsecure; and FAI; fault detection reporting with delay; system can be web-managed (w/ NetLink module); 120V/230VAC; locking enclosure: 16" x 20" x 4.5"; ten year warranty; US/Canada agency listed for access, security; fire; CCTV; mass notification (LifeSafety Power Part Number: FPO75/75-C8D8E2)	AC-LSP-FPO75/75-8DR-DV		\$700.67
LifeSafety Power M8	The M8 smart power controller communicates with the NL4 network module and provides eight (8) monitored and controlled relay outputs accessible from a network or internet. The M8 provides eight (8) control INPUTS capable of voltage or dry contact activation and eight (8) controlled and monitored OUTPUTS; with each output network programmable for fail-safe; fail-secure; fire alarm over ride; and AC loss over ride for egress lock control. (LifeSafety Power Part Number: M8)	AC-LSP-M8		\$296.36
LifeSafety Power MSM25	LifeSafety Power MSM-Enterprise; Multi-Site Power Manager for Access Installations; Server Application / Web Browser Based	AC-LSP-MSM25		\$659.32
LifeSafety Power NL2	The NL2 Network Communication Module communicates and controls power status over a local or wide area network to Access Control Manager (ACM). Provides two SPI ports for connection of one or two power supplies to enable monitoring; reporting and control of the power system. Enables remote testing of one battery set (12 or 24VDC). Recommended for use with single voltage systems or dual voltage systems using B100 12V module. (LifeSafety Power Part Number: NL2)	AC-LSP-NL2		\$298.65
LifeSafety Power NL4	The NL4 Network Communication Module communicates and controls power status over a local or wide area network to Access Control Manager (ACM). Provides four SPI ports for connection of one or two power supplies to enable monitoring; reporting and control of the power system. Enables remote testing of two battery sets (12 and 24VDC). Recommended for use with dual voltage systems requiring independent FPO power supplies (i.e. sixteen door dual voltage systems). (LifeSafety Power Part Number: NL4)	AC-LSP-NL4		\$454.84
LifeSafety Power NETLINK® NLX	LifeSafety Power NETLINK™ NLX module is part of LifeSafety Power's Flex-Power® modular power management system for security and life safety applications.	AC-LSP-NLX-BOXED		\$836.21
LifeSafety Power 16 Door Mercury Over Sized Enclosure	16 Door Mercury Over Sized Enclosure (OSE) with door mount & removable backplate. Enclosure holds a total of 10 boards - 8 mercury panels and two (2) I/O modules; 6 placed in the main box and 4 on the door. This enclosure has two D8P auxiliary distribution modules for 16 class II power limited outputs. Battery space for 12V or 24V; 8Ah batteries is available. Enclosure comes standard with installed AC on/off switch; a low battery disconnect module and dual door lock key sets. Enclosure weight: 77 lb. Size: 36" x 30" x 4.5". CE approved. UL/CUL listed with Mercury panels installed.	AC-LSP-OSE-16DR-MER		\$1,762.05
LifeSafety Power 16 Door 12 or 24 VDC Mercury Over Sized Enclosure	16 Door 12 or 24 VDC Mercury Over Sized Enclosure (OSE) with door mount & removable backplate. 150W power supply for system power and 250W power supply for lock power. Enclosure holds a total of 10 boards - 8 mercury panels and two (2) I/O modules; 6 placed in the main box and 4 on the door. Enclosure has two C8 lock control modules for 16 distributed lock outputs and two D8P auxiliary distribution modules for 16 class II power limited outputs. Battery space for 12V or 24V; 8Ah batteries is available. Enclosure comes standard with installed AC on/off switch; a low battery disconnect module and dual door lock key sets. Enclosure weight: 77 lb. Size: 36" x 30" x 6.5". CE approved. UL/CUL listed with Mercury panels installed. (LifeSafety Power Part Number: FPO150-2D8PE8M1)	AC-LSP-OSE-16DR-MER-IO		\$1,897.61
LifeSafety Power 16 Door Mercury Over Sized Enclosure	16 Door Mercury Over Sized Enclosure (OSE) with removable backplate. Enclosure holds a total of 8 mercury panel boards and two D8P auxiliary distribution modules for 16 class II power limited outputs. Battery space for 12V or 24V; 8Ah batteries is available. Enclosure comes standard with installed AC on/off switch; a low battery disconnect module and dual door lock key sets. Enclosure weight: 75 lb. Size: 36" x 30" x 4.5". CE approved. UL/CUL listed with Mercury panels installed.	AC-LSP-OSE-16DR-MER-LCK		\$2,336.36
LifeSafety Power 16 Door Dual Voltage Mercury Over Sized Enclosure	16 Door Dual Voltage Mercury Over Sized Enclosure (OSE) with removable backplate. 150W power supply for system power and 250W power supply for lock power. Enclosure holds a total of 8 Mercury boards; two C8 lock control modules for 16 distributed lock outputs and two D8P auxiliary distribution modules for 16 class II power limited outputs. Battery space for 12V or 24V; 8Ah batteries is available. Enclosure comes standard with installed AC on/off switch; a low battery disconnect module and dual door lock key sets. Enclosure weight: 75 lb. Size: 36" x 30" x 4.5". CE approved. UL/CUL listed with Mercury panels installed.	AC-LSP-OSE-16DR-MER-LCK-IO		\$2,460.43
LifeSafety Power E5M	E5 enclosure size 8.5W x 11H x 3D with Mercury/LNL hole mount pattern Fits up to Mercury 1501 or Mr51e Controllers (LifeSafety Power Part Number: E5M)	AC-LSP-PS-MCLASS-E5M		\$124.05
LifeSafety Power RGM75-D8PNZ	75W 12V/6A or 24V/3A UL listed 4DR Mercury rack mount; networked; 12/24V 8 class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75-D8PNZ)	AC-LSP-RACK-MOUNT-MERC-RGM75-D8PNZ		\$1,506.95
LifeSafety Power RGM75-D8PZ	75W 12V/6A or 24V/3A UL listed 4DR Mercury rack mount; 12/24V 8 class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75-D8PZ)	AC-LSP-RACK-MOUNT-MERC-RGM75-D8PZ		\$1,189.96
LifeSafety Power RGM75-M8PNZ	75W 12V/6A or 24V/3A UL listed 4DR Mercury rack mount; networked 12/24V 8 managed class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75-M8PNZ)	AC-LSP-RACK-MOUNT-MERC-RGM75-M8PNZ		\$1,803.29
LifeSafety Power RGM75B-C4PNZ	75W 12V/2A and 24V/2A UL listed Dual Voltage 12 & 24VDC; 4DR Mercury rack mount; 4 class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75B-C4PNZ)	AC-LSP-RACK-MOUNT-MERC-RGM75B-C4PNZ		\$1,670.06
LifeSafety Power RGM75B-C4PZ	75W 12V/2A and 24V/2A UL listed Dual Voltage 12 & 24VDC; 4DR Mercury rack mount; 4 class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75B-C4PZ)	AC-LSP-RACK-MOUNT-MERC-RGM75B-C4PZ		\$1,286.42
LifeSafety Power RGM75B-M8PNZ	75W 12V/2A and 24V/2A UL listed Dual Voltage 12 & 24VDC; 4DR Mercury rack mount; 8 class 2 power limited outputs fused at 2.5A/ea. Fits (2) MR52 sized Mercury controllers; Standard 2U EIA; 19" rack mount chassis; UL/CUL listed system / z wire mgmt cable arm (LifeSafety Power Part Number: RGM75B-M8PNZ)	AC-LSP-RACK-MOUNT-MERC-RGM75B-M8PNZ		\$1,860.72
LifeSafety Power RBE rackmount battery enclosure	RBE rackmount battery enclosure for 7-8Ah batteries; Standard 2U EIA; 19" rack mount chassis (LifeSafety Power Part Number: RBE)	AC-LSP-RM-BAT-RBE		\$521.52
LifeSafety Power SDU	LifeSafety Power OneDrop™ SDU (Single Drop USB) adapter allows a single IP connection to be used in Mercury applications when using a LSP Netlink network communication module. The SDU cable connects the Netlink's ethernet port to a micro-b USB connector; allowing direct connection of the NetLink to an LP series controller's USB port. Allows shared NetLink and Mercury Controller IP connection. Reduces addresses on the network; Lowers network drop fees; Reduces cybersecurity risks; Makes managed power possible in installations where adding network drops is not an option.	AC-LSP-SDU		\$126.35
LifeSafety Power FPO150-B100C8D8E2M	Power supply board 150W; 12A/12V or 6A/24V | Secondary voltage power supply; 5-18V adjustable @ 4A max; class 2 power limited output | 4 relay lock control outputs fused at 3A per output | 8 auxiliary DC outputs fused at 3A per output | Enclosure; Size 18. (16W x 20H x 4.5D) with Mercury backplate (Non-stock item) (LifeSafety Power Part Number: FPO150-B100C8D8E2M)	AC-LSP-WALL-MOUNT-FPO150-B100C8D8E2M		\$845.41
LifeSafety Power FPO75-B100C4D8NL2E2M	Power supply board 75W; 6A/12V or 3A/24V | Secondary voltage power supply; 5-18V adjustable @ 4A max; class 2 power limited output | 4 relay lock control outputs fused at 3A per output | 8 auxiliary DC outputs fused at 3A per output | Network communication module 2nd Gen. | Enclosure; Size 18. (16W x 20H x 4.5D) with Mercury backplate (Non-stock item) (LifeSafety Power Part Number: FPO75-B100C4D8NL2E2M)	AC-LSP-WALL-MOUNT-FPO75-B100C4D8NL2E2M		\$771.12

LifeSafety Power Eight Door Mercury Panduit ProWire Unified Power wall mount	Eight Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 4A/24V | Secondary voltage module; 4A/12V class 2 power limited | Eight relay managed outputs fused at 3A | 8 auxiliary output power limited at 2.5A | Four port monitoring module | Enclosure size: 30" x 23" x 6.5" | 17 lbs | Wired for MR52/EP1502. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150-B1002D8PM8N4E6M/P8-A)	AC-LSP-WIRED-FPO150-B1002D8PM8N4E6M/P8-A	\$2,965.72
LifeSafety Power Eight Door Mercury Panduit ProWire Unified Power wall mount	Eight Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 4A/24V | Secondary voltage module; 4A/12V class 2 power limited | Eight relay lock control outputs fused at 3A | 8 auxiliary output power limited at 2.5A | Enclosure size: 30" x 23" x 6.5" | 17 lbs | Wired for MR52/EP1502. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150-B100C82D8PE6M/P8-A)	AC-LSP-WIRED-FPO150-B100C82D8PE6M/P8-A	\$2,432.74
LifeSafety Power Sixteen Door Mercury Panduit ProWire Unified Power wall mount	Sixteen Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 12A/12V | Power supply board 250W; 10A/24V | 16 relay lock control outputs fused at 3A | 16 auxiliary outputs power limited at 2.5A | Enclosure size: 36" x 30" x 4.5" | 73 lbs | Wired for MR52/EP1502. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150/250-2C83D8PE8M2/P16-A)	AC-LSP-WIRED-FPO150/250-2C83D8PE8M2/P16-A	\$4,029.32
LifeSafety Power Sixteen Door Mercury Panduit ProWire Unified Power wall mount	Sixteen Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 12A/12V | Power supply board 250W; 10A/24V | 16 relay lock control outputs fused at 3A | 16 auxiliary outputs power limited at 2.5A | Enclosure size: 36" x 30" x 4.5" | 73 lbs | Wired for all MR52s. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150/250-2C83D8PE8M2/P16-C)	AC-LSP-WIRED-FPO150/250-2C83D8PE8M2/P16-C	\$4,029.32
LifeSafety Power Sixteen Door Mercury Panduit ProWire Unified Power wall mount	Sixteen Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 12A/12V | Power supply board 250W; 10A/24V | 16 relay managed outputs fused at 3A | 16 auxiliary outputs power limited at 2.5A | Four port monitoring module | Enclosure size: 36" x 30" x 4.5" | 73 lbs | Wired for MR52/EP1502. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150/250-3D8P2M8N4E8M2/P16-A)	AC-LSP-WIRED-FPO150/250-3D8P2M8N4E8M2/P16-A	\$4,688.63
LifeSafety Power Sixteen Door Mercury Panduit ProWire Unified Power wall mount	Sixteen Door Mercury Panduit ProWire Unified Power wall mount | Power supply board 150W; 12A/12V | Power supply board 250W; 10A/24V | 16 relay managed outputs fused at 3A | 16 auxiliary outputs power limited at 2.5A | Four port monitoring module | Enclosure size: 36" x 30" x 4.5" | 73 lbs | Wired for all MR52s. NOTE: All ProWire Unified Power wall mounts are custom made to order. After 48 hours of Avigilon's order acknowledgment; all changes to an accepted purchase order will be subject to a Change Order charge of 30% of the net deliverable value. Returns and cancellations of an order or portion of an order that includes deliverables that have been manufactured and prepped for shipping will be applied with a 50% restocking fee. (Lifesafety Power Part #: FPO150/250-3D8P2M8N4E8M2/P16-C)	AC-LSP-WIRED-FPO150/250-3D8P2M8N4E8M2/P16-C	\$4,688.63
Small enclosure for 1 x Mercury EP1501 or 1 x Mercury MR62e	6.5W x 6.5W x 3D small size enclosure suitable for 1 x Mercury EP1501 or 1 x Mercury MR51e ; IP67 rated; Includes removable non-metallic backplane for mounting the controller. Stock Item	AC-RO-SMALL-ENC	\$82.92
STid KIT-SECARD-BT	Programming Kit for Bluetooth®/UltraLight® C/MIFARE® Classic & Classic EV1/MIFARE Plus®/DESFire® EV2 & EV3/NFC HCE + SECard Software	AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT	\$1,492.50
STid SE810	SE8 - 125 kHz EM + HID module for Architect Blue reader - Standard reader black - 125 kHz EM + HID module	AC-STID-EM-HID-LF-MODULE-SE810	\$103.43
STid SWEDGE-W45	UHF EPC1 Gen2 Enrollment Kit SWEDGE; ARC UHF desktop reader - ETSI - USB (cable included) + SWEDGE Software (Europe)	AC-STID-ENROLL-READER-UHF-SWEDGE-W45	\$898.46
STid SWEDGE-W55	UHF EPC1 Gen2 Enrollment Kit SWEDGE; ARC UHF desktop reader - FCC - USB (cable included) + SWEDGE Software (Americas)	AC-STID-ENROLL-READER-UHF-SWEDGE-W55	\$898.46
STid ARCS-R35-H/BT1-5AB/1A	ARCS-H/BT - Architect® Blue Desktop reader/enroller - Secure storage EAL5+ - Secure Read only - USB + WEDGE with keypad emulation interface (cable included) - AZERTY default configuration	AC-STID-ENROLL-READER-USB-ARCS-R35-H/BT1-5AB/1A	\$433.72
STid ARCS-R35-H/BT1-5AQ/1A	ARCS-H/BT - Architect® Blue Desktop reader/enroller - Secure storage EAL5+ - Secure Read only - USB + WEDGE with keypad emulation interface (cable included) - QWERTY default configuration	AC-STID-ENROLL-READER-USB-ARCS-R35-H/BT1-5AQ/1A	\$433.72
STid SE8M10	SE8M - 125 kHz Multi-technology module for Architect Blue reader - Standard reader black - 125 kHz Multi-technology module	AC-STID-LF-MT-MODULE-SE8M10	\$205.17
STid SE910	SE9 Architect® Blue QR Code / Barcode module - QR and Barcode module for Standard reader black	AC-STID-QR-BARCODE-MODULE-SE910	\$1,101.84
STid ARC1S-R31-B/BT1-3/1A	NON PROGRAMMED ARC1S/BT - Architect® One Blue Mullion reader - Secure storage EAL5+ - Secure Read only - TTL interface - 3m cable with connector - NO LOGO - Mullion Reader Black Wiegand 26bit - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-READER-ARC1S-R31-B/BT1-3/1A	\$307.02
STid ARC1S-W33-B/BT1-70S/1A	NON PROGRAMMED ARC1S/BT - Architect® One Blue Mullion reader - OSDP™ v1 & v2 secure protocol - Secure storage EAL5+ - RS485 interface - 3m cable with connector - NO LOGO - Mullion Reader Black OSDP v1 & v2 - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-READER-ARC1S-W33-B/BT1-70S/1A	\$307.02
STid ARCS-W33-AQ/BT1-70S/1A	NON PROGRAMMED ARCS-AQ/BT - Architect® Blue Upgradable QR Code; Bluetooth® & RFID reader - OSDP™ v1 & v2 secure protocol - Secure storage EAL5+ - RS485 interface - NO LOGO - Standard Reader black with QR module OSDP - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-READER-ARCS-W33-AQ/BT1-70S/1A	\$1,280.04
STid ARCS-W33-BQ/BT1-70S/1A	NON PROGRAMMED ARCS-BQ/BT Architect® Blue Upgradable QR Code; Bluetooth® & RFID Keypad reader - OSDP™ v1 & v2 secure protocol - Secure storage EAL5+ - RS485 interface - NO LOGO - Standard reader black with Keypad and QR module OSDP - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-READER-ARCS-W33-BQ/BT1-70S/1A	\$1,445.25
STid ARCS-W33-C/BT1-70S/1A	NON PROGRAMMED ARCS-C/BT - Architect® Blue Upgradable Touchscreen reader - OSDP™ v1 & v2 secure protocol - Secure storage EAL5+ - RS485 interface - NO LOGO - Standard reader black with touchscreen OSDP - Requires AC-STID-ARCHITECT-PROGRAMMING-KIT-SECARD-BT for configuration programming	AC-STID-READER-ARCS-W33-C/BT1-70S/1A	\$671.68
STid SNA-W43-ABT4-70S/1	SNA - SPECTRE nano UHF - Europa Low Band 865-868 MHz - USB cable & ULTRYS software included	AC-STID-READER-SNA-W43-ABT4-70S/1	\$1,581.73
STid SNA-W53-ABT4-70S/1	SNA - SPECTRE nano UHF - USA Upper Band 902-928 MHz - USB cable & ULTRYS software included	AC-STID-READER-SNA-W53-ABT4-70S/1	\$1,581.73
STid PLA-ADAP-V2-ARC-NO	Stackable spacer with cable passage for Architect® Blue reader - Possible mounting on the door mullions - Black	AC-STID-SPACER-PLA-ADAP-V2-ARC-NO	\$26.75
STid PLAQ-ARC1-NO-V2	Stackable spacer with cable passage for Architect® One Blue mullion reader - Black	AC-STID-SPACER-PLAQ-ARC1-NO-V2	\$26.75
STid KIT-ULTRYSV2	UHF Programming kit for SPECTRE; SPECTRE nano & ATX UHF reader configuration and user credentials encoding - ARC UHF (cable included) + Ultrys v2 software included	AC-STID-SPECTRE-PROGRAMMING-KIT-ULTRYSV2	\$995.88
Allegion MTK15-485	Schlage (formerly aptIQ™) Multi-Technology Keypad - Single Gang Reader - OSDP (Allegion Part Number: MTK15-485)	AC-ALL-READ-APTIO-OSDP-KEYPD-MTK15-485	\$549.15
Allegion MT11-485	Schlage (formerly aptIQ™) Multi-Technology - Mullion Reader - OSDP (Allegion Part Number: MT11-485)	AC-ALL-READ-APTIO-OSDP-MULL-MT11-485	\$342.59
Allegion MT15-485	Schlage (formerly aptIQ™) Multi-Technology - Single Gang Reader - OSDP (Allegion Part Number: MT15-485)	AC-ALL-READ-APTIO-OSDP-SNG-MT15-485	\$342.59
Allegion MTMSK15	Schlage (formerly aptIQ™) Multi-Technology with Magnetic Stripe and Keypad - Single Gang Reader - Wiegand (Allegion Part Number: MTMSK15)	AC-ALL-READ-APTIO-WIEGAND-MTMSK15	\$835.65

Allegion WPR400-MT	Wireless Portable Reader (with Multi-Technology Reader Module)Handheld; battery-operated unit with Multi-Technology(Allegion Part Number: WPR400-MT)	AC-ALL-SCH-WPR400-MT	\$2,183.01
Allegion WR1400	Outdoor Wireless Reader Interface Compatible with Wiegand or Magnetic Stripe Interface. Includes Weatherproof Enclosure; inputs for two parallel readers. Requires 12 or 24 VDC power supply (Non-stock item)(Allegion Part Number: WR1400)	AC-ALL-SCH-WR1400	\$989.44
Allegion MT20	Schlage (formerly aptiQ™) MT20 Multi-technology enrollment reader with ENGAGE™ technology (Allegion Part Number: MT20)	AC-ING-READ-APTIQ-ENROLL-MT20	\$543.67
Allegion MTK15	Schlage (formerly aptiQ™) Multi-Technology Keypad - Single Gang Reader (Allegion Part Number: MTK15)	AC-ING-READ-APTIQ-KEYPD-MTK15	\$544.48
Allegion SM10	Schlage (formerly aptiQ™) 13.56 MHz Smart - Mini Mullion Reader (Allegion Part Number: SM10)	AC-ING-READ-APTIQ-MINI-SM10	\$163.45
Allegion MT11	Schlage (formerly aptiQ™) Multi-Technology - Mullion Reader (Allegion Part Number: MT11)	AC-ING-READ-APTIQ-MULL-MT11	\$342.59
Allegion MT15	Schlage (formerly aptiQ™) Multi-Technology - Single Gang Reader (Allegion Part Number: MT15)	AC-ING-READ-APTIQ-SNG-MT15	\$342.59
Allegion PR10	Schlage (formerly XceedID) - 125 kHz Proximity - Mini Mullion Reader (Allegion Part Number: PR10)	AC-ING-READ-XCEEDID-PROX	\$172.66
Allegion PR10-C	Schlage (formerly XceedID) - 125 kHz Proximity - Mini Mullion Crème Reader (Allegion Part Number: PR10-C)	AC-ING-READ-XCEEDID-PROX-C	\$172.66
Allegion MT-15 RS485 OSDP Cream Color	Schlage MT-15 Single gang mount multi-technology reader; RS485 OSDP; Cream Color	AC-SCH-READ-OSDP-MT15-C	\$342.57
Allegion MT-15 Wiegand Cream Color	Schlage MT-15 Single gang mount multi-technology reader; Wiegand; Cream Color	AC-SCH-READ-WIEGAND-MT15-C	\$342.57
Allegion MTB11	Mobile Enabled Multi-Technology Reader - Mullion Mount - Dimensions: 5.91" x 1.72" x 0.81". Power required: 5-24 VDC - RS-485 capability included in standard product offering	AC-SCH-READER-MTB11	\$358.38
Allegion MTB15	Mobile Enabled Multi-Technology Reader - Wall Mount - Dimensions: 5.1" x 3.25" x 0.76". Power required: 5-24 VDC - RS-485 capability included in standard product offering	AC-SCH-READER-MTB15	\$358.38
Allegion MTKB15	Mobile Enabled Multi-Technology Reader - Wall Mount with Keypad - Dimensions: 5.1" x 3.25" x 0.76". Power required: 5-24 VDC - RS-485 capability included in standard product offering	AC-SCH-READER-MTKB15	\$575.81
Farpointe Data CSR-35L-OSDP	CONEKT OSDP; Long Range; Mullien and Single-gang Mount; Mobile-Ready Contactless Smartcard Readers (2.4-GHz/13.56-MHz) - MIFARE® DESFire® EV1 and EV2 Support	AC-FP-READ-CSR-35L-OSDP	\$420.24
Farpointe Data CSR-35L-WG	CONEKT Wiegand; Long Range; Mullien and Single-gang Mount; Mobile-Ready Contactless Smartcard Readers (2.4-GHz/13.56-MHz) - MIFARE® DESFire® EV1 and EV2 Support	AC-FP-READ-CSR-35L-WG	\$298.86
Farpointe Data DELTA6.2 OSDP MULLION-MOUNT CONTACTLESS SMARTCARD READER w/KEYPAD	Delta6.2 OSDP Contactless Smartcard Reader and Keypad - The model Delta6.2 is designed to be mounted directly to location requiring mullion mount; and integrates both a contactless smartcard reader (13.56-MHz) and a keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN) (Non Stock Item) (Farpointe Data Part Number: F05552-600SCN)	AC-FP-READ-DELTA-62-OSDP-F05552-600SCN	\$546.72
Farpointe Data DELTA 6.2	Delta 6.2 OSDP Contactless Smartcard Reader and Keypad - The model Delta 6.2 is designed to be mounted directly to location requiring mullion mount; and integrates both a contactless smartcard reader (13.56-MHz) and a keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN) (Non Stock Item) (Farpointe Data Part Number: F05552-600SCN)	AC-FP-READ-DELTA-62-OSDP-F05662-600	\$547.37
Farpointe Data DELTA3-SECTOR	Delta3 Contactless Smartcard Reader - With a compact design the model Delta3 may be mounted to metal door or window frames; and other flat surfaces (Stock Item) (Farpointe Data Part Number: Delta3 Sector)	AC-FP-READ-DELTA3-SECTOR	\$298.44
Farpointe Data DELTA5-OSDP	Delta5 OSDP Contactless Smartcard Reader - With a thin profile the model Delta5 may be mounted to a standard North American single-gang wall switch box; and other flat surfaces; OSDP Only.	AC-FP-READ-DELTA5-OSDP	\$450.06
Farpointe Data DELTA5-SECTOR	Delta5 Contactless Smartcard Reader - With a thin profile the model Delta5 may be mounted to a standard North American single-gang wall switch box; and other flat surfaces (Stock Item) (Farpointe Data Part Number: Delta5 Sector)	AC-FP-READ-DELTA5-SECTOR	\$323.60
Farpointe Data DELTA5.3-SECTOR	Delta5.3 Contactless Smartcard Reader - With distinctive contemporary styling the model Delta5.3 lends itself to mounting to a standard European-sized (60 mm) wall switch box; and other flat surfaces (Non Stock Item) (Farpointe Data Part Number: Delta5.3 Sector)	AC-FP-READ-DELTA5.3-SECTOR	\$323.60
Farpointe Data DELTA6.4-SECTOR	Delta6.4 Contactless Smartcard Reader and Keypad - The model Delta6.4 is designed to be mounted directly to a standard North American sized single-gang wall box; and integrates both a contactless smartcard reader (13.56-MHz) and a keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN) (Stock Item) (Farpointe Data Part Number: Delta6.4 Sector)	AC-FP-READ-DELTA6.4-SECTOR	\$539.41
Farpointe Data P-453-HA	Gibraltar Proximity Reader; Bullet-resistant reader designed to be mounted to mullion; door or window frames.(Farpointe Data Part Number: P-453-HA)	AC-FP-READ-GIBRALTER-BR-P-453-HA	\$709.36
Farpointe Data P-455-HA	Gibraltar Proximity Reader; Bullet-resistant reader designed to mount to standard North American single-gang wall switch boxes.(Farpointe Data Part Number: P-455-HA)	AC-FP-READ-GIBRALTER-BR-P-455-HA	\$781.62
Farpointe Data P-403-HA	Guardian Proximity Reader; Vandal-resistant reader designed to mount to a metal door and window frame.(Farpointe Data Part Number: P-403-HA)	AC-FP-READ-GUARDIAN-VR-P-403-HA	\$482.83
Farpointe Data P-405-HA	Guardian Proximity Reader; Vandal-resistant reader designed to mount to a standard North American single-gang wall switch box.(Farpointe Data Part Number: P-405-HA)	AC-FP-READ-GUARDIAN-VR-P-405-HA	\$573.08
Farpointe Data P-410-HA	Guardian Proximity Reader; Vandal-resistant reader designed to mount to a standard North American double-gang wall switch box.(Farpointe Data Part Number: P-410-HA)	AC-FP-READ-GUARDIAN-VR-P-410-HA	\$718.74
Farpointe Data P-300-H	P-300 Cascade Proximity Reader - Designed to be mounted to metal door and window frames (Stock Item) (Farpointe Data Part Number: P-300-H)	AC-FP-READ-P-300-H	\$94.86
Farpointe Data P-300-H-A	Mullion mount reader; supports Farpointe + certain HID® and AWID® 125-kHz Proximity protocols (Farpointe Data Part Number: P-300-H-A)	AC-FP-READ-P-300-H-A	\$96.90
Farpointe Data P-500-H	P-500 Alps Proximity Reader - Designed to be mounted to a standard North American single-gang wall switch box (Stock Item) (Farpointe Data Part Number: P-500-H)	AC-FP-READ-P-500-H	\$109.14
Farpointe Data P-500-H-A	Single-gang mount reader; supports Farpointe + certain HID® and AWID® 125-kHz Proximity protocols (Farpointe Data Part Number: P-500-H-A)	AC-FP-READ-P-500-H-A	\$107.10
Farpointe Data P-640-H	P-640 Patagonia Proximity Reader and Keypad - Designed to be mounted directly to standard North American sized single-gang wall box; and integrates both a proximity reader and keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number (PIN) (Stock Item) (Farpointe Data Part Number: P-640-H)	AC-FP-READ-P-640-H	\$303.21
Farpointe Data P-640-H-A	Keypad + reader; single-gang mount; supports Farpointe + certain HID® and AWID® 125-kHz Proximity protocols (Farpointe Data Part Number: P-640-H-A)	AC-FP-READ-P-640-H-A	\$305.36
Farpointe Data P-640-H-OSDP	P-640 Patagonia Proximity Reader and Keypad - Designed to be mounted directly to standard North American sized single-gang wall box; and integrates both a proximity reader and keypad into a single-unit making it ideal for applications requiring an access credential and/or personal identification number; OSDP Only	AC-FP-READ-P-640-H-OSDP	\$425.73
Farpointe Data P-710-H	P-710 Andes Proximity Reader - Intended for applications calling for heightened levels of convenience; such as parking lots and high-volume employee entrances (Non Stock Item)(Farpointe Data Part Number: P-710-H)	AC-FP-READ-P-710-H	\$392.90
Farpointe Data P-710-H-A	Parking; single-gang mount reader; supports Farpointe + certain HID® and AWID® 125-kHz Proximity protocols (Farpointe Data Part Number: P-710-H-A)	AC-FP-READ-P-710-H-A	\$391.68
Farpointe Data P-900-H	P-900 Proximity Reader - A high performance design; it is classified as a long range reader; and is capable of delivering read ranges of up to 20-inches (508 mm). The longer read range of the P-900 adds convenience to a wide range of access applications; including turnstiles and parking control (Stock Item) (Farpointe Data Part Number: P-900-H)	AC-FP-READ-P-900-H	\$777.49
Farpointe Data P-900-H-A	Single-gang/double-gang; standard parking bollard mount reader; supports Farpointe + certain HID® and AWID® 125-kHz Proximity protocols (Farpointe Data Part Number: P-900-H-A)	AC-FP-READ-P-900-H-A	\$776.27
Farpointe Data P-530-HA	EuroMount Proximity Reader; designed to be mounted to a standard European-sized (60 mm) wall switch box. (Non-stock item)(Farpointe Data Part Number: P-530-HA)	AC-FP-READ-PROX-EURO-P-530-HA	\$109.14
Farpointe Data P-620-HA	Mullion Mount Keypad reader + proximity; designed to be mounted to window or door frames(Farpointe Data Part Number: P-620-HA)	AC-FP-READ-PROX-KEYPAD-P-620-HA	\$303.21
Farpointe Data MCR-50-H	MCR-50 Proximity Reader - Supports Farpointe + certain Indala® ASP Advantage Series Proximity formats + certain HID® 125-kHz Proximity protocols; single-gang mount. (Non-stock item) (Farpointe Data Part Number: MCR-50-H)	AC-FP-READ-WG-MCR-50-H	\$183.60
Farpointe Data WRR-22	Long-Range Receiver; designed to output Transmitter data from buttons 1 and 2 over two separate Wiegand outputs and install similar to a Pyramid Series Proximity® reader; making for easy integration with most access control systems. (Non-stock item)(Farpointe Data Part Number: WRR-22)	AC-FP-REC-LONG-RANGE-WRR-22	\$240.72
Farpointe Data WRR-44	WRR-44 Ranger Receiver - Long range radio-type receiver; features a Transmitter receive range of up to 200-feet (61-m); and is ideal for applications involving vehicle or disabled access(Stock Item) (Farpointe Data Part Number: WRR-44)	AC-FP-REC-WRR-44	\$396.58
VIRDI AC2000HID iClass	VIRDI fingerprint smart card reader with live fingerprint detection embedded. Supports fingerprint; HID iClass Card; User Capacity: 10,000; Finger Capacity: 1,500; TCP/IP Server Communication; No LCD; No Function Key; bluetooth support. Power Supply not included. (VIRDI Part Number: AC2000iClass)	AC-VT-READ-BIO-RFID-AC2000IC	\$918.00

VIRDI AC2000HID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC2000IC and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC2000IC-EU	\$918.00
VIRDI AC2000HID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC2000IC and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC2000IC-NA	\$918.00
VIRDI AC2000HID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC2000IC and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC2000IC-UK	\$918.00
VIRDI AC2000Prox	VIRDI fingerprint smart card reader with live fingerprint detection embedded. Supports fingerprint; HID prox Card; User Capacity : 10,000; Finger Capacity: 1,500; TCP/IP Server Communication; No LCD; No Function Key; bluetooth support. Power Supply not included. (VIRDI Part Number: AC2000Prox)	AC-VT-READ-BIO-RFID-AC2000PROX	\$918.00
VIRDI AC2000Prox	Reader bundle including AC-VT-READ-BIO-RFID-AC2000Prox and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC2000PROX-EU	\$918.00
VIRDI AC2000Prox	Reader bundle including AC-VT-READ-BIO-RFID-AC2000Prox and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC2000PROX-NA	\$918.00
VIRDI AC2000Prox	Reader bundle including AC-VT-READ-BIO-RFID-AC2000Prox and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC2000PROX-UK	\$918.00
VIRDI AC2000SC	VIRDI fingerprint smart card reader with live fingerprint detection embedded. Supports fingerprint; Mifare 13.56Mhz Card & PIN Authentication; User Capacity: 1,500; Finger Capacity: 1,500; TCP/IP Server Communication; No LCD; No Function Key; Bluetooth support. (VIRDI Part Number: AC2000SC)	AC-VT-READ-BIO-RFID-AC2000SC	\$714.00
VIRDI AC2000SC	Reader bundle including AC-VT-READ-BIO-RFID-AC2000SC and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC2000SC-EU	\$714.00
VIRDI AC2000SC	Reader bundle including AC-VT-READ-BIO-RFID-AC2000SC and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC2000SC-NA	\$714.00
VIRDI AC2000SC	Reader bundle including AC-VT-READ-BIO-RFID-AC2000SC and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC2000SC-UK	\$714.00
VIRDI AC5000plusHID iClass	VIRDI Fingerprint and card enrollment reader with touchscreen keypad; live fingerprint detection embedded; supports HID iClass Card & PIN authentication. User Capacity : 20,000; Finger Capacity: 20,000; IP 65 Weatherproof; TCP/IP server communication. Power Supply not included. (VIRDI Part Number: AC5000PlusiClass)	AC-VT-READ-BIO-RFID-AC5000IC	\$1,275.00
VIRDI AC5000plusHID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC5000IC and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC5000IC-EU	\$1,275.00
VIRDI AC5000plusHID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC5000IC and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC5000IC-NA	\$1,275.00
VIRDI AC5000plusHID iClass	Reader bundle including AC-VT-READ-BIO-RFID-AC5000IC and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC5000IC-UK	\$1,275.00
VIRDI AC5000PlusProx	VIRDI Fingerprint and card enrollment reader with touchscreen keypad; live fingerprint detection embedded; supports HID Prox Card & PIN authentication. User Capacity : 20,000; Finger Capacity: 20,000; IP 65 Weatherproof; TCP/IP server communication. Power Supply not included. (VIRDI Part Number: AC5000PlusProx)	AC-VT-READ-BIO-RFID-AC5000PROX	\$1,275.00
VIRDI AC5000PlusProx	Reader bundle including AC-VT-READ-BIO-RFID-AC5000Prox and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC5000PROX-EU	\$1,275.00
VIRDI AC5000PlusProx	Reader bundle including AC-VT-READ-BIO-RFID-AC5000Prox and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC5000PROX-NA	\$1,275.00
VIRDI AC5000PlusProx	Reader bundle including AC-VT-READ-BIO-RFID-AC5000Prox and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC5000PROX-UK	\$1,275.00
VIRDI AC5000Plus SA	VIRDI Fingerprint and card enrollment reader with touchscreen keypad; live fingerprint detection embedded; supports Mifare 13.56Mhz Card & PIN authentication. User Capacity : 20,000; Finger Capacity: 20,000; IP 65 Weatherproof & PoE 13W; TCP/IP server communication. Power Supply Not Included. (VIRDI Part Number: AC5000PlusSA)	AC-VT-READ-BIO-RFID-AC5000SC-BLK	\$1,071.00
VIRDI AC5000Plus SA	Reader bundle including AC-VT-READ-BIO-RFID-AC5000SC-BLK and power supply with type C plug for Europe	AC-VT-READ-BIO-RFID-AC5000SC-BLK-EU	\$1,071.00
VIRDI AC5000Plus SA	Reader bundle including AC-VT-READ-BIO-RFID-AC5000SC-BLK and power supply with type B plug for North America	AC-VT-READ-BIO-RFID-AC5000SC-BLK-NA	\$1,071.00
VIRDI AC5000Plus SA	Reader bundle including AC-VT-READ-BIO-RFID-AC5000SC-BLK and power supply with type G plug for United Kingdom	AC-VT-READ-BIO-RFID-AC5000SC-BLK-UK	\$1,071.00
VIRDI FOH02	VIRDI Fingerprint and card enrollment USB reader, live fingerprint detection embedded; Fingerprint Platen Area: 16 x 19.6mm / Image Size: 15 x 17mm; (VIRDI Part Number: FOH02)	AC-VT-READ-BIO-USB-FOH02	\$142.80
VIRDI FOH02-SC	VIRDI Fingerprint and card enrollment reader, live fingerprint detection embedded; supports Mifare 13.56Mhz Card (Read & Write); Fingerprint Platen Area: 16 x 19.6mm / Image Size: 15 x 17mm; Read /Write - supports TOC (Template on Card) (VIRDI Part Number: FOH02SC) Note - This product is not available for sale in Spain and South Africa.	AC-VT-READ-BIO-USB-FOH02-SC	\$188.70
HID IP65GSKT-R10	GASKET PACK; IP65; R10 SIZE; iCLASS SE; PACK OF 10 GASKETS (HID Part Number: IP65GSKT-R10)	AC-HID-GASKET-IP65GSKT-R10	\$30.37
HID IP65GSKT-R15	GASKET PACK; IP65; R15 SIZE; iCLASS SE; PACK OF 10 GASKETS (HID Part Number: IP65GSKT-R15)	AC-HID-GASKET-IP65GSKT-R15	\$30.37
HID IP65GSKT-R40	GASKET PACK; IP65; R40 SIZE; iCLASS SE; PACK OF 10 GASKETS (HID Part Number: IP65GSKT-R40)	AC-HID-GASKET-IP65GSKT-R40	\$30.37
HID IP65GSKT-RK40	GASKET PACK; IP65; RK40 SIZE; iCLASS SE; PACK OF 10 GASKETS (HID Part Number: IP65GSKT-RK40)	AC-HID-GASKET-IP65GSKT-RK40	\$30.37
HID 900PTPNEK00387	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; PIG; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 900PTPNEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-900PTPNEK00387	\$251.95
HID 900PTPTEK00387	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 900PTPTEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-900PTPTEK00387	\$251.95
HID 910PTPNEK00387	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; PIG; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 910PTPNEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-910PTPNEK00387	\$381.90
HID 910PTPTEK00387	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 910PTPTEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-910PTPTEK00387	\$381.90
HID 920PTPNEK00387	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; PIG; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 920PTPNEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-920PTPNEK00387	\$381.90
HID 920PTPTEK00387	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 920PTPTEK00387)	AC-HID-MCLASS-SE-PROX-OSDP-920PTPTEK00387	\$381.90
HID 921PTPNEK00385	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; PIG; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; KPF; ASCII; BFFRD 1 KEY; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF (HID Part #: 921PTPNEK00385)	AC-HID-MCLASS-SE-PROX-OSDP-921PTPNEK00385	\$635.48
HID 921PTPTEK00385	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPN COL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; KPF; ASCII; BFFRD 1 KEY; IPM OFF; UART OFF; WIEG OFF (HID Part #: 921PTPTEK00385)	AC-HID-MCLASS-SE-PROX-OSDP-921PTPTEK00385	\$635.48
HID 900NMPNEKEA005	R10 Mini-mullion reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 900NMPNEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-900NMPNEKEA005	\$260.98
HID 900NMPNEKMA005	RDR; R10; iCLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 900NMPNEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-900NMPNEKMA005	\$263.38
HID 900NMPTEKEA005	R10 Mini-mullion reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 900NMPTEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-900NMPTEKEA005	\$260.98
HID 900NMPTEKMA005	RDR; R10; iCLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 900NMPTEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-900NMPTEKMA005	\$263.38
HID 910NMPNEKEA005	R15 Mullion reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 910NMPNEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-910NMPNEKEA005	\$390.99
HID 910NMPNEKMA005	RDR; R15; iCLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 910NMPNEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-910NMPNEKMA005	\$393.41
HID 910NMPTEKEA005	R15 Mullion reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 910NMPTEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-910NMPTEKEA005	\$390.99

HID 910NMPTEKMA005	RDR; R15; ICLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 910NMPTEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-910NMPTEKMA005	\$393.41
HID 920NMPNEKEA005	R40 Standard wall switch reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 920NMPNEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-920NMPNEKEA005	\$390.99
HID 920NMPNEKMA005	RDR; R40; ICLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 920NMPNEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-920NMPNEKMA005	\$393.41
HID 920NMPTEKEA005	R40 Standard wall switch reader; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 920NMPTEKEA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-920NMPTEKEA005	\$390.99
HID 920NMPTEKMA005	RDR; R40; ICLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 920NMPTEKMA005)	AC-HID-READ-ICLASS-SE-MOB-OSDP-920NMPTEKMA005	\$393.41
HID 921NMPNEKEA006	RK40 Standard wall switch reader with keypad input; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 921NMPNEKEA006)	AC-HID-READ-ICLASS-SE-MOB-OSDP-921NMPNEKEA006	\$644.57
HID 921NMPNEKMA006	RDR; RK40; ICLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; KPF; ASCII; BFFRD 1 KEY; IPM OFF; MOBILE-READY (HID Part #: 921NMPNEKMA006)	AC-HID-READ-ICLASS-SE-MOB-OSDP-921NMPNEKMA006	\$647.01
HID 921NMPTEKEA006	RK40 Standard wall switch reader with keypad input; OSDP; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 921NMPTEKEA006)	AC-HID-READ-ICLASS-SE-MOB-OSDP-921NMPTEKEA006	\$644.57
HID 921NMPTEKMA006	RDR; RK40; ICLASS; SE E; LF OFF; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; A/V OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; KPF; ASCII; BFFRD 1 KEY; IPM OFF; MOBILE-READY (HID Part #: 921NMPTEKMA006)	AC-HID-READ-ICLASS-SE-MOB-OSDP-921NMPTEKMA006	\$647.01
HID 900NBNEK20000	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Pigtail (HID Part #: 900NBNEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-900NBNEK20000	\$260.98
HID 900NBNEKE0000	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Pigtail (HID Part #: 900NBNEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-900NBNEKE0000	\$260.98
HID 900NBNTEK20000	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Terminal Strip (HID Part #: 900NBNTEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-900NBNTEK20000	\$260.98
HID 900NBNTEKE0000	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Terminal Strip (HID Part #: 900NBNTEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-900NBNTEKE0000	\$260.98
HID 900NMNEKEA001	R10 Mini-mullion reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 900NMNEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-900NMNEKEA001	\$260.98
HID 900NMNTEKEA001	R10 Mini-mullion reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 900NMNTEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-900NMNTEKEA001	\$260.98
HID 910NMNNEKEA001	R15 Mullion reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 910NMNNEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-910NMNNEKEA001	\$390.99
HID 910NMNTEKEA001	R15 Mullion reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 910NMNTEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-910NMNTEKEA001	\$390.99
HID 920NBNEK20000	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Pigtail (HID Part #: 920NBNEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-920NBNEK20000	\$390.99
HID 920NBNEKE0000	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Pigtail (HID Part #: 920NBNEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-920NBNEKE0000	\$390.99
HID 920NBNEKES077	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Pigtail; Non-standard configuration (HID Part #: 920NBNEKES077)	AC-HID-READ-ICLASS-SE-MOB-WG-920NBNEKES077	\$390.99
HID 920NBNTEK20000	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Terminal Strip (HID Part #: 920NBNTEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-920NBNTEK20000	\$390.99
HID 920NBNTEKE0000	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Terminal Strip (HID Part #: 920NBNTEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-920NBNTEKE0000	\$390.99
HID 920NMNNEKEA001	R40 Standard wall switch reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 920NMNNEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-920NMNNEKEA001	\$390.99
HID 920NMNTEKEA001	R40 Standard wall switch reader; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 920NMNTEKEA001)	AC-HID-READ-ICLASS-SE-MOB-WG-920NMNTEKEA001	\$390.99
HID 921NBNEK20000	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Pigtail (HID Part #: 921NBNEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-921NBNEK20000	\$644.57
HID 921NBNEKE0000	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Pigtail (HID Part #: 921NBNEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-921NBNEKE0000	\$644.57
HID 921NBNTEK20000	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; Terminal Strip (HID Part #: 921NBNTEK20000)	AC-HID-READ-ICLASS-SE-MOB-WG-921NBNTEK20000	\$644.57
HID 921NBNTEKE0000	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; iCLASS Seos; Mobile IDs via NFC and Bluetooth Smart; HID Elite and Mobile-Enabled; Terminal Strip (HID Part #: 921NBNTEKE0000)	AC-HID-READ-ICLASS-SE-MOB-WG-921NBNTEKE0000	\$644.57
HID 921NMNNEKEA002	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 921NMNNEKEA002)	AC-HID-READ-ICLASS-SE-MOB-WG-921NMNNEKEA002	\$644.57
HID 921NMNTEKEA002	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 921NMNTEKEA002)	AC-HID-READ-ICLASS-SE-MOB-WG-921NMNTEKEA002	\$644.57
HID 900NTNNEK00000	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 900NTNNEK00000)	AC-HID-READ-ICLASS-SE-R10	\$173.18
HID 900NTNNEK00000 Avigilon Logo	R10 Mini-mullion reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail; Avigilon logo (HID Part #: 900NTNNEK00000-A001)	AC-HID-READ-ICLASS-SE-R10-AVG	\$173.18
HID 910NTNNEK00000	R15 Mullion reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 910NTNNEK00000)	AC-HID-READ-ICLASS-SE-R15	\$303.08
HID 920NTNNEK00000	R40 Standard wall switch reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 920NTNNEK00000)	AC-HID-READ-ICLASS-SE-R40	\$303.08
HID 920NSNNEK20000	RDR; R40; ICLASS; SE E; LF OFF; HF SEOS; WIEG; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; IPM OFF; VEL ON	AC-HID-READ-ICLASS-SE-R40-WG-920NSNNEK20000	\$305.54
HID 940NNTEK2037P	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; Terminal Strip (HID Part #: 940NNTEK2037P)	AC-HID-READ-ICLASS-SE-R90-WG-940NNTEK2037P	\$745.57
HID 940NTNTEK00000	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK00000)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK00000	\$745.57
HID 940NTNTEK00015	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK00015)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK00015	\$745.57
HID 940NTNTEK0001F	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0001F)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0001F	\$745.57

HID 940NTNTEK00021	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK00021)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK00021	\$745.57
HID 940NTNTEK00029	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK00029)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK00029	\$745.57
HID 940NTNTEK0002B	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0002B)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0002B	\$745.57
HID 940NTNTEK0002J	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0002J)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0002J	\$745.57
HID 940NTNTEK0002Q	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0002Q)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0002Q	\$745.57
HID 940NTNTEK0003V	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0003V)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0003V	\$745.57
HID 940NTNTEK0005J	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0005J)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0005J	\$745.57
HID 940NTNTEK00061	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK00061)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK00061	\$745.57
HID 940NTNTEK0006K	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0006K)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0006K	\$745.57
HID 940NTNTEK0009D	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0009D)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0009D	\$745.57
HID 940NTNTEK000DG	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK000DG)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK000DG	\$745.57
HID 940NTNTEK000JF	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK000JF)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK000JF	\$745.57
HID 940NTNTEK000K4	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK000K4)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK000K4	\$745.57
HID 940NTNTEK0007V	R90 Extended range (up to 18in/45cm) reader; OSDP; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Terminal Strip (HID Part #: 940NTNTEK0007V)	AC-HID-READ-ICLASS-SE-R90-WG-940NTNTEK0007V	\$778.19
HID 940NWNTKE000GD	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; MIFARE Classic and DESFire EV1 (Custom data); Mobile enabled; Terminal Strip (HID Part #: 940NWNTKE000GD)	AC-HID-READ-ICLASS-SE-R90-WG-940NWNTKE000GD	\$801.79
HID 940NWNTKE0324	R90 Extended range (up to 18in/45cm) reader; Wiegand; No Prox; MIFARE Classic and DESFire EV1 (Custom data); Mobile enabled; Terminal Strip (HID Part #: 940NWNTKE0324)	AC-HID-READ-ICLASS-SE-R90-WG-940NWNTKE0324	\$801.79
HID 921NTNNEK00000	RK40 Standard wall switch reader with keypad input; Wiegand; No Prox; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 921NTNNEK00000)	AC-HID-READ-ICLASS-SE-RK40	\$556.66
HID 921NSNNEK20000	RDR; RK40; iCLASS; SE E; LF OFF; HF SEOS; WIEG; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; VEL ON	AC-HID-READ-ICLASS-SE-RK40-WG-921NSNNEK20000	\$557.90
HID 900PTNNEK00000	RP10 Mini-mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 900PTNNEK00000)	AC-HID-READ-ICLASS-SE-RP10	\$215.92
HID 910PTNNEK00000	RP15 Mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 910PTNNEK00000)	AC-HID-READ-ICLASS-SE-RP15	\$345.87
HID 920PTNNEK00000	RP40 Standard wall switch reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 920PTNNEK00000)	AC-HID-READ-ICLASS-SE-RP40	\$345.87
HID 920PTNNEK00000 Aviglon Logo	RP40 Standard wall switch reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail; Aviglon logo (HID Part #: 920PTNNEK00000-A001)	AC-HID-READ-ICLASS-SE-RP40-AVG	\$345.87
HID Part 921PTNNEK00000	RPK40 Standard wall switch reader with keypad input; Wiegand; HID Prox; AWID and EM4102 (32 bits); iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); Mobile IDs via NFC; ISO 14443 UID; Pigtail (HID Part #: 921PTNNEK00000)	AC-HID-READ-ICLASS-SE-RPK40	\$599.42
HID MaxProx Long Range Proximity Reader (HID # 5375AGN00)	MaxProx Long Range Proximity Reader (HID # 5375AGN00)	AC-HID-READ-MAXIPROX	\$829.40
HID 920PTNNEK00050X	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; 485HD; AV OFF; OSDP V1; PIG; BLK; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; MOBILE-READY (HID Part #: 920PTNNEK00050X)	AC-HID-READ-MCLASS-SE-CSN-WG-920PTNNEK00050X	\$348.32
HID 900LTNNEK00017	RDR; RP10; MULTICLASS; SE E; LF CST; HF STD/SIO/SEOS; SE INDALA MODULE; WIEG; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; IPM OFF (HID Part #: 900LTNNEK00017)	AC-HID-READ-MCLASS-SE-INDALA-900LTNNEK00017	\$218.34
HID 910LTNNEK00017	RDR; RP15; MULTICLASS; SE E; LF CST; HF STD/SIO/SEOS; SE INDALA MODULE; WIEG; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; IPM OFF (HID Part #: 910LTNNEK00017)	AC-HID-READ-MCLASS-SE-INDALA-910LTNNEK00017	\$348.32
HID 920LTNNEK00017	RDR; RP40; MULTICLASS; SE E; LF CST; HF STD/SIO/SEOS; SE INDALA MODULE; WIEG; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; IPM OFF (HID Part #: 920LTNNEK00017)	AC-HID-READ-MCLASS-SE-INDALA-920LTNNEK00017	\$348.32
HID 921LTNNEK00027	RDR; RPK40; MULTICLASS; SE E; LF CST; HF STD/SIO/SEOS; SE INDALA MODULE; WIEG; PIG; BLK; STD-1; LED OFF; FLSH GRN; BZR ON; CSN 32-BIT MSB; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF (HID Part #: 921LTNNEK00027)	AC-HID-READ-MCLASS-SE-INDALA-921LTNNEK00027	\$601.89
HID 900PMPNEKEA007	R10 Mini-mullion reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 900PMPNEKEA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-900PMPNEKEA007	\$303.71
HID 900PMPNEKMA007	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; 485HD; AV OFF; OSDP V1; PIG; BLK; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; MOBILE-READY (HID Part #: 900PMPNEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-900PMPNEKMA007	\$302.53
HID 900PMPTEKEA007	R10 Mini-mullion reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 900PMPTEKEA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-900PMPTEKEA007	\$303.71
HID 900PMPTEKMA007	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; MOBILE-READY (HID Part #: 900PMPTEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-900PMPTEKMA007	\$302.53
HID 910PMPNEKEA007	R15 Mullion reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 910PMPNEKEA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-910PMPNEKEA007	\$433.75
HID 910PMPNEKMA007	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; AV OFF; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 910PMPNEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-910PMPNEKMA007	\$432.54
HID 910PMPTEKEA007	R15 Mullion reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 910PMPTEKEA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-910PMPTEKEA007	\$433.75
HID 910PMPTEKMA007	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; NO CST SPC KEYS; MOBILE-READY (HID Part #: 910PMPTEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-910PMPTEKMA007	\$432.54
HID 920PMPNEKEA007	R40 Standard wall switch reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 920PMPNEKEA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-920PMPNEKEA007	\$433.75
HID 920PMPNEKMA007	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; MOBILE READY (HID Part #: 920PMPNEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-920PMPNEKMA007	\$432.54

HID 920PMPTEKMA007	R40 Standard wall switch reader; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 920PMPTEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-920PMPTEKMA007	\$433.75
HID 920PMPTEKMA007	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; UART OFF; WIEG OFF; MOBILE READY (HID Part #: 920PMPTEKMA007)	AC-HID-READ-MCLASS-SE-MOB-OSDP-920PMPTEKMA007	\$432.54
HID 921PMPNEKEA008	RK40 Standard wall switch reader with keypad input; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 921PMPNEKEA008)	AC-HID-READ-MCLASS-SE-MOB-OSDP-921PMPNEKEA008	\$686.10
HID 921PMPNEKMA008	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; KPFF; ASCII; BFRD 1 KEY; IPM OFF; UART OFF; WIEG OFF; MOBILE READY (HID Part #: 921PMPNEKMA008)	AC-HID-READ-MCLASS-SE-MOB-OSDP-921PMPNEKMA008	\$686.10
HID 921PMPTEKMA008	RK40 Standard wall switch reader with keypad input; OSDP; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 921PMPTEKMA008)	AC-HID-READ-MCLASS-SE-MOB-OSDP-921PMPTEKMA008	\$686.10
HID 921PMPTEKMA008	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; TERM; BLK; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEY; POLL=75MS; CSN 32-BIT MSB; EM4102 32-BIT; KPFF; ASCII; BFRD 1 KEY; IPM OFF; UART OFF; WIEG OFF; MOBILE READY (HID Part #: 921PMPTEKMA008)	AC-HID-READ-MCLASS-SE-MOB-OSDP-921PMPTEKMA008	\$686.10
HID 900PBNEK20000	RDR; RP10; MULTICLASS; SE E; LF FSK ONLY; HF SEOS; WIEG; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; IPM OFF; VEL ON; MOBILE READY (HID Part #: 900PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-900PBNEK20000	\$302.53
HID 900PBNEK20000	RDR; RP10; MULTICLASS; SE E; LF FSK ONLY; HF SEOS; WIEG; TERM; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; IPM OFF; VEL ON; MOBILE READY (HID Part #: 900PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-900PBNEK20000	\$302.53
HID 900PMNNEKEA003	R10 Mini-mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 900PMNNEKEA003)	AC-HID-READ-MCLASS-SE-MOB-WG-900PMNNEKEA003	\$303.71
HID 900PMNNEKMA003	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; PIG; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 900PMNNEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-900PMNNEKMA003	\$302.53
HID 900PMNTEKMA003	R10 Mini-mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 900PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-900PMNTEKMA003	\$303.71
HID 900PMNTEKMA003	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; TERM; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 900PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-900PMNTEKMA003	\$302.53
HID 910PBNEK20000	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; IM ALIVE; VAR OUTPUT PER SIO; IPM OFF; VEL ON; MOBILE READY (HID Part #: 910PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-910PBNEK20000	\$432.54
HID 910PMNNEKEA003	R15 Mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 910PMNNEKEA003)	AC-HID-READ-MCLASS-SE-MOB-WG-910PMNNEKEA003	\$433.75
HID 910PMNNEKMA003	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; PIG; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 910PMNNEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-910PMNNEKMA003	\$432.54
HID 910PMNTEKMA003	R15 Mullion reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 910PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-910PMNTEKMA003	\$433.75
HID 910PMNTEKMA003	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; TERM; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 910PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-910PMNTEKMA003	\$432.54
HID 920PBNEK20000	RDR; RP40; MULTICLASS; SE E; LF FSK ONLY; HF SEOS; WIEG; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; IPM OFF; VEL ON; MOBILE READY (HID Part #: 920PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-920PBNEK20000	\$432.54
HID 920PBNEK20000	RDR; RP40; MULTICLASS; SE E; LF FSK ONLY; HF SEOS; WIEG; TERM; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; IPM OFF; VEL ON; MOBILE READY (HID Part #: 920PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-920PBNEK20000	\$432.54
HID 920PMNNEKEA003	R40 Standard wall switch reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 920PMNNEKEA003)	AC-HID-READ-MCLASS-SE-MOB-WG-920PMNNEKEA003	\$433.75
HID 920PMNNEKMA003	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; PIG; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 920PMNNEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-920PMNNEKMA003	\$432.54
HID 920PMNTEKMA003	R40 Standard wall switch reader; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 920PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-920PMNTEKMA003	\$433.75
HID 920PMNTEKMA003	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; TERM; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; IPM OFF; MOBILE-READY (HID Part #: 920PMNTEKMA003)	AC-HID-READ-MCLASS-SE-MOB-WG-920PMNTEKMA003	\$432.54
HID 921PBNEK20000	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; OSDP; PIG; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; KPFF; BFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; VEL ON; MOBILE READY (HID Part #: 921PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-921PBNEK20000	\$686.10
HID 921PBNEK20000	RDR; RPK40; MULTICLASS; SE E; LF FSK ONLY; HF SEOS; WIEG; TERM; BLK; STD-2; LED RED; FLSH GRN; BZR ON; VAR BIT OUTPUT PER SIO; KPFF; BFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; VEL ON; MOBILE READY (HID Part #: 921PBNEK20000)	AC-HID-READ-MCLASS-SE-MOB-WG-921PBNEK20000	\$686.10
HID 921PMNNEKEA004	RK40 Standard wall switch reader with keypad input; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Pigtail (HID Part #: 921PMNNEKEA004)	AC-HID-READ-MCLASS-SE-MOB-WG-921PMNNEKEA004	\$686.10
HID 921PMNNEKMA004	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; PIG; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; KPFF; BFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; MOBILE-READY (HID Part #: 921PMNNEKMA004)	AC-HID-READ-MCLASS-SE-MOB-WG-921PMNNEKMA004	\$686.10
HID 921PMNTEKMA004	RK40 Standard wall switch reader with keypad input; Wiegand; HID Prox; AWID and EM4102 (32 bits); Mobile IDs via NFC and Bluetooth Smart; iCLASS Seos; SE; SR; Standard; MIFARE Classic (SIO); MIFARE DESFire EV1 (SIO); ISO 14443 UID; Mobile enabled; Terminal Strip (HID Part #: 921PMNTEKMA004)	AC-HID-READ-MCLASS-SE-MOB-WG-921PMNTEKMA004	\$686.10
HID 921PMNTEKMA004	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS/MA; WIEG; TERM; BLK; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; CSN 32-BIT MSB; EM4102 32-BIT; KPFF; BFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; MOBILE READY (HID Part #: 921PMNTEKMA004)	AC-HID-READ-MCLASS-SE-MOB-WG-921PMNTEKMA004	\$686.10
HID 900PTNTEK00000	RDR; RP10; MULTICLASS; SE REV E; STD PROX; STD; WIEGAND; TERM; BLK; STD 1 SECURITY; LED RED; FLASH GRN; BZR ON; IPM OFF; 32 BIT (HID Part #: 900PTNTEK00000)	AC-HID-READ-MCLASS-SE-PROX-WG-900PTNTEK00000	\$218.34
HID 910PTNTEK00000	RDR; RP15; MULTICLASS; SE REV E; STD PROX; STD; WIEGAND; TERM; BLK; STD 1 SECURITY; LED RED; FLASH GRN; BZR ON; IPM OFF; 32 BIT (HID Part #: 910PTNTEK00000)	AC-HID-READ-MCLASS-SE-PROX-WG-910PTNTEK00000	\$348.32
HID 920PTNTEK00000	RDR; RP40; MULTICLASS; SE REV E; STD PROX; STD; WIEGAND; TERM; BLK; STD 1 SECURITY; LED RED; FLASH GRN; BZR ON; IPM OFF; 32 BIT (HID Part #: 920PTNTEK00000)	AC-HID-READ-MCLASS-SE-PROX-WG-920PTNTEK00000	\$348.32
HID 921PTNTEK00000	RDR; RPK40; MULTICLASS; SE REV E; KPD; STD PROX; STD; WIEGAND; TERM; BLK; STD 1 SECURITY; LED RED; FLASH GRN; BZR ON; IPM OFF; KPFF 4-BIT; 32 BIT (HID Part #: 921PTNTEK00000)	AC-HID-READ-MCLASS-SE-PROX-WG-921PTNTEK00000	\$601.89
HID 900PTNNEKE0000	RDR; RP10; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; WIEG; PIG; BLK; STD-1; ELITE; LED RED; FLSH GRN; BZR OFF; IPM OFF (HID Part #: 900PTNNEKE0000)	AC-HID-READ-MCLASS-WIEG-900PTNNEKE0000	\$218.34
HID 910PTNNEKE0000	RDR; RP15; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; WIEG; PIG; BLK; ELITE KEYS; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; IPM OFF (HID Part #: 910PTNNEKE0000)	AC-HID-READ-MCLASS-WIEG-910PTNNEKE0000	\$348.32
HID 920PTNNEKE0000	RDR; RP40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; WIEG; PIG; BLK; ELITE KEYS; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; IPM OFF (HID Part #: 920PTNNEKE0000)	AC-HID-READ-MCLASS-WIEG-920PTNNEKE0000	\$348.32

HID 921PTNNEKE0000	RDR; RPK40; MULTICLASS; SE E; LF STD; HF STD/SIO/SEOS; WIEG; PIG; BLK; ELITE KEYS; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF (HID Part #: 921PTNNEKE0000)	AC-HID-READ-MCLASS-WIEG-921PTNNEKE0000	\$601.89
HID MiniProx Proximity Reader (HID # 5365EKP00)	MiniProx Proximity Reader (HID # 5365EKP00)	AC-HID-READ-MINIPROX	\$285.11
HID RS4270001	5427 CK standard omnikee USB Enrollment reader; iCLASS Seos®; HID Prox®; iCLASS SE®; MIFARE Classic® and MIFARE® DESFire® EV1; supports NFC (HID Part Number: RS4270001)	AC-HID-READ-OMNKEY-RS4270101	\$385.67
HID ProxPro Proximity Reader (HID # 5355AGN00)	ProxPro Proximity Reader (HID # 5355AGN00)	AC-HID-READ-PROXPRO	\$321.61
HID ProxPro Proximity Reader with Keypad (HID # 5355AGK00)	ProxPro Proximity Reader with Keypad (HID # 5355AGK00)	AC-HID-READ-PROXPRO-KEYPD	\$507.75
HID ProxPro II Proximity Reader (HID # 5455BKN00)	ProxPro II Proximity Reader (HID # 5455BKN00)	AC-HID-READ-PROXPROII	\$290.99
HID ThinLine II Switch Plate Proximity Reader (HID # 5395CK100)	ThinLine II Switch Plate Proximity Reader (HID # 5395CK100)	AC-HID-READ-THINLINE	\$290.99
HID RDRSEU908K00000	RDR; U90; iCLASS; SE REV E; NO PROX; UHF; 865-868 MHZ; STD; WIEGAND; TERM; BK; STD 1 SECURITY (HID Part Number: RDRSEU908K00000)	AC-HID-READ-U90-ICLASS-SE-RDRSEU908K00000	\$1,306.73
HID RDRSEU909K00000	RDR; U90; iCLASS; SE REV E; NO PROX; UHF; 902-928 MHZ; STD; WIEGAND; TERM; BK; STD 1 SECURITY	AC-HID-READ-U90-ICLASS-SE-RDRSEU909K00000	\$1,306.73
HID 20KNKS-00-000000	Signo20K; Mullion w/Keypad; 13.56MHz & 125kHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KNKS-00-000000	\$565.65
HID 20KNKS-00-000000 Avigilon Logo	Signo20K; Mullion w/Keypad; Standard Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20KNKS-00-000000-AVG	\$562.74
HID 20KNKS-01-000000	Signo20K; Mullion w/Keypad; Seos Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KNKS-01-000000	\$484.68
HID 20KNKS-01-00001H	Signo20K; Mullion w/Keypad; Seos Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KNKS-01-00001H	\$484.68
HID 20KNKS-02-000000	Signo20K; Mullion w/Keypad; 13.56MHz Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KNKS-02-000000	\$525.18
HID 20KNKS-02-000000 Avigilon Logo	Signo20K; Mullion w/Keypad; Smart Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20KNKS-02-000000-AVG	\$623.03
HID 20KNKS-02-0002BL	Signo20K; Mullion w/Keypad; 13.56MHz Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KNKS-02-0002BL	\$525.18
HID 20KNKS-T0-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 20K PIGTAIL MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-20KNKS-T0-000000	\$650.49
HID 20KNKS-T1-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 20K PIGTAIL MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-20KNKS-T1-000000	\$557.56
HID 20KNKS-T2-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 20K PIGTAIL MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-20KNKS-T2-000000	\$604.03
HID 20KTKS-00-000000	Signo20K; Mullion w/Keypad; 13.56MHz & 125kHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KTKS-00-000000	\$565.65
HID 20KTKS-00-000000 Avigilon Logo	Signo20K; Mullion w/Keypad; Standard Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20KTKS-00-000000-AVG	\$562.74
HID 20KTKS-01-000000	Signo20K; Mullion w/Keypad; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KTKS-01-000000	\$484.68
HID 20KTKS-01-000000 Avigilon Logo	Signo20K; Mullion w/Keypad; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20KTKS-01-000000-AVG	\$484.68
HID 20KTKS-01-00001H	Signo20K; Mullion w/Keypad; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KTKS-01-00001H	\$484.68
HID 20KTKS-02-000000	Signo20K; Mullion w/Keypad; 13.56MHz Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KTKS-02-000000	\$525.18
HID 20KTKS-02-000000 Avigilon Logo	Signo20K; Mullion w/Keypad; Smart Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20KTKS-02-000000-AVG	\$522.55
HID 20KTKS-02-0002BL	Signo20K; Mullion w/Keypad; 13.56MHz Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20KTKS-02-0002BL	\$525.18
HID 20KTKS-T0-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 20K TERMINAL STRIP MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-20KTKS-T0-000000	\$650.49
HID 20KTKS-T1-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 20K TERMINAL STRIP MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-20KTKS-T1-000000	\$557.56
HID 20KTKS-T2-000000	Signo20K; Mullion w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 20K TERMINAL STRIP MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-20KTKS-T2-000000	\$604.03
HID 20NKS-00-000000	Signo20; Mullion; 13.56MHz & 125kHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20NKS-00-000000	\$332.87
HID 20NKS-00-000000 Avigilon Logo	Signo20; Mullion; Standard Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20NKS-00-000000-AVG	\$331.62
HID 20NKS-01-000000	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20NKS-01-000000	\$251.90
HID 20NKS-01-00001H	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20NKS-01-00001H	\$251.90
HID 20NKS-02-000000	Signo20; Mullion; 13.56MHz Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20NKS-02-000000	\$292.37
HID 20NKS-02-000000 Avigilon Logo	Signo20; Mullion; Smart Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20NKS-02-000000-AVG	\$291.40
HID 20NKS-02-0002BL	Signo20; Mullion; 13.56MHz Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-20NKS-02-0002BL	\$292.37
HID 20NKS-T0-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 20 PIGTAIL MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-20NKS-T0-000000	\$383.33
HID 20NKS-T1-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 20 PIGTAIL MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-20NKS-T1-000000	\$290.40
HID 20NKS-T2-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 20 PIGTAIL MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-20NKS-T2-000000	\$336.87
HID 20TKS-00-000000	Signo20; Mullion; 13.56MHz & 125kHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20TKS-00-000000	\$332.87
HID 20TKS-00-000000 Avigilon Logo	Signo20; Mullion; Standard Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20TKS-00-000000-AVG	\$331.62
HID 20TKS-01-000000	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20TKS-01-000000	\$251.90
HID 20TKS-01-000000 Avigilon Logo	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20TKS-01-000000-AVG	\$251.22
HID 20TKS-01-00001H	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20TKS-01-00001H	\$251.90
HID 20TKS-01-00001H AVIGILON LOGO	Signo20; Mullion; Seos Profile; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20TKS-01-00001H-AVG	\$251.90

HID 20TKS-02-000000	Signo20; Mullion; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20TKS-02-000000	\$292.37
HID 20TKS-02-000000 Avigilon Logo	Signo20; Mullion; Smart Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-20TKS-02-000000-AVG	\$291.40
HID 20TKS-02-0002BL	Signo20; Mullion; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-20TKS-02-0002BL	\$292.37
HID 20TKS-T0-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 20 TERMINAL STRIP MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-20TKS-T0-000000	\$383.33
HID 20TKS-T1-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 20 TERMINAL STRIP MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-20TKS-T1-000000	\$290.40
HID 20TKS-T2-000000	Signo20; Mullion; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 20 TERMINAL STRIP MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-20TKS-T2-000000	\$336.87
HID 40KNKS-00-000000	Signo40K; Wall mount w/Keypad; 13.56MHz & 125kHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KNKS-00-000000	\$565.65
HID 40KNKS-00-000000 Avigilon Logo	Signo40K; Wall mount w/Keypad; Standard Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40KNKS-00-000000-AVG	\$562.74
HID 40KNKS-01-000000	Signo40K; Wall mount w/Keypad; Seos Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KNKS-01-000000	\$484.68
HID 40KNKS-01-00001H	Signo40K; Wall mount w/Keypad; Seos Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KNKS-01-00001H	\$484.68
HID 40KNKS-02-000000	Signo40K; Wall mount w/Keypad; 13.56MHz Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KNKS-02-000000	\$525.18
HID 40KNKS-02-000000 Avigilon Logo	Signo40K; Wall mount w/Keypad; Smart Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40KNKS-02-000000-AVG	\$522.55
HID 40KNKS-02-0002BL	Signo40K; Wall mount w/Keypad; 13.56MHz Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KNKS-02-0002BL	\$525.18
HID 40KNKS-T0-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 40K PIGTAIL MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-40KNKS-T0-000000	\$650.49
HID 40KNKS-T1-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 40K PIGTAIL MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-40KNKS-T1-000000	\$557.56
HID 40KNKS-T2-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 40K PIGTAIL MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-40KNKS-T2-000000	\$604.03
HID 40KTKS-00-000000	Signo40K; Wall mount w/Keypad; 13.56MHz & 125kHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KTKS-00-000000	\$565.65
HID 40KTKS-00-000000 Avigilon Logo	Signo40K; Wall mount w/Keypad; Standard Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40KTKS-00-000000-AVG	\$562.74
HID 40KTKS-01-000000	Signo40K; Wall mount w/Keypad; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KTKS-01-000000	\$484.68
HID 40KTKS-01-000000 Avigilon Logo	Signo40K; Wall mount w/Keypad; Seos Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40KTKS-01-000000-AVG	\$484.68
HID 40KTKS-01-00001H	Signo40K; Wall mount w/Keypad; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KTKS-01-00001H	\$484.68
HID 40KTKS-02-000000	Signo40K; Wall mount w/Keypad; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KTKS-02-000000	\$525.18
HID 40KTKS-02-000000 Avigilon Logo	Signo40K; Wall mount w/Keypad; Smart Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40KTKS-02-000000-AVG	\$522.55
HID 40KTKS-02-0002BL	Signo40K; Wall mount w/Keypad; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40KTKS-02-0002BL	\$525.18
HID 40KTKS-T0-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 40K TERMINAL STRIP MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-40KTKS-T0-000000	\$650.49
HID 40KTKS-T1-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 40K TERMINAL STRIP MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-40KTKS-T1-000000	\$557.56
HID 40KTKS-T2-000000	Signo40K; Wall mount w/Keypad; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 40K TERMINAL STRIP MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-40KTKS-T2-000000	\$604.03
HID 40NKS-00-000000	Signo40; Wall mount; 13.56MHz & 125kHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40NKS-00-000000	\$342.99
HID 40NKS-00-000000 Avigilon Logo	Signo40; Wall mount; Standard Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40NKS-00-000000-AVG	\$341.67
HID 40NKS-01-000000	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40NKS-01-000000	\$262.03
HID 40NKS-01-00001H	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40NKS-01-00001H	\$262.03
HID 40NKS-02-000000	Signo40; Wall mount; 13.56MHz Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40NKS-02-000000	\$302.50
HID 40NKS-02-000000 Avigilon Logo	Signo40; Wall mount; Smart Profile; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40NKS-02-000000-AVG	\$301.46
HID 40NKS-02-0002BL	Signo40; Wall mount; 13.56MHz Profile ; OSDP/Wiegand; Pigtail; Mobile Ready; BLE	AC-HID-READER-SIGNO-40NKS-02-0002BL	\$302.50
HID 40NKS-T0-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 40 PIGTAIL MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-40NKS-T0-000000	\$394.95
HID 40NKS-T1-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 40 PIGTAIL MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-40NKS-T1-000000	\$302.03
HID 40NKS-T2-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Pigtail; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 40 PIGTAIL MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-40NKS-T2-000000	\$348.49
HID 40TKS-00-000000	Signo40; Wall mount; 13.56MHz & 125kHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-00-000000	\$342.99
HID 40TKS-00-000000 Avigilon Logo	Signo40; Wall mount; Standard Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40TKS-00-000000-AVG	\$341.67
HID 40TKS-01-000000	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-01-000000	\$262.03
HID 40TKS-01-000000 Avigilon Logo	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40TKS-01-000000-AVG	\$261.28
HID 40TKS-01-00001H	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-01-00001H	\$262.03

HID 40TKS-01-00001H AVIGILON LOGO	Signo40; Wall mount; Seos Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-01-00001H-AVG	\$262.03
HID 40TKS-02-000000	Signo40; Wall mount; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-02-000000	\$302.50
HID 40TKS-02-000000 Avigilon Logo	Signo40; Wall mount; Smart Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE; Avigilon Logo	AC-HID-READER-SIGNO-40TKS-02-000000-AVG	\$301.46
HID 40TKS-02-0002BL	Signo40; Wall mount; 13.56MHz Profile ; OSDP/Wiegand; Terminal; Mobile Ready; BLE	AC-HID-READER-SIGNO-40TKS-02-0002BL	\$302.50
HID 40TKS-T0-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY STANDARD CREDENTIAL PROFILE OPTION (T0) FOR THE SIGNO READER 40 TERMINAL STRIP MODEL - Profile T0 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO); MIFARE DESFire EV1/EV2 (CSN); MIFARE Classic (CSN)	AC-HID-READER-SIGNO-40TKS-T0-000000	\$394.95
HID 40TKS-T1-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SEOS CREDENTIAL PROFILE OPTION (T1) FOR THE SIGNO READER 40 TERMINAL STRIP MODEL - Profile T1 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos	AC-HID-READER-SIGNO-40TKS-T1-000000	\$302.03
HID 40TKS-T2-000000	Signo40; Wall mount; 13.56MHz; OSDP/Wiegand; Terminal; Mobile Ready; BLE; PRIORITY SMART CREDENTIAL PROFILE OPTION (T2) FOR THE SIGNO READER 40 TERMINAL STRIP MODEL - Profile T2 includes the following NFC/BLE/High Frequency only - Seos® (Mobile ID's via NFC/BLE); Seos; iCLASS SE®; iCLASS SR®; iCLASS®; MIFARE DESFire EV1/EV2 (SIO)/EV3; MIFARE Classic (SIO)	AC-HID-READER-SIGNO-40TKS-T2-000000	\$348.49
HID 6132AKB-M	R10 Mini-mullion spacer; black 0.5" with metal plate	AC-HID-SPACER-05-R10-6132AKB-M	\$29.25
HID 6132AKC-M	R15 Mullion spacer; black 0.5" with metal plate	AC-HID-SPACER-05-R15-6132AKC-M	\$29.25
HID 6132AKT-M	R40 Standard wall switch; black 0.5" with metal plate	AC-HID-SPACER-05-R40-6132AKT-M	\$29.25
HID 6132AKU-M	RK40 Standard wall switch with keypad; black 0.5" with metal plate	AC-HID-SPACER-05-RK40-6132AKU-M	\$29.25
HID 6132AKE-M	R40 Standard wall switch; black 1.0" with metal plate	AC-HID-SPACER-10-R40-6132AKE-M	\$29.25
HID 20-K-05	HID SIGNO 20 SERIES; 0.5 INCH SPACER; BLACK	AC-HID-SPACER-SIGNO-20-K-05	\$26.31
HID 40-K-05	HID SIGNO 40 SERIES; 0.5 INCH SPACER; BLACK	AC-HID-SPACER-SIGNO-40-K-05	\$26.31
HID BLEOSDP-UPG-A-900	R10/RP10 iCLASS/MULTICLASS; SE RDR BLE OSDP UPGRADE KIT; 1 BLE OSDP MODULE; 1 METALIC BACKPLATE STICKER	AC-HID-UPGKIT-BLEOSDP-UPG-A-900	\$127.05
HID BLEOSDP-UPG-A-910	R15/RP15 iCLASS/MULTICLASS; SE RDR BLE OSDP UPGRADE KIT; 1 BLE OSDP MODULE; 1 METALIC BACKPLATE STICKER	AC-HID-UPGKIT-BLEOSDP-UPG-A-910	\$127.05
HID BLEOSDP-UPG-A-920	R40/RP40 iCLASS/MULTICLASS; SE RDR BLE OSDP UPGRADE KIT; 1 BLE OSDP MODULE; 1 METALIC BACKPLATE STICKER	AC-HID-UPGKIT-BLEOSDP-UPG-A-920	\$127.05
HID BLEOSDP-UPG-A-921	RK40/RPK40 iCLASS/MULTICLASS; SE RDR BLE OSDP UPGRADE KIT; 1 BLE OSDP MODULE; 1 METALIC BACKPLATE STICKER	AC-HID-UPGKIT-BLEOSDP-UPG-A-921	\$127.05
HID EL-96000-SVM10	SVM™ (main application) per workstation; includes Free Administrator™(HID Part Number: EL-96000-SVM10)	AC-HID-EL-96000-SVM10	\$3,949.44
HID EL-96300-ADM10	Administrator™ (additional licenses) per workstation(HID Part Number: EL-96300-ADM10)	AC-HID-EL-96300-ADM10	\$777.55
HID EL-97000-EKIOSK	EasyLobby® eKiosk™ Self Registration Software makes it fast and easy for visitors to register themselves upon arrival at a facility using a tablet computer. Runs on Windows®; an Apple® iPad® or an Android® tablet computer. Configurable self-registration screen can support any field including fields designated as required. Provides ability to display PDF or HTML file for visitors to review and acknowledge or agree to terms. Utilizes intuitive touch screen menu. Alerts employee being visited via email when visitor has completed self registration process and is checked-in. Enables badge to be printed upon check-in at the main guard station. Stores visitor record in central database.	AC-HID-EL-97000-EKIOSK	\$3,165.37
HID EL-98000-EADV10	eAdvance™ (web pre-registration) per web server(HID Part Number: EL-98000-EADV10)	AC-HID-EL-98000-EADV10	\$4,800.08
HID EL-ACI-AVIGILON	Access Control Integration - Access Control Manager from EasyLobby -Must also purchase Avigilon Rest License (Avigilon Part Number: AC-SW-LIC-REST)	AC-HID-EL-ACI-AVIG	\$4,701.84
HID EL-ACI-UPGRD	Access control integration upgrade to latest version(HID Part Number: EL-ACI-UPGRD)	AC-HID-EL-ACI-UPGRD	\$3,856.89
HID EL-AST-ID150	AssureTec ID-150 (reads driver's license; data and photo capture) (COO: South Korea) (HID # EL-AST-ID150)	AC-HID-EL-AST-ID150	\$3,517.47
HID EL-AST-ID150A	AssureTec ID-150A (reads/authenticates driver's license; data and photo capture) (COO: South Korea) (HID # EL-AST-ID150A)	AC-HID-EL-AST-ID150A	\$4,954.90
HID EL-AST-UPDATEA	AssureTec PRO software library updates for 1 year (data and authentication) (HID # EL-AST-UPDATEA)	AC-HID-EL-AST-UPDATEA	\$1,123.98
AC-HID-EL-DESKO-ICON	The HID EasyLobby DESKO ICON Scanner's class leading scan technology; developed by DESKO; provides high-resolution and reflection free scans of ID's and passports under white light and IR. The ICON Scanner therefore provides excellent images for OCR data collection. (COO: Germany)	AC-HID-EL-DESKO-ICON	\$2,017.10
HID EL-DYMO-30856	DYMO 30856 non-adhesive badges (250)(HID Part Number: EL-DYMO-30856)	AC-HID-EL-DYMO-30856	\$61.73
HID EL-DYMO-30911	DYMO 30911 adhesive self-expiring badges (250)(HID Part Number: EL-DYMO-30911)	AC-HID-EL-DYMO-30911	\$105.79
HID EL-DYMO-450T	Dymo 450 Turbo Thermal Printer (B&W)(HID Part Number: EL-DYMO-450T)	AC-HID-EL-DYMO-450T	\$500.53
HID EL-EADV-UPGRD	eAdvance software upgrade to latest version(HID Part Number: EL-EADV-UPGRD)	AC-HID-EL-EADV-UPGRD	\$3,677.92
HID EL-K12-SVM	1 copy of SVM software; includes Free Administrator™ software (admin/reporting) Special bundle package for K-12 schools only (HID # EL-K12-SVM)(HID Part Number: EL-K12-SVM)	AC-HID-EL-K12-SVM	\$2,313.52
HID EL-SOS-K12	Sex offender screening service per year per system Special bundle package for K-12 schools only (HID # EL-SOS-K12)(HID Part Number: EL-SOS-K12)	AC-HID-EL-SOS-K12	\$823.12
AC-HID-EL-SS-R2	ACUANT SNAPSHIELD R2 DRIVER'S LICENSE SCANNER (COO: Israel) (HID # EL-SS-R2)	AC-HID-EL-SS-R2	\$2,218.70
HID EL-SSA-ACIS	A/C INTEGRATION ANNUAL MAINTENANCE PER COPY (INCLUDES UPGRADES AND UPDATES)	AC-HID-EL-SSA-ACIS	\$1,203.94
HID EL-SSA-EADVS	EADVANCE ANNUAL MAINTENANCE PER COPY (INCLUDES UPGRADES AND UPDATES)(HID Part Number: EL-SSA-EADVS)	AC-HID-EL-SSA-EADVS	\$1,203.58
HID EL-SSA-K12S	K12 ANNUAL SOFTWARE MAINTENANCE PLAN (FOR FREE UPDATES AND UPGRADES) = PER YEAR PER SYSTEM	AC-HID-EL-SSA-K12S	\$443.75
HID EL-SSA-SVMS	SVM ANNUAL MAINTENANCE PER COPY (INCLUDES ALL UPDATES AND UPGRADES)(HID Part Number: EL-SSA-SVMS)	AC-HID-EL-SSA-SVMS	\$1,005.60
HID EL-SVM10-UPGRD	SVM software upgrade to SVM10(HID Part Number: EL-SVM10-UPGRD)	AC-HID-EL-SVM10-UPGRD	\$2,931.23
HID EL-TOP-1X5	Topaz SignatureGem LCD 1x5 SigPad (signature block only) (HID Part Number: EL-TOP-1X5)	AC-HID-EL-TOP-1X5	\$932.07
HID 900NHPTKE00088	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HD; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-00NHPTKE00088	\$181.43
HID SIGNO PIV RDR 20HNKS-03-0004XR	Signo PIV 20; Pigtal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20HNKS-03-0004XR	\$355.72
HID SIGNO PIV RDR 20HNKS-03-00059X	Signo PIV 20; Pigtal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20HNKS-03-00059X	\$355.72
HID SIGNO PIV RDR 20HTKS-03-0004XR	Signo PIV 20; Terminal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20HTKS-03-0004XR	\$355.72
HID SIGNO PIV RDR 20HTKS-03-00059X	Signo PIV 20; Terminal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20HTKS-03-00059X	\$355.72
HID SIGNO PIV RDR 20KHNS-03-0004XR	Signo PIV 20K; Keypad; Pigtal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20KHNS-03-0004XR	\$565.50
HID SIGNO PIV RDR 20KHNS-03-00059X	Signo PIV 20K; Keypad; Pigtal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20KHNS-03-00059X	\$565.50
HID SIGNO PIV RDR 20KHTKS-03-0004XR	Signo PIV 20K; Keypad; Terminal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20KHTKS-03-0004XR	\$565.50
HID SIGNO PIV RDR 20KHTKS-03-00059X	Signo PIV 20K; Keypad; Terminal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-20KHTKS-03-00059X	\$565.50
HID SIGNO PIV RDR 40HNKS-03-0004XR	Signo PIV 40; Pigtal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40HNKS-03-0004XR	\$364.84
HID SIGNO PIV RDR 40HNKS-03-00059X	Signo PIV 40; Pigtal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40HNKS-03-00059X	\$364.84
HID SIGNO PIV RDR 40HTKS-03-0004XR	Signo PIV 40; Terminal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40HTKS-03-0004XR	\$364.84
HID SIGNO PIV RDR 40HTKS-03-00059X	Signo PIV 40; Terminal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40HTKS-03-00059X	\$364.84

HID SIGNO PIV RDR 40KHNS-03-0004XR	Signo PIV 40K; Keypad; Pigtal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40KHNS-03-0004XR	\$565.50
HID SIGNO PIV RDR 40KHNS-03-00059X	Signo PIV 40K; Keypad; Pigtal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40KHNS-03-00059X	\$565.50
HID SIGNO PIV RDR 40KHTKS-03-0004XR	Signo PIV 40K; Keypad; Terminal; Prox Enabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40KHTKS-03-0004XR	\$565.50
HID SIGNO PIV RDR 40KHTKS-03-00059X	Signo PIV 40K; Keypad; Terminal; Prox Disabled; HDX; 200Bit FASC-N with UUID 128Bit fallback	AC-HID-PIVCLASS-40KHTKS-03-00059X	\$565.50
HID 6132AKL	SPACER ACC KIT; PIVCLASS RDR; BLK; ERGO ANGLE; LEFT	AC-HID-PIVCLASS-6132AKL	\$20.12
HID 900NHPNEK0000R	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPNEK0000R	\$181.43
HID 900NHPNEK00088	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPNEK00088	\$181.43
HID 900NHPNEK000UF	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; OSDP V2; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPNEK000UF	\$181.43
HID 900NHPNEK0032Q	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPNEK0032Q	\$181.43
HID 900NHPNEK00336	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPNEK00336	\$181.43
HID 900NHPNEK0032Q	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPNEK0032Q	\$181.43
HID 900NHPTEK0000R	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPTEK0000R	\$181.43
HID 900NHPTEK000UF	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V2; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPTEK000UF	\$181.43
HID 900NHPTEK0032Q	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPTEK0032Q	\$181.43
HID 900NHPTEK00336	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPTEK00336	\$181.43
HID 900NHPTEK00337	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHPTEK00337	\$181.43
HID 900NHPTEK0036L	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP DISBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPTEK0036L	\$181.43
HID 900NHPTEK0036N	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; ELITE; AV OFF; OSDP V1; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHPTEK0036N	\$181.43
HID 900NHRNEK0000C	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0000C	\$181.43
HID 900NHRNEK00018	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00018	\$181.43
HID 900NHRNEK0001T	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0001T	\$181.43
HID 900NHRNEK0001Y	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0001Y	\$181.43
HID 900NHRNEK00032	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FL SH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; RVR5 BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00032	\$181.43
HID 900NHRNEK00038	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00038	\$181.43
HID 900NHRNEK0005W	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0005W	\$181.43
HID 900NHRNEK00110	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00110	\$181.43
HID 900NHRNEK0012W	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0012W	\$181.43
HID 900NHRNEK00220	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT; FASCN + RMV OVRHD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00220	\$181.43
HID 900NHRNEK00226	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FL SH GRN; BZR OFF; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK00226	\$181.43
HID 900NHRNEK0032Y	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900NHRNEK0032Y	\$181.43
HID 900NHRNEK0037D	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0037D	\$181.43
HID 900NHRNEK0000C	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; ELITE KEYS; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0000C	\$181.43
HID 900NHRNEK0001T	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; ELITE KEYS; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRNEK0001T	\$181.43
HID 900NHRTEK0000C	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK0000C	\$181.43
HID 900NHRTEK00018	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK00018	\$181.43
HID 900NHRTEK0001T	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK0001T	\$181.43
HID 900NHRTEK00038	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK00038	\$181.43
HID 900NHRTEK0003C	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED OFF; FL SH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK0003C	\$181.43
HID 900NHRTEK0032Y	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-900NHRTEK0032Y	\$181.43
HID 900NHRTEK0000C	RDR; R10-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FL SH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900NHRTEK0000C	\$181.43
HID 900PHNEK0000V	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; FIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-900PHNEK0000V	\$221.49

HID 900PHRNEK000HA	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK000HA	\$221.49
HID 900PHRNEK000K2	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED ON; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200 BIT; PROX FSK; IPM OFF; UART OFF; WIEG ON; CSTM SEOS.LEDS	AC-HID-PIVCLASS-900PHRNEK000K2	\$221.49
HID 900PHRNEK0012K	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; RVR5 BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK0012K	\$221.49
HID 900PHRNEK0037E	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK0037E	\$221.49
HID 900PHRNEK00466	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; CSN SUPPRESSED; LED RED; FLSH GRN; BZR ON; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK00466	\$221.49
HID 900PHRNEK00004	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK00004	\$221.49
HID 900PHRNEK00005	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK00005	\$221.49
HID 900PHRNEK00006	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK00006	\$221.49
HID 900PHRNEK00007	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-900PHRNEK00007	\$221.49
HID 900PHRNEK000HA	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; ELITE; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK000HA	\$221.49
HID 900PHRNEK0037E	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRNEK0037E	\$221.49
HID 900PHRTEK00004	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00004	\$221.49
HID 900PHRTEK00005	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00005	\$221.49
HID 900PHRTEK00006	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00006	\$221.49
HID 900PHRTEK00007	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-900PHRTEK00007	\$221.49
HID 900PHRTEK00016	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00016	\$221.49
HID 900PHRTEK000HA	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK000HA	\$221.49
HID 900PHRTEK0037E	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK0037E	\$221.49
HID 900PHRTEK00466	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; CSN SUPPRESSED; LED RED; FLSH GRN; BZR ON; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00466	\$221.49
HID 900PHRTEK0059B	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPN COL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON; PATH NY NJ	AC-HID-PIVCLASS-900PHRTEK0059B	\$221.49
HID 900PHRTEK00004	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00004	\$221.49
HID 900PHRTEK00005	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00005	\$221.49
HID 900PHRTEK00006	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK00006	\$221.49
HID 900PHRTEK00007	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-900PHRTEK00007	\$221.49
HID 900PHRTEK000HA	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; ELITE; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK000HA	\$221.49
HID 900PHRTEK0037E	RDR; RP10-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-900PHRTEK0037E	\$221.49
HID 91000-MS	PAM Firmware Standard Maintenance & Support; STD M&S 8X5 M-F CST (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-91000-MS	\$59.51
HID 91000BBNNN	PAM; PIVCLASS (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-91000BBNNN	\$2,421.54
HID 91000BNNNN	PAM; PIVCLASS; CCA ONLY; NO ENCLOSURE (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-91000BNNNN	\$2,077.75
HID 920LHRNEK0001R	RDR; RP40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920LHRNEK0001R	\$335.77
HID 920LHRNEK0003Q	RDR; RP40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920LHRNEK0003Q	\$335.77
HID 920LHRNEK0011P	RDR; RP40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920LHRNEK0011P	\$335.77
HID 920NHPNEK0000R	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920NHPNEK0000R	\$295.71
HID 920NHPNEK00088	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920NHPNEK00088	\$295.71
HID 920NHPNEK0000MJ	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; AV OFF; OSDP V2; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=50MS; FIPS 200-BIT; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-920NHPNEK0000MJ	\$295.71
HID 920NHPNEK0000P1	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; AV OFF; OSDP V2; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; IPM OFF	AC-HID-PIVCLASS-920NHPNEK0000P1	\$295.71
HID 920NHPNEK00032Q	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920NHPNEK00032Q	\$295.71
HID 920NHPNEK000330	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; AV OFF; FIPS 75-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920NHPNEK000330	\$295.71
HID 920NHPNEK000336	RDR; R40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920NHPNEK000336	\$295.71

HID 920PHNEK00332	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 75-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHNEK00332	\$335.77
HID 920PHNEK00338	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHNEK00338	\$335.77
HID 920PHNEK00339	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHNEK00339	\$335.77
HID 920PHNEK00332	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 75-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHNEK00332	\$335.77
HID 920PHNEK00338	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHNEK00338	\$335.77
HID 920PHPTKE0000V	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHPTKE0000V	\$335.77
HID 920PHPTKE0000HA	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHPTKE0000HA	\$335.77
HID 920PHPTKE0000P2	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V2; OPT TAMP; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; IPM OFF	AC-HID-PIVCLASS-920PHPTKE0000P2	\$335.77
HID 920PHPTKE00032U	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHPTKE00032U	\$335.77
HID 920PHPTKE000332	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 75-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHPTKE000332	\$335.77
HID 920PHPTKE000335	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 64-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHPTKE000335	\$335.77
HID 920PHPTKE000338	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHPTKE000338	\$335.77
HID 920PHPTKE000339	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHPTKE000339	\$335.77
HID 920PHPTKE0000V	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-920PHPTKE0000V	\$335.77
HID 920PHPTKE00003Y	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHPTKE00003Y	\$335.77
HID 920PHRNEK00004	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00004	\$335.77
HID 920PHRNEK00005	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00005	\$335.77
HID 920PHRNEK00006	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00006	\$335.77
HID 920PHRNEK00007	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-920PHRNEK00007	\$335.77
HID 920PHRNEK000016	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK000016	\$335.77
HID 920PHRNEK00003U	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00003U	\$335.77
HID 920PHRNEK00004A	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00004A	\$335.77
HID 920PHRNEK00004V	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00004V	\$335.77
HID 920PHRNEK00006T	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00006T	\$335.77
HID 920PHRNEK00008U	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00008U	\$335.77
HID 920PHRNEK000097	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 26-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK000097	\$335.77
HID 920PHRNEK0000AA	RDR; RP40-H; PIVCLASS; SE E; LF CST; PROX GIC ONLY; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON; PROX PRIORITY	AC-HID-PIVCLASS-920PHRNEK0000AA	\$335.77
HID 920PHRNEK0000CV	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP OPN COLL; IPM OFF; UART OFF; WIEG ON; CSTM /FIPS/CAK/MIGR; LF ENBLD; PATH NY NJ	AC-HID-PIVCLASS-920PHRNEK0000CV	\$335.77
HID 920PHRNEK0000H4	RDR; RP40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT; FASCN+RMV/OVRHD+RMV/PAR; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK0000H4	\$335.77
HID 920PHRNEK0000HA	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 128-BIT REVERSED; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK0000HA	\$335.77
HID 920PHRNEK0000MR	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 75-BIT; PROX PRIORITY; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK0000MR	\$335.77
HID 920PHRNEK00012K	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; RVRS BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00012K	\$335.77
HID 920PHRNEK000143	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF	AC-HID-PIVCLASS-920PHRNEK000143	\$335.77
HID 920PHRNEK000157	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 14443A 32-BIT CSN; IPM OFF	AC-HID-PIVCLASS-920PHRNEK000157	\$335.77
HID 920PHRNEK000202	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; IPM OFF	AC-HID-PIVCLASS-920PHRNEK000202	\$335.77
HID 920PHRNEK000203	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED OFF; FLSH OFF; BZR OFF; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF	AC-HID-PIVCLASS-920PHRNEK000203	\$335.77
HID 920PHRNEK00020A	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; C/D ON	AC-HID-PIVCLASS-920PHRNEK00020A	\$335.77
HID 920PHRNEK000245	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; RVRS BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK000245	\$335.77
HID 920PHRNEK000365	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED OFF; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK000365	\$335.77
HID 920PHRNEK00037E	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; RVRS BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00037E	\$335.77
HID 920PHRNEK00043V	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; 14443A MIF 56-BIT CSN; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00043V	\$335.77

HID 920PHRNEK00466	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF OFF; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00466	\$335.77
HID 920PHRNEK0046G	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK0046G	\$335.77
HID 920PHRNEK00479	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 200-BIT; OPT TAMP OPN COLL; IPM OFF; UART OFF; WIEG ON; CSTM STD/SIO/SEOS/FIPS/CAK/MIGR; LF ENBLD; PATH NY NJ	AC-HID-PIVCLASS-920PHRNEK00479	\$335.77
HID 920PHRNEK0059A	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 58-BIT AMAG; IPM OFF; HID PROX ONLY; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK0059A	\$335.77
HID 920PHRNEK00005	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; ELITE KEYS; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRNEK00005	\$335.77
HID 920PHRTEK00004	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00004	\$335.77
HID 920PHRTEK00005	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00005	\$335.77
HID 920PHRTEK00006	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00006	\$335.77
HID 920PHRTEK00007	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-920PHRTEK00007	\$335.77
HID 920PHRTEK00037E	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00037E	\$335.77
HID 920PHRTEK00043V	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; UART; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; 14443A MIF 56-BIT CSN; IPM OFF	AC-HID-PIVCLASS-920PHRTEK00043V	\$335.77
HID 920PHRTEK00049	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; UART; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART ON; UART CSTM; WIEG OFF	AC-HID-PIVCLASS-920PHRTEK00049	\$335.77
HID 920PHRTEK00046	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF OFF; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00046	\$335.77
HID 920PHRTEK00005	RDR; RP40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-920PHRTEK00005	\$335.77
HID 921NHPNEK0000T	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; KPF; ASCII; BFFRD 1 KEY; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-921NHPNEK0000T	\$516.02
HID 921NHPNEK0000UG	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; OSDP V2; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; KPF; ASCII; BFFRD 1 KEY; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-921NHPNEK0000UG	\$516.02
HID 921NHPNEK0019D	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPNEK0019D	\$516.02
HID 921NHPNEK00032R	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPNEK00032R	\$516.02
HID 921NHPNEK00033E	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPNEK00033E	\$516.02
HID 921NHPNEK00032R	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPNEK00032R	\$516.02
HID 921NHPTEK0000T	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; KPF; ASCII; BFFRD 1 KEY; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-921NHPTEK0000T	\$516.02
HID 921NHPTEK0000UG	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V2; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; KPF; ASCII; BFFRD 1 KEY; FIPS 200-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-921NHPTEK0000UG	\$516.02
HID 921NHPTEK0013T	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM	AC-HID-PIVCLASS-921NHPTEK0013T	\$516.02
HID 921NHPTEK0019D	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPTEK0019D	\$516.02
HID 921NHPTEK00032R	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPTEK00032R	\$516.02
HID 921NHPTEK00033D	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; A/V OFF; KPF; ASCII; BFFRD 1 KEY; FIPS 64-BIT; IPM OFF; UART OFF; WIEG OFF	AC-HID-PIVCLASS-921NHPTEK00033D	\$516.02
HID 921NHPTEK00033E	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPTEK00033E	\$516.02
HID 921NHPTEK00036M	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPEN COLL; OSDP TAMP DISBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IP	AC-HID-PIVCLASS-921NHPTEK00036M	\$516.02
HID 921NHPTEK00036V	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; STD-1; A/V OFF; OSDP V1; OPEN COLL; OSDP TAMP DISBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; KPF; ASCII; BFFRD 1 KEY; IPM OFF; UART	AC-HID-PIVCLASS-921NHPTEK00036V	\$516.02
HID 921NHPTEK0013T	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485HDX; TERM; BLK; ELITE KEYS; A/V OFF; OSDP V1; OPEN COLL; OSDP TAMP ENBLD; TEST KEYS; POLL=75MS; FIPS 200-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHPTEK0013T	\$516.02
HID 921NHRNEK0000C	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK0000C	\$516.02
HID 921NHRNEK000039	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK000039	\$516.02
HID 921NHRNEK000044	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; BCD; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK000044	\$516.02
HID 921NHRNEK00004K	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 56-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK00004K	\$516.02
HID 921NHRNEK00004M	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK00004M	\$516.02
HID 921NHRNEK000062	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK000062	\$516.02
HID 921NHRNEK00006V	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 26-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK00006V	\$516.02
HID 921NHRNEK00008P	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; KPF; BFFRD 1 TO 5 KEYS; PAR; USER ENTRO FC; 26-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK00008P	\$516.02
HID 921NHRNEK0000Y5	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 128-BIT REVERSED; KPF; DOR COMPL; BFFRD 1 KEY; NO PAR; 8-BIT-MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK0000Y5	\$516.02
HID 921NHRNEK00011K	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK00011K	\$516.02
HID 921NHRNEK000121	RDR; RK40-H; PIVCLASS; SE E; LF OFF; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; PIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT; FASCN + RMV OVRHD; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921NHRNEK000121	\$516.02

HID 921PHRNEK0026J	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; BCD; KPF; BFFRD 1 TO 5 KEYS; PAR; USER ENTRD FC; 26-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026J	\$553.72
HID 921PHRNEK0026L	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; MIF/DES 56-BIT CSN; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026L	\$553.72
HID 921PHRNEK0026M	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026M	\$553.72
HID 921PHRNEK0026W	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR OFF; OPT TAMP; OPEN COLL; FIPS 75-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026W	\$553.72
HID 921PHRNEK0026Y	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026Y	\$553.72
HID 921PHRNEK00273	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK00273	\$553.72
HID 921PHRNEK00274	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK00274	\$553.72
HID 921PHRNEK0032W	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0032W	\$553.72
HID 921PHRNEK0033B	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; ASCII; XMIT CMLT; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-921PHRNEK0033B	\$553.72
HID 921PHRNEK0037G	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; RVR5 BCD; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0037G	\$553.72
HID 921PHRNEK0043E	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH ON; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; 14443A 56-BIT CSN; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0043E	\$553.72
HID 921PHRNEK0043G	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; MIF/DES 56-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0043G	\$553.72
HID 921PHRNEK0043T	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; 14443A MIF 56-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0043T	\$553.72
HID 921PHRNEK0044K	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 64-BIT; BCD; KPF; BFFRD 1 KEY; PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0044K	\$553.72
HID 921PHRNEK00467	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF OFF; 485FDX; FIG; BLK; STD-1; CSN SURPRESSED; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK00467	\$553.72
HID 921PHRNEK0046F	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0046F	\$553.72
HID 921PHRNEK00470	RDR; RPK40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; FIPS 200 BIT; KPF; BFFRD 1 KEY; DOR; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON; FSK; ASK; PSK ENABL	AC-HID-PIVCLASS-921PHRNEK00470	\$553.72
HID 921PHRNEK0047A	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF CST; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP/OPN COLL; FIPS200-BIT; KPF BFRD 1 KEY; DOR CML; NOPAR; 8-BIT; IPM OFF; UART OFF; WIEG ON; CST STD/SIO/SEOS/FIPS/CAK/MIGR;LFENBD;PATHNJ	AC-HID-PIVCLASS-921PHRNEK0047A	\$553.72
HID 921PHRNEK0051T	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FSK PROX READ ONLY; IPM OFF; UART OFF	AC-HID-PIVCLASS-921PHRNEK0051T	\$553.72
HID 921PHRNEK0051V	RDR; RPK40-H; PIVCLASS; SE E; LF CST; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; FSK PROX READ ONLY; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0051V	\$553.72
HID 921PHRNEK0053Q	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; CSN 32-BIT MSB; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0053Q	\$553.72
HID 921PHRNEK0057D	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 128-BIT; FASCN+RMV OVRHD+RMV PAR ;KPF;BFFRD 1 KEY;DOR COMPL;NO PAR 8-BIT MSG;IPM OFF	AC-HID-PIVCLASS-921PHRNEK0057D	\$553.72
HID 921PHRNEK00589	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 TO 5 KEYS; PAR; FC FIXED 96; 26-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK00589	\$553.72
HID 921PHRNEK0026V	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; ELITE KEYS; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; RVR5 BCD; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0026V	\$553.72
HID 921PHRNEK0032W	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRNEK0032W	\$553.72
HID 921PHRTEK0002D	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 200-BIT; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0002D	\$553.72
HID 921PHRTEK0002G	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 75-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0002G	\$553.72
HID 921PHRTEK000HC	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 128-BIT REVERSED; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK000HC	\$553.72
HID 921PHRTEK000Y6	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; FIPS 128-BIT REVERSED; KPF; DOR COMPL; BFFRD 1 KEY; NO PAR; 8-BIT-MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK000Y6	\$553.72
HID 921PHRTEK00127	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 40-BIT; BCD; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK00127	\$553.72
HID 921PHRTEK0020R	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0020R	\$553.72
HID 921PHRTEK0032W	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0032W	\$553.72
HID 921PHRTEK0033B	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; ASCII; XMIT CMLT; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-921PHRTEK0033B	\$553.72
HID 921PHRTEK0037G	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT REVERSE BCD; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0037G	\$553.72
HID 921PHRTEK0043T	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; 14443A MIF 56-BIT CSN; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK0043T	\$553.72
HID 921PHRTEK0043U	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF STD/SIO/SEOS/FIPS/CAK; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; FIPS 75-BIT; 14443A MIF 56-BIT CSN; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF	AC-HID-PIVCLASS-921PHRTEK0043U	\$553.72
HID 921PHRTEK00467	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF OFF; 485FDX; TERM; BLK; STD-1; CSN SURPRESSED; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK00467	\$553.72
HID 921PHRTEK00478	RDR; RPK40-H; PIVCLASS; SE E; LF STD; HF OFF; 485FDX; TERM; BLK; STD-1; CSN SURPRESSED; LED OFF; FLSH OFF; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-921PHRTEK00478	\$553.72

HID 923PPRTEK0037J	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT REVERSE BCD; LCD OF; IPM OFF; UART OF	AC-HID-PIVCLASS-923PPRTEK0037J	\$776.47
HID 923PPRTEK00382	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4 BIT MSG; FIPS 75 BIT; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK00382	\$776.47
HID 923PPRTEK00426	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT; FIPS 75-BIT 56 CSN; LCD OF; IPM OFF; UART OFF; WIE	AC-HID-PIVCLASS-923PPRTEK00426	\$776.47
HID 923PPRTEK00519	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; BFFRD 1 KEY; DOR COMPL; NO PAR; 8-BIT MSG; FIPS 75-BIT; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK00519	\$776.47
HID 923PPRTEK00008	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 200-BIT; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK00008	\$776.47
HID 923PPRTEK00009	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 75-BIT; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK00009	\$776.47
HID 923PPRTEK0000A	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK0000A	\$776.47
HID 923PPRTEK0000B	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; ASCII; XMIT CMLT; LCD 1F; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-923PPRTEK0000B	\$776.47
HID 923PPRTEK000HE	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; ELITE; LED RED; FLSH GRN; BZR ON; FIPS 128-BIT REVERSE; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; LCD 1F; IPM OFF; UART OFF; WIEG ON	AC-HID-PIVCLASS-923PPRTEK000HE	\$776.47
HID 923PPRTEK0037J	RDR; RPCKL40-P; PIVCLASS; SE E; CONT LCD; LF STD; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; OPT TAMP; OPEN COLL; KPF; BFFRD 1 KEY; NO PAR; 4-BIT MSG; FIPS 64-BIT REVERSE BCD; LCD OF; IPM OFF; UART OF	AC-HID-PIVCLASS-923PPRTEK0037J	\$776.47
HID 924NPRNEK00504	RDR; RKCLB40-P; PIVCLASS; SE E; CONT LCD BIO; LF OFF; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; FIG; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; ASCII; XMIT CMLT; LCD 1F; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-924NPRNEK00504	\$1,254.15
HID 924NPRNEK00504	RDR; RKCLB40-P; PIVCLASS; SE E; CONT LCD BIO; LF OFF; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; FIG; BLK; ELITE KEYS; STD-1; LED RED; FLSH GRN; BZR ON; KPF; ASCII; XMIT CMLT; LCD 1F; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-924NPRNEK00504	\$1,254.15
HID 924NPRTEK00504	RDR; RKCLB40-P; PIVCLASS; SE E; CONT LCD BIO; LF OFF; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; STD-1; LED RED; FLSH GRN; BZR ON; KPF; ASCII; XMIT CMLT; LCD 1F; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-924NPRTEK00504	\$1,254.15
HID 924NPRTEK00504	RDR; RKCLB40-P; PIVCLASS; SE E; CONT LCD BIO; LF OFF; HF STD/SIO/SEOS/FIPS/CAK/PKI; 485FDX; TERM; BLK; ELITE KEYS; STD-1; LED RED; FLSH GRN; BZR ON; KPF; ASCII; XMIT CMLT; LCD 1F; IPM OFF; UART ON; WIEG OFF	AC-HID-PIVCLASS-924NPRTEK00504	\$1,254.15
HID B920NHRNEK0032Y	PIVCLASS BUNDLE; TWO R40-H PIVCLASS REV E PIGTAIL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM)	AC-HID-PIVCLASS-B920NHRNEK0032Y	\$2,421.54
HID B920NHRTEK0032Y	PIVCLASS BUNDLE; TWO R40-H PIVCLASS REV E TERMINAL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 032Y PIVCLASS CONFIG	AC-HID-PIVCLASS-B920NHRTEK0032Y	\$2,421.54
HID B920PHRNEK00007	PIVCLASS BUNDLE; TWO RP40-H PIVCLASS REV E PIGTAIL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 0007 PIVCLASS CONFIG	AC-HID-PIVCLASS-B920PHRNEK00007	\$2,514.72
HID B920PHRTEK00007	PIVCLASS BUNDLE; TWO RP40-H PIVCLASS REV E TERMINAL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 0007 PIVCLASS CONFIG	AC-HID-PIVCLASS-B920PHRTEK00007	\$2,514.72
HID B923NPRNEK0032V	PIVCLASS BUNDLE; TWO RKCL40-P PIVCLASS REV E PIGTAIL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM)	AC-HID-PIVCLASS-B923NPRNEK0032V	\$3,186.23
HID B923NPRTEK0032V	PIVCLASS BUNDLE; TWO RKCL40-P PIVCLASS REV E TERMINAL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 032V PIVCLASS CONFIG	AC-HID-PIVCLASS-B923NPRTEK0032V	\$3,186.23
HID B923PPRNEK0000B	PIVCLASS BUNDLE; TWO RPCKL40-P PIVCLASS REV E PIGTAIL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 000B PIVCLASS CONFIG	AC-HID-PIVCLASS-B923PPRNEK0000B	\$3,280.47
HID B923PPRTEK0000B	PIVCLASS BUNDLE; TWO RPCKL40-P PIVCLASS REV E TERMINAL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM); 000B PIVCLASS CONFIG	AC-HID-PIVCLASS-B923PPRTEK0000B	\$3,280.47
HID B924NPRNEK00504	PIVCLASS BUNDLE; TWO RKCLB40-P PIVCLASS REV E PIGTAIL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM)	AC-HID-PIVCLASS-B924NPRNEK00504	\$4,119.07
HID B924NPRTEK00504	PIVCLASS BUNDLE; TWO RKCLB40-P PIVCLASS REV E TERMINAL BLK RDRS & ONE M2000 PIVCLASS AUTHENTICATION MODULE (PAM)	AC-HID-PIVCLASS-B924NPRTEK00504	\$4,119.07
HID E91000-MS	EMBEDDED AUTHENTICATION CONTROLLER; STD M&S 8X5 M-F CST (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-E91000-MS	\$63.76
HID E920NHPNEK000P1	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO R40-H PIGTAIL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E920NHPNEK000P1	\$1,058.14
HID E920NHPTEK000P1	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO R40-H TERMINAL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E920NHPTEK000P1	\$1,058.14
HID E920PHNEK000P2	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RP40-H PIGTAIL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E920PHNEK000P2	\$1,125.62
HID E920PHTEK000P2	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RP40-H TERMINAL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E920PHTEK000P2	\$1,125.62
HID E923NPPNEK000P3	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RKCL40-P PIGTAIL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E923NPPNEK000P3	\$1,929.94
HID E923NPPTEK000P3	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RKCL40-P TERMINAL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E923NPPTEK000P3	\$1,929.94
HID E923PPPNEK000P4	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RPCKL40-P PIGTAIL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E923PPPNEK000P4	\$1,997.44
HID E923PPPTEK000P4	PIVCLASS BUNDLE; EMBEDDED AUTHENTICATION MODULE & TWO RPCKL40-P TERMINAL READERS; FIRST YEAR EA MAINTENANCE AND SUPPORT INCLUDED	AC-HID-PIVCLASS-E923PPPTEK000P4	\$1,997.44
HID EA-LICENSE2	TWO (2) EMBEDDED AUTHENTICATION LICENSES (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-EA-LICENSE2	\$533.46
HID PACS-SVC-18-00	PIVCLASS PACS SERVICE COMPONENT; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PACS-SVC-18-00	\$5.31
HID PVC-CM	PIVCLASS CERTIFICATE MANAGER; 1 LICENSE/PACS; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-CM	\$15,708.00
HID PVC-CM-MS	CERTIFICATE MANAGER; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-CM-MS	\$2,457.79
HID PVC-CM-REDNT	PIVCLASS CERTIFICATE MANAGER; 1 LICENSE/PACS REDUNDANT; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-CM-REDNT	\$7,854.00
HID PVC-CM-REDNT-MS	CERTIFICATE MANAGER; STD M&S 8X5 M-F CST; REDUNDANT (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-CM-REDNT-MS	\$1,228.90
HID PVC-D/S	PIVCLASS VALIDATION WORKSTATION & DOCUMENTATION; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-D/S	\$2,688.72
HID PVC-D/S-MS	VALIDATION WORKSTATION STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-D/S-MS	\$421.06
HID PVC-DTAMP-18-00	PIVCLASS DATA IMPORT; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-DTAMP-18-00	\$6,551.46
HID PVC-DTAMP-MS	PIVCLASS DATA IMPORT; STD M&S 8X5 M-F CST (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-DTAMP-MS	\$1,025.71
HID PVC-DTAMP-REDNT-18-00	PIVCLASS DATA IMPORT - REDUNDANT; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-DTAMP-REDNT-18-00	\$3,276.24

HID PVC-DTAIMP-REDNT-MS	PIVCLASS DATA IMPORT - REDUNDANT; STD M&S 8X5 M-F CST (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-DTAIMP-REDNT-MS	\$512.86
HID PVC-FXRDR	PIVCLASS READER SERVICES; SW & DOC; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-FXRDR	\$266.22
HID PVC-FXRDR-MS	READER SERVICES; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-FXRDR-MS	\$41.62
HID PVC-FXRDR-REDNT	REDUNDANT PIVCLASS READER SERVICES; SW & DOC; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-FXRDR-REDNT	\$133.62
HID PVC-FXRDR-REDNT-MS	REDUNDANT READER SERVICES; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-FXRDR-REDNT-MS	\$21.03
HID PVC-IDPUB1000	PIVCLASS ID PUBLISHER 1000; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB1000	\$16,283.28
HID PVC-IDPUB1000-MS	PIVCLASS ID PUBLISHER 1000; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB1000-MS	\$2,548.37
HID PVC-IDPUB1000-REDNT	REDUNDANT PIVCLASS ID PUBLISHER 1000; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB1000-REDNT	\$8,141.64
HID PVC-IDPUB1000-REDNT-MS	REDUNDANT PIVCLASS ID PUBLISHER 1000; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB1000-REDNT-MS	\$1,274.17
HID PVC-IDPUB500	PIVCLASS ID PUBLISHER 500; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB500	\$8,065.14
HID PVC-IDPUB500-MS	PIVCLASS ID PUBLISHER 500; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB500-MS	\$1,261.94
HID PVC-IDPUB500-REDNT	REDUNDANT PIVCLASS ID PUBLISHER 500; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB500-REDNT	\$4,032.06
HID PVC-IDPUB500-REDNT-MS	REDUNDANT PIVCLASS ID PUBLISHER 500; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUB500-REDNT-MS	\$631.58
HID PVC-IDPUBUNL	PIVCLASS ID PUBLISHER UNL; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUBUNL	\$27,152.40
HID PVC-IDPUBUNL-MS	PIVCLASS ID PUBLISHER UNL; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUBUNL-MS	\$4,249.73
HID PVC-IDPUBUNL-REDNT	REDUNDANT PIVCLASS ID PUBLISHER UNL; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUBUNL-REDNT	\$13,576.20
HID PVC-IDPUBUNL-REDNT-MS	REDUNDANT PIVCLASS ID PUBLISHER UNL; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-IDPUBUNL-REDNT-MS	\$2,124.85
HID PVC-MPX-CNSL	PIVCLASS MULTIPACS CONSOLE; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNSL	\$15,702.90
HID PVC-MPX-CNSL-MS	PIVCLASS MULTIPACS CONSOLE; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNSL-MS	\$2,457.79
HID PVC-MPX-CNSL-REDNT	REDUNDANT PIVCLASS MULTIPACS CONSOLE; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNSL-REDNT	\$7,850.94
HID PVC-MPX-CNSL-REDNT-MS	REDUNDANT PIVCLASS MULTIPACS CONSOLE; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNSL-REDNT-MS	\$1,228.90
HID PVC-MPX-CNX-18-00	PIVCLASS MULTIPACS CONNECTOR; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNX-18-00	\$10,184.70
HID PVC-MPX-CNX-MS	PIVCLASS MULTIPACS CONNECTOR; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNX-MS	\$1,593.65
HID PVC-MPX-CNX-REDNT	REDUNDANT PIVCLASS MULTIPACS CONNECTOR; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNX-REDNT	\$5,092.86
HID PVC-MPX-CNX-REDNT-MS	REDUNDANT PIVCLASS MULTIPACS CONNECTOR; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVC-MPX-CNX-REDNT-MS	\$796.82
HID PVCAT-D	PIVCLASS VALIDATION WORKSTATION AUDIT TRAIL; DOWNLOAD; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVCAT-D	\$1,576.92
HID PVCAT-D-MS	VALIDATION WORKSTATION AUDIT TRAIL; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVCAT-D-MS	\$247.25
HID PVCP-D/S-18-00	PIVCLASS REGISTRATION ENGINE; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVCP-D/S-18-00	\$13,068.24
HID PVCP-D/S-CPLG-18-00	PIVCLASS PACS PLUGIN CHANGE; AVIGILON ACM; DOWNLOAD (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVCP-D/S-CPLG-18-00	\$7,630.62
HID PVCP-D/S-MS	REGISTRATION ENGINE; STD M&S 8X5 M-F CST; CODEBENCH SUPPLIER (Requires pivCLASS Supplemental Ordering Information form with ALL orders found in the pivCLASS How To Order Guide https://www.hidglobal.com/documents/how-to-order)	AC-HID-PIVCLASS-PVCP-D/S-MS	\$2,045.30
HID SNR-00058	HID SNR-00058 MSO-1300E3 USB FINGER PRINT SENSOR	AC-HID-USB-FINGERPRINT-RDR-MSO-1300E3-SNR-00058	\$602.75
SALTO SP220495-14-IM	Adapter Ring; 1/4" key override depth spacer; satin stainless (Available only in the USA and Canada)	AC-SALTO-ADAPTER-RING-SP220495-14-IM	\$13.91
SALTO SP220495-18-IM	Adapter Ring; 1/8" key override depth spacer; satin stainless (Available only in the USA and Canada)	AC-SALTO-ADAPTER-RING-SP220495-18-IM	\$13.91
SALTO AEB01MBA3A8	AElement elec|Black Rdr|BLE|Mifare|DESFire|SVN; Standard|Anthracite BB|satin stainless trim (Available only in the USA and Canada)	AC-SALTO-AELEMENT-AEB01MBA3A8	\$505.00
SALTO AEB01PBA3A8	AElement elec|Black Rdr|BLE|Mifare|DESFire|SVN; Standard|Anthracite BB|polished ss trim (Available only in the USA and Canada)	AC-SALTO-AELEMENT-AEB01PBA3A8	\$533.33
SALTO AEB1MBA3A8	AElement elec|Black Rdr|BLE|Mifare|DESFire|SVN; Elec Privacy|Anthracite BB|satin stainless trim (Available only in the USA and Canada)	AC-SALTO-AELEMENT-AEB1MBA3A8	\$518.20
SALTO AEB11PBA3A8	AElement elec|Black Rdr|BLE|Mifare|DESFire|SVN; Elec Privacy|Anthracite BB|polished ss trim (Available only in the USA and Canada)	AC-SALTO-AELEMENT-AEB11PBA3A8	\$546.53
SALTO AEJ1MBA3A8	AElement elec|Black Rdr|BLE|HID iCLASS|SVN; Elec Privacy|Anthracite BB|satin stainless trim (Available only in the USA and Canada)	AC-SALTO-AELEMENT-AEJ1MBA3A8	\$518.20
SALTO SP226009	Assembly Tool|Neox Padlock; (Available only in the USA and Canada)	AC-SALTO-ASSEMBLY-TOOL-NEOX-PADLOCK-SP226009	\$28.66
SALTO GATEWAYB3CUS	Wireless Gateway|BLUENet node|black|12VDC xfmr; Ethernet|supports upto 6 additional wired nodes (Available only in the USA and Canada)	AC-SALTO-BLUENET-BLACK-GATEWAYB3CUS	\$694.34
SALTO GATEWAYW3CUS	Wireless Gateway|BLUENet node|white|12VDC xfmr; Ethernet|supports upto 6 additional wired nodes (Available only in the USA and Canada)	AC-SALTO-BLUENET-WHITE-GATEWAYW3CUS	\$694.34
SALTO CU42E0TUS	Control Unit|XS4 2.0|two rdr|6 in4 out|ethernet; expandable via RS485|12VDC xfmr|enc|clear cover (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-IP-CLEARCOVER-CU42E0TUS	\$1,257.06

SALTO CU42E0GUS	Control Unit|XS4 2.0|two rdr|6 in|4 out|ethernet; expandable via RS485|12VDC xfmr|enc|Grey cover (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-IP-GREYCOVER-CU42E0GUS	\$1,257.06
SALTO CU42E0US	Control Unit|XS4 2.0|two rdr|6 in|4 out|ethernet; expandable via RS485|12VDC xfmr|No enclosure (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-IP-NOCOVER-CU42E0US	\$1,257.06
SALTO CU4200TUS	Control Unit|XS4 2.0|two rdr|6 in|4 out|RS485 aux; offline or exp of CU42Ex|12V xfmr|enc|Clear cover (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-RS485-CLEARCOVER-CU4200TUS	\$715.44
SALTO CU4200GUS	Control Unit|XS4 2.0|two rdr|6 in|4 out|RS485 aux; offline or exp of CU42Ex|12V xfmr|enc|Grey cover (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-RS485-GREYCOVER-CU4200GUS	\$715.44
SALTO CU4200US	Control Unit|XS4 2.0|two rdr|6 in|4 out|RS485 aux; offline or exp of CU42Ex|12VDC xfmr|No enclosure (Available only in the USA and Canada)	AC-SALTO-CONTROL-UNIT-RS485-NOCOVER-CU4200US	\$715.44
SALTO COPLE110IMCA	Cover Plate Pr|ANSI wide|cyl cartridge compatible; 13-53/64" H X 4-21/64" W|satin stainless (Available only in the USA and Canada)	AC-SALTO-COVER-PLATE-ANSI-WIDE-COPLE110IMCA	\$108.93
SALTO WBM01KNL-5	SALTO proximity silicone Bracelets; MIFARE; 01K | 1KBytes; Black; Large; Pack of 5 bracelets (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-BRACELET-WBM01KNL-5	\$103.46
SALTO WBM01KNM-5	SALTO proximity silicone Bracelets; MIFARE; 01K | 1KBytes; Black; Medium; Pack of 5 bracelets (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-BRACELET-WBM01KNM-5	\$103.46
SALTO WBM01KNS-5	SALTO proximity silicone Bracelets; MIFARE; 01K | 1KBytes; Black; Small; Pack of 5 bracelets (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-BRACELET-WBM01KNS-5	\$103.46
SALTO PCH002C	Credential|Construction Card|HID iClass; testing and management prior to initialization (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CONSTRUCTION-HID-PCH002C	\$34.04
SALTO PCM01KC	Credential|Construction Card|Mifare; testing and management prior to initialization (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CONSTRUCTION-MIFARE-PCM01KC	\$26.07
SALTO PCH004-50	Credential|CR80 card|printable white|HID iClass; 32Kbs|sammed for use with Salto standard codes; pack of 50 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CR80-CARD-HID-CLASS-PCH004-50	\$1,627.92
SALTO PCM04KB-50	Credential|CR80 card|printable white|Mifare 4KB; pack of 50 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CR80-CARD-MIFARE-PCM04KB-50	\$296.42
SALTO PCM01KB-50	Credential|CR80 card|printable white|Mifare 1KB|pack of 50 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CR80-CARD-MIFARE-PCM01KB-50	\$236.06
SALTO PCM04KBH-50	SALTO Credential|CR80 card|dual technology; Mifare 4KB with magstripe|pack of 50 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-CR80-CARD-MIFARE-PCM04KBH-50	\$296.45
SALTO PFD04KB-10	Credential|FOB|blue with white center Salto logo; DESFire EV2 4KB|pack of 10 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-DESIRE-PFD04KB-10	\$93.30
SALTO PFD04KN-10	Credential|FOB|black with white center Salto logo; DESFire EV2 4KB|pack of 10 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-DESIRE-PFD04KN-10	\$93.32
SALTO PFM04KB-10	Credential|FOB|blue with white center Salto logo; Mifare 4KB|pack of 10 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-MIFARE-PFM04KB-10	\$97.64
SALTO PFD04KBSVNKS-5	SVNKS | SALTO KS + SVN compatible Tags - Blue - Pack of 5 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-SVN-BLUE-PFD04KBSVNKS-5	\$83.64
SALTO PFD04KGSVNKS-5	SVNKS | SALTO KS + SVN compatible Tags - Green - Pack of 5 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-SVN-GREEN-PFD04KGSVNKS-5	\$83.64
SALTO PFD04KRSVNKS-5	SVNKS | SALTO KS + SVN compatible Tags - Red - Pack of 5 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-SVN-RED-PFD04KRSVNKS-5	\$83.64
SALTO PFD04KSSVNKS-5	SVNKS | SALTO KS + SVN compatible Tags - Silver - Pack of 5 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-SVN-SILVER-PFD04KSSVNKS-5	\$83.64
SALTO PFD04KWSVNKS-5	SVNKS | SALTO KS + SVN compatible Tags - White - Pack of 5 (Available only in the USA and Canada)	AC-SALTO-CREDENTIAL-FOB-SVN-WHITE-PFD04KWSVNKS-5	\$83.64
SALTO 1848	Alignment Kit|Cylindrical Cartridge; use with Ax6x and LCxK cartridge combination (Available only in the USA and Canada)	AC-SALTO-CYLINDRICAL-CARTRIDGE-ALIGNMENT-KIT-1848	\$14.47
SALTO LC1KCT01M	Cylindrical Cartridge Lock|ANSI|Grade 2; 2-3/4" backset(stnd comm)|satin stainless (Available only in the USA and Canada)	AC-SALTO-CYLINDRICAL-CARTRIDGE-LOCK-LC1KCT01M	\$117.08
SALTO LD51C70CS	Deadbolt; single cylinder for use with GEO heavy duty deadbolt cylinder; 2 3/4" backset; standard operation; satin chromium finish (Available only in the USA and Canada)	AC-SALTO-DEADBOLT-GEO-LD51C70CS	\$207.16
SALTO LD51C60CS	Deadbolt|less single cyl|2 3/8" backset|requires eCylinder|satin stainless	AC-SALTO-DEADBOLT-NEO-LD51C60CS	\$207.77
SALTO RFDCTCT18W01	RFDCTCT | Door detector with plug connection for the SALTO wireless escutcheon; S | For steel doors; 18 | For wide body escutcheons	AC-SALTO-DOOR-DETECTOR-ESCTUCHEON-RFDCTCT18W01	\$50.23
SALTO EPS100	Emergency Power Supply|PPD connection cord; battery harness|requires 4 AA batteries (Available only in the USA and Canada)	AC-SALTO-EMERGENCY-POWER-SUPPLY-EPS100	\$46.62
SALTO ECB04B0US	Encoder|BLE|DESFire|Mifare|ethernet; USB|can be used as desktop reader (Available only in the USA and Canada)	AC-SALTO-ENCODER-DESIRE-ECB04B0US	\$903.45
SALTO ECJ04B0US	Encoder|BLE|HID iClass|ethernet; USB|can be used as desktop reader (Available only in the USA and Canada)	AC-SALTO-ENCODER-HID-ECJ04B0US	\$903.45
SALTO CU4EB8US	Expansion Unit|XS4 2.0|4 in|8 out|RS485 auxiliary; exp of CU42x|12VDC xfmr|No enclosure (Available only in the USA and Canada)	AC-SALTO-EXPANSION-UNIT-RS485-NOCOVER-CU4EB8US	\$618.14
SALTO G9P2148830CPBN	GEO Indoor Padlock|Mifare|DESFire|SVN - Black Rdr|shackle 8mm dia-30mm len|polished chrome (Available only in the USA and Canada)	AC-SALTO-GEO-INDOOR-PADLOCK-BLKRDR-G9P2148830CPBN	\$689.61
SALTO G9P2148860CPBN	GEO Indoor Padlock|Mifare|DESFire|SVN - Black Rdr|shackle 8mm dia-60mm len|polished chrome (Available only in the USA and Canada)	AC-SALTO-GEO-INDOOR-PADLOCK-BLKRDR-G9P2148860CPBN	\$689.61
SALTO G9P2148890CPBN	GEO Indoor Padlock|Mifare|DESFire|SVN - Black Rdr|shackle 8mm dia-90mm len|polished chrome (Available only in the USA and Canada)	AC-SALTO-GEO-INDOOR-PADLOCK-BLKRDR-G9P2148890CPBN	\$689.61
SALTO SP220764	SALTO Neo installation tool (Available only in the USA and Canada)	AC-SALTO-INSTALLATION-TOOL-NEO-SP220764	\$8.52
SALTO SP225542	SALTO Neo installation tool (Available only in the USA and Canada)	AC-SALTO-INSTALLATION-TOOL-NEO-SP225542	\$31.07
SALTO LB050A30	Locker Lock|XS4|BLE|DESFire|Mifare|battery incl; 20-30mm door|sandwich mount|BioCote|anthracite rdr (Available only in the USA and Canada)	AC-SALTO-LOCKER-LOCK-DESIRE-ANTHRASITE-LB050A30	\$399.60
SALTO LB050M30	Locker Lock|XS4|BLE|DESFire|Mifare|battery incl; 20-30mm door|sandwich mount|BioCote|white rdr (Available only in the USA and Canada)	AC-SALTO-LOCKER-LOCK-DESIRE-WHITE-LB050M30	\$399.60
SALTO LJ050A30	Locker Lock|XS4|BLE|HID iClass|SEOS|battery incl; 20-30mm door|sandwich mount|BioCote|anthracite rdr (Available only in the USA and Canada)	AC-SALTO-LOCKER-LOCK-HID-ANTHRACITE-LJ050A30	\$399.60

SALTO LJ050M30	Locker Lock[XS4]BLE[HID iClass]SEOS[battery incl: 20-30mm door[sandwich mount]BioCote]white rdr rdr (Available only in the USA and Canada)	AC-SALTO-LOCKER-LOCK-HID-WHITE-LJ050M30	\$399.60
SALTO SPACE-OPT-0016-1	SALTO ProAccess SPACE; SPACE Mobile Users License (0016-1); included for first 12 months from software registration; billed annually thereafter - Requires Annual Subscription Renewal (0028-2) (Available only in the USA and Canada)	AC-SALTO-MOBILE-USER-LICENSE-SPACE-OPT-0016-1	\$3.04
SALTO LA1T0570A21M8LH	Mortise Lock[ANSI]Grade 1|32mm faceplate; Door detector[LH(field rev)]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0570A21M8LH	\$153.94
SALTO LA1T0570A21M8RH	Mortise Lock[ANSI]Grade 1|32mm faceplate; Door detector[RH(field rev)]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0570A21M8RH	\$153.94
SALTO LA1T0770A22MSLH	Mortise Lock[AElement]ANSI; Door+Egress detectors[LH]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A22MSLH	\$312.33
SALTO LA1T0770A22MSLR	Mortise Lock[AElement]ANSI; Door+Egress detectors[LHR]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A22MSLR	\$312.33
SALTO LA1T0770A22MSRH	Mortise Lock[AElement]ANSI; Door+Egress detectors[RH]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A22MSRH	\$312.33
SALTO LA1T0770A22MSRR	Mortise Lock[AElement]ANSI; Door+Egress detectors[RHR]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A22MSRR	\$312.33
SALTO LA1T0770A24MSLH	Mortise Lock[AElement]ANSI; Privacy+Door+Egress detectors[LH]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A24MSLH	\$312.33
SALTO LA1T0770A24MSLR	Mortise Lock[AElement]ANSI; Privacy+Door+Egress detectors[LHR]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A24MSLR	\$312.33
SALTO LA1T0770A24MSRH	Mortise Lock[AElement]ANSI; Privacy+Door+Egress detectors[RH]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A24MSRH	\$312.33
SALTO LA1T0770A24MSRR	Mortise Lock[AElement]ANSI; Privacy+Door+Egress detectors[RHR]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T0770A24MSRR	\$312.33
SALTO LA1T1570A21M8LH	Mortise Lock[Deadbolt]ANSI|Grade 1|32mm faceplate - Door detector[LH (field rev)]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T1570A21M8LH	\$163.21
SALTO LA1T1570A21M8RH	Mortise Lock[Deadbolt]ANSI|Grade 1|32mm faceplate - Door detector[RH(field rev)]satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T1570A21M8RH	\$162.73
SALTO LA1T1570A71M8R	SALTO Mortise Lock Deadbolt ANSI Grade 1 27mm faceplate; Door detector RH(field rev) satin stainless (Available only in the USA and Canada)	AC-SALTO-MORTISE-LOCK-LA1T1570A71M8R	\$153.95
SALTO LA1T3570A21M8LH	SALTO Mortise Lock - ANSI with latch and automatic deadbolt, with panic function[Auto-DB]ANSI|Grade 1|32mm faceplate |Door detector[LH(field rev)]satin stainless	AC-SALTO-MORTISE-LOCK-LA1T3570A21M8LH	\$275.14
SALTO LA1T3570A21M8RH	SALTO Mortise Lock - ANSI with latch and automatic deadbolt, with panic function[Auto-DB]ANSI|Grade 1|32mm faceplate |Door detector[RH(field rev)]satin stainless	AC-SALTO-MORTISE-LOCK-LA1T3570A21M8RH	\$275.14
SALTO NBCL119M40BCBA	Deadbolt; single cylinder for use with GEO heavy duty deadbolt cylinder; 2 3/4" backset; standard operation; satin chromium finish (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-BLKDRD-NBCL119M40BCBA	\$590.55
SALTO NBCL119M28BCBA	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28BCBA	\$558.64
SALTO NBCL119M28BCBAR	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28BCBAR	\$584.46
SALTO NBCL119M28CPBA	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28CPBA	\$498.12
SALTO NBCL119M28CPBAR	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28CPBAR	\$524.40
SALTO NBCL119M28CSBA	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28CSBA	\$498.12
SALTO NBCL119M28CSBAR	NEO Cam Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NBCL119M28CSBAR	\$524.40
SALTO NJCL119M28BCBA	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28BCBA	\$558.64
SALTO NJCL119M28BCBAR	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28BCBAR	\$584.92
SALTO NJCL119M28CPBA	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28CPBA	\$498.12
SALTO NJCL119M28CPBAR	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28CPBAR	\$524.40
SALTO NJCL119M28CSBA	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28CSBA	\$498.12
SALTO NJCL119M28CSBAR	NEO Cam Cylinder[HID iClass]SEOS[SVN; Black Rdr|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-CAM-CYL-NJCL119M28CSBAR	\$524.40
SALTO NBM1132N00BCBN	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00BCBN	\$558.64
SALTO NBM1132N00BCBNR	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00BCBNR	\$584.92
SALTO NBM1132N00CPBN	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00CPBN	\$498.12
SALTO NBM1132N00CPBNR	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00CPBNR	\$524.40
SALTO NBM1132N00CSBN	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00CSBN	\$498.12
SALTO NBM1132N00CSBNR	NEO Mortise Cylinder[BLE]Mifare[DESFire]SVN; Black Rdr|1-1/4" body length|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NBM1132N00CSBNR	\$524.40
SALTO NJM1132N00BCBN	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00BCBN	\$558.64
SALTO NJM1132N00BCBNR	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00BCBNR	\$584.92
SALTO NJM1132N00CPBN	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00CPBN	\$498.12
SALTO NJM1132N00CPBNR	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00CPBNR	\$524.40
SALTO NJM1132N00CSBN	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00CSBN	\$498.12
SALTO NJM1132N00CSBNR	NEO Mortise Cylinder[HID iClass]SEOS[SVN; Black Rdr|1-1/4" body length|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-MORTISE-CYL-NJM1132N00CSBNR	\$524.40
SALTO NBB3151N00BCBN	SALTO NEO Rim Cylinder[BLE]Mifare[DESFire]SVN - Black Rdr|Salto DB not incl|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-RIM-CYL-BLKDRD-NBB3151N00BCBN	\$590.55

SALTO NBB3151N00BCBNR	SALTO NEO Rim Cylinder|BLE|Mifare|DESFire|SVN - Black Rdr|Salto DB not incl|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-RIM-CYL-BLKRDR-NBB3151N00BCBNR	\$618.36
SALTO NBE9130N00NEBR	NEO Server Rack Cyl|BLE|Mifare|DESFire|SVN; Black Rdr|40mm long|satin black (Available only in the USA and Canada)	AC-SALTO-NEO-SERVER-RACK-CYL-INDR-NBE9130N00NEBR	\$611.21
SALTO NJE9130N00NEBR	NEO Server Rack Cyl|HID|Iclass|SEOS|SVN; Black Rdr|40mm long|satin black (Available only in the USA and Canada)	AC-SALTO-NEO-SERVER-RACK-CYL-NJE9130N00NEBR	\$611.21
SALTO NJE9130N00NEBR	NEO Server Rack Cyl|HID|Iclass|SEOS|SVN; Black Rdr|40mm long|satin black (Available only in the USA and Canada)	AC-SALTO-NEO-SERVER-RACK-CYL-NJE9130N00NEBR	\$637.52
SALTO NBE9130N00NEBR	NEO Server Rack Cyl|BLE|Mifare|DESFire|SVN; Black Rdr|40mm long|satin black (Available only in the USA and Canada)	AC-SALTO-NEO-SERVER-RACK-CYL-OUTDR-NBE9130N00NEBR	\$524.42
SALTO NBB1100N00BCBN	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00BCBN	\$558.64
SALTO NBB1100N00BCBNR	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00BCBNR	\$584.92
SALTO NBB1100N00CPBN	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00CPBN	\$498.12
SALTO NBB1100N00CPBNR	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00CPBNR	\$524.40
SALTO NBB1100N00CSBN	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00CSBN	\$498.12
SALTO NBB1100N00CSBNR	NEO US Rim Cylinder|BLE|Mifare|DESFire|SVN; Black Rdr|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB1100N00CSBNR	\$524.40
SALTO NBB3151N00CSBN	NEO Rim Cylinder|BLE|Mifare|DESFire|SVN|Black Rdr|Salto DB not incl|IP55|satin chrome - SALTO NEO Heavy duty deadbolt electronic cylinder. To be used in combination with SALTO deadbolt LD51 or LD71series (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NBB3151N00CSBN	\$528.12
SALTO NJB1100N00BCBN	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP55|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00BCBN	\$558.64
SALTO NJB1100N00BCBNR	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP66|BioCote (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00BCBNR	\$584.92
SALTO NJB1100N00CPBN	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP55|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00CPBN	\$498.12
SALTO NJB1100N00CPBNR	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP66|polished chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00CPBNR	\$524.40
SALTO NJB1100N00CSBN	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP55|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00CSBN	\$498.12
SALTO NJB1100N00CSBNR	NEO US Rim Cylinder|HID|Iclass|SEOS|SVN; Black Rdr|IP66|satin chrome (Available only in the USA and Canada)	AC-SALTO-NEO-US-RIM-CYL-NJB1100N00CSBNR	\$524.40
SALTO NBP4R60150CPB1	Neox Padlock|BLE|Mifare|DESFire|SVN|Black; Removable shackle 11mm dia-60mm len|IP66(chain (Available only in the USA and Canada)	AC-SALTO-NEOXX-PADLOCK-DESFIRE-NBP4R60150CPB1	\$981.62
SALTO NBP4R60150CPB0	Neox Padlock|BLE|Mifare|DESFire|SVN|Black; Non-removable shackle 11mm dia-60mm len|IP66 (Available only in the USA and Canada)	AC-SALTO-NEOXX-PADLOCK-DESFIRE-NBP4R60150CPB0	\$880.89
SALTO NJP4R60150CPB0	Neox Padlock|HID|Iclass|SEOS|BLE|SVN|Black; Non-removable shackle 11mm dia-60mm len|IP66 (Available only in the USA and Canada)	AC-SALTO-NEOXX-PADLOCK-HID-ICLASS-NJP4R60150CPB0	\$1,158.95
SALTO SP220475-6	Outdoor Kit; pair of gaskets for weather exposed; XS4 escutcheons; pack of 6 sets (Available only in the USA and Canada)	AC-SALTO-OUTDOOR-KIT-XS4-ESCUTCHEON-SP220475-6	\$99.33
SALTO PPD800	Portable Programming Device|NFC|USB connection; 3 pin harness connector|req 3 AAA batteries; incl (Available only in the USA and Canada)	AC-SALTO-PORTABLE-PROGRAMMING-DEVICE-PPD800	\$812.69
SALTO SPACE-OPT-0032	SALTO ProAccess SPACE software SPACE-OPT-0032; SALTO event-alarms & communication module. Enables event alarms and also sends emails to the operators generated by the events. (Available only in the USA and Canada)	AC-SALTO-PROACCESS-SPACE-SOFTWARE-SPACE-OPT-0032	\$1,043.54
SALTO SPAONLINE	SALTO ProAccess SPACE; ProAccess SPACE Software |Online|SVN|RF|Lockdown; Event Stream|Automatic Key Assignment|Less Photo (Available only in the USA and Canada)	AC-SALTO-PROACCESS-SPACE-SOFTWARE-SPAONLINE	\$1,399.23
SALTO SPAPART	SALTO ProAccess SPACE software Partitioned package that includes: - All the features included in the SALTO ProAccess SPACE ID System package - Partitional functionalities (department operator)	AC-SALTO-PROACCESS-SPACE-SOFTWARE-SPAPART	\$3,581.64
SALTO SPAONLABAB	SALTO Starter Kit - ProAccess SPACE Software - Online; standard readers; ANSI; black readers (Available only in the USA and Canada)	AC-SALTO-PROACCESS-SPACE-STARTER-KIT-SPAONLABAB	\$3,624.66
SALTO GATEWAYB2CUS	Wireless Gateway|RFnet node|black|12VDC xfrm; Ethernet|supports upto 6 additional wired nodes (Available only in the USA and Canada)	AC-SALTO-RFNET-BLACK-GATEWAYB2CUS	\$694.34
SALTO GATEWAYW2CUS	Wireless Gateway|RFnet node|white|12VDC xfrm; Ethernet|supports upto 6 additional wired nodes (Available only in the USA and Canada)	AC-SALTO-RFNET-WHITE-GATEWAYW2CUS	\$694.34
SALTO PBF110033M	Rim Panic Bar Device|33" length - Use w|KPB03|satin stainless (Available only in the USA and Canada)	AC-SALTO-RIM-PB-PBF110033M	\$1,202.55
SALTO SAMKIT9	Salto Authorization Module(SAM)|DESFire|EndUser; requires EC9x|application subject to approval; SAM Software Kit. Includes SAM Software; SAM card. (Available only in the USA and Canada)	AC-SALTO-SAMKIT9	\$6,087.17
SALTO SAMKITH	Salto Authorization Module(SAM)|HID|Iclass|EndUser; requires ECHx|application subject to approval; SAM Software Kit. Includes SAM Software; SAM card. (Available only in the USA and Canada)	AC-SALTO-SAMKITH	\$6,087.17
SALTO SP226335	Shackle Chain|collar attached|300mm length; For use with Neox Padlock; Padlock Not Included (Available only in the USA and Canada)	AC-SALTO-SHACKLE-CHAIN-NEOXX-PADLOCK-SP226335	\$47.65
SALTO SPACE-OPT-0018	SALTO ProAccess SPACE; SPACE SHIP Interface Option (0018) (Available only in the USA and Canada)	AC-SALTO-SHIP-OPTION-SPACE-OPT-0018	\$393.69
SALTO TR-SPACE-V1	Salto SPACE Training Kit (one user) (Available only in the USA and Canada)	AC-SALTO-SPACE-TRAINING-KIT-TR-SPACE-V1	\$5,362.64
SALTO SP226233.02-BM	Spacer Plate for door thickness 1-1/4" - 1-3/8" (30-35mm) (Available only in the USA and Canada)	AC-SALTO-SPACER-PLATE-SP226233.02-BM	\$18.04
SALTO PSM04K-20	Credential|smart sticker|1" round|white PVC | Pack of 20 stickers | Mifare 4KB|pack of 20 (Available only in the USA and Canada)	AC-SALTO-STICKERS-SMARTCARD-PSM04K-20	\$188.64
Salto UBOX42DBABTUS	The UBOX4000 offers a compact solution updater kit based on a SALTO Controller and a Wall Reader that permits to integrate with third party products. ANSI - North American - Single gang mount reader; Black; Transparent Cover; US version; Includes UBOX 42 controller in a case with translucent cover and black ANSI rectangular BLE Mifare DESFire reader. (Available only in the USA and Canada)	AC-SALTO-UPDATER-KIT-UBOX42DBABTUS	\$643.17
Salto UBOX42DBMBTUS	The UBOX4000 offers a compact solution updater kit based on a SALTO Controller and a Wall Reader that permits to integrate with third party products. Mullion - narrow reader; Black; Transparent Cover; US version; Includes UBOX 42 controller in a case with translucent cover and black mullion BLE Mifare DESFire reader. (Available only in the USA and Canada)	AC-SALTO-UPDATER-KIT-UBOX42DBMBTUS	\$643.17
SALTO WRDB0A4B	Wall Reader|ANSI|XS4 2.0|BLE|DESFire|Mifare|Black; series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-DESFIRE-BLACK-WRDB0A4B	\$503.69
SALTO WRDB0A4W	Wall Reader|ANSI|XS4 2.0|BLE|DESFire|Mifare|White; series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-DESFIRE-WHITE-WRDB0A4W	\$503.69
SALTO WRDJA04B	Wall Reader|ANSI|XS4 2.0|BLE|HID|Iclass|Black; series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-ICLASS-BLACK-WRDJA04B	\$503.69
SALTO WRDJA04W	Wall Reader|ANSI|XS4 2.0|BLE|HID|Iclass|White; series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-ICLASS-WHITE-WRDJA04W	\$503.69

SALTO WRDB0ABK	Wall Reader|Keypad|ANSI|XS4 2.0|BLE|DESFire|Mifare; Black|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-KEYPAD-DESFIRE-BLACK-WRDB0ABK	\$739.10
SALTO WRDB0AWK	Wall Reader|Keypad|ANSI|XS4 2.0|BLE|DESFire|Mifare; White|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-KEYPAD-DESFIRE-WHITE-WRDB0AWK	\$739.10
SALTO WRDJ0ABK	Wall Reader|Keypad|ANSI|XS4 2.0|BLE|HID iClass; Black|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-KEYPAD-ICLASS-BLACK-WRDJ0ABK	\$739.10
SALTO WRDJ0AWK	Wall Reader|Keypad|ANSI|XS4 2.0|BLE|HID iClass; White|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-KEYPAD-ICLASS-WHITE-WRDJ0AWK	\$739.10
SALTO WRDB0M4B	Wall Reader|Mullion|XS4 2.0|BLE|DESFire|Mifare; Black|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-MULLION-DESFIRE-BLACK-WRDB0M4B	\$503.69
SALTO WRDB0M4W	Wall Reader|Mullion|XS4 2.0|BLE|DESFire|Mifare; White|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-MULLION-DESFIRE-WHITE-WRDB0M4W	\$503.69
SALTO WRDJ0M4B	Wall Reader|Mullion|XS4 2.0|BLE|HID iClass; Black|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-MULLION-ICLASS-BLACK-WRDJ0M4B	\$503.69
SALTO WRDJ0M4W	Wall Reader|Mullion|XS4 2.0|BLE|HID iClass; White|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-MULLION-ICLASS-WHITE-WRDJ0M4W	\$503.69
SALTO WRDB0P40	Wall Reader|Panel Mount|XS4 2.0|BLE|DESFire|Mifare; Incl stickers|series CU42xx controller req|IP66 (Available only in the USA and Canada)	AC-SALTO-WALL-READER-PANEL-MOUNT-DESFIRE-WRDB0P40	\$503.72
SALTO RFNODE3	Wireless Node|BLUENet|white; Wired|requires GATEWAYxx for operation (Available only in the USA and Canada)	AC-SALTO-WIRELESS-NODE-BLUENET-RFNODE3	\$132.73
SALTO RFNODE	Wireless Node|RFNet|white; Wired|requires GATEWAYxx for operation (Available only in the USA and Canada)	AC-SALTO-WIRELESS-NODE-RFNET-RFNODE	\$132.73
SALTO SPACE-OPT-0033	SALTO ProAccess SPACE; SPACE BLUENet Wireless Connection Option (0033); 1ea per Lockset (online) (Available only in the USA and Canada)	AC-SALTO-WIRELESS-OPTION-BLUENET-SPACE-OPT-0033	\$118.78
SALTO SPACE-OPT-0021	SALTO ProAccess SPACE; SPACE Wireless Option (0021) enables RF (Available only in the USA and Canada)	AC-SALTO-WIRELESS-OPTION-RF-SPACE-OPT-0021	\$93.88
SALTO REPEATER03US	Wireless Repeater|BLUENet|white; Wired|requires GATEWAYx3 or RFNODE3 for operation (Available only in the USA and Canada)	AC-SALTO-WIRELESS-REPEATER-BLUENET-REPEATER03US	\$132.73
SALTO CB250N60BCB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr; Entrance|N lever|2-3/8" backset|BioCote (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250N60BCB3	\$763.60
SALTO CB250N60CPB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr; Entrance|N lever|2-3/8" backset|polished chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250N60CPB3	\$784.61
SALTO CB250N60CSB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr; Entrance|N lever|2-3/8" backset|satin chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250N60CSB3	\$763.60
SALTO CB250N70CSB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr|Entrance|N lever|2-3/4" backset|satin chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250N70CSB3	\$807.23
SALTO CB250N70CSB4	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr|Entrance|N lever|2-3/4" backset|satin chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250N70CSB4	\$807.23
SALTO CB250R70CSB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr|Entrance|R lever|2-3/4" backset|satin chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250R70CSB3	\$807.23
SALTO CB250R70NEB3	XS4 ANSI Mini|BLE|Mifare|DESFire|Black Rdr|Entrance|R lever|2-3/4" backset|satin black (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB250R70NEB3	\$854.50
SALTO CB260N70CSB3	SALTO XS4 Mini ANSI Electronic Escutcheon Grade 1 cylindrical latch; 2 handles; any type. Entrance Lock with key override. BLE Mifare DESFire; Standard - standard square spindles; finishes and handles. Mechanical cylinder not included. (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB260N70CSB3	\$809.59
SALTO CB260N70DBB3	SALTO XS4 Mini ANSI Electronic Escutcheon Grade 1 cylindrical latch; 2 handles; any type. Entrance Lock with key override. BLE Mifare DESFire; Standard - standard square spindles; finishes and handles. Mechanical cylinder not included. (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CB260N70DBB3	\$857.02
SALTO CJ250N60BCB3	XS4 ANSI Mini|BLE|HID iClass|Black Rdr; Entrance|N lever|2-3/8" backset|BioCote (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CJ250N60BCB3	\$830.61
SALTO CJ250N60CPB3	XS4 ANSI Mini|BLE|HID iClass|Black Rdr; Entrance|N lever|2-3/8" backset|polished chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CJ250N60CPB3	\$784.61
SALTO CJ250N60CSB3	XS4 ANSI Mini|BLE|HID iClass|Black Rdr; Entrance|N lever|2-3/8" backset|satin chrome (Available only in the USA and Canada)	AC-SALTO-XS4-ANSI-MINI-CJ250N60CSB3	\$763.60
SALTO SP01045-100	XS4 Original connection circuit cable. For XS4 Original with door thickness up to 100mm (Available only in the USA and Canada)	AC-SALTO-XS4-CABLE-SP01045-100	\$8.45
SALTO AB660J00M38	XS4 Escutcheon|BLE|Mifare|DESFire|SVN; KO|Entrance|ANSI J lever|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AB660J00M38	\$944.49
SALTO AB656N00BC38W	XS4 Escutcheon|BLE|Mifare|DESFire|SVN - Privacy Button|ANSI N lever|BioCote (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-PB-AB656N00BC38W	\$1,293.95
SALTO AB650A00M38	XS4 Escutcheon|BLE|Mifare|DESFire|SVN; Entrance|ANSI A lever|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AB650A00M38	\$918.14
SALTO AB650A00M38W	XS4 Escutcheon|BLE|Mifare|DESFire|SVN|RFNet; Entrance|ANSI A lever|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AB650A00M38W	\$1,157.00
SALTO AB650W00M38	XS4 Escutcheon|BLE|Mifare|DESFire|SVN; Entrance|ANSI W lever|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AB650W00M38	\$918.20
SALTO AB658N61M48C	SALTO XS4 Electronic Escutcheon Ax658; For ANSI mortise locks; 2 handles; any type; inside thumbturn 90; with connector for mortise lock with micro-switch. BLE Mifare Technology; Wireless convertible - 8 mm square spindle; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AB658N61M48C	\$937.67
SALTO AJ650A00M38W	XS4 Escutcheon|BLE|HID iClass|SVN; Entrance|ANSI A lever|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-AJ650A00M38W	\$1,081.42
SALTO AB656N00M38W	SALTO XS4 Escutcheon BLE Mifare DESFire SVN RFNet; Privacy Button ANSI N lever satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-ESCUTHEON-MIFAR-ANSI-PB-AB656N00M38W	\$1,157.05
SALTO EB756HDLMB4MD5	SALTO XS4 ONE Electronic Escutcheon Ex756; 2 Handles; any type. Electronic "do not disturb" system. BLE Mifare DESFire; Standard - standard square spindles; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-ONE-ESCUTHEON-DEADLATEB756HDLMB4MD5	\$1,228.30
SALTO AM656N00BCB38	SALTO XS4 Original + Escutcheon|BLE|Mifare|DESFire|HSE|SVN | Privacy Button|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-ESCUTHEON-BIOCOTE-AM656N00BCB38	\$1,041.46
SALTO AM656N00BCB48	SALTO XS4 Original + Escutcheon|BLE|Mifare|DESFire|HSE|SVN | Privacy Button|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-ESCUTHEON-BIOCOTE-AM656N00BCB48	\$1,041.46
SALTO AM658N61BCB38	SALTO XS4 Original + Escutcheon|BLE|Mifare|DESFire|HSE|SVN |leadbolt|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-ESCUTHEON-BIOCOTE-AM658N61BCB38	\$1,041.46
SALTO AM658N62BCB38	SALTO XS4 Original + Escutcheon|BLE|Mifare|DESFire|HSE|SVN |leadbolt|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-ESCUTHEON-BIOCOTE-AM658N62BCB38	\$1,041.46

SALTO SP01798-C8-4	SALTO XS4 Original + Escutcheon [Door Thickness Change Kit (Available only in the USA and Canada)	AC-SALTO-XS4-OP-ESCUTCHEON-DC-KIT-SP01798-C8-4	\$13.72
SALTO AM650A00BCWH8	SALTO XS4 Electronic Half Escutcheon Ax650 for panic bar; 1 handle; any type. Technology: Mifare + Bluetooth LE + HSE and standard square spindles; finishes and handles	AC-SALTO-XS4-OP-HALF-ESCUTCHEON-ANSI-AM650A00BCWH8	\$1,091.92
SALTO AM660B00IMBH8E5	SALTO XS4 Electronic Half Escutcheon Ax660 for panic bar; 1 handle; any type; built in mechanical cylinder with audit. Technology: Mifare + Bluetooth LE + HSE and standard square spindles; finishes and handles.	AC-SALTO-XS4-OP-HALF-ESCUTCHEON-ANSI-AM660B00IMBH8E5	\$1,061.85
SALTO AM660N00IMBH8E5	XS4 Original+ Half escutcheon[BLE|Mifare|DESFire|HSE|Black Rdr|KO|Entrance|ANSI|N lever|satin ss; SALTO XS4 Electronic Half Escutcheon Ax660 for panic bar; 1 handle; any type; built in mechanical cylinder with audit. Technology: Mifare + Bluetooth LE + HSE and standard square spindles; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-OP-HALFESCUTCHEON-ANSI-AM660N00IMBH8E5	\$1,061.85
SALTO AM650N00BCBH8	SALTO XS4 Original + Panic Bar Trim[BLE|Mifare|DESFire|HSE|SVN | RIM compatible|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-BIOCOTE-AM650N00BCBH8	\$1,088.80
SALTO AM650N00BCBP8	SALTO XS4 Original + Panic Bar Trim[BLE|Mifare|DESFire|HSE|SVN | Con rod compatib|ANSI N lever|BioCote | BlueNet Capable (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-BIOCOTE-AM650N00BCBP8	\$1,041.46
SALTO KPP171M	SALTO XS4 Original + PB Kit| Corbin Russwin ED2500 & Yale 7100 | SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-KIT-CR-KPP171M	\$328.07
SALTO KPP551M	SALTO XS4 Original + PB Kit | Dorma Kabba | SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-KIT-DK-KPP551M	\$328.07
SALTO KPP081M	SALTO XS4 Original + PB Kit| SARGENT 8888 | SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-KIT-SAR-KPP081M	\$328.07
SALTO KPB031M-U	Kit panic bars - UNIVERSAL - KPB | Kit panic bars | SALTO XS4 Panic Bar Kit for versions of VON DUPRIN | Satin stainless steel | U-listed	AC-SALTO-XS4-OP-PANIC-BAR-KIT-VD-KPB031M-U	\$329.02
SALTO KPP031M	SALTO XS4 Original + PB Kit|Satto PBF110|Von Duprin series 98 & 99 | SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-KIT-VD-KPP031M	\$328.07
SALTO KPP041M	SALTO XS4 Original + PB Kit|Von Duprin series 98/9927 & 98/9957 | SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-OP-PANIC-BAR-KIT-VD-KPP041M	\$328.07
SALTO AM650A00IMB38	XS4 Original+ Wide Body Escutcheon - ANSI[BLE|Mifare|DESFire|HSE|Black Rdr|Entrance|ANSI|A lever|satin ss	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM650A00IMB38	\$973.46
SALTO AM650N00IMB38E5	SALTO XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Entrance|ANSI|N lever|satin ss; XS4 Original+ Wide Body Escutcheon - ANSI Electronic Escutcheon Ax650; For ANSI mortise locks; 2 handles; any type. Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM650N00IMB38E5	\$1,014.44
SALTO AM650W00IMB38	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Entrance|ANSI|W lever|satin ss (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM650W00IMB38	\$970.62
SALTO AM650W00NEB38	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Entrance|ANSI|W lever|blk chromium (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM650W00NEB38	\$1,017.89
SALTO AM650W00NEB48	XS4 Original+Half Escutcheon for Panic Bar|BLE|Mifare|DESFire|HSE|Black Rdr|Entrance|ANSI|W lever|blk chromium (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM650W00NEB48	\$1,065.19
SALTO AM656A00IMB48	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Privacy Button|ANSI|A lever|satin ss (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM656A00IMB48	\$970.62
SALTO AM656N00IMB38	SALTO XS4 original+ Wide Body Electronic Escutcheon; For ANSI mortise locks; 2 Handles; any type; Electronic 'do not disturb' system. Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Privacy Button|ANSI|N lever|satin ss (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM656N00IMB38	\$973.46
SALTO AM656W00IMB38	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Privacy Button|ANSI|W lever|satin ss (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM656W00IMB38	\$970.62
SALTO AM658N62DBB38	SALTO XS4 original+ Wide Body Electronic Escutcheon; For ANSI mortise locks; 2 handles; any type; inside thumbturn 90°; with connector for mortise lock with micro-switch. Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. XS4 Original+BLE|Mifare|HSE|Dark Bronze |Black Rdr|ANSI|N lever (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM658N62DBB38	\$1,020.89
SALTO AM658N62IMB38	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|Deadbolt|ANSI|N lever|satin ss (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM658N62IMB38	\$973.46
SALTO AM660A00IMB38E5	SALTO XS4 Electronic Escutcheon Ax660; For ANSI mortise locks; 2 handles; any type; built in mechanical cylinder with audit housing; (mechanical cylinder not included). Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|KO|Entrance|ANSI|A lever|satin ss	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM660A00IMB38E5	\$1,014.44
SALTO AM660J00IMB38	SALTO XS4 Electronic Escutcheon Ax660; For ANSI mortise locks; 2 handles; any type; built in mechanical cylinder with audit housing; (mechanical cylinder not included; for technical specifications consult SALTO). Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM660J00IMB38	\$1,001.34
SALTO AM660N00IMB38E5	XS4 Original+BLE|Mifare|DESFire|HSE|Black Rdr|KO|Entrance|ANSI|N lever|satin ss; SALTO XS4 Electronic Escutcheon Ax660; For ANSI mortise locks; 2 handles; any type; built in mechanical cylinder with audit housing; (mechanical cylinder not included). Technology: Mifare + Bluetooth LE + HSE - 8 mm square spindle; finishes and handles. (Available only in the USA and Canada)	AC-SALTO-XS4-OP-WB-ESCUTCHEON-ANSI-AM660N00IMB38E5	\$1,014.44
SALTO AB650N00BCH8	XS4 Panic Bar Trim[BLE|Mifare|DESFire|SVN - RIM compatible|ANSI N lever|BioCote (Available only in the USA and Canada)	AC-SALTO-XS4-PANIC-RIM-ANSI-BIOCOTE-AB650N00BCH8	\$1,088.80
SALTO AB650N00BCH8W	XS4 Panic Bar Trim[BLE|Mifare|DESFire|SVN|Rfnet - RIM compatible|ANSI N lever|BioCote (Available only in the USA and Canada)	AC-SALTO-XS4-PANIC-RIM-ANSI-BIOCOTE-AB650N00BCH8W	\$1,214.13
SALTO KPB171M	XS4 PB Kit|Corbin Russwin ED2500 & Yale 7100 - SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-CR-KPB171M	\$328.06
SALTO KPB081M	XS4 PB Kit| SARGENT 8888 - SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-SG-KPB081M	\$328.06
SALTO KPB081MW	XS4 PB Kit| SARGENT 8888 - SVN|Rfnet|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-SG-KPB081MW	\$449.02
SALTO KPB031M	XS4 PB Kit|Satto PBF110|Von Duprin series 98 & 99 - SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-VD-KPB031M	\$328.06
SALTO KPB041M	XS4 PB Kit|Von Duprin series 98/9927 & 98/9957 - SVN|satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-VD-KPB041M	\$328.06
SALTO KPB031MW	SALTO KPB03XX.. Adapter Kit for Von Duprin 98/99 Panic Bar Single Point (Available only in the USA and Canada)	AC-SALTO-XS4-PB-KIT-VONDUPRIN-98-99-KPB031MW	\$424.77
SALTO AB650N00IMH8W	SALTO Mortise XS4 Panic Bar Trim BLE Mifare DESFire SVN Rfnet; RIM compatible ANSI N lever satin stainless (Available only in the USA and Canada)	AC-SALTO-XS4-PB-MIFARE-RIM-EXIT-ANSI-AB650N00IMH8W	\$1,081.49
ASSA ABLOY 10-3186-32D	ASSA ABLOY SARGENT Cylindrical Lever Lock Latch; 2-3/8" Backset; Satin Stainless Steel; For 10-Line Cylindrical Lever Lock	AC-AA-SAR-10-3186-32D	\$74.58
Allegion 23760275	Allegion Schlage 12.0" x 3.5" x .075" Decorative Plate (no Screws necessary) - (Under Lock)	AC-SCH-AD-23760275	\$116.11
Schlage USB and 2-pin Android cable for SUS	Schlage USB and 2-pin Android cable for Schlage Utility Software (SUS) mobile app for Android devices	AC-SCH-47282796-SUS-A-KIT	\$194.64
Schlage 47278749	Upgrades NDE80 Product to NDEB; NDEB Inside Escutcheon Assembly (with Main PCBA)	AC-SCH-RETROFIT-KIT-47278749	\$532.03
ASSA ABLOY Aperio Programming Kit APA-10-PC	ASSA ABLOY Aperio Programming Application Tool Kit APA-10-PC; Includes USB Flash Drive; Programming Application Tool Software and License Files; Aperio Instructions (electronic files); Trittech Tribee USB Radio Dongle (APD-10-USB); HID iCLASS/Prox Card	AC-AA-APA-10-PC	\$650.48

ASSA ABLOY AH20 Gen 5 Hub	ASSA ABLOY Aperio® AH20 Standard Gen5 1 to 1 Wiegand Interface Communication Hub for or indoor use. The AH20 interfaces a single ASSA ABLOY Aperio door device to the Access Control Manager system as a Wiegand interface to controllers and subpanels. Built in tamper switch for detection of removal from bracket. Integrated antenna with the option to mount an external antenna. Encrypted radio communication; For standard electrical installation boxes. LED for status visualisation	AC-AA-GEN5-AH20-HUB-AH20W14-NNNN	\$264.92
ASSA ABLOY Aperio Hub Accessory; EXT-10-ANT Aperio External Antenna	ASSA ABLOY Aperio® hubs are certified for use with the ASSA ABLOY external (omnidirectional) antenna EXT-10-ANT. The external antenna may be used to obtain more even radio coverage (in the form of a doughnut) around the hub. Please note that the antenna does not extend the maximum range of the Aperio® hub. The Aperio® hubs are for indoor use only; Operating Temperature: 32°F (0 °C) to 113°F (45 °C) and Humidity: < 95% maximum (non-condensing).	AC-AA-HUB-EXT-10-ANT	\$71.59
ASSA ABLOY AH30RN1-RC	ASSA ABLOY - Mercury Aperio Hub 1.8 with Avigilon Enablement SW (ASSA ABLOY Part Number: AH30RN1-RC)	AC-MER-AH30RN1-RC	\$421.45
ASSA ABLOY APD-10-USB	ASSA ABLOY - USB Radio Dongle (ASSA ABLOY Part Number: APD-10-USB)	AC-MER-APD-10-USB	\$543.47
Allegion ANT400-REM-CEILING	Omni-Directional Remote Indoor/Outdoor Antenna Module. Includes Antenna; 15' Coax; Coax Whip. For indoor use with PIM400 and/or WRI400. (Allegion Part Number: ANT400-REM-CEILING)	AC-ALL-SCH-AD400-ANT400-REM-CEILING	\$441.55
Allegion ANT400-REM-HALL	Bi-Directional Remote Indoor Antenna Module. Includes Antenna; 15' Coax; Coax Whip. For indoor use with PIM400 and/or WRI400. (Allegion Part Number: ANT400-REM-HALL)	AC-ALL-SCH-AD400-ANT400-REM-HALL	\$628.77
Allegion ANT400-REM-I/O+6DB	Omni-Directional Remote Indoor/Outdoor Antenna Module. Includes Antenna; 15' Coax; Coax Whip; Articulated Wall/Post Mounting Hardware. For indoor use with PIM400 and/or WRI400. Requires MGB+MCA5 Antenna Grounding Kit for outdoor applications. (Allegion Part Number: ANT400-REM-I/O+6db)	AC-ALL-SCH-AD400-ANT400-REM-I/O+6DB	\$578.63
Allegion MGB+MCA5	Antenna Grounding Kit (for outdoor mounting). Could be used with ANT400-REM-I/O; ANT400-REM-I/O+6DB; ANT400-REM-CEILING; ANT400-REM-HALL. (Allegion Part Number: MGB+MCA5)	AC-ALL-SCH-AD400-MGB+MCA5	\$207.98
Allegion COM400L	Electronic Lock Communication Module Kit	AC-ALL-SCH-COM400L	\$399.74
Allegion COM400P-626	Schlage COM400P Communication Module Kit; Satin chrome	AC-ALL-SCH-COM400P-626	\$399.74
Allegion COM400P-643E	Schlage COM400P Communication Module Kit; Aged bronze	AC-ALL-SCH-COM400P-643E	\$399.74
Allegion GWE-ENGAGE	GWE — ENGAGE Gateway with RS-485 & IP (PoE) connectivity. Supports up to 10 ENGAGE enabled devices with Mercury Security 1DR and 64DR (AC-MER-CONT-1DR and AC-MER-CONT-64DR Sold Separately) access control panels (Allegion Part Number: GWE - ENGAGE)	AC-ALL-SCH-ENGAGE-GWE	\$627.79
Allegion PIB300-2D	Panel Interface Board (supports 2 doors) (Allegion Part Number: PIB300-2D)	AC-ALL-SCH-PIB300-2D	\$531.09
Allegion PIM400-1501-LC	900 MHz Panel Interface Module for 16 door intelligent controller (AC-MER-CONT-LP1501 Sold Separately) for AD Series wireless devices; powered by Mercury Security. Encrypted with AES-128 bit keys; Certifications: FCC Part 15; Industry Canada (IC); RoHS; UL294 Listed when connected to UL294 power supply; Dimensions: 10.43" X 7.28" X 3.79" (26.49cm X 18.49 cm X 9.63 cm); Weight 2.8 lbs (1.27 kg) (Allegion Part Number: PIM400-1501-LC)	AC-ALL-SCH-PIM400-1501-LC	\$1,936.44
Allegion PIM400-485-RSI	900 MHz Panel Interface Module for 16 or 64 door intelligent controller (AC-MER-CONT-LP1501; AC-MER-CONT-LP1502; AC-MER-CONT-LP2500 and AC-MER-CONT-LP4502 Sold Separately) (Up to 16 wireless access devices such as AD-400 locks per PIM) for AD Series wireless devices; powered by Mercury Security. Certifications: NEMA 1; 4; 4X; 6; UL 294; FCC Part 15; Industry Canada (IC); RoHS; Dimensions (H x W x D): 6.3" x 3.2" x 2.2" (16.0 cm x 8.13 cm x 5.59 cm); Weight 1.25 lbs (.56 kg) (Allegion Part Number: PIM400-485-RSI)	AC-ALL-SCH-PIM400-485-RSI	\$1,611.91
Allegion PIM400-TD2	Panel Interface Module (supports 2 doors) Wiegand (Data1/Data2) or magnetic stripe (Clock & Data) output. Includes Weatherproof Enclosure (7.1" x 7.1"); Internal Antenna with ability to add Remote Antenna. Requires 12 or 24 VDC power supply. Relay Board sold separately. (Allegion Part Number: PIM400-TD2)	AC-ALL-SCH-PIM400-TD2	\$935.34
Allegion RLBD	Relay Board (for PIB300-2D or PIM400-TD2) (Allegion Part Number: RLBD)	AC-ALL-SCH-RLBD	\$268.80
Allegion WPR400-MTK	Wireless Portable Reader with keypad (with Multi-Technology Reader Module) Handheld; battery operated unit with Multi-Technology (Allegion Part Number: WPR400-MTK)	AC-ALL-SCH-WPR400-MTK	\$2,252.71
Allegion 8B-626	AD-400 Eight (8) battery conversion kit in grey (Allegion Schlage Part #: 8B-626).	AC-SCH-BATTERY-8B-626	\$109.28
Allegion COM300L-643E	Communication Module Kit for AD-300 Classroom/Storeroom (70) function. Compatible with Cylindrical; Mortise; Mortise with deadbolt; 993 exit trim chassis. Aged bronze finish.	AC-SCH-COM300L-643E	\$369.65
Allegion COM400L-626	Wireless AD-400 Communication Kit Module Cover with Indicator	AC-SCH-COM400L-626	\$398.48
Allegion MT-626	AD-400 Multi-Technology reader module in grey (Allegion Part #: MT-626).	AC-SCH-READ-MODULE-MT-626	\$783.02
Allegion SI-626	AD-400 Smart Technology iClass compatible reader module in grey (Allegion Part #: SI-626).	AC-SCH-READ-MODULE-SI-626	\$908.79
Allegion SIK-626	AD-400 Smart Technology iClass compatible reader + keypad module in grey (Allegion Part #: SIK-626).	AC-SCH-READ-MODULE-SIK-626	\$972.64
Allegion TK400	Wireless Test Kit; Pre-Installed Test Kit; Complete with WPR400-DT; PIM400-TD2; 593Pt; Power Supply; Charger; Carrying Case.	AC-SCH-TK400	\$1,906.54
ACM Professional Services - PRO-ACM-ONSITE-8H - Contact ACM SE prior to Purchase	ACM Professional Services; 8 hours on-site consulting (Includes all travel costs); Contact ACM SE prior to Purchase	PRO-ACM-ONSITE-8H	\$8,000.00
ACM Professional Services - HW1024 Migration - Contact ACM SE prior to Purchase	One-time migration of field hardware data from a Mercury Security Hardware-based system of up to 1024 card readers to Avigilon ACM and includes controllers; reader interface modules; input modules; output modules; holidays; and schedules. PREREQUISITES: AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-HM-1024	\$54,900.00
ACM Professional Services - HW2048 Migration - Contact ACM SE prior to Purchase	One-time migration of field hardware data from a Mercury Security Hardware-based system of up to 2048 card readers to Avigilon ACM and includes controllers; reader interface modules; input modules; output modules; holidays; and schedules. PREREQUISITES: AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-HM-2048	\$109,800.00
ACM Professional Services - HW256 Migration - Contact ACM SE prior to Purchase	One-time migration of field hardware data from a Mercury Security Hardware-based system of up to 256 card readers to Avigilon ACM and includes controllers; reader interface modules; input modules; output modules; holidays; and schedules. PREREQUISITES: AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-HM-256	\$13,800.00
ACM Professional Services - HW512 Migration - Contact ACM SE prior to Purchase	One-time migration of field hardware data from a Mercury Security Hardware-based system of up to 512 card readers to Avigilon ACM and includes controllers; reader interface modules; input modules; output modules; holidays; and schedules. PREREQUISITES: AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-HM-512	\$27,500.00
ACM Professional Services - LDAP Migration - Contact ACM SE prior to Purchase	One-time migration of Identity data from a single LDAP-based data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-LDAP-6-P ACM LDAP collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIG-LDAP	\$9,300.00
ACM Professional Services - ORCL Migration - Contact ACM SE prior to Purchase	One-time migration of Identity data from a single Oracle data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-ORCL-6-P ACM Oracle collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIG-ORCL	\$9,300.00
ACM Professional Services - SQL Migration - Contact ACM SE prior to Purchase	One-time migration of Identity data from a single SQL data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-SQL-6-P ACM SQL collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIG-SQL	\$9,300.00
ACM Professional Services - LDAPF Migration - Contact ACM SE prior to Purchase	One-time migration and filtering of Identity data from a single LDAP-based data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-LDAP-6-P ACM LDAP collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIGF-LDAP	\$12,400.00
ACM Professional Services - ORCLF Migration - Contact ACM SE prior to Purchase	One-time migration and filtering of Identity data from a single Oracle data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-ORCL-6-P ACM Oracle collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIGF-ORCL	\$12,400.00
ACM Professional Services - SQLF Migration - Contact ACM SE prior to Purchase	One-time migration and filtering of Identity data from a single SQL data source into Avigilon ACM. Migrated data will include demographic information; images; tokens; and roles. PREREQUISITES: AC-SW-LIC-SQL-6-P ACM SQL collaboration licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-MIGF-SQL	\$12,400.00

ACM Professional Services - AZURE AD SYNC - Contact ACM SE prior to Purchase	On-going one-way inbound synchronization of Identity data from a single AzureAD data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-AD-AZURE	\$22,750.00
ACM Professional Services - GENERIC SYNC - Contact ACM SE prior to Purchase	On-going one-way inbound synchronization of Identity data from a single Generic AD data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-AD-GEN	\$22,750.00
ACM Professional Services Hourly- CUSTOM SYNC - Contact ACM SE prior to Purchase	Hourly Rate to configure on-going one-way inbound synchronization of Identity data from a single Custom Third-Party data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-CUSTOM	\$100.00
ACM Professional Services - LDAP SYNC - Contact ACM SE prior to Purchase	On-going one-way inbound synchronization of Identity data from a single LDAP data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-LDAP	\$22,750.00
ACM Professional Services - ORACL SYNC - Contact ACM SE prior to Purchase	On-going one-way inbound synchronization of Identity data from a single Oracle data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-ORCL	\$22,750.00
ACM Professional Services - SQL SYNC - Contact ACM SE prior to Purchase	On-going one-way inbound synchronization of Identity data from a single SQL data source into Avigilon ACM. Imported data will include demographic information; images; tokens; and roles. PREREQUISITES: Separate Windows-based server (virtual is acceptable) to host the synchronization service. AC-SW-LIC-REST-6-P ACM Rest API licensing is required and is not included. Service will be delivered remotely and requires remote access to the customers environment.	AC-PRO-SYNC-SQL	\$22,750.00
ACM Professional Services - PRO-ACM-REMOTE-4H - Contact ACM SE prior to Purchase	ACM Professional Services; 4 hours remote consulting; Contact ACM SE prior to Purchase	PRO-ACM-REMOTE-4H	\$2,500.00
ACM Professional Services - PRO-ACM-REMOTE-8H - Contact ACM SE prior to Purchase	ACM Professional Services; 8 hours remote consulting; Contact ACM SE prior to Purchase	PRO-ACM-REMOTE-8H	\$5,000.00